

RACADM Command Line Reference Guide for iDRAC7 1.50.50 and CMC 4.5



Notes, Cautions, and Warnings



NOTE: A NOTE indicates important information that helps you make better use of your computer.



CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Introduction

This document provides information about the RACADM subcommands, supported RACADM interfaces, and property database groups and object definitions for the following:

- iDRAC Enterprise or Express for Blade Servers
- iDRAC Enterprise or Express on Rack and Tower Servers
- Dell Chassis System (CMC)



NOTE: In this version of RACADM, the Linux shell features such as **ctrl+d**, **home**, **del**, and **end** shortcut keys are not supported.

New in This Release

For CMC version 4.5:

- View the quick deploy parameters and modify the number of reserved IP addresses for quick deploy using the **deploy** subcommand.
- Display and configure the thermal settings such as the Enhanced Cooling Mode (ECM) using the **cfgThermal** group object with **config** or **getconfig** subcommands. Display the ECM status using the **getfanreqinfo** command.
- Configuring the Extended Power Performance (EPP) using the **cfgChassisEPPEnable** object.
- View the status of EPP using the **getpbinfo** subcommand and the RAC log entry using the **getraclog** subcommand.

For iDRAC version 1.50.50:

- Run and export the remote diagnostics report using the **diagnostics** subcommand.
- Delete the pending value of all the objects in the NIC, BIOS, and Storage devices using the **clearpending** subcommand.
- Roll back the firmware to earlier version using the **rollback** subcommand.
- View the list of software objects and associated properties installed on the server using the **swinventory** subcommand.
- Create, view, and delete backup schedule automatically using the **systemconfig** subcommand.
- Schedule the firmware update automatically using the **autoupdatescheduler** subcommand.
- Export the complete lifecycle log using the **-complete** option in the **lcllog** subcommand.
- Using the **update** subcommand, the following can be updated from the repository:
 - Update the firmware from CIFS and FTP, NFS, and local file systems.
 - Generate and view the comparison reports.
- Clone or replace the configuration **.xml** file using the **get** subcommand.
- Validate the configuration **.xml** file before applying the configuration using the **-preview** option in the **set** subcommand.
- Using the **raid** subcommand, the following can be performed:
 - Create, delete, and secure the virtual disks.
 - Convert the physical disk drives and assign hot-spare.

- Reset, clear, and import the RAID configuration to the controller.
- Manage the properties of the ISM modules using the objects in the **iDRAC.ServiceModule** group.
- The following groups are replaced for the **cfgserverinfo**, **cfgvFlashSD**, and **cfgvflashpartition** commands.
 - Manage the server boot options using the objects in the **iDRAC.Serverboot** group.
 - Manage the vFlash SD partitions on iDRAC using the objects in the **iDRAC.vflashpartition** group.
 - Manage the vFlash SD properties on iDRAC using the objects in the **iDRAC.vflashsd** group.
- Manage configuration of the VNC Server on iDRAC using the objects in the **iDRAC.VNCServer** group.
- Get the chassis-specific information using the objects in the **System.ChassisInfo** group.
- Get the thermal settings of the server using the objects in the **System.ThermalSettings** group.
- Manage the storage controller attributes using the objects in the **Storage.Controller** group.
- Manage the storage physical disk drive attributes using the objects in the **Storage.PhysicalDisk** group.
- Manage the storage virtual disk attributes using the objects in the **Storage.VirtualDisk** group.
- Manage the redirection from http to https port using the **iDRAC.Webserver.Httpsredirection** object.
- Set the DHCP auto configuration operation using the **iDRAC.NIC.Autoconfig** object.

Supported RACADM Interfaces

The RACADM command-line utility provides a scriptable interface that allows you to locally configure or remotely configure your Remote Access Controller (RAC). The utility runs on the management station and the managed system. It is available on the *Dell OpenManage Systems Management and Documentation DVD* or at support.dell.com.

The RACADM utility supports the following interfaces:

- **Local** — Supports running RACADM commands from the managed server's operating system. To run local RACADM commands, install the OpenManage software on the managed server. Only one instance of Local RACADM can be executed on a system at a time. If you try to open another instance, an error message is displayed and the second instance of Local RACADM closes immediately. To download the local RACADM tool from support.dell.com, select **Drivers and Downloads**, select a server, and then select **Systems Management** → **Dell Toolkit**.
- **SSH or Telnet** — Also known as Firmware RACADM. Firmware RACADM is accessible by logging in to iDRAC7 using SSH or Telnet. You do not have to specify the iDRAC7 IP, user name or password to run Firmware RACADM commands. Similar to Local RACADM, at the RACADM prompt, directly run the commands without the RACADM prefix.
- **Remote** — Supports running RACADM commands from a remote management station such as a laptop or desktop. To run Remote RACADM commands, install the DRAC Tools utility from the OpenManage software on the remote computer. To run Remote RACADM commands:
 - Formulate the command as a Local or SSH/Telnet RACADM command.
 - In addition, specify `-r -i` options or the `-r -u -p` options.

For more information about the options, see [RACADM Subcommand Details](#). To download the local RACADM tool from support.dell.com, select **Drivers and Downloads**, select a server, and then select **Systems Management** → **DRAC Tools**.

RACADM Syntax Usage

The following section describes the syntax usage for Local, SSH/Telnet, and Remote RACADM.

Local RACADM

```
racadm getconfig -g <groupname> [-o <objectname>]
[-i <indexnumber>]

racadm <subcommand>
```

Example

```
racadm getconfig -g idracinfo
racadm getsysinfo
```

SSH or Telnet RACADM

```
racadm getconfig -g <groupname> [-o <objectname>]
[-i <indexnumber>]

racadm <subcommand>
```

Example

```
racadm getconfig -g idracinfo
racadm getsysinfo
```

Remote RACADM

```
racadm -r <racIpAddr> -u <username> -p <password> getconfig -g <groupname> [-o
<objectname>] [-i <indexnumber>]

racadm -r <racIpAddr> -u <username> -p <password> <subcommand>
```

Example

```
racadm -r <racIpAddr> -u <username> -p <password> getconfig -g idracinfo
racadm -r <racIpAddr> -u <username> -p <password> getsysinfo
```

Accessing Indexed-Based Device Groups and Objects

- To access any attribute, run the following syntax:
device.<group name>.[<index>].<attribute name>
- To display the supported indexes for a specified group, run:
racadm get device.<group name>

Example

```
racadm get nic.nicconfig
NIC.nicconfig.1 [Key=NIC.Integrated.1-1#NICConfig]
NIC.nicconfig.2 [Key=NIC.Integrated.1-2#NICConfig]
NIC.nicconfig.3 [Key=NIC.Integrated.1-3#NICConfig]
```

- To display the attribute list for the specified group, run:
racadm get device.<group name>.<index>

Example

```
racadm get nic.nicconfig.2
[Key=NIC.Integrated.1-2-1#NICConfig]
LegacyBootProto = NONE
LnkSpeed         = AutoNeg
VlanId           = 1
```

```
VlanMode          = Disabled
WakeOnLan        = Disabled
```

- To display a single attribute for the specified group, run:

```
racadm get device.<group name>.<index>.<attribute name>
```

Example

```
racadm get nic.nicconfig.3.legacybootproto
[Key=NIC.Integrated.1-3#NICConfig]
Legacybootproto=PXE
```

RACADM Command Options

The following table lists the options for the RACADM command:

Option	Description
-r <racIpAddr >	Specifies the controller's remote IP address. Use <port number> if the iDRAC port number is not the default port (443).
-r <racIpAddr > : <port number>	
-u <username>	Specifies the user name that is used to authenticate the command transaction. If the -u option is used, the -p option must be used, and the -i option (interactive) is not allowed.
-p <password>	Specifies the password used to authenticate the command transaction. If the -p option is used, the -i option is not allowed.
-S	Specifies that RACADM must check for invalid certificate errors. RACADM stops the execution of the command with an error message if it detects an invalid certificate.
-i <indexnumb er>	Specifies the index number for the indexed group, if applicable.
-g <groupname >	Specifies the group name if applicable.
-o <objectnam e>	Specifies the object name if applicable.

The following table lists the supported RACADM interfaces for iDRAC Enterprise, iDRAC Express, and CMC.

iDRAC Type	Local RACADM	SSH/Telnet RACADM	Remote RACADM
iDRAC Enterprise	Yes	Yes	Yes
iDRAC Express	Yes	Yes	Yes
CMC	No	Yes	Yes




NOTE: Multiple instances of remote RACADM can be executed on a management station, while only one instance of local RACADM can be executed on a managed node.

Using The Autocomplete Feature

Use the autocomplete feature to:

- Display all the available RACADM commands in the alphabetical order on pressing the <Tab> key at the prompt.
- To complete the list, enter the starting letter of the command at the prompt and press <Tab> key.

 **NOTE:** This feature is applicable only for iDRAC.

For example:

- **Example 1:** [root@idrac-<username>]racadm> <press tab>

```
arp
autoupdatescheduler
clearasrscreen
clearpending
closessn
clrraclog
clrsel
config
coredump
coredumpdelete
debug
eventfilters
exit
fcstatistics
FrontPanelError
fwupdate
get
set
getconfig
getled
getniccfg
getraclog
getractime
getsel
getsensorinfo
getssninfo
getsvctag
getsysinfo
gettracelog
getuscversion
getversion
help
hwinventory
ifconfig
inlettemphistory
jobqueue
lclog
license
localConRedirDisable
netstat
nicstatistics
ping
ping6
racdump
racreset
racresetcfg
raid
remoteimage
serveraction
```

```

setled
setniccfg
sshpkauth
sslcertview
sslcertdelete
sslcsrger
sslEncryptionStrength
sslkeyupload
sslresetcfg
swinventory
systemconfig
testemail
testtrap
testalert
traceroute
traceroute6
update
usercontentview
vflashsd
vflashpartition
vmdisconnect
cd
quit

```

- **Example 2:** [root@idrac-<username>]racadm> get <press tab>

```

get
getconfig
getled
getniccfg
getraclog
getractable
getsel
getsensorinfo
getssninfo
getsvctag
getsysinfo
gettracelog
getuscversion
getversion

```

- **Example 3:**

```

[root@idrac-<username>]racadm> getv <press tab>
Bios Version           = 1.5.0
iDRAC Version          = 1.40.40
USC Version            = 1.1.5.157

```

Supported RACADM Subcommands

The following table provides the list of RACADM subcommands and their corresponding interface support. For more information about the RACADM subcommands including syntax and valid entries, see [RACADM Subcommand Details](#).

Subcommand	iDRAC on Blade Servers			iDRAC on Rack and Tower Servers			CMC	
	Telnet/SSH/ Serial	Local RACADM	Remote RACADM	Telnet/SSH/ Serial	Local RACADM	Remote RACADM	Telnet/SSH/ Serial	Remote RACADM
"?" and "? <subcommand> "	No	No	No	No	No	No	Yes	Yes
autoupdatesche duler	Yes	Yes	Yes	Yes	Yes	Yes	No	No

Subcommand	iDRAC on Blade Servers			iDRAC on Rack and Tower Servers			CMC	
	Telnet/SSH/ Serial	Local RACADM	Remote RACADM	Telnet/SSH/ Serial	Local RACADM	Remote RACADM	Telnet/SSH/ Serial	Remote RACADM
arp	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
chassisaction	No	No	No	No	No	No	Yes	Yes
cleararscreen	Yes	Yes	Yes	Yes	Yes	Yes	No	No
clearpending	Yes	Yes	Yes	Yes	Yes	Yes	No	No
closessn	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
clrraclog	No	No	No	No	No	No	Yes	Yes
clrsel	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
cmcchangeover	No	No	No	No	No	No	Yes	Yes
config	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
connect	No	No	No	No	No	No	Yes	Yes
coredump	Yes	Yes	Yes	Yes	Yes	Yes	No	No
coredumpdelete	Yes	Yes	Yes	Yes	Yes	Yes	No	No
deploy	No	No	No	No	No	No	Yes	Yes
diagnostics	Yes	Yes	Yes	Yes	Yes	Yes	No	No
eventfilters	Yes	Yes	Yes	Yes	Yes	Yes	No	No
fcstatistics	Yes	Yes	Yes	Yes	Yes	Yes	No	No
feature	No	No	No	No	No	No	Yes	Yes
featurecard	No	No	No	No	No	No	Yes	Yes
frontpanelerror	Yes	Yes	Yes	Yes	Yes	Yes	No	No
fwupdate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
get	Yes	Yes	Yes	Yes	Yes	Yes	No	No
getactiveerrors	No	No	No	No	No	No	Yes	Yes
getarraycfg	No	No	No	No	No	No	Yes	Yes
getassettag	No	No	No	No	No	No	Yes	Yes
getchassisname	No	No	No	No	No	No	Yes	Yes
getconfig	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
getdcinfo	No	No	No	No	No	No	Yes	Yes
getfanreqinfo	No	No	No	No	No	No	Yes	Yes
getflexaddr	No	No	No	No	No	No	Yes	Yes
getioinfo	No	No	No	No	No	No	Yes	Yes

Subcommand	iDRAC on Blade Servers			iDRAC on Rack and Tower Servers			CMC	
	Telnet/SSH/ Serial	Local RACADM	Remote RACADM	Telnet/SSH/ Serial	Local RACADM	Remote RACADM	Telnet/SSH/ Serial	Remote RACADM
getkvminfo	No	No	No	No	No	No	Yes	Yes
getled	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
getmacaddress	No	No	No	No	No	No	Yes	Yes
getmodinfo	No	No	No	No	No	No	Yes	Yes
getniccfg	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
getpbinfo	No	No	No	No	No	No	Yes	Yes
getpminfo	No	No	No	No	No	No	Yes	Yes
getraclog	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
getractime	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
getredundancy mode	No	No	No	No	No	No	Yes	Yes
getsel	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
getsensorinfo	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
getslotname	No	No	No	No	No	No	Yes	Yes
getssninfo	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
getsvctag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
getsysinfo	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gettracelog	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
getversion	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
"help" and "help <subcommand>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
hwinventory	Yes	Yes	Yes	Yes	Yes	Yes	No	No
ifconfig	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
inlettemphistory	Yes	Yes	Yes	Yes	Yes	Yes	No	No
jobqueue	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
krbkeytabupload	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
lcllog	Yes	Yes	Yes	Yes	Yes	Yes	No	No
license	Yes	Yes	Yes	Yes	Yes	Yes	No	No
netstat	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
nicstatistics	Yes	Yes	Yes	Yes	Yes	Yes	No	No
ping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Subcommand	iDRAC on Blade Servers			iDRAC on Rack and Tower Servers			CMC	
	Telnet/SSH/ Serial	Local RACADM	Remote RACADM	Telnet/SSH/ Serial	Local RACADM	Remote RACADM	Telnet/SSH/ Serial	Remote RACADM
ping6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
racdump	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
racreset	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
racresetcfg	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
raid	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
remoteimage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rollback	Yes	Yes	Yes	Yes	Yes	Yes	No	No
serveraction	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
set	Yes	Yes	Yes	Yes	Yes	Yes	No	No
setarraycfg	No	No	No	No	No	No	Yes	Yes
setassettag	No	No	No	No	No	No	Yes	Yes
setchassisname	No	No	No	No	No	No	Yes	Yes
setflexaddr	No	No	No	No	No	No	Yes	Yes
setled	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setniccfg	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setractime	No	No	No	No	No	No	Yes	Yes
setslotname	No	No	No	No	No	No	Yes	Yes
setsysinfo	No	No	No	No	No	No	Yes	Yes
sshpkauth	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sslcertdownload	No	Yes	Yes	No	Yes	Yes	No	Yes
sslcertupload	No	Yes	Yes	No	Yes	Yes	No	Yes
sslcertview	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sslcertdelete	Yes	Yes	Yes	Yes	Yes	Yes	No	No
sslcsrgen	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sslkeyupload	No	Yes	Yes	No	Yes	Yes	No	No
sslresetcfg	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
swinventory	Yes	Yes	Yes	Yes	Yes	Yes	No	No
systemconfig	Yes	Yes	Yes	Yes	Yes	Yes	No	No
testemail	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
testfeature	No	No	No	No	No	No	Yes	Yes

Subcommand	iDRAC on Blade Servers			iDRAC on Rack and Tower Servers			CMC	
	Telnet/SSH/Serial	Local RACADM	Remote RACADM	Telnet/SSH/Serial	Local RACADM	Remote RACADM	Telnet/SSH/Serial	Remote RACADM
testtrap	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
testalert	Yes	Yes	Yes	Yes	Yes	Yes	No	No
tracert	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
tracert6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
update	Yes	Yes	Yes	Yes	Yes	Yes	No	No
usercontentupload	No	Yes	Yes	No	Yes	Yes	No	No
usercontentview	Yes	Yes	Yes	Yes	Yes	Yes	No	No
vflashsd	Yes	Yes	Yes	Yes	Yes	Yes	No	No
vflashpartition	Yes	Yes	Yes	Yes	Yes	Yes	No	No
vmdisconnect	Yes	Yes	Yes	Yes	Yes	Yes	No	No

Other Documents You May Need

In addition to this guide, you can access the following guides available on the Dell Support website at www.dell.com/esmanuals. To access the documents, click the appropriate product link.

- The *Integrated Dell Remote Access Controller 7 (iDRAC) Enterprise for Blade Servers User Guide* provides information about configuring and using an iDRAC for blade servers to remotely manage and monitor your system and its shared resources through a network.
- The *Integrated Dell Remote Access Controller 7 (iDRAC) User Guide* provides complete information about configuring and using an iDRAC for rack and tower servers to remotely manage and monitor your system and its shared resources through a network.
- The *Chassis Management Controller Online Help* provides information about using the CMC Web interface.
- The *Chassis System (CMC) Secure Digital (SD) Card Technical Specification* provides minimum BIOS and firmware version, installation and usage information.
- The *Dell OpenManage IT Assistant User's Guide* provides information about IT Assistant.
- Documentation specific to your third-party management console application.
- The *Dell OpenManage Server Administrator's User's Guide* provides information about installing and using Dell OpenManage Server Administrator.
- The *Dell Update Packages User's Guide* provides information about obtaining and using Dell Update Packages as part of your system update strategy.
- The *Glossary* provides information about the terms used in this document.


The following system documents are also available to provide more information about the system in which CMC is installed:

- The *Rack Installation Guide* and *Rack Installation Instructions* included with your rack solution describe how to install your system into a rack.
- The *Hardware Owner's Manual* provides information about system features and describes how to troubleshoot the system and install or replace system components.
- Documentation for any components you purchased separately provides information to configure and install the options.
- Release notes or readme files may be included to provide last-minute updates to the system or documentation or advanced technical reference material intended for experienced users or technicians.

- For more information about IOM network settings, see the *Dell PowerConnect M6220 Switch Important Information* document and the *Dell PowerConnect 6220 Series Port Aggregator White Paper*.

Updates are sometimes included with the system to describe changes to the system, software, and/or documentation. Always read the updates first because they often supersede information in other documents.


See the *Safety and Regulatory* information that is shipped with your system.

 **NOTE:** Warranty information may be included within this document or as a separate document.

Accessing Documents From Dell Support Site


To access the documents from Dell Support site:

1. Go to **dell.com/support/manuals**.
2. In the **Tell us about your Dell system** section, under **No**, select **Choose from a list of all Dell products** and click **Continue**.
3. In the **Select your product type** section, click **Software and Security**.
4. In the **Choose your Dell Software** section, click the required link from the following:
 - **Client System Management**
 - **Enterprise System Management**
 - **Remote Enterprise System Management**
 - **Serviceability Tools**
5. To view the document, click the required product version.

 **NOTE:** You can also directly access the documents using the following links:

- For Enterprise System Management documents — **dell.com/openmanagemanuals**
- For Remote Enterprise System Management documents — **dell.com/esmmanuals**
- For Serviceability Tools documents — **dell.com/serviceabilitytools**
- For Client System Management documents — **dell.com/OMConnectionsClient**
- For OpenManage Connections Enterprise systems management documents — **dell.com/OMConnectionsEnterpriseSystemsManagement**
- For OpenManage Connections Client systems management documents — **dell.com/OMConnectionsClient**

Contacting Dell

 **NOTE:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit **dell.com/support**
2. Select your support category.
3. Verify your country or region in the Choose a Country/Region drop-down menu at the top of page.
4. Select the appropriate service or support link based on your need.

RACADM Subcommand Details


This section provides detailed description of the RACADM subcommands including the syntax and valid entries.

Guidelines to Quote Strings Containing Special Characters When Using RACADM Commands

When using strings that contain special characters, use the following guidelines:

Strings containing the following special characters must be quoted using single quotation marks or double quotation marks:

- \$ (dollar sign)
- " (double quote)
- ' (single quote)
- ` (back quote)
- \ (backslash)
- ~ (tilde)
- ; (semicolon)
- | (vertical bar)
- ((left parentheses)
-) (right parentheses)
- & (ampersand)
- > (greater than)
- < (less than)
- # (pound)
- ASCII code 32 (space)

 **NOTE:** The — (dash) character cannot be the first character of the string, regardless of whether or not the string is quoted.

There are different escaping rules for using single quotation marks versus double quotation marks.

For using double quotation marks:


The following characters must be escaped by prepending a backslash:

- \$ (dollar sign)
- " (double quote)
- ` (back quote)
- \ (back slash)

For example, use the following for a string that contains the special characters, \$, ", ` and \

For using single quotation marks:

- No character escaping is necessary.
- A single quotation mark is not used even with a back slash escaped.

 **NOTE:** An empty string may be specified as either "" (using double quotation marks) or '' (using single quotation marks).

"?" and "?<subcommand>"

Description	Displays all the subcommands you can use with the RACADM command and a one-line description about each subcommand. <code>? followed by <subcommand></code> displays the syntax for the specified command. To use this subcommand, you must have the CMC Login User privilege. You can also use the <code>help</code> and <code>help <subcommand></code> commands to obtain the same information. This subcommand is applicable only for CMC.
Synopsis	<code>racadm ?</code> <code>racadm ? <subcommand></code>
Input	N/A
Output	N/A

Example for RACADM?

The following output example shows only part of the actual output for the `RACADM?` command. Descriptions shown in this example may vary slightly from the descriptions in your `RACADM` session.

```
racadm ?
help          -- list racadm subcommand description
help <subcommand> -- display usage summary for a subcommand
?            -- list racadm subcommand description
? <subcommand> -- display usage summary for a subcommand
arp          -- display the networking arp table
chassisaction -- execute chassis or switch power-up/down/cycle or KVM
powercycle
closeasn     -- close a session
clrraclog   -- clear the CMC log
clrssel     -- clear the System Event Log (SEL)
cmchangeover -- changes the redundant state of the CMC from active to
standby and vice versa
config      -- modify CMC configuration properties
connect     -- connect to switch or blade serial console
deploy     -- deploy blade or IOM by specifying required properties
feature     -- display features active on the chassis / feature
deactivation
featurecard -- feature card status and list the available features
fwupdate   -- update the firmware on a CMC, server, IOM inf, or KVM
getactiveerrors -- display CMC active errors
getassettag -- display asset tag
getchassisname -- get the chassisname
getconfig  -- display CMC configuration properties
getdcinfo  -- display general I/O module and DC configuration information
getfanreqinfo -- display fan request information for Servers and Switches
getflexaddr -- display Flexaddress enablement status for all slots and
fabrics.
getioinfo  -- display general IO information and stack information
```



```

getkvminfo      -- display the KVM module information
getled          -- display the LED settings on a module
getmacaddress  -- get MAC/WWN addresses
getmodinfo     -- get module configuration and status information
getniccfg      -- display network settings for modules
getpbinfo      -- get power budget status information
getpminfo      -- get power management status information
getraclog      -- display the CMC log
getractime     -- display the current CMC time
getredundancymode -- gets the redundancy mode of the CMC
getsel         -- display records from the System Event Log (SEL)
getsensorinfo  -- display system sensors
getslotname    -- gets the name of the slot in the chassis
getssninfo     -- display session information
getsvctag      -- display service tag information
getsysinfo     -- display general CMC and system information
gettracelog    -- display the CMC diagnostic trace log
getversion     -- display version information for modules
getarraycfg    -- display's storage array properties
ifconfig       -- display network interface information
krbkeytabupload -- upload an Kerberos Keytab to the CMC
netstat        -- display routing table and network statistics
ping           -- send ICMP echo packets on the network
ping6         -- send ICMP echo packets on the network
racdump        -- display CMC diagnostic information
racreset       -- perform a CMC or RAC reset operation
racresetcfg    -- restore the CMC configuration to factory defaults
remoteimage    -- connect, disconnect or deploy a media file on a remote
server
serveraction   -- perform system power management operations
setassettag    -- set the asset tag for the specified module
setchassisname -- sets the name of the chassis
setflexaddr    -- enable/disable the Flexaddress feature on a per fabric, per
slot basis.
settled        -- set state of the LEDs on a module
setniccfg      -- modify network configuration properties
setractime     -- set the time on the CMC
setslotname    -- sets the name of the slot in the chassis
setsysinfo     -- set the chassis name and chassis location
setarraycfg    -- configure's storage array properties
sshpkauth      -- manage PK Authentication keys and accounts
sslcertdownload -- download an SSL certificate from the CMC
sslcertupload  -- upload an SSL certificate to the CMC
sslcertview    -- display a CA/server certificate in the CMC
sslcsrgen      -- generate a certificate CSR from the CMC
sslresetcfg    -- generate a new self-signed certificate
testemail      -- test CMC e-mail notifications
testfeature    -- test CMC feature x
testtrap       -- test CMC SNMP trap notifications
traceroute     -- determine the route of a packet
traceroute6    -- determine the route of a packet

```

Example for RACADM? <subcommand>

```
racadm ? getsysinfo
```

```
getsysinfo -- display general CMC and system information
```

Usage:

```
racadm getsysinfo [-d] [-c] [-A] [-4] [-6]
```

Valid Options:

```

-d : show CMC information
-c : show chassis information
-A : do not show headers or labels

```

-4 : show CMC IPv4 information
-6 : show CMC IPv6 information

help and help <subcommand>

Description Lists all the subcommands available for use with **RACADM** and provides a short description about each subcommand. You may also type a subcommand, group, object or Fully Qualified Descriptor (FQDD) name after help.

Synopsis

- `racadm help`
- `racadm help <subcommand>`
- `racadm help -g <groupname>`
- `racadm help -o <objectname>`
- `racadm help <FQDD Alias>.<Group>`
- `racadm help <FQDD Alias>.<Object>`
- `racadm help <FQDD Alias>.<Group>.<Object>`

Input None

Output

- The `help` command displays a complete list of subcommands.
- The `racadm help <subcommand>` command displays information for the specified subcommand only.
- The `racadm help -g <groupname>` command displays information for the specified group.
- The `racadm help -o <objectname>` command displays information for the specified object.
- The `racadm help <FQDD Alias> <Group>` command displays information for the specified group.
- The `racadm help <FQDD Alias> <Object>` command displays information for the specified object.
- The `racadm help <FQDD Alias> <Group> <Object>` command displays information for the specified object.

Example

```
racadm help idrac.lcd  
racadm help system.power  
racadm help system.power.supply
```

arp

Description Displays the contents of the Address Resolution Protocol (ARP) table. ARP table entries cannot be added or deleted.

To use this subcommand for CMC, you must have the Administrator privilege and for iDRAC, you must have Execute Diagnostic Commands.

Synopsis `racadm arp`

Input None

Example None

Output

IP Address	HW Type	Flags	HW Address	Mask	Device
192.168.1.1	0x1	0x2	00:00:0C: 07:AC:0F	*	eth0

autoupdatescheduler

Description You can automatically update the platform of the devices on the server. This subcommand is applicable only for iDRAC.

To run this subcommand, you must have the Server Control privilege.



NOTE:

- The `autoupdatescheduler` subcommand can be enabled or disabled.
- Lifecycle Controller and CSIOR may not be enabled to run this subcommand.
- The `autoupdatescheduler` can be enabled or disabled. For more information, see [LifecycleController.LCAttributes.autoupdate \(Read or Write\)](#)
- The minimum Lifecycle Controller version required is Lifecycle Controller2 1.3.
- When a job is already scheduled and the `clear` command is ran, the scheduling parameters are cleared.
- If the network share is not accessible or the catalog file is missing when the job is scheduled, then the job cannot be successfully run.

Synopsis

- To create the AutoUpdateScheduler, run the command.

```
racadm autoupdatescheduler create -u <user> -p <password> -l <location> -f <filename> -time <time> -dom <DayOfMonth> -wom <WeekOfMonth> -dow <DayOfWeek> -rp <repeat> -a <applyreboot> [-ph <proxyHost> -pu <proxyUser> -pp <proxyPassword> -po <proxyPort> -pt <proxyType>
```
- To view AutoUpdateScheduler parameter, run the command.

```
racadm autoupdatescheduler view
```
- To clear and display AutoUpdateScheduler parameter, run the command.

```
racadm autoupdatescheduler clear
```



NOTE: After the parameters are cleared, the AutoUpdateScheduler is disabled. To schedule the update again, enable the AutoUpdateScheduler.

Input

Valid options:

- `-u` — Specifies the user name of the remote share that stores the catalog file.



NOTE:

For CIFS, enter the domain name as domain or username.

- `-p` — Specifies the password of the remote share that stores the catalog file.
- `-l` — Specifies the network share (NFS or CIFS) location of the catalog file.
- `-f` — Specifies the catalog location and the filename. If the filename is not specified, then the default file used is **catalog.xml**.



NOTE: If the file is in a subfolder within the share location, then enter the network share location in the `-l` option and enter the subfolder location and the filename in the `-f` option.

- `-ph` — Specifies the FTP proxy host name.
- `-pu` — Specifies the FTP proxy user name.
-

- `-pp` — Specifies the FTP proxy password.
- `-po` — Specifies the FTP proxy port.
- `-pt` — Specifies the FTP proxy type.
- `-time` — Specifies the time to schedule an autoupdate in the HH:MM format. This option must be specified.
- `-dom` — Specifies the day of month to schedule an autoupdate. Valid values are 1–28, L (Last day) or '*' (default — any day).
- `-wom` — Specifies the week of month to schedule an autoupdate. Valid values are 1–4, L (Last week) or '*' (default — any week).
- `-dow` — Specifies the day of week to schedule an autoupdate. Valid values are sun, mon, tue, wed, thu, fri, sat, or '*' (default — any day).



NOTE: The `-dom`, `-wom`, or `-dow` option must be included in the command for the autoupdate schedule. The * value for the options must be included within ' ' (single quotation mark).

- If the `-dom` option is specified, then the `-wom` and `-dow` options are not required.
- If the `-wom` option is specified, then the `-dow` is required and `-dom` is not required.
- If the `-dom` option is non- '*', then the schedule repeats by month.
- If the `-wom` option is non- '*', then the schedule repeats by month.
- If the `-dom` and `-wom` options are '*' and the `-dow` option is non- '*', then the schedule repeats by week.
- If all the three `-dom`, `-wom` and `-dow` options are '*', then the schedule repeats by day.
- `-rp` — Specifies the repeat parameter. This parameter must be specified.
 - If the `-dom` option is specified, then the valid values for `-rp` are 1–12.
 - If the `-wom` option is specified, then the valid values for `-rp` are 1–52.
 - If the `-dow` option is specified, then the valid values for `-rp` are 1–366.
- `-a` — Applies reboot (1 — Yes, 0 — No). This option must be specified.

Example

Usage examples:

- To configure autoupdate feature settings:
 - For CIFS, run the command:


```
racadm autoupdatescheduler create -u Americas/admin -p pwd -l //1.2.3.4/share -f cat.xml -time 14:30 -wom 1 -dow sun -rp 1 -a 1
```
 - For NFS, run the command:


```
racadm autoupdatescheduler create -u nfsadmin -p nfspwd -l 1.2.3.4:/share -f cat.xml -time 14:30 -dom 1 -rp 5 -a 1
```
 - For FTP, run the command:


```
racadm autoupdatescheduler create -u ftpuser -p ftppwd -l ftp.test.com -f cat.xml.gz -ph 10.20.30.40 -pu padmin -pp ppwd -po 8080 -pt http -time 14:30 -dom 1 -rp 5 -a 1
```
 - To view AutoUpdateScheduler parameter:


```
racadm autoupdatescheduler view
hostname      = 10.94.194.31
sharename     = nfs
sharetype     = nfs
catalogname   = Catlog.xml
```

```
time          = 14:30dayofmonth =1
repeat       = 5
applyreboot  = 1
idracuser    = racuser
```

- To clear and display AutoUpdateScheduler parameter:

```
racadm autoupdatescheduler clear
Successfully cleared the Automatic Update (autoupdate)
feature settings
```

cd

Description To change the current working object, use this command.

Synopsis racadm> cd <object>

Input racadm> cd <object>

Output To run object-related use the get or set commands.

Example

- **Example 1:** To run all system-related get or set commands:
 - Input:[root@idrac-<username>]racadm> cd system
 - Output:
[root@idrac-<username>]system>
- **Example 2:** To run all the power-related get or set commands:
 - Input: [root@idrac-<username>]system> cd power
 - Output:
[root@idrac-<username>]power>

cd..

Description To go back to the previous object, use this command.

Synopsis racadm> cd..


Input racadm> cd..

Output To traverse back to the previous object, use the command.


Example

- **Example 1:** To traverse back from power to system object:
 - Input:[root@idrac-<username>]power> cd..
 - Output:
[root@idrac-<username>]system>
- **Example 2:** To traverse back from system object to the prompt:
 - Input: [root@idrac-<username>]system> cd..
 - Output:
[root@idrac-<username>]racadm>


chassisaction

Description	Executes a power action on the chassis, iKVM or a server. This subcommand is applicable only for CMC. To use this subcommand, you must have the Chassis Control Administrator privilege.
Synopsis	<code>racadm chassisaction [-m <module>]<action></code>
Input	<ul style="list-style-type: none">• <code>-m <module></code> — Module on which you want to carry out the action. Values are:<ul style="list-style-type: none">• <code>-chassis</code> — is the default value if <code>-m</code> is not specified.• <code>-switch-n</code> where <code>n=1-6</code>• <code>-kvm</code>• <code><action></code> — Action that you want to execute on the specified module. Values are:<ul style="list-style-type: none">• <code>-powerdown</code> — (Chassis only) Powers down the chassis.• <code>-powerup</code> — (Chassis only) Powers up the chassis.• <code>-powercycle</code> — Power cycles the module. <p> NOTE: If a server takes longer duration to turn off gracefully after the chassis power cycle is initiated, CMC stops functioning indicating that graceful shutdown of the server was unsuccessful. In this case, you must ungracefully turn off the system or try to gracefully turn off the system again.</p> <ul style="list-style-type: none">• <code>-nongraceshutdown</code> — (Chassis only) Turns off the chassis ungracefully.• <code>-reset</code> — Performs a hard reset of the module. <p>When <code><module> = kvm or switch</code>, <code><action></code> must be <code>powercycle</code> or <code>reset</code>.</p>
Output	None
Example	Perform a reset of switch-3: <code>racadm chassisaction -m switch-3 reset</code> Module power operation successful.

clearasrscreen

Description	Clears the last crash (ASR) screen that is in memory. For more information, see "Enabling Last Crash Screen" section in the <i>iDRAC7 User's Guide</i> . This subcommand is applicable only for iDRAC.
	 NOTE: To run this subcommand, you must have the Clear Logs permission.
Synopsis	<code>racadm clearasrscreen</code>
Input	None
Output	Clears the last crash screen buffer.
Example	<code>racadm clearasrscreen</code>

clearpending

Description	Deletes the pending values of all the attributes (objects) in the device (NIC, BIOS, and Storage). This command is applicable only for iDRAC.  NOTE: If any attribute is not modified or a job is already scheduled for the same device, then the pending state is not cleared or deleted.
Synopsis	<code>racadm clearpending <FQDD></code>
Input	<FQDD> values are: <ul style="list-style-type: none">• BIOS.Setup.1-1• NIC.Integrated.1-1• RAID.Integrated.1-1
Output	A message is displayed indicating that the pending state is cleared or deleted.
Example	<code>racadm clearpending NIC.Integrated.1-1</code>

closessn

Description	Closes a communication session on the device. Use getssninfo to view a list of sessions that can be closed using this command. To run this subcommand, you must have the Administrator permission
Synopsis	<ul style="list-style-type: none">• <code>racadm closessn -i <session id></code>• <code>racadm closessn -a</code>• <code>racadm closessn -u <username></code>
Input	<ul style="list-style-type: none">• <code>-i <session id></code> — The session ID of the session to close, which can be retrieved using RACADM getssninfo subcommand. Session executing this command cannot be closed.• <code>-a</code> — Closes all sessions.• <code>-u <user name></code> — Close all sessions for a particular user name. <code>-u</code> option can be used in local RACADM only if the username contains up to 16 characters. If the user name contains more than 16 characters, use one of the following options to close a session:<ul style="list-style-type: none">• For Local RACADM use the <code>-i</code> option.• For Remote RACADM use either the <code>-u</code> option or the <code>-i</code> option.
Output	None
Example	<ul style="list-style-type: none">• Closes the session 1234. <code>racadm closessn -i 1234</code>• Closes all the sessions for root user. <code>racadm closessn -u root</code>• Closes all the sessions. <code>racadm closessn -a</code>


clrraclog

Description	Deletes the CMC log. This subcommand is applicable only for CMC.
Synopsis	<code>racadm clrraclog</code>
Input	<code>racadm clrraclog</code>


clrsl

Description	Removes all the existing records from the System Event Log (SEL). To use this subcommand, you must have Clear Logs permission.
Synopsis	<code>racadm clrsl</code>

cmcchangeover

Description	Changes the state of the CMC from active to standby, or from standby to active, in a redundant CMC configuration. This subcommand is useful for remote debugging or testing purposes. To use this subcommand, you must have the Administrator privilege.  NOTE: This command is applicable only in redundant CMC environments. For more information, see the "Understanding the Redundant CMC Environment" section of the <i>Dell Chassis System User Guide</i> .
Synopsis	<code>racadm cmcchangeover</code>
Input	None
Output	CMC failover initiated successfully.
Example	<code>racadm cmcchangeover</code>

config

Description	Allows you to set iDRAC configuration parameters individually or to batch them as part of a configuration file and then modify CMC configuration properties. If the data is different, the iDRAC object is written with a new value.
Synopsis	<code>racadm config [-c -p] -f <filename> [--continue]</code> <code>racadm config -g <groupName> -o <objectName> [-i<index>] <Value></code>  NOTE: The configuration file retrieved using remote RACADM and local RACADM are not interoperable. For the <code>config -f <file name></code> command, use the configuration file retrieved from the same interface. For example, for Local RACADM <code>config -f <file name></code> , use the file generated from the local RACADM command <code>getconfig -f <file name></code> .

For CMC only:

```
racadm config -g <group> -o <object> <value> [-m <module>]
```

Input



NOTE: The `-f` and `-p` options are not supported for the Serial/Telnet/SSH console.

- `-f` — The `-f <file name>` option causes **config** to read the contents of the file specified by `<file name>` and configure iDRAC. The file must contain data in the format specified in the section Parsing Rules in the *iDRAC User's Guide* available at www.dell.com/esmmanuals.
- `-continue` — This option is used with `-f` option only. If configuration through file is unsuccessful for a group, then configuration continues with the next group in the file. If this option is not used, then configuration stops when it is unsuccessful for a particular group. After the unsuccessful group, the rest of the groups are not configured.
- `-p` — This option must be used with the `-f` option. It directs **config** to delete the password entries contained in the config file `-f <file name>` after the configuration is complete. To apply the password, you must remove the preceding Read-Only marker '#' in the config file before executing the `config -f` command.
- `-g` — The `-g <groupName>`, or **group** option, must be used with the `-o` option. The `<groupName>` specifies the group containing the object that is to be set.
- `-o` — The `-o <objectName> <Value>`, or **object** option, must be used with the `-g` option. This option specifies the object name that is written with the string `<value>`.
- `-i` — The `-i <index>`, or **index** option, is valid only for indexed groups and can be used to specify a unique group. The `<index>` is a decimal integer from 1 through n, where n can vary from 1 to maximum number of indexes a particular group supports. If `-i <index>` is not specified, a value of 1 is assumed for groups, which are tables that have multiple entries. The index is specified by the index value, not a named value.
- `-c` — The `-c` or **check** option, is used with the **config** subcommand and allows the user to parse the **cfg** file to locate syntax errors. If errors are found, the line number and a short description of what is incorrect are displayed. Write permission does not apply to iDRAC. This option is a check only.
- For CMC only:
 - `-m` — Module must be one of the following values:
 - `server-n` — where n = 1–16
 - `server-nx` — where n = 1–8; x = a to d (lower case)



NOTE: Only available for **cfgRemoteHosts**, **cfgRacTuning**, **cfgSerial**, **cfgSessionManagement**, **cfgLanNetworking** or **cfgIPV6LanNetworking**.

Output

This subcommand generates error output for any of the following reasons:

- Invalid syntax, group name, object name, index or other invalid database members.
- If the RACADM command-line interface is unsuccessful.

Examples

- To set the **cfgNicIpAddress** configuration parameter (object) to the value 10.35.10.110. This IP address object is contained in the group **cfgLanNetworking**.

```
racadm config -g cfgLanNetworking -o cfgNicIpAddress 10.35.10.110
```
- To configure or reconfigure iDRAC. The **myrac.cfg** file may be created from the **getconfig** command. This file may also be edited manually as long as the parsing rules are followed.

```
racadm config -f myrac.cfg
```




NOTE: The **myrac.cfg** file does not contain passwords. To include passwords in the file, you must enter them manually. If you want to remove password information from the **myrac.cfg** file during configuration, use the `-p` option.


For CMC only:

- To configure the single property of a group:
`racadm config -g cfgSerial -o cfgSerialBaudRate`
- To modify a user password:
`racadm config -g cfgUserAdmin -o cfgUserAdminPassword -i 3 newpassword`
- To configure the single property of a group for a particular server:
`racadm config -g cfgSessionManagement -o cfgSsnMgtWebServerTimeout newvalue -m server-n`
- To configure the remote Syslog property for a particular server:
`racadm config -g cfgRemoteHosts -o cfgRhostsSyslogEnable 1 -m server-n`
- To configure the remote Syslog property for all servers:
`racadm config -g cfgRemoteHosts -o cfgRhostsSyslogEnable 1 -m server-all`
- Configures the Enhanced Cooling Mode property for fans.
`racadm config -g cfgThermal -o cfgThermalEnhancedCoolingMode 1`

connect

Description	Connects to the switch or server serial console. This subcommand is applicable only for CMC.
Synopsis	<ul style="list-style-type: none">• <code>racadm connect [-b] <server-n></code>• <code>racadm connect [-b] <switch-n></code>
Input	<code>-b</code> Connects to the switch or console using the binary mode. <code>-b</code> is an optional; a server or a switch must be present.  NOTE: If you use the <code>-b</code> option, reset the CMC to end the connect operation. <ul style="list-style-type: none">• <code>server -nx</code> — where <code>n=1-8</code>; <code>x = a,b,c,d</code>• <code>switch -n</code> — <code>switch-n</code> where <code>n = <a1 a2 b1 b2 c1 c2></code>


coredump

Description	Displays detailed information related to any recent critical issues that have occurred with iDRAC. The coredump information can be used to diagnose these critical issues. If available, the coredump information is persistent across iDRAC power cycles and remains available until either of the following conditions occur: The coredump information is deleted with the coredumpdelete subcommand. Another critical condition occurs on iDRAC. In this case, the coredump information is relative to the last critical error that occurred. This subcommand is applicable only for iDRAC.  NOTE: To use this subcommand, you must have the Execute Debug Commands permission.
--------------------	--

For more information about clearing the **coredump**, see the **coredumpdelete** subcommand.


Synopsis	<code>racadm coredump</code>
Input	None
Output	None
Example	<ul style="list-style-type: none">• <code>racadm coredump</code> No Core Dump Data is available.• <code>racadm coredump</code> Feb 19 15:51:40 (none) last message repeated 5 times<ul style="list-style-type: none">– Feb 19 15:52:41 (none) last message repeated 4 times– Feb 19 15:54:12 (none) last message repeated 4 times– Feb 19 15:56:11 (none) last message repeated 2 times– Feb 22 11:46:11 (none) kernel:

coredumpdelete

Description	<p>Deletes any currently resident coredump data stored in the RAC. This subcommand is applicable only for iDRAC. To use this subcommand, you must have Clear Logs or Execute Debug Commands permission.</p> <p> NOTE: If a coredumpdelete command is issued and a coredump is not currently stored in the RAC, the command displays a success message. This behavior is expected. See the coredump subcommand for more information about viewing a coredump.</p>
--------------------	--

Synopsis	<code>racadm coredumpdelete</code>
Input	None
Output	Coredump is deleted.
Example	<code>racadm coredumpdelete</code> <code>Coredump request completed successfully</code>

deploy

Description	<p>Deploys server or IOM by specifying the required properties. This subcommand is applicable only for CMC. To use this subcommand, you must have the Server Administrator privilege.</p> <p> NOTE: Use setniccfg to configure static IP address, subnet mask, and gateway, and DHCP, speed and duplex properties.</p>
Synopsis	<pre>racadm deploy -m server-<n> -u root -p <password> -s <ipaddress> <subnet> <gateway> -b <device> -o no yes racadm deploy -m server -<n> -u root -p <password>-s -6 <ipv6Address> <prefixlen> <gateway> -b <device> -o no yes</pre>

where <prefixlen> must be a number between 0 and 128.

```
racadm deploy-m server -<n> -u root -p <password> -d [-6]
racadm deploy -m switch-<n> -u root -p <password>
racadm deploy -m switch-<n> -v SNMPv2 <snmpCommunityString> ro
racadm deploy -a [server/switch] -u root -p <password>
racadm deploy -q [-n <numofblades>]
```

Input

- **-b <device>** — Specifies the first boot device must be used with **-o**. Use with **-m <module>** to specify for an individual server, or with an **-a** for all servers.
Legal values are: None, PXE, HDD, CD-DVD, vFDD, vCD-DVD, iSCSI, SD, FDD, RFS.
- **-o no/yes** — Indicates if the server must start from the device once. Use this option with **-b** option.
Use with **-m <module>** to specify for an individual server, or with **-a** for all servers.
- **-a** — server/switch. Applies options to all modules present in the chassis of the given module type. Specify the value as server or switch. Default value is `server`. Switches must support Ethernet Management.
- **-u <user name>** — Indicates that the `<password>` is supplied for the root user on the server or switch. Root is a constant parameter, the only value that is valid with the **-u** option.
- **-m <module>** — Specifies the server or switch you want to configure.
Legal values:
 - server-n, where n=1-16
 - server-nx, where n=1-8; x = a,b,c,d (lower case)
 - switch-n, where n=1-6
- **-p <password>** — Specifies the password for the root user on the server or switch. For switches, valid passwords are 6-32 ASCII characters in length, ranging in value 32-125 (decimal). For servers, valid passwords are 1-20 ASCII characters in length, ranging in value 32-126 (decimal).
- **-s <ipaddress/subnet/gateway>** — Sets the IP address, subnet mask and gateway for the specified server.
 - ipaddress — A string representing a valid IP address. For example, 192.168.0.20.
 - subnet — A string representing a valid subnet mask. For example, 255.255.255.0.
 - gateway — A string representing a valid gateway address. For example, 192.168.0.1.
- **-d** — Enables DHCP for the specified server.
The **-s** and **-d** options cannot be used together in the same command.
- **-6** — Enables IPv6 auto configuration (when used with **-d**). Sets static IPv6 addresses (when used with **-s**).
- **-v SNMPv2 <snmpCommunityString> ro** — Specifies the SNMP community string for switches. Valid community strings are 1-20 characters in length, with valid ASCII characters in the range [32-125] (decimal). Protocol version set to SNMPv2. Permission on community string is read-only.
- **-q** — Displays or modifies the quick deploy parameters.
- **-n <numofblades>** — Specifies the number of reserved IP addresses for quick deploy. The allowed values are: 8, 16, and 32.



NOTE: The **-q** option must be specified with the **-n** option.

Output

None

Example

- Set root password, configure static IPV4 address, set first boot device to HDD, and enable boot once for server-1.

```
racadm deploy -m server-1 -s 192.168.0.20 255.255.255.0 192.168.0.1 HDD -o yes
```
- Set root password, configure static IPV6 address, set first boot device to HDD, and enable boot once for server-1.

```
racadm deploy -m server-1 -s 192.168.0.11 255.255.255.0 192.168.0.1 HDD -o yes
```
- Set root password and enable DHCP for server-3.

```
racadm deploy -m server-3 -u root -p <passpwd> -d
```
- Set user name and password for switch-2.

```
racadm deploy -m switch-2 -u <username> -p <password>
```
- Set SNMP community string for switch-2.

```
racadm deploy -m switch-2 -v SNMPv2 DemoCommunityString ro
```
- Set root password to **Calvin** for all servers.

```
racadm deploy -a -u root -p calvin
```
- Set user name and password for all switches.

```
racadm deploy -a switch -u <username> -p <password>
```
- View the quick deploy parameters.

```
racadm deploy -q
```
- Modify the number of reserved IP addresses for quick deploy.

```
racadm deploy -q -n 8
```

diagnostics

Description

Collects and exports remote diagnostics report from iDRAC.

The results of the latest successfully run remote diagnostics are available and retrievable remotely through an NFS or a CIFS share.

This subcommand is applicable only for iDRAC.

Synopsis

To run a remote diagnostic report:

```
racadm diagnostics run -m <mode> -r <reboot type> -s <start time> -e <expiration time>
```

To export a remote diagnostic report:

```
racadm diagnostics export -f <file name> -l <NFS or CIFS share location> -u <username> -p <password>
```

Input

- `-m <mode>` — Specifies the type of diagnostic mode. The types are:
 - `Collect and export remote diagnostics report from the iDRAC.`
The results of the latest successfully executed remote Diagnostics will be available and retrievable remotely through an NFS or a CIFS share.
 - `0(Express)` — The express mode executes a subset of diagnostic tests.
 - `1(Extended)` — The extended mode executes all available diagnostics tests.
 - `2(Both)` — Runs express and extended tests serially in sequence.
- `-f <filename>` — Specifies the name of the configuration file.
- `-l` — Specifies the location of the network share (NFS or CIFS).
- `-u <username>` — Specifies the user name of the remote share to import the file.

- `-p <password>` — Specifies the password of the remote share to import the file.
- `-r <reboot type>` — Specifies the reboot type. The type can be one of the following:
 - `pwrCycle` — Power cycle
 - `Graceful` — Graceful reboot without forced shutdown
 - `Forced` — Graceful reboot with forced shutdown
- `-s <start time>` — Specifies the start time for the scheduled job in `yyyymmddhhmmss` format. The default value `TIME_NOW` starts the job immediately.
- `-e <expiration time>` — Specifies the expiry time for the scheduled job in `yyyymmddhhmmss` format. The default value `TIME_NA` does not apply the waiting time.



NOTE: For the diagnostic report run operation, the time difference between the `-s` and `-e` options must be more than five minutes.

Output Provides the Job ID for the diagnostic operation.

Examples

- To initiate a remote diagnostic operation:

```
racadm diagnostics run -m 1 -r forced -s 20121215101010 -e TIME_NA
```
- To export a remote diagnostics report to CIFS share:

```
racadm diagnostics export -f diagnostics -l //169.254.23.44/cifs -u administrator -p password123
```
- To export a remote diagnostics report to NFS share:

```
racadm diagnostics export -f diagnostics -l 169.254.23.44:/nfs -u administrator -p password123
```

eventfilters

Description Gets, sets, tests the alerts for message ID, and displays the list of event filter settings. To use this subcommand with the **get** and **test** option, you must have the Administrator privilege. This subcommand is applicable only for iDRAC.

Synopsis

```
racadm eventfilters <eventfilters command type>
racadm eventfilters get -c <alert descriptor>
racadm eventfilters set -c <alert descriptor> -a <action> -n <notifications>
racadm eventfilters set -c <alert descriptor> -a <action> -r <recurrence>
racadm eventfilters test -i <Message ID to test>
```



NOTE: The general format of an alert descriptor:
`idrac.alert.category.[subcategory].[severity]`

where, category is mandatory, but subcategory and severity are optional. A severity cannot precede a subcategory.

Valid Category values are:

- All
- System
- Storage

- Updates
- Audit
- Config
- Worknotes

Valid Severity values are:

- Critical
- Warning
- Info

Valid examples of alert descriptors are:

- `idrac.alert.all`
- `idrac.alert.audit`
- `idrac.alert.audit.lic`
- `idrac.alert.audit.warning`
- `idrac.alert.audit.lic.critical`

Input

- **get** — Displays the list of eventfilter settings.
- **set** — Configures the actions and notifications for a given eventfilter configuration.
- **-i** — Message ID for which the simulation is needed.
- **-c** — Alert descriptor of the specific event filter.
- **-a** — The action that must be invoked when the event occurs. Valid values are `none`, `powercycle`, `power off`, or `systemreset`.
- **-n** — The notification is sent when the event occurs. Valid values are `all`, `snmp`, `ipmi`, `lcd`, `email`, `remotesyslog` or `none`. You can append multiple notifications separating by a comma. You cannot enter the values `all` or `none` with other notifications.
- **-r** — Event generation interval. This option is applicable only to the temperature statistics subcategory — `tmps`. You can use this option as a stand-alone or with `-n` and `-a`.



NOTE: If both **event generation interval** and **notifications** are configured and there is an error while configuring the notifications, the event generation interval is not set. The valid values are 0–365. 0 disables the event generation.

Example

- Display all available event filter configurations:
`racadm eventfilters get -c idrac.alert.all`
- Display eventfilter configurations for a specific category. For example, audit:
`racadm eventfilters get -c idrac.alert.audit`
- Display eventfilter configurations for a specific subcategory. For example, licensing under the audit category:
`racadm eventfilters get -c idrac.alert.audit.lic`
- Display eventfilter configurations for a specific severity. For example, warning under the audit category:
`racadm eventfilters get -c idrac.alert.audit.warning`
- Display eventfilter configurations for a specific severity and subcategory. For example, a severity of warning in the subcategory licensing under audit category:
`racadm eventfilters get -c idrac.alert.audit.lic.warning`
- Clear all available alert settings:
`racadm eventfilters set -c idrac.alert.all -a none -n none`

- Configure using severity as a parameter. For example, all informational events in storage category are assigned power off as action, and email and snmp as notifications:

```
racadm eventfilters set -c idrac.alert.storage.info -a poweroff -n email,snmp
```
- Configure using subcategory as a parameter. For example, all configurations under the licensing subcategory in the audit category are assigned power off as action and all notifications are enabled:

```
racadm eventfilters set -c idrac.alert.audit.lic -a poweroff -n all
```
- Configure using subcategory and severity as parameters. For example, all information events under the licensing subcategory in the audit category are assigned power off as action and all notifications are disabled:

```
racadm eventfilters set -c idrac.alert.audit.lic.info -a poweroff -n none
```
- Configure the event generation interval for temperature statistics:

```
racadm eventfilters set -c idrac.alert.system.tmps.warning -r 10
```
- Configure the event generation interval and notifications for temperature statistics:


```
racadm eventfilters set -c idrac.alert.system.tmps -r 5 -a none -n snmp
```
- Send a test alert for the fan event:


```
racadm eventfilters test -i FAN0001
```

fcstatistics

Description	Displays a list of FCs (FQDDs), managed server for which statistics is available. This subcommand is applicable only for iDRAC.
Synopsis	<code>racadm fcstatistics <FC fqdd></code>
Input	<code><FC fqdd></code> — Specify the FQDD of the target FC device.
Example	<code>racadm fcstatistics <FC fqdd></code>

feature

Description	Displays all active chassis features. The information displayed includes feature name, date activated and the serial number of the SD card used to activate the feature. Dell Feature Cards may contain more than a feature. After any feature included on a Dell Feature Card is activated on a chassis, any other features that may be included on that Dell Feature Card cannot be activated on a different chassis. This subcommand is applicable only for CMC.
	NOTE: To use this subcommand to deactivate FlexAddress, you must have the Chassis Configuration Administrator privilege. A user with login privileges can view status only.


 **NOTE:** To deactivate FlexAddress features, the chassis must be turned off.

Synopsis

```
racadm feature -s
racadm feature -d -c <featurename>
racadm feature -a -c ExtendedStorage
racadm feature -1 -c ExtendedStorage
racadm feature -2 -c ExtendedStorage
racadm feature -r -c ExtendedStorage
```

Input

```
-s
-Displays the status of active features.
-d
-Deactivates feature specified in -c option.
```

 **NOTE:** When the FlexAddress and FlexAddressPlus feature are active, deactivating one of them results in deactivation of the other feature also.

```
-a
-Activates ExtendedStorage feature.
-1
-Configures ExtendedStorage feature for standalone use.
-2
-Configures ExtendedStorage feature for redundant use.
-r
-Reformats damaged/unformatted ExtendedStorage media.
```

 **CAUTION:** Using the -r switch deactivates the Extended Storage feature, if active; reformats the SD card in the active CMC card slot; and may Restart the active CMC.

```
-c
-<featurename> must be one of the following:
flexaddress (with -d)
flexaddressplus (with -d) ExtendedStorage (with -a,-d,-1,-2, or -r)
```

featurecard

Description

Verifies proper SD card installation and displays the SD card status.
This subcommand is applicable only for CMC.
To use this subcommand, you must have the Chassis Configuration Administrator privilege.

Synopsis

```
racadm featurecard -s
```

Input

```
-s — Lists active SD card features and SD card status.
```

Output

- No feature card inserted— **Action:** To verify that the SD card was properly inserted, check the CMC. In a redundant CMC configuration, make sure the CMC with the SD feature card installed is the active CMC and not the standby CMC.
- The feature card inserted is valid and contains the following feature(s) FlexAddress: The feature card is bound to this chassis— **Action:** No action required.
- No features active on the chassis— **Action:** Install the SD card into the CMC.
- The feature card inserted is valid and contains the following feature(s) FlexAddress: The feature card is bound to another chassis, svctag = ABC1234, SD card SN = 01122334455
Action: Remove the SD card; locate and install the SD card for the current chassis.
- The feature card inserted is valid and contains the following feature(s) FlexAddress: The feature card is not bound to any chassis
Action: The feature card can be moved to another chassis, or can be reactivated on the current chassis. To reactivate on the current chassis, enter `racadm racreset` until the CMC module with the feature card installed becomes active.

Example

```
$ racadm featurecard -s
```

```
The feature card inserted is valid, serial number  
TEST0123456789012345678
```

```
The feature card contains the following feature(s):  
FlexAddress: The feature is bound to this chassis  
FlexAddressPlus: The feature is bound to this chassis  
ExtendedStorage: The feature is bound to this chassis
```

frontpanelerror

Description

Hides or shows the live-feed of the errors currently being displayed on the LCD screen. This subcommand is applicable only for iDRAC. For error acknowledge use `hide`, and error assert use `show`.

Synopsis

```
racadm frontpanelerror show  
racadm frontpanelerror hide
```

Input

- `show`— to view the errors currently being displayed on the LCD screen.
- `hide`— to hide the errors currently being displayed on the LCD screen.

fwupdate

Description

Allows you to update the firmware on the iKVM, active CMC, standby CMC, server iDRACs or an IOM infrastructure device. You can:


- Check the firmware update process status.
- Update iDRAC or CMC firmware from FTP or TFTP server by providing an IP address and optional path.
- Update iDRAC or CMC firmware from the local file system using Local and Remote RACADM.
- Roll back to the standby firmware.
- If CMC firmware version is 2.0 or later and iDRAC firmware version is 1.4, then this subcommand performs updates to the iDRAC firmware, when the existing firmware is corrupted. There can

only be a single update operation in progress at any time. In addition, the **fwupdate** subcommand may only update one or more devices of a single kind at a time.

To use this subcommand for CMC, you must have the Chassis Configuration Administrator privilege and for iDRAC you must have Configure iDRAC permission.

 **NOTE:**

- Running the **fwupdate** subcommand to update the firmware on the active CMC resets itself and all the network connections are dropped. During update of all other modules, including the standby CMC, the active CMC continues to run normally without resetting.
- In a chassis supported by DC PSUs, an error message is displayed if you attempt to update the firmware with a version without DC PSU support.

 **NOTE:** The **fwupdate** subcommand generates an error when used on the extension slot of a multi-slot server.

Synopsis

For iDRAC:

```
racadm fwupdate -s
```

```
racadm fwupdate -g -u -a <TFTP_Server_IP_Address>  
[-d <path> [--clearcfg]
```

```
racadm -r <iDRAC7 IP_Address> -u <username> -p <password> fwupdate  
-f <ftpserver ip> <ftpserver username> <ftpserver password> -d  
<path> where path is the location on the ftp server where  
firming.d7 is stored.
```

```
racadm fwupdate -r
```

```
racadm fwupdate -p -u [-d <path>]
```

For CMC:

For local RACADM:

```
racadm fwupdate -g -u -a <tftp server ip address or  
FQDN> -d <path> [-m <module>]
```

```
racadm fwupdate -f <ftp server ip address or FQDN>  
<username> <password> -d <path> [-m  
<module>]
```


```
racadm fwupdate -u -m iominf-<n>
```

```
racadm fwupdate -s [-m <module>]
```


```
racadm fwupdate -c [-m <module>]
```

For Remote RACADM:




```
racadm fwupdate -p -u -d <firmware image>
```

 **NOTE:** iDRAC7 targets are not supported from CMC. To update iDRAC7 targets, use the CMC GUI.

When using FTP, if you provide the full path to the image file on the CLI, then the CMC uses that path to locate that file on the host. If full path is not provided and the host system is running Linux or another variant of UNIX, then CMC searches the home directory of the specified user for the file. If the host system is running Windows, then a default folder, such as C:\ftproot is searched.


 **NOTE:** When attempting to run firmware update task using **racadm fwupdate** command, if the firmware image path length is greater than 256 characters. Remote RACADM client exits with the error message "ERROR: Specified path is too long".

Input


- `-u` — For iDRAC: The update option performs a checksum of the firmware update file and starts the actual update process. This option may be used along with the `-g` or `-p` options. At the end of the update, iDRAC performs a soft reset.
For CMC: Performs the firmware update operation.
 - `-s` — For iDRAC: This option returns the status of the update process. Use this option by itself. Lists active SD card features and SD card status.
For CMC: Displays the status of the firmware update.
-  **NOTE:** Use `-m` to display the status of the module update. Omit `-m` to display the status of the active CMC update.
-  **NOTE:** The value `all` is used only to obtain the status of all targets to update.
- `-g` — For iDRAC: The get option instructs the firmware to get the firmware update file from the TFTP server. Specify the `-a-u`, and `-d` options. In the absence of the `-a` option, the defaults are read from properties contained in the group `cfgRemoteHosts`, using properties `cfgRhostsFwUpdateIpAddr` and `cfgRhostsFwUpdatePath`.
For CMC: Downloads the firmware update using the TFTP server.
 - `-a` — The IP Address option specifies the TFTP server IP address, used with `-g` option.
For CMC: Specifies the TFTP server IP address or FQDN used for the firmware image (used with `-g`).
 - `-d` — For iDRAC: The `-d`, or directory option specifies the directory on the TFTP server or on iDRAC's host server, where the firmware update file resides.
For CMC: Specifies the source path where the firmware image resides.
Default: Designated TFTP default directory on that host for the file if `-g` option is absent. If `-g` is used, it defaults to a directory configured on the TFTP server.
 - `-p` — For iDRAC: The `-p`, or put, option is used to update the firmware file from the managed system to iDRAC. The `-u` option must be used with the `-p` option.
-  **NOTE:** This option is not applicable for CMC. The `-p` option is supported on local and remote RACADM and is not supported with the `serial/Telnet/ssh` console and on the Linux operating systems.
- `-r` — The rollback option is used to roll back to the standby firmware.
This option is not applicable for CMC.
 - `-p` — Stops the current firmware update of a module.
This option is applicable only for CMC.
 - `-m <module>` — Specifies the module or device to be updated. `<module>` is one of the following values:
 - `-cmc-active` (default)
 - `-cmc-standby`
 - `-kvm`
 - `server-<n>` where *n*=1-16
 - `-server-nx` where *n*=1-8; *x* = a,b,c,d
 - `-server-g <generation>`, where *generation* = iDRAC or iDRAC6 only.
 - `-iominf-n` where *n* = 1-6
 - `-f` — Specifies the FTP server IP address or FQDN, username, and password used for firmware image. Applies FTP download process for firmware update.
 - `--clearcfg` (Optional) — After the firmware update, this option removes the previous iDRAC configuration.

 **NOTE:** iDRAC7 targets are not supported from CMC. To update the iDRAC7 targets, use the CMC GUI.

CMC version 3.00 accepts IPv4, IPv6 or fully qualified domain names (FQDN) for both FTP and TFTP servers.

 **NOTE:** You can specify the **cmc-active** and **cmc-standby** modules at the same time along with one or more server-n modules. This option enables the devices to be updated together. This option is applicable only for CMC.

When you use the **server-generation** option, the CMC updates all iDRACs of that particular generation that can be updated.

 **NOTE:** Verify that the update applied to servers for a particular generation has been validated for all impacted server models.

Output


Displays a message indicating the operation that is being performed.


Example

- Upload the firmware image from the TFTP server and start the firmware update.
`racadm fwupdate -g -u -a 192.168.0.100 -d firmimg.cmc -m cmc-active TFTP firmwareate has been initiated. This update process may take several minutes to complete.`
- Upload the firmware image from the FTP server and start the firmware update.
`racadm fwupdate -f 192.168.0.100 fred password123 -d firmimg.cmc -m cmc-active`
- Upload a firmware image from the client and start firmware update.
`racadm fwupdate -p -u -d firmimg.cmc`
- Start IOM infrastructure firmware update.
`racadm fwupdate -u -m iominf-1`
- Update firmware on both the CMCs.
`racadm fwupdate -g -u -a 192.168.0.100 -d firmimg.cmc -m cmc-active -m cmc-standby`
- Update firmware on multiple servers.
`racadm fwupdate -g -u -a 192.168.0.100 -d firmimg.imc -m server-1 -m server-2 -m server-3`
- Update firmware on servers of iDRAC generation.
`racadm fwupdate -g -u -a 192.168.0.100 -d firmimg.imc -m server-iDRAC`
- Update firmware on multiple IOM infrastructure devices.
`racadm fwupdate -u -m iominf-4 -m iominf-5 -m iominf-6`
- Query the status of all firmware targets to be updated.
`racadm fwupdate -s -m all`
- Query the current status of the firmware update process for a particular module.
`racadm fwupdate -s -m <module>`
- Download firmware update file from a specified location on the TFTP server at a specific IP address.
`racadm fwupdate -g -u -a 143.166.154.143 -d <path>`
After the image file is downloaded from the TFTP server, the update process begins. When completed, iDRAC is reset.
- Read the status of the firmware update.
`racadm fwupdate -s`
- Cancel a firmware update in progress.
`racadm fwupdate -c`
- For CMC:

To block the firmware downgrade on 3000W AC power supply configuration.

```
racadm fwupdate -s
Ready for firmware update
racadm fwupdate -g -u -a 10.210.138.121 -d firming-4.40-A00.cmc
-m cmc-active
Firmware update has been initiated. This update process may
take several minutes to complete.
racadm fwupdate -s
Cannot update local CMC firmware: The uploaded firmware image
does not support the installed power supplies.
```

 **NOTE:** Firmware update from local RACADM (using `-p -u -d` options) is not supported on linux OS.

 **NOTE:** For CMC, these commands specifically apply to an active-CMC update.

The following table describes the firmware update method supported for each interface.

FW Update Method	iDRAC on Blade Servers	iDRAC on Rack and Tower Servers	CMC
Local RACADM	Yes	Yes	No
Local RACADM-TFTP	Yes	Yes	No
Local RACADM-FTP	Yes	Yes	No
Remote RACADM	Yes	Yes	Yes
Remote RACADM-TFTP	Yes	Yes	Yes
Remote RACADM-FTP	Yes	Yes	Yes
Firmware RACADM-TFTP	Yes	Yes	Yes
Firmware RACADM-FTP	Yes	Yes	Yes

get

Description

You can read the value of configuration objects on the iDRAC and display RAC object values. The currently used values by the device, are displayed.

If the values are pending, then commit and reboot job must be created using the **jobqueue** command. For more information, see [jobqueue](#).

This subcommand is applicable only for iDRAC.

For the `--clone` and `--replace` options, check the Job ID by running the `racadm jobqueue view` command. For more information, see [jobqueue](#).

Synopsis

```
racadm get -f <filename>
racadm get <FQDD Alias>.<index>.<group>.<index>.<object>
racadm get <FQDD Alias>.<group>
racadm get <FQDD Alias>.<group>.<object>
racadm get <FQDD Alias>.<group>.<index>.<object>
racadm get -f <filename> -t <filetype> -u <username> -p <password> -l <CIFS share>
racadm get -f<filename> -t<filetype> -u<username> -p<password> -l<CIFS share> --clone
racadm get -f<filename> -t<filetype> -u<username> -p<password> -l<CIFS share> --replace
```

Input

- <FQDD Alias>
 - Examples for FQDDs
 - * System.Power
 - * System.Power.Supply
 - * System.Location
 - * LifecycleController.LCAttributes
 - * System.LCD
 - * iDRAC.Serial

For the list of supported groups and objects under the get command, see [Database Objects With Get and Set Commands](#)

- <group> — Specifies the group containing the object that must be read.
- <object> — Specifies the object name of the value that must be read.
- <index> — Specifies where FQDD Aliases or Groups must be indexed.
- `-f <filename>` — This option enables you to save the RAC configuration to a file. and also enables the subcommand to write the device configuration to a file. This option is not supported in Firmware RACADM interface.

For Indexed groups, if a group is not configured, then it is not saved in the configuration file.

- `-u` — Specifies user name of the remote share from where the file must be exported.
- `-p` — Specifies password for the remote share from where the file must be exported.
- `-l` — Specifies network share location from where the file must be exported.
- `-t` — Specifies the file type that must be exported. Valid values are **xml** and **ini**. These options are not case-sensitive. **ini** exports the legacy configuration file. The **ini** file cannot be exported to a remote share. If `-t` is not specified, then the **ini** file is exported.



NOTE: To import or export **.xml config** files, Lifecycle Controller version 1.1 or later is required.

- `--clone` — Gets the configuration **.xml** files without system-related details such as service tag. The **.xml** file received does not have any virtual disk creation option.
- `--replace` — Gets the configuration **.xml** files with the system-related details such as service tag.



NOTE: For `--clone` and `--replace` options, only `.xml` file template is received. These options `--clone` and `--replace` cannot be used in the same command.

Examples

- Get system LCD information.

```
racadm get system.lcd
LCDUserString=test
```
- Display an entire group, in this case the topology configuration.

```
racadm get system.location
```
- Display a single object from a particular group.

```
racadm get system.location.rack.name
```
- Display an indexed group.

```
racadm get system.power.supply.1
```
- Export the xml configuration to a CIFS share.

```
racadm get -f file -t xml -u myuser -p mypass -l //10.1.12.13/share
```
- Export the xml configuration to an NFS share.

```
racadm get -f file -t xml -l 10.1.12.13:/myshare
```
- `racadm get -f xyz_temp_clone -t xml -u Administrator -p dell_123 -l //10.94.162.74/xyz --clone`
- `racadm get -f xyz_temp_replace -t xml -u Administrator -p dell_123 -l //10.94.162.74/xyz --replace`

getactiveerrors

Description

Displays CMC active errors.
This subcommand is applicable only for CMC.

Synopsis

```
racadm getactiveerrors
racadm getactiveerrors [-s <severity>] [-m <module>]
```

Input

The command `racadm getactiveerrors` displays the critical, warning, and informational messages for all the modules. The values are:


`-s <severity>` — Specifies the severity type message displayed. The command `racadm getactiveerrors` displays the selected type of messages for all the modules. When used with `-m` option, only selected message type for that module is displayed. The values for `-s <severity>` are:

- critical
- warning
- info

`-m<module>` — Specifies the module for which the messages such as critical, noncritical (warning), and informational are displayed. The command `racadm getactiveerrors` displays critical, noncritical (warning), and informational messages for the selected module. When used with `-s` option, only selected message type for the module is displayed. The values for `-m <module>` are:

- `server-n` — where `n=1-16`
- `server-nx` — where `n=1-8`; `x=a to d` (lower case)
- `switch-n` — where `n=1-6`

- cmc-n — where n=1, 2
- fan-n — where n=1-9
- ps-n — where n=1-6
- chassis
- kvm
- lcd

 **NOTE:** A few of the informational messages are applicable for more than one module. To avoid repetition of the same message for different modules, only one such informational message is displayed for the default command `racadm getactiveerrors`. When an `-m` option is used on another server or switch, the informational message is displayed, if applicable.

After you run this command, the full-height, half-height, and the quarter-height servers and switches are automatically checked for informational messages (in the same order as mentioned here).

Examples

- To display the entire log (Critical, Warning and Informational messages) for all modules.

```
racadm getactiveerrors
```

```
Module ID      = server-1
Severity       = Critical
Message        = The storage battery has failed.
```

```
Module ID      = server-10
Severity       = Critical
Message        = General failure after video.
```

```
Module ID      = ps-6
Severity       = Critical
Message        = The power input for power supply 6 is lost.
```

- To display Critical error messages for all the components.

```
racadm getactiveerrors -s critical
```

```
Module ID      = server-1
Severity       = Critical
Message        = The storage battery has failed.
```

```
Module ID      = server-10
Severity       = Critical
Message        = General failure after video.
```

```
Module ID      = ps-6
Severity       = Critical
Message        = The power input for power supply 6 is lost.
```

- To display critical error messages for server-1.

```
racadm getactiveerrors -s critical -m server-1
```

```
There are no critical alerts
```

```
Module ID      = server-1
Severity       = Critical
Message        = The storage battery has failed.
```

- The error message displayed for invalid syntax.

```
racadm getactiveerrors -z cmc-1
```

```
ERROR: The syntax of the command specified is not correct.
```

- The error message displayed for invalid parameter.

```
racadm getactiveerrors -m server-80
```

```
ERROR: The syntax of the command specified is not correct.
```

- To display entire information log.


```
racadm getactiveerrors -s info
Module ID = server-1
Severity = Critical
Message = A fabric mismatch detected for mezzanine card B1.

Module ID = ps-1
Severity = Critical
Message = The power input for power supply 1 is lost.

Module ID = ps-3
Severity = Critical
Message = The power input for power supply 3 is lost.

Module ID = cmc-1
Severity = NonCritical
Message = A firmware or software incompatibility detected
between system BIOS in slot 4 and CMC.
```

getarraycfg

- Description** This command is applicable only for CMC.
To display the storage array properties and configuration status, run this command.
- Synopsis** `getarraycfg -m <module> [-s]`
- Input**
- `-m` — The valid value for `-m <module>` is `server-n`, where `n = 1–16`.
 - `-s` — Query for current storage configuration process status.
- Output** Array configured properties for:
- Member Name
 - Member IP
 - Group Name
 - Group IP
 - Fabric Selection
- `<module>` configuration completed successfully.
- Example**
- Get the configured storage array properties from `server-3`.
`racadm getarraycfg -m server-3`
 - Query for current storage configuration process status on `server-3`.
`racadm getarraycfg -m server-3 -s`

getassettag

- Description** Displays the asset tag for the chassis.
This subcommand is applicable only for CMC.

To run this subcommand, you must have the CMC Login User privilege.


- Synopsis** `racadm getassettag [-m <module>]`
- Input** `-m <module>` — Specifies the module whose asset tag you want to view. Legal value: `chassis`
- Example**
- `racadm getassettag -m chassis`
 - `racadm getassettag chassis 78373839-33`

getchassisname

- Description** Displays the name of the chassis.
This subcommand is applicable only for CMC.
To run this subcommand, you must have the CMC Login User privilege.
- Synopsis** `racadm getchassisname`
- Example** `racadm getchassisname`
PowerEdge M1000e

getconfig

- Description** Retrieves iDRAC configuration parameters individually or all iDRAC configuration groups may be retrieved and saved to a file. Also, displays CMC configuration properties.
- Synopsis**
- ```
racadm getconfig -f <filename>
racadm getconfig -g <groupName> [-i <index>]
racadm getconfig -u <username>
racadm getconfig -h
racadm getconfig -g <groupName> -o <objectName> [-i index]
```
- For CMC only:
- ```
racadm getconfig -g <group> [-m <module>]
racadm getconfig -g <group> -o <object> [-m <module>]
```

- Input**
- `-f` — The `-f <filename>` option directs **getconfig** to write the entire iDRAC or CMC configurations to a configuration file. This file can be used for batch configuration operations using the **config** subcommand.
 **NOTE:** This option is supported only on remote interfaces.
 - `-g` — The `-g <groupName>` or `group` option, is used to display the configuration for a single group. The `<groupName>` is the name for the group used in the **racadm.cfg** files. If the group is an indexed group, then use the `-i` option.
 - `-h` — The `-h` or `help` option, displays a list of all available configuration groups in alphabetical order. This option is useful when you do not remember exact group names.
 - `-i` — The `-i <index>` or `index` option, is valid only for indexed groups and is used to specify a unique group. The `<index>` is a decimal integer from 1 through n, where n can vary from 1 to

maximum number of indexes a particular group supports. If `-i <index>` is not specified, then a value of 1 is assumed for groups, which are tables that have multiple entries. The `-i` option enters the index value and not a *named* value

- `-o` — The `-o <objectname>` or object option specifies the object name that is used in the query. This option is optional and can be used with the `-g` option.
- `-u` — The `-u <username>` or user name option, is used to display the configuration for the specified user. The `<username>` option is the login name for the user.
- `-v` — The `-v` option displays more information with the display of the properties and is used with the `-g` option.
- `-m` — The module must be one of the following values:
 - `server-<n>` — where `n = 1-16`
 - `server-<nx>` — where `n = 1-8; x = a-d` (lower case).

 **NOTE:** This option is available only for `cfgRemoteHosts`, `cfgRacTuning`, `cfgSerial`, `cfgSessionManagement`, `cfgLanNetworking`, or `cfgIPv6LanNetworking` commands.

Output This subcommand generates error output upon encountering either of the following:

- Invalid syntax, group name, object name, index or other invalid database members.
- The RACADM CLI transport is unsuccessful.

If errors are not encountered, this subcommand displays the content of the specified configuration.

Example


- Displays the configuration properties (objects) that are contained in the group `cfgLanNetworking`.
`racadm getconfig -g cfgLanNetworking`
- Saves all group configuration objects from iDRAC to **myrac.cfg**.
`racadm getconfig -f myrac.cfg`
- Displays a list of the available configuration groups on iDRAC in an alphabetical order.
`racadm getconfig -h`
- Displays the configuration properties for the user named **root**.
`racadm getconfig -u root`
- Displays the user group instance at index 2 with verbose information for the property values.
`racadm getconfig -g cfgUserAdmin -i 2 -v`
- Displays an entire group of serial configuration.
`racadm getconfig -g cfgSerial`
- Displays a single object from a particular group.
`racadm getconfig -g cfgSerial -o cfgSerialBaudRate`
- Displays an indexed group.
`racadm getconfig -g cfgUserAdmin -o cfgUserAdminUserName -i 2`
- Displays information about the session information for a particular server.
`racadm getconfig -g cfgSessionManagement -m server-1`
- Displays information about the WEB/SSH/Telnet information for a particular server.
`racadm getconfig -g cfgRacTuning -m server-1`
- Displays information about the remote Syslog for a particular server.
`racadm getconfig -g cfgRemoteHosts -m server-1`
- Displays the current Enhanced Cooling Mode property configuration.
`racadm getconfig -g cfgThermal`

getdcinfo

Description Displays general I/O module and daughter card configuration information. Only the CMC controls daughter cards.

This subcommand is applicable only for CMC.

To run this subcommand, you must have the CMC Login User privilege.

 **NOTE:** Fabric verification for server DCs is performed only when the chassis is turned on. When the chassis is on standby power, iDRACs on the server modules remain turned off and thus are unable to report the server's DC fabric type. The DC fabric type may not be reported in the CMC user interface until iDRAC on the server is turned on.

Synopsis racadm getdcinfo

Input -n — Displays the model names for the daughter cards in servers.

Example

The example output below is for a system with multi-slot servers.

```
racadm getdcinfo
```

```
Group A I/O Type : Gigabit Ethernet
```

```
Group B I/O Type : Gigabit Ethernet
```

```
Group C I/O Type : 10 GbE XAUI
```

<IO#>	<Type>	<State>	<Role>
switch-1	Gigabit Ethernet	OK	Master
switch-2	None	N/A	N/A
switch-3	Gigabit Ethernet	OK	Master
switch-4	None	N/A	N/A
switch-5	Gigabit Ethernet	OK	Member
switch-6	None	N/A	N/A

<Server#>	<Presence>	<DC1 Type>	<DC1 State>	<DC2 Type>	<DC2 State>
server-1	Present	None	N/A	None	N/A
server-2	Not Present	None	N/A	None	N/A
server-3	Not Present	None	N/A	None	N/A
server-4	Present	None	N/A	Gigabit Ethernet	OK
server-5	Not Present	None	N/A	None	N/A
server-6	Not Present	None	N/A	None	N/A

server-7	Not Present	None	N/A	None	N/A
server-8	Present	FibreChannel 4	Invalid	None	N/A
server-9	Extension(1)	None	N/A	None	N/A
server-10	Not Present	None	N/A	None	N/A
server-11	Not Present	None	N/A	None	N/A
server-12	Not Present	None	N/A	None	N/A
server-13	Not Present	None	N/A	None	N/A
server-14	Not Present	None	N/A	None	N/A
server-15	Not Present	None	N/A	None	N/A
server-16	Not Present	None	N/A	None	N/A

getdcinfo -n


<Server#>	<Presence>	<DC1 ModelName>	<DC2 Model Name>
server-1	Present	None	None
server-2	Not Present	None	None
server-3	Not Present	None	None
server-4	Present	None	Broadcom M5708t
server-5	Not Present	None	None
server-6	Not Present	None	None
server-7	Not Present	None	None
server-8	Present	LPe1105-M4	None
server-9	Extension(1)	None	None
server-10	Not Present	None	None
server-11	Not Present	None	None
server-12	Not Present	None	None
server-13	Not Present	None	None
server-14	Not Present	None	None
server-15	Not Present	None	None
server-16	Not Present	None	None

getflexaddr

Description Displays enabled/disabled status for the entire chassis. If used with the `-i` option, the command displays MACs/WWN on a per slot basis.

This subcommand is applicable only for CMC.

To run this subcommand, you must have the CMC Login User privilege.

 **NOTE:** If FlexAddress is not activated on the chassis, the command displays server-assigned MAC/WWN addresses. If the slot is empty, the command enters blank in the server-assigned MAC/WWN addresses. If an external console controls the MAC/WWN addresses, the command displays an externally managed message.

Synopsis `racadm getflexaddr [-i <slotNum>]`

Input `-i <slotNum>` — Specifies the slot information that must be displayed. `<slotNum>` can be from 1 to 16.

Output None

Example

Display current flex address settings for all slots and fabrics.

```
racadm getflexaddr
```

<code><Slot#></code>	<code><Status></code>	<code><Server Presence></code>
1	Enabled	Present
2	Enabled	Present
3	Enabled	Not Present
4	Enabled	Not Present
5	Enabled	Present
6	Enabled	Not Present
7	Enabled	Not Present
8	Enabled	Not Present
9	Enabled	Not Present
10	Enabled	Extension (2)
11	Enabled	Not Present
12	Enabled	Not Present
13	Enabled	Extension (5)
14	Enabled	Not Present
15	Enabled	Not Present

idrac System Disabled

Display the current flex address setting for slot 1.

```
racadm getflexaddr -i 1
Slot-1 server presence = Present
Slot-1 flexaddress enabled = 1
```

<Fabric>	<Type>	<Server-Assigned>	<Chassis-Assigned>
slot1-A1	Gigabit Ethernet	00:1C: 23:CD:AC:D2 (active)	00:1E:C9:FF:E3:21
	iSCSI	00:1C: 23:CD:AC:D3 (active)	00:1E:C9:FF:E3:22
slot1-A2	Gigabit Ethernet	00:1C: 23:CD:AC:D4 (active)	00:1E:C9:FF:E3:23
	iSCSI	00:1C: 23:CD:AC:D5 (active)	00:1E:C9:FF:E3:24
slot1-B1	Gigabit Ethernet	00:1D:09:71:B3:60	00:1E:C9:FF:E3:25 (active)
	iSCSI	00:1D:09:71:B3:61	00:1E:C9:FF:E3:26 (active)
slot1-B2	Gigabit Ethernet	00:1D:09:71:B3:62	00:1E:C9:FF:E3:27 (active)
	iSCSI	00:1D:09:71:B3:63	00:1E:C9:FF:E3:28 (active)
slot1-C1	Fiber Channel 4	10:00:00:00:C9:63: 51:0E	20:01:00:1E:C9:FF: E3:29 (active)
slot1-C2	Fiber Channel 4	10:00:00:00:C9:63: 51:0D	20:02:00:1E:C9:FF: E3:29 (active)

getfanreqinfo

Description Displays fan speed request for servers and switches in percent (%).
This subcommand is applicable only for CMC.
To run this subcommand, you must have the CMC Login User privilege.

Synopsis racadm getfanreqinfo

Input None

Output None

Example

```
racadm getfanreqinfo
```

```
[Ambient Temperature Fan Request %]
```

```
38
```

```
[Server Module Fan Request Table]
```

<Slot#>	<Server Name>	<Blade Type>	<Power State>	<Presence>	<Fan Request %>
1	SLOT-01	PowerEdgeM60 0	ON	Present	33
2	SLOT-02	PowerEdgeM90 5	ON	Present	35
3	SLOT-03	PowerEdgeM71 0	ON	Present	44
4	SLOT-04	PowerEdgeM61 0	ON	Present	46
5	SLOT-05	PowerEdgeM61 0	ON	Present	46
6	SLOT-06	N/A	N/A	Not Present	N/A
7	SLOT-07	PowerEdgeM60 5	ON	Present	100

```
fwupdate
```

8	SLOT-08	PowerEdgeM7 10	ON	Present	44
9	SLOT-09	N/A	N/A	Not Present	N/A
10	SLOT-10	N/A	Extension(2)	N/A	N/A
11	SLOT-11	N/A	Extension(3)	N/A	N/A
12	SLOT-12	N/A	N/A	Not Present	N/A
13	SLOT-13	N/A	N/A	Not Present	N/A
14	SLOT-14	PowerEdgeM6 00	ON	Present	33
15	SLOT-15	N/A	N/A	Not Present	N/A
16	SLOT-16	N/A	Extension(8)	N/A	N/A

Switch Module Fan Request Table

<Slot#>	<Server Name>	<Blade Type>	<Power State>	<Presence>	<Fan Request %>
1	SLOT-01	PowerEdgeM600	ON	Present	33
2	SLOT-02	PowerEdgeM905	ON	Present	35
3	SLOT-03	PowerEdgeM710	ON	Present	44
4	SLOT-04	PowerEdgeM610	ON	Present	46
5	SLOT-05	PowerEdgeM610	ON	Present	46
6	SLOT-06	N/A	N/A	Not Present	N/A
7	SLOT-07	PowerEdgeM605	ON	Present	100
fwupdate					
8	SLOT-08	PowerEdgeM710	ON	Present	44
9	SLOT-09	N/A	N/A	Not Present	N/A
10	SLOT-10	N/A	Extension(2)	N/A	N/A
11	SLOT-11	N/A	Extension(3)	N/A	N/A
12	SLOT-12	N/A	N/A	Not Present	N/A
13	SLOT-13	N/A	N/A	Not Present	N/A
14	SLOT-14	PowerEdgeM600	ON	Present	33
15	SLOT-15	N/A	N/A	Not Present	N/A
16	SLOT-16	N/A	Extension(8)	N/A	N/A

Switch Module Fan Request Table

<IO Name>	<Name>	<Type>	<Presence>	<Fan Request %>
Switch-1	Dell Ethernet Pass-Through	Gigabit Ethernet	Present	30
Switch-2	Dell PowerConnect M6220	Gigabit Ethernet	Present	30
Switch-3	N/A	None	Not Present	N/A


Switch-4	N/A	None	Not Present	N/A
Switch-5	N/A	None	Not Present	N/A
Switch-6	N/A	None	Not Present	N/A

Display Enhanced Cooling Mode status.

```
racadm getfanreqinfo
[Enhanced Cooling Mode]
Enhanced Cooling Mode (ECM) Status          = Disabled
```

getioinfo

Description Displays general information about the I/O modules on the chassis. This subcommand is applicable only for CMC. To run this subcommand, you must have the CMC Login User privilege.

 **NOTE:** The fabric type may be any supported I/O fabric type, such as Ethernet, Fibre Channel, and InfiniBand.

Synopsis `racadm getioinfo [-m <module>] [-s]`

Input

- `-m <module>` — Specifies the module or device. `<module>` must be `switch - <n>`, where `n = 1-6`
- `-s` — Displays stack information.

Example

- `racadm getioinfo`

<IO>	<Name>	<Type>	<Presence >	<POST>	<Power>	<Role>
switch-1	Dell Ethernet Passthrou gh	Gigabit Ethernet	Present	OK	ON	Master
switch-2	N/A	None	Not Present	N/A	N/A	N/A
switch-3	Brocade 4424	Fibre Channel 4	Present	OK	ON	Master
switch-4	N/A	None	Not Present	N/A	N/A	N/A
switch-5	N/A	None	Not Present	N/A	N/A	N/A
switch-6	N/A	None	Not Present	N/A	N/A	N/A

- `racadm getioinfo -s`

<Chassis>	<IO>	<Slot>	<Presence>	<Role>	<Unit>	<Stack ID>
JP4BF2S	Switch-1	A1	Present	Master	N/A	N/A
JP4BF2S	Switch-2	A2	Present	Master	N/A	N/A
JP4BF2S	Switch-3	B1	Present	Master	N/A	N/A
JP4BF2S	Switch-4	B2	Present	Master	N/A	N/A
JP4BF2S	Switch-5	C1	Present	Master	N/A	N/A
JP4BF2S	Switch-6	C2	Present	Master	N/A	N/A

- racadm getioinfo -m switch-1

<IO>	<Name>	<Type>	<Presence>	<POST>	<Power>	<Role>
Switch-1	Dell Ethernet Pass-Through	Gigabit Ethernet	Present	OK	ON	Master

- racadm getioinfo -m switch-1 -s

<Chassis>	<IO>	<Slot>	<Presence>	<Role>	<Unit>	<Stack ID>
C92L0G1	Switch-1	A1	Present	Master	0	d0:67:e5:a7:b7:3a
C92L0G1	Switch-2	A2	Present	Standby	1	d0:67:e5:a7:b7:3a

getkvminfo

Description Displays iKVM module information.
This subcommand is applicable only for CMC.
To run this subcommand, you must have the CMC Login User privilege.

Synopsis racadm getkvminfo

Example

```
racadm getkvminfo
```

<module>	<module>	<model>	<FW Version>	<status>
KVM	Present	Avocent iKVM Switch	00.05.00.04	Ready

getled

Description Displays the LED settings on a module: blinking, not blinking, or unknown (for empty slots).
To run this subcommand, you must have the Login User privilege.

Synopsis `racadm getled -m <module>`

Input For CMC:
`-m <module>` — Specifies the module whose LED settings you want to view.
<module> can be one of the following:

- `server-nx` where `n=1-8`; `x=a, b, c, d`
- `switch-n` where `n=1-6`
- `chassis`
- `cmc-active`

Output None

Example For CMC:

- `racadm getled -m server-10`
 <module> <LED state> **server-10 Blinking**
- `racadm getled -m chassis`
 <module> <LED state> **server-10 Not blinking**
- `racadm getled -m server-1`
 <module> <LED state> **server-1 ON**
- `racadm getled -m server-9`
 <module> <LED state> **server-9 Extension(1)**

For iDRAC:
`racadm getled`

LED is blinking

getmacaddress

Description Displays the MAC/WWN addresses for all modules or for a specified module.
This subcommand is applicable only for CMC.
To run this subcommand, you must have the CMC Login User privilege.

Synopsis `racadm getmacaddress [-m <module>] [-t iscsi] [-x]`
`racadm getmacaddress [-a]`

Input

- `-m <module>` — Specifies the module whose MAC address you want to view.
 <module> may be one of the following:
 `server-nx` where `n= 1-8`; `x= a, b, c, d`
 `switch-n` where `n=1-6`
- `-t` — Displays the iSCSI MAC addresses for all servers or the specified server if used with `-m` option.

- `-x` — Displays the extra MACs (Ethernet or iSCSI) for servers with extra LOM MACs and must be used with `-m` option.
- `-a` — Displays the Ethernet and iSCSI MAC/WWN addresses for all iDRAC/LOMs/mezzanine cards. When FlexAddress is enabled for a particular slot, then the chassis-assigned MAC/WWN address is displayed.

Example

Display iSCSI MAC addresses for all servers.

```
racadm getmacaddress -t iscsi
```

Display iSCSI MAC for server-1.

```
racadm getmacaddress -m server-1 -t iscsi
```

Display extra iSCSI MACs for server-1 (if available).

```
racadm getmacaddress -m server-1 -t iscsi -x
```

Display MAC for server-1.

```
racadm getmacaddress -m server-1
```

<Name>	<Presence>	<BMC MAC Address>	<NIC1 MAC Address>	<NIC2 MAC Address>
server-1	Present	14:FE:B5:00:F0:80	14:FE:B5:00:F0:81	14:FE:B5:00:F0:82
server-9	Present	14:FE:B5:00:F0:E8	14:FE:B5:00:F0:E9	14:FE:B5:00:F0:EA

Display extra MACs for server-1 (if available).

```
racadm getmacaddress -m server-1 -x
```

<Name>	<Presence>	<BMC MAC Address>	<NIC1 MAC Address>	<NIC2 MAC Address>
server-1	Present	14:FE:B5:00:F0:80	14:FE:B5:00:F0:81	14:FE:B5:00:F0:82

```
racadm getmacaddress
```

<Name>	<Presence>>	<BMC MAC Address>	<NIC1 MAC Address>	<NIC2 MAC Address>
CMC	Present	N/A	84:2B:2B:49:8E:B1	N/A
Server-1	Present	14:FE:B5:00:F0:80	14:FE:B5:00:F0:81	14:FE:B5:00:F0:82
Server-2	Present	14:FE:B5:00:F0:8D	14:FE:B5:00:F0:8E	14:FE:B5:00:F0:90
Server-3	Not Present	Not Installed	Not Installed	Not Installed
Server-4	Present	14:FE:B5:00:F0:A7	14:FE:B5:00:F0:A8	14:FE:B5:00:F0:AAA

Server-5	Present	14:FE:B5:00:F0:B4	14:FE:B5:00:F0:B5	14:FE:B5:00:F0:B7
Server-6	Not Present	Not Installed	Not Installed	Not Installed
Server-7	Present	14:FE:B5:00:F0:CE	14:FE:B5:00:F0:CF	14:FE:B5:00:F0:D2
Server-8	Not Present	Not Installed	Not Installed	Not Installed
Server-9	Present	14:FE:B5:00:F0:E8	14:FE:B5:00:F0:E9	14:FE:B5:00:F0:EA
Server-10	Extension(2)	Not Installed	14:FE:B5:00:F0:F6	14:FE:B5:00:F0:F8
Server-11	Not Present	Not Installed	Not Installed	Not Installed
Server-12	Not Present	Not Installed	Not Installed	Not Installed
Server-13	Extension(5)	Not Installed	14:FE:B5:00:F1:1D	14:FE:B5:00:F1:1F
Server-14	Not Present	Not Installed	Not Installed	Not Installed
Server-15	Not Present	Not Installed	Not Installed	Not Installed
Server-16	Not Present	Not Installed	Not Installed	Not Installed
Switch-1	Present	Not Installed	00:1E:C9:CC:BB:52	Not Installed
Switch-2	Present	Not Installed	5C:26:0A:B9:FD:ED	Not Installed
Switch-3	Present	Not Installed	00:00:00:00:00:00	Not Installed
Switch-4	Present	Not Installed	00:1E:C9:AA:BB:2B	Not Installed
Switch-5	Present	Not Installed	00:63:48:03:00:3B	Not Installed
Switch-6	Present	Not Installed	00:1E:4F:05:B9:0B	Not Installed

Display Ethernet and iSCSI MACS of all LOMs/mezzanine cards.

racadm getmacaddress -a

<Name>	<Type>	<Presence>	<BMC MAC Address>	<NIC1 MAC Address>	<NIC2 MAC Address>
CMC	N/A	Present	N/A	84:2B:2B:49:8E:B1	N/A
Server-1-A	Gigabit Ethernet	Present	14:FE:B5:00:F0:80	14:FE:B5:00:F0:81	14:FE:B5:00:F0:82

	Gigabit Ethernet	Present		14:FE:B5:00:F0:83	14:FE:B5:00:F0:84
Server-1-B	Gigabit Ethernet	Present		14:FE:B5:00:F0:85	14:FE:B5:00:F0:86
	Gigabit Ethernet	Present		14:FE:B5:00:F0:87	14:FE:B5:00:F0:88
Server-1-C	Gigabit Ethernet	Present		14:FE:B5:00:F0:89	14:FE:B5:00:F0:8B
	Gigabit Ethernet	Present		14:FE:B5:00:F0:8A	14:FE:B5:00:F0:8C
Server-2-A	Gigabit Ethernet	Present	14:FE:B5:00:F0:8D	14:FE:B5:00:F0:8E	14:FE:B5:00:F0:90
	iSCSI	Present		00:26:B9:FE:38:CD	00:26:B9:FE:38:CF
Server-2-B	10 GbE XAUI	Present		14:FE:B5:00:F0:92	14:FE:B5:00:F0:94
	10 GbE XAUI	Present		14:FE:B5:00:F0:93	14:FE:B5:00:F0:95
Server-2-C	Gigabit Ethernet	Present		14:FE:B5:00:F0:96	14:FE:B5:00:F0:98
	Gigabit Ethernet	Present		14:FE:B5:00:F0:97	14:FE:B5:00:F0:99
Server-3	Not Installed	Not Present	Not Installed	Not Installed	Not Installed
Server-4-A	Gigabit Ethernet	Present	14:FE:B5:00:F0:A7	14:FE:B5:00:F0:A8	14:FE:B5:00:F0:AA
	iSCSI	Present		10:02:5C:40:10:09	37:24:10:09:37:20
Server-4-B	Gigabit Ethernet	Not Present		Not Installed	Not Installed
	iSCSI	Present		Not Installed	Not Installed
Server-4-C	10 GbE XAUI +KR	Present		14:FE:B5:00:F0:B0	14:FE:B5:00:F0:B2
	FCoE-FIP	Present		00:1B:21:BC:A1:11	00:1B:21:BC:A1:13
	FCoE-WWN	Present		20:01:00:1B:21:BC:A1:11	20:01:00:1B:21:BC:A1:13
Server-5-A	Gigabit Ethernet	Present	14:FE:B5:00:F0:B4	14:FE:B5:00:F0:B5	14:FE:B5:00:F0:B7


	iSCSI	Present		00:21:9B:FE:39:C1	00:21:9B:FE:39:C3
Server-5-B	Gigabit Ethernet	Present		14:FE:B5:00:F0:B9	14:FE:B5:00:F0:BB
	iSCSI	Present		00:10:18:49:EF:19	00:10:18:49:EF:1B
Server-5-C	10 GbE XAUI +KR	Present		14:FE:B5:00:F0:BD	14:FE:B5:00:F0:BF
	FCoE-FIP	Present		00:1B:21:74:01:99	00:1B:21:74:01:9B
	FCoE-WWN	Present		20:01:00:1B:21:74:01:99	20:01:00:1B:21:74:01:9B
Server-6	Not Installed	Not Present	Not Installed	Not Installed	Not Installed
Server-7-A	10 GbE KR	Present	14:FE:B5:00:F0:CE	14:FE:B5:00:F0:CF	14:FE:B5:00:F0:D2
	iSCSI	Present		00:10:18:E3:BD:D1	00:10:18:E3:BD:D3
	FCoE-FIP	Present		00:10:18:E3:BD:D1	00:10:18:E3:BD:D3
	FCoE-WWN	Present		20:01:00:10:18:E3:BD:D1	20:01:00:10:18:E3:BD:D3
	10 GbE KR	Present		14:FE:B5:00:F5:9F	14:FE:B5:00:F5:A2
	iSCSI	Present		00:10:18:E3:BD:D5	00:10:18:E3:BD:D7
	FCoE-FIP	Present		00:10:18:E3:BD:D5	00:10:18:E3:BD:D7
	FCoE-WWN	Present		20:01:00:10:18:E3:BD:D5	20:01:00:10:18:E3:BD:D7
Server-7-B	10 GbE XAUI	Present		14:FE:B5:00:F0:D3	14:FE:B5:00:F0:D5
	10 GbE XAUI	Present		14:FE:B5:00:F0:D4	14:FE:B5:00:F0:D6
Server-8	Not Installed	Not Present	Not Installed	Not Installed	Not Installed
Server-9-A	Gigabit Ethernet	Present	14:FE:B5:00:F0:E8	14:FE:B5:00:F0:E9	14:FE:B5:00:F0:EA
	Gigabit Ethernet	Present		14:FE:B5:00:F0:EB	14:FE:B5:00:F0:EC

Server-9-A	Gigabit Ethernet	Present	14:FE:B5:00:F0:E8	14:FE:B5:00:F0:E9	14:FE:B5:00:F0:EA
	Gigabit Ethernet	Present		14:FE:B5:00:F0:EB	14:FE:B5:00:F0:EC
Server-9-A	Gigabit Ethernet	Present	14:FE:B5:00:F0:E8	14:FE:B5:00:F0:E9	14:FE:B5:00:F0:EA
	Gigabit Ethernet	Present		14:FE:B5:00:F0:EB	14:FE:B5:00:F0:EC
Server-9-B	10 GbE XAUI	Present		14:FE:B5:00:F0:ED	14:FE:B5:00:F0:EF
	10 GbE XAUI	Present		14:FE:B5:00:F0:EE	14:FE:B5:00:F0:F0
Server-10-A	Gigabit Ethernet	Extension(2)	Not Installed	14:FE:B5:00:F0:F6	14:FE:B5:00:F0:F8
	iSCSI	Extension(2)	Not Installed	31:2F:E4:2B:00:00	Not Installed
Server-10-B	10 GbE XAUI	Extension(2)	Not Installed	14:FE:B5:00:F0:FA	14:FE:B5:00:F0:FC
	10 GbE XAUI	Extension(2)	Not Installed	14:FE:B5:00:F0:FB	14:FE:B5:00:F0:FD
Server-11	Not Installed	Not Present	Not Installed	Not Installed	Not Installed
Server-12	Not Installed	Not Present	Not Installed	Not Installed	Not Installed
Server-13-A	Gigabit Ethernet	Extension(5)	Not Installed	14:FE:B5:00:F1:1D	14:FE:B5:00:F1:1F
	iSCSI	Extension(5)	Not Installed	00:21:9B:FE:39:C5	00:21:9B:FE:39:C7
Server-13-B	10 GbE XAUI	Extension(5)	Not Installed	14:FE:B5:00:F1:21	14:FE:B5:00:F1:23
	FCoE-FIP	Extension(5)	Not Installed	00:1B:21:5E:EF:69	00:1B:21:5E:EF:6B
	FCoE-WWN	Extension(5)	Not Installed	20:01:00:1B:21:5E:EF:69	20:01:00:1B:21:5E:EF:6B
Server-13-C	10 GbE XAUI +KR	Extension(5)	Not Installed	14:FE:B5:00:F1:25	14:FE:B5:00:F1:27
	FCoE-FIP	Extension(5)	Not Installed	00:1B:21:D3:6B:95	00:1B:21:D3:6B:97
	FCoE-WWN	Extension(5)	Not Installed	20:01:00:1B:21:D3:6B:95	20:01:00:1B:21:D3:6B:97

Server-14	Not Installed	Not Present	Not Installed	Not Installed	Not Installed
Server-15	Not Installed	Not Present	Not Installed	Not Installed	Not Installed
Server-16	Not Installed	Not Present	Not Installed	Not Installed	Not Installed
Switch-1	10 GbE KR	Present	Not Installed	00:1E:C9:CC:BB:52	Not Installed
Switch-2	10 GbE KR	Present	Not Installed	5C:26:0A:B9:FD:ED	Not Installed
Switch-3	10 GbE XAUI	Present	Not Installed	00:00:00:00:00:00	Not Installed
Switch-4	10 GbE XAUI	Present	Not Installed	00:1E:C9:AA:BB:2B	Not Installed
Switch-5	Gigabit Ethernet	Present	Not Installed	00:63:48:03:00:3B	Not Installed
Switch-6	Gigabit Ethernet	Present	Not Installed	00:1E:4F:05:B9:0B	Not Installed

getmodinfo

Description Displays configuration and status information for all modules or a specified module (server, switch, CMC, fan unit, power supply unit (PSU), KVM, or I2C cable) in the chassis. A power state of "Primary" denotes Active CMC. This subcommand is applicable only for CMC. To run this subcommand, you must have the CMC Login User privilege.

 **NOTE:** The **Service tag** field is blank for modules that do not have service tag.

Synopsis racadm getmodinfo [-m <module>] [-A]

Input

- m <module> — Specifies the module whose configuration and status information you want to view. The default command (no options) displays information about all major components in the chassis. <module> may be any of the following values:
 - server-nx where n=1-8; x = a, b, c, d
 - switch-n where n=1-6
 - CMC-n where n=1-2
 - fan-n where n=1-9
 - ps-n where n=1-6
 - chassis
 - kvm
 - io-cable

- fpc-cable
- -A — Suppresses headers and labels in the output.

Examples


- racadm getmodinfo -m switch-1

<module>	<presence>	<pwrState>	<health>	<svcTag>
Switch-1	Present	ON	OK	CG09074

- racadm getmodinfo

<module>	<presence>	<pwrState>	<health>	<svcTag>
Chassis	Present	ON	Not OK	ABC123
Fan-1	Present	ON	OK	
Fan-2	Present	ON	OK	
Fan-3	Present	ON	OK	
Fan-4	Present	ON	OK	
Fan-5	Present	ON	OK	
Fan-6	Present	ON	OK	
Fan-7	Present	ON	OK	
Fan-8	Present	ON	OK	
Fan-9	Present	ON	OK	
PS-1	Present	Online	OK	
PS-2	Not Present	N/A	N/A	N/A
PS-3	Present	Online	OK	
PS-4	Not Present	N/A	N/A	N/A
PS-5	Not Present	N/A	N/A	N/A
PS-6	Not Present	N/A	N/A	N/A
CMC-1	Present	Primary	OK	N/A
CMC-2	Not Present	N/A	N/A	N/A
Switch-1	Not Present	N/A	N/A	N/A
Switch-2	Not Present	N/A	N/A	N/A
Switch-3	Not Present	N/A	N/A	N/A
Switch-4	Not Present	N/A	N/A	N/A
Switch-5	Not Present	N/A	N/A	N/A
Switch-6	Not Present	N/A	N/A	N/A
Server-1	Not Present	N/A	N/A	N/A
Server-2	Present	OFF	OK	
Server-3	Present	ON	OK	S YW
Server-4	Present	ON	OK	
Server-5	Present	ON	OK	

Server-6	Present	ON	OK	1234567
Server-7	Present	ON	OK	
Server-8	Not Present	N/A	N/A	N/A
Server-9	Not Present	N/A	N/A	N/A
Server-10	Extension (2)	N/A	N/A	N/A
Server-11	Not Present	N/A	N/A	N/A
Server-12	Present	ON	OK	
Server-13	Not Present	N/A	N/A	N/A
Server-14	Present	ON	OK	0000015
Server-15	Present	ON	OK	
Server-16	Present	ON	OK	
KVM	Present	ON	OK	
IO-Cable	Present	ON	OK	ABC1234
FPC-Cable	Present	ON	OK	ABC1234

 **NOTE:** For CMC only, a power state of "Primary" denotes Active CMC.

getniccfg

Description Displays the current NIC settings.

Synopsis `racadm getniccfg`

Input `racadm getniccfg`
`racadm getniccfg -m <module>`

where `-m` must be one of the following values:

- `chassis`
: default state if `-m` is not specified
- `server-n`
: where `n=1-16`
- `server-nx`
: where `n=1-8`; `x = a-d` (lower case)
- `switch-n`
: where `n=1-6`

Example `racadm getniccfg`
`racadm getniccfg -m <module>`

Output

The **getniccfg** subcommand displays an appropriate error message if the operation is not successful. Otherwise, the output is displayed in the following format:

IPv4 settings:

NIC Enabled = 1
IPv4 Enabled = 1
DHCP Enabled = 1
IP Address = 10.35.0.64
Subnet Mask = 255.255.255.0
Gateway = 10.35.0.1

IPv6 settings:

IPv6 Enabled = 0
DHCP6 Enabled = 1
IP Address 1 = ::
Gateway = ::
Link Local Address = ::
IP Address 2 = ::
IP Address 3 = ::
IP Address 4 = ::
IP Address 5 = ::
IP Address 6 = ::
IP Address 7 = ::
IP Address 8 = ::
IP Address 9 = ::
IP Address 10 = ::
IP Address 11 = ::
IP Address 12 = ::
IP Address 13 = ::
IP Address 14 = ::
IP Address 15 = ::

LOM Status:

NIC Selection = Dedicated
Link Detected = Yes
Speed = 10Mb/s
Duplex Mode = Half Duplex



NOTE: IPv6 information is displayed only if IPv6 is enabled in iDRAC.



NOTE: LOM Status is displayed only for iDRAC on Rack and Tower servers and is not displayed for iDRAC Enterprise on Blade servers.

getpbinfo

Description Displays power budget status information.
This subcommand is applicable only for CMC.
To run this subcommand, you must have the CMC Login User privilege.

Synopsis racadm getpbinfo

Examples

racadm getpbinfo

```
[Power Budget Status]
System Input Power           = 700 W
Peak System Power           = 0 W
Peak System Power Timestamp = 01:08:23 01/27/2009
Minimum System Power        = 0 W
Minimum System Power Timestamp = 20:18:30 01/27/2000
Overall Power Health        = Not OK
Redundancy                  = No
System Input Power Cap      = 7928 W
Redundancy Policy          = None
Dynamic PSU Engagement Enabled = No
System Input Max Power Capacity = 0 W
Input Redundancy Reserve   = 0 W
Input Power Allocated to Servers = 0 W
Input Power Allocated to Chassis Infrastructure = 51 watts
Total Input Power Available for Allocation = 0 W
Standby Input Power Capacity = 0 W
Server Based Power Management Mode = No
Max Power Conservation Mode = No
Server Performance Over Power Redundancy = No
Extended Power Performance(EPP) Status = Enabled (active)
Available Power in EPP Pool = 2223 W (7585 BTU/h)
Used Power in EPP Pool = 944 W (3221 BTU/h)
EPP Percent - Available = 70.0
```


[Chassis Power Supply Status Table]

<Name>	<Presence>	<Power State>	<Input Current>	<Input Volts>	<Output Rating>
PS1	Online	On	16.1 A	32 V	2360 W
PS2	Not Present	Slot Empty	N/A	N/A	N/A
PS3	Not Present	Slot Empty	N/A	N/A	N/A
PS4	Not Present	Slot Empty	N/A	N/A	N/A
PS5	Not Present	Slot Empty	N/A	N/A	N/A
PS6	Not Present	Slot Empty	N/A	N/A	N/A

[Server Module Power Allocation Table]

<Slot>	<Server Name>	<PowerState>	<Allocation>	<Priority>	<Blade Type>
1	SLOT-01	N/A	N/A	5	N/A

2	SLOT-02	OFF	0 W	5	PowerEdgeM805
3	SLOT-03	ON	164 W	5	N/A
4	SLOT-04	ON	155 W	5	
5	SLOT-05	ON	180 W	5	
6	SLOT-06	ON	180 W	5	PowerEdgeM600
7	SLOT-07	ON	170 W	5	
8	SLOT-08	N/A	N/A	5	N/A
9	SLOT-09	N/A	N/A	5	N/A
10	SLOT-10	Extension(2)	N/A	5	N/A
11	SLOT-11	N/A	N/A	5	N/A
12	SLOT-12	ON	125 W	5	PowerEdgeM600
13	SLOT-13	N/A	N/A	5	N/A
14	SLOT-14	ON	342 W	5	N/A
15	SLOT-15	ON	140 W	5	
16	SLOT-16	ON	125 W	5	N/A

 **NOTE:** Extended Power Performance (EPP) – related fields are displayed even if EPP is disabled.

getpminfo

Description Displays power management status information.
This subcommand is applicable only for CMC.
To run this subcommand, you must have the CMC Login User privilege.

Synopsis racadm getpminfo

Example:

```
racadm getpminfo
```

```
[Real-Time Power                               Statistics]
System Input Power                             = 600 W (188 BTU/hr)
Peak System Power                             = 600 W (188 BTU/hr)
Peak System Power Start Time                  = 16:02:10 01/16/2008
Peak System Power Timestamp                   = 06:32:55 01/26/2009
Minimum System Power                          = 400 W (177 BTU/hr)
Minimum System Power Start Time                = 22:43:21 01/21/2008
Minimum System Power Timestamp                 = 06:32:55 01/26/2009
System Idle Power                             = 68 W (188 BTU/hr)
```



```

System Potential Power           = 68 W (188 BTU/hr)
System Input Current Reading     = 31.2 A
[Real-Time Energy                Statistics]
System Energy Consumption        = 6.4 kWh
System Energy Consumption Start Time = 16:02:10 01/16/2008
System Energy Consumption Timestamp = 16:02:10 01/16/2008
[System Power                    Status]
Chassis Power State             = ON
Overall Power Health            = OK
Redundancy                      = No

```

getraclog

Description The **getraclog** command displays RAC or CMC log entries. When this command is run on Local RACADM, the data is available to RACADM as a USB partition and may display a pop-up message.

Synopsis `racadm getraclog -s <start record> -c <count>`

For CMC:

```
racadm getraclog -i [-A]
```

```
racadm getraclog [-A] [-c <count>] [-s <start-record>] [--more]
```

Input

- `-c` — Specifies the number of records to display. On Local RACADM, if this parameter is not specified, by default 100 logs are retrieved.
- `-i` — Displays the number of entries in the RAC or CMC log.
- `--more` — Displays one screen at a time and prompts you to continue (similar to the UNIX **more** command).
- `-s` — Specifies the starting record used for the display.
- `-A` — Displays the output with no headers or labels.



NOTE:

- If options are not provided, the entire log is displayed.
- `-i` option is not applicable for iDRAC.

Output

For iDRAC:

```

SeqNumber = 286
Message ID = USR0005
Category = Audit
AgentID = RACLOG
Severity = Information
Timestamp = 2012-10-05 06:25:27
Message = Login failed from processdisco06a: 10.92.68.245
Message Arg 1 = processdisco06a
Message Arg 2 = 10.92.68.245
FQDD = iDRAC.Embedded.1

```

Example

- Display the starting record and the number of records.

```
racadm getraclog -s 10 -c 2
```
- Display a few records and prompt to display another set of records.

```
$ racadm getraclog --more
Dec 4 22:23:09 CMC-JP4BF2S Login success from 10.94.46.52
(username=root, type=SSH, sid=16393)
Dec 4 22:24:54 CMC-JP4BF2S Login success from 10.94.46.52
(username=test, type=SSH, sid=35885)
Dec 4 22:26:20 CMC-JP4BF2S Login success from 10.94.46.52
(username=root, type=GUI, sid=27476)
Dec 4 22:28:06 CMC-JP4BF2S Mod password of user puser succeeds
Dec 4 22:28:06 CMC-JP4BF2S Mod privileges of user puser succeeds
Dec 4 22:28:21 CMC-JP4BF2S Login success from 10.94.46.52
(username=puser, type=SSH, sid=39229)
Dec 4 22:29:12 CMC-JP4BF2S Mod password of user nuser succeeds
Dec 4 22:29:12 CMC-JP4BF2S Mod privileges of user nuser succeeds
Dec 4 22:29:51 CMC-JP4BF2S SSH login failed (username=nuser,
ip=10.94.46.52, reason=Local user fails to login )
Dec 4 22:30:23 CMC-JP4BF2S last message repeated 3 times
Dec 4 22:30:23 CMC-JP4BF2S Mod privileges of user nuser succeeds
Dec 4 22:30:38 CMC-JP4BF2S SSH login failed (username=nuser,
ip=10.94.46.52, reason=Local user fails to login )
[more]
```
- Entry in the RAC log when Extended Power Performance control is enabled or disabled.

```
racadm getraclog
Jul 31 14:16:11 CMC-4C2WXF1 Log Cleared
Jul 31 14:15:49 CMC-4C2WXF1 Extended Power Performance is
Enabled
Jul 31 14:15:49 CMC-4C2WXF1 Extended Power Performance is
Disabled
```

getractive

Description Displays the current iDRAC time.

Synopsis

- `racadm getractive [-d]`
- `racadm getractive [-d] [-z] [-n]`

Input

- `-d` — Displays the time in the format, `yyyymmddhhmmss.mmmmmms`.
- `-z` — Displays timezone. This option is specific to CMC only.
- `-n` — Displays NTP peer information. This option is specific to CMC only.



NOTE: If the options are not provided, then the **getractive** subcommand displays the time in a common readable format.

Output The current iDRAC time is displayed.



Example

- ```
racadm getractive
Mon May 13 17:17:12 2013
```
- ```
racadm getractive -d
20130513171749
```

getredundancymode

- Description** Displays the redundancy status (Redundant or Non-Redundant) of the CMC.
This subcommand is applicable only for CMC.
To run this subcommand, you must have the CMC Login User privilege.
- Synopsis** `racadm getredundancymode`
- Example** `racadm getredundancymode`
Redundant

getsel

- Description** Displays all sensor event log entries in the DRAC.
- Synopsis**
- `racadm getsel -i [-A]`
 - `racadm getsel [-s<start>] [-c<count>] [-A] [-o] [-E] [-R] [--more]`
-  **NOTE:** If no arguments are specified, the entire log is displayed.
- Input**
- `-A` — Specifies output with no display headers or labels.
 - `-c` — Displays the number of records.
 - `-o` — Displays each entry in the SEL in a single line.
 - `-s` — Specifies the starting record used for the display.
 - `-E` — Displays RAW SEL data with the other data for each entry.
 - `-R` — Displays only RAW SEL data for each entry.
 - `-i` — Displays the number of entries in the SEL.
 - `--more` — Displays one screen at a time and prompts the user to continue (similar to the UNIX **more** command.)
-  **NOTE:** For CMC: the `-A`, `-E`, `-o` and `-R` options are deprecated.
- Output**
- ```
Record: 12
Date/Time: 11/20/2011 14:19:34
Source: system
Severity: Ok
Description:C:start completed.
```
- Example** `racadm getsel`

## getsensorinfo

- Description** Displays status for system sensors.  
To run this subcommand, you must have the login user privilege.
- Synopsis** `racadm getsensorinfo`

**Examples:**

For CMC:

racadm getsensorinfo

| <senType> | <Num> | <sensorName>     | <status> | <reading> | <units> | <lc> | <uc>  |
|-----------|-------|------------------|----------|-----------|---------|------|-------|
| FanSpeed  | 1     | Fan-1            | OK       | 4768      | rpm     | 2344 | 14500 |
| FanSpeed  | 2     | Fan-2            | OK       | 4873      | rpm     | 2344 | 14500 |
| FanSpeed  | 3     | Fan-3            | OK       | 4832      | rpm     | 2344 | 14500 |
| FanSpeed  | 4     | Fan-4            | OK       | 4704      | rpm     | 2344 | 14500 |
| FanSpeed  | 5     | Fan-5            | OK       | 4833      | rpm     | 2344 | 14500 |
| FanSpeed  | 6     | Fan-6            | OK       | 4829      | rpm     | 2344 | 14500 |
| FanSpeed  | 7     | Fan-7            | OK       | 4719      | rpm     | 2344 | 14500 |
| FanSpeed  | 8     | Fan-8            | NOT OK   | 1         | rpm     | 2344 | 14500 |
| FanSpeed  | 9     | Fan-9            | OK       | 4815      | rpm     | 2344 | 14500 |
| Temp      | 1     | Ambient_<br>Temp | OK       | 22        | celcius | N/A  | 40    |

| <senType> | <Num> | <sensorName> | <status>   | <AC-OK status> |
|-----------|-------|--------------|------------|----------------|
| PWR       | 1     | PS-1         | Online     | OK             |
| PWR       | 2     | PS-2         | Online     | OK             |
| PWR       | 3     | PS-3         | Online     | OK             |
| PWR       | 4     | PS-4         | Slot Empty | N/A            |
| PWR       | 5     | PS-5         | Failed     | OK             |
| PWR       | 6     | PS-6         | Slot Empty | N/A            |

| <senType> | <Num> | <sensorName> | <status> |
|-----------|-------|--------------|----------|
| Cable     | 1     | IO-Cable     | OK       |
| Cable     | 2     | FPC-Cable    | OK       |

For iDRAC:

Sensor Type : POWER

| <Sensor Name> | <Status> | <Type> |
|---------------|----------|--------|
| PS1 Status    | Present  | AC     |

Sensor Type : TEMPERATURE

| <Sensor Name>              | <Status> | <Reading> | <lc> | <uc> |
|----------------------------|----------|-----------|------|------|
| System Board<br>Inlet Temp | Ok       | 22 C      | -7 C | 47 C |

|                           |         |      |     |      |
|---------------------------|---------|------|-----|------|
| System Board Exhaust Temp | Ok      | 25 C | 3 C | 75 C |
| CPU1 Temp                 | Unknown | NA   | NA  | NA   |

Sensor Type : FAN

| <Sensor Name>          | <Status> | <Reading> | <lc>    | <uc> |
|------------------------|----------|-----------|---------|------|
| System Board Fan1A RPM | Ok       | 6240 RPM  | 720 RPM | NA   |
| System Board Fan2A RPM | Ok       | 6240 RPM  | 720 RPM | NA   |
| System Board Fan3A RPM | Ok       | 6360 RPM  | 720 RPM | NA   |
| System Board Fan4A RPM | Ok       | 6360 RPM  | 720 RPM | NA   |
| System Board Fan5A RPM | Ok       | 6360 RPM  | 720 RPM | NA   |
| System Board Fan6A RPM | Ok       | 6240 RPM  | 720 RPM | NA   |
| System Board Fan7A RPM | Ok       | 4800 RPM  | 720 RPM | NA   |
| System Board Fan1B RPM | Ok       | 5040 RPM  | 720 RPM | NA   |
| System Board Fan2B RPM | Ok       | 5040 RPM  | 720 RPM | NA   |
| System Board Fan3B RPM | Ok       | 5040 RPM  | 720 RPM | NA   |
| System Board Fan4B RPM | Ok       | 5040 RPM  | 720 RPM | NA   |
| System Board Fan5B RPM | Ok       | 5040 RPM  | 720 RPM | NA   |
| System Board Fan6B RPM | Ok       | 5160 RPM  | 720 RPM | NA   |
| System Board Fan7B RPM | Ok       | 3840 RPM  | 720 RPM | NA   |

Sensor Type : VOLTAGE

| <Sensor Name>        | <Status> | <Reading> | <lc> | <uc> |
|----------------------|----------|-----------|------|------|
| CPU1 VCORE PG        | Ok       | Good      | NA   | NA   |
| System Board 3.3V PG | Ok       | Good      | NA   | NA   |
| System Board 5V PG   | Ok       | Good      | NA   | NA   |

|                             |    |      |    |    |
|-----------------------------|----|------|----|----|
| CPU1 PLL PG                 | Ok | Good | NA | NA |
| System Board<br>1.1V PG     | Ok | Good | NA | NA |
| CPU1 M23 VDDQ<br>PG         | Ok | Good | NA | NA |
| CPU1 M23 VTT<br>PG          | Ok | Good | NA | NA |
| System Board<br>FETDRV PG   | Ok | Good | NA | NA |
| CPU1 VSA PG                 | Ok | Good | NA | NA |
| CPU1 M01 VDDQ<br>PG         | Ok | Good | NA | NA |
| System Board<br>NDC PG      | Ok | Good | NA | NA |
| CPU1 VTT PG                 | Ok | Good | NA | NA |
| System Board<br>1.5V PG     | Ok | Good | NA | NA |
| PS2 PG Fail                 | Ok | Good | NA | NA |
| System Board<br>PS1 PG Fail | Ok | Good | NA | NA |
| System Board<br>BP1 5V PG   | Ok | Good | NA | NA |
| CPU1 M01 VTT<br>PG          | Ok | Good | NA | NA |
| PS1 Voltage 1               | Ok | Good | NA | NA |

Sensor Type : CURRENT

| <Sensor Name>                      | <Status> | <Reading> | <lc> | <uc>       |
|------------------------------------|----------|-----------|------|------------|
| PS1 Current 1                      | Ok       | 0.0 Amps  | NA   | NA         |
| System Board<br>Pwr<br>Consumption | Ok       | 0 Watts   | NA   | 1218 Watts |

Sensor Type : PROCESSOR

| <Sensor Name> | <Status> | <State>              | <lc> | <uc> |
|---------------|----------|----------------------|------|------|
| CPU1 Status   | Ok       | Presence<br>Detected | NA   | NA   |
| CPU2 Status   | N/A      | Absent               | NA   | NA   |

Sensor Type : MEMORY

|                            |                       |                      |                   |                   |
|----------------------------|-----------------------|----------------------|-------------------|-------------------|
| DIMM SLOT A2               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT A3               | N/A                   | Absent               | NA                | NA                |
| <b>&lt;Sensor Name&gt;</b> | <b>&lt;Status&gt;</b> | <b>&lt;State&gt;</b> | <b>&lt;lc&gt;</b> | <b>&lt;uc&gt;</b> |
| DIMM SLOT A1               | Ok                    | Presence<br>Detected | NA                | NA                |
| DIMM SLOT A4               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT A5               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT A6               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT A7               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT A8               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT A9               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT A10              | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT A11              | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT A12              | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT B1               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT B2               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT B3               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT B4               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT B5               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT B6               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT B7               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT B8               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT B9               | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT B10              | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT B11              | N/A                   | Absent               | NA                | NA                |
| DIMM SLOT B12              | N/A                   | Absent               | NA                | NA                |

Sensor Type : BATTERY

|                              |                       |                        |                   |                   |
|------------------------------|-----------------------|------------------------|-------------------|-------------------|
| <b>&lt;Sensor Name&gt;</b>   | <b>&lt;Status&gt;</b> | <b>&lt;Reading&gt;</b> | <b>&lt;lc&gt;</b> | <b>&lt;uc&gt;</b> |
| System Board<br>CMOS Battery | Ok                    | Present                | NA                | NA                |

Sensor Type : PERFORMANCE

|                                    |                       |                       |                   |                   |
|------------------------------------|-----------------------|-----------------------|-------------------|-------------------|
| <b>&lt;Sensor Name&gt;</b>         | <b>&lt;Status&gt;</b> | <b>&lt;Status&gt;</b> | <b>&lt;lc&gt;</b> | <b>&lt;uc&gt;</b> |
| System Board<br>Power<br>Optimized | Ok                    | Not Degraded          | NA                | NA                |

Sensor Type : INTRUSION

| <Sensor Name>          | <Intrusion> | <Status> |
|------------------------|-------------|----------|
| System Board Intrusion | Closed      | Power ON |

Sensor Type : REDUNDANCY

| <Sensor Name>               | <Status>       | <Type> |
|-----------------------------|----------------|--------|
| System Board Fan Redundancy | Full Redundant | Fan    |
| System Board PS Redundancy  | Disabled       | PSU    |

Sensor Type : SD CARD

| <Sensor Name> | <State> |
|---------------|---------|
| vFlash        | Active  |

## getslotname

**Description** Displays the name and host name (if available) of all 16 slots, or of a specified slot (the slot number is indicated) in the chassis. Optionally, this command can be used to find if the slot name or host name is displayed in the CMC User Interface or with the `getslotname -i <slot ID>` command. If the host name is not available, the static slot name is used.

This subcommand is applicable only for CMC.

To use this subcommand, you must have the CMC Login User privilege.

**Synopsis**

```
racadm getslotname
racadm getslotname -i <slot ID>
racadm getslotname -h
```

**Input**

- `racadm getslotname` — Displays the slot name for all 16 slots in the chassis.
- `-i <slot ID>` — specifies the ID of the slot.  
Legal values: 1–16
- `-h` — Specifies whether to use the slot name or the host name (if available).  
1= use host names, 0=use slotnames

### Example

```
racadm getslotname
```

| <Slot #> | <Slot Name> | <Host name>     |
|----------|-------------|-----------------|
| 1        | SLOT-01     |                 |
| 2        | Webserver01 | WXP-8GRB221     |
| 3        | Webserver3  | WXP-319QWEecet5 |
| 4        | SLOT-04     |                 |
| 5        | SLOT-05     |                 |
| 6        | SLOT-06     |                 |
| 7        | SLOT-07     |                 |
| 8        | SLOT-08     |                 |
| 9        | SLOT-09     |                 |
| 10       | SLOT-10     |                 |
| 11       | SLOT-11     |                 |
| 12       | SLOT-12     |                 |
| 13       | SLOT-13     |                 |



```
14 SLOT-14
15 SLOT-15
16 SLOT-16
```

```
racadm getslotname -i 1
Webserver-1
```

## getssninfo

**Description** Displays a list of users that are connected to iDRAC. The following information is displayed:

- Session ID
- Username
- IP address (if applicable)
- Session type (for example, serial or Telnet)
- Login date and time in MM/DD/YYYY HH:MM:SS format



**NOTE:** Based on the Session ID (SSNID) or the user name (User), the iDRAC administrator can close the respective sessions or all the sessions using the, **closeasn** subcommand. For more information, see [closeasn](#).

**Synopsis** `racadm getssninfo [-u <username> | -u *] [-A]`

- Input**
- `-u` — displays only sessions associated with a specific user.
  - `-A` — does not display headers or labels.

### Examples

```
racadm getssninfo
```

| SSNID | -u  | User | IP Address   | Login Date/Time        |
|-------|-----|------|--------------|------------------------|
| 6     | GUI | root | 192.168.0.10 | 04/07/2010<br>12:00:34 |

```
racadm getssninfo -A
"root" "143.166.174.19" "Telnet" "NONE"
racadm getssninfo -A -u *
"root" "143.166.174.19" "Telnet" "NONE"
"bob" "143.166.174.19" "GUI" "NONE"
```

## getsvctag

**Description** Displays the Service Tag of the host system.

**Synopsis** `racadm getsvctag`

**Input** `getsvctag`

**Output** Y76TP0G

**Example** `racadm getsvctag`

# getsysinfo

## Description

Displays information related to iDRAC, CMC, managed system, and watchdog configuration.



**NOTE:** The local `racadm getsysinfo` subcommand on Linux displays the Prefix Length on separate lines for IPv6 Address 2 — IPv6 Address 15 and the Link Local Address.



**NOTE:** The host name and OS Name fields in the `getsysinfo` output display accurate information only if the **Dell OpenManage Server Administrator** is installed on the managed system. Else, these fields may be blank or inaccurate. An exception to this are VMware operating system names, which are displayed even if the **Server Administrator** is not installed on the managed system.

## Synopsis

```
racadm getsysinfo [-d] [-s] [-w] [-A] [-c] [-4] [-6]
```

## Input

- `-4` — Displays IPv4 settings
- `-6` — Displays IPv6 settings
- `-c` — Displays common settings
- `-d` — Displays iDRAC or CMC information
- `-s` — Displays system information
- `-w` — Displays watchdog information
- `-A` — Eliminates the printing of headers/labels



### NOTE:

- If the `-w` option is not specified, then the other options are used as defaults.
- `-s` and `-w` options are not valid on the M1000e systems.

## Output

```
racadm getsysinfo
RAC Information:
RAC Date/Time = Tue May 14 14:04:59 2013
Firmware Version = 1.40.40
Firmware Build = 13
Last Firmware Update = 05/10/2013 20:56:10
Hardware Version = 0.01
MAC Address = 90:B1:1C:11:3C:B7
```

```
Common settings:
Register DNS RAC Name = 0
DNS RAC Name = idrac-H1VGF2S
Current DNS Domain =
Domain Name from DHCP = Disabled
```

```
IPv4 settings:
Enabled = 1
Current IP Address = 10.94.136.108
Current IP Gateway = 10.94.136.1
Current IP Netmask = 255.255.255.0
DHCP Enabled = 1
Current DNS Server 1 = 0.0.0.0
Current DNS Server 2 = 0.0.0.0
DNS Servers from DHCP = Disabled
```

```
IPv6 settings:
```

```

Enabled = 0
Current IP Address 1 = ::
Current IP Gateway = ::
Autoconfig = 1
Link Local IP Address = ::
Current IP Address 2 = ::
Current IP Address 3 = ::
Current IP Address 4 = ::
Current IP Address 5 = ::
Current IP Address 6 = ::
Current IP Address 7 = ::
Current IP Address 8 = ::
Current IP Address 9 = ::
Current IP Address 10 = ::
Current IP Address 11 = ::
Current IP Address 12 = ::
Current IP Address 13 = ::
Current IP Address 14 = ::
Current IP Address 15 = ::
DNS Servers from DHCPv6 = Disabled
Current DNS Server 1 = ::
Current DNS Server 2 = ::

```

```

System Information:
System Model = PowerEdge R520
System Revision = I
System BIOS Version = 1.5.0
Service Tag = H1VGF2S
Express Svc Code = 37118600020
Host Name =
OS Name =
OS Version =
Power Status = ON
Fresh Air Capable = Yes

```

```

Watchdog Information:
Recovery Action = None
Present countdown value = 15 seconds
Initial countdown value = 15 seconds

```

```

Embedded NIC MAC Addresses:
NIC.Embedded.1-1-1 Ethernet = 90:B1:1C:11:3C:B5
 WWN = 90:B1:1C:11:3C:B5
NIC.Embedded.2-1-1 Ethernet = 90:B1:1C:11:3C:B6
 WWN = 90:B1:1C:11:3C:B6

```

### Examples

- `racadm getsysinfo -A -s`  

```

""System Information:" "PowerEdge R520" "I" "1.5.0" "H1VGF2S" "37118600020"
"" "" "" "ON" "Fresh Air Capable:" "Yes" "Embedded NIC MAC Addresses:"
"90:B1:1C:11:3C:B5" "90:B1:1C:11:3C:B5" "90:B1:1C:11:3C:B6" "90:B1:1C:
11:3C:B6"

```
- `racadm getsysinfo -w -s`

```

System Information:
System Model = PowerEdge R520
System Revision = I
System BIOS Version = 1.5.0
Service Tag = H1VGF2S
Express Svc Code = 37118600020

```

```
Host Name =
OS Name =
OS Version =
Power Status = ON
Fresh Air Capable = Yes
```

```
Watchdog Information:
Recovery Action = None
Present countdown value = 15 seconds
Initial countdown value = 15 seconds
```

```
Embedded NIC MAC Addresses:
NIC.Embedded.1-1-1 Ethernet = 90:B1:1C:11:3C:B5
 WWN = 90:B1:1C:11:3C:B5
NIC.Embedded.2-1-1 Ethernet = 90:B1:1C:11:3C:B6
 WWN = 90:B1:1C:11:3C:B6
```

## gettracelog


**Description** Lists all the trace login entries iDRAC and CMC.

**Synopsis**

- `racadm gettracelog -i [-A]`
- `racadm gettracelog [-s <start>] [-c <count>] [--more] [-A] [-o]`

**Input**

- `-i` — Displays the number of entries in iDRAC trace log.
- `--more` — Displays one screen at a time and prompts the user to continue (similar to the UNIX `more` command).
- `-o` — Displays each entry in a single line.
- `-c` — Specifies the number of records to display.
- `-s` — Specifies the starting record to display.
- `-A` — Does not display headers or labels.

 **NOTE:** For CMC: the `-A` and `-o` options are deprecated.

**Output** The default output display shows the record number, timestamp, source and description. The timestamp begins at midnight, January 1 and increases until the system startx. After the system starts, the system's timestamp is used.

**Example**

```
Record: 1
Date/Time: Dec 8 08:21:30
Source: ssnmgrd[175]
Description: root from 143.166.157.103: session timeout
sid 0be0aef4
```

## getversion

**Description** Displays the current software version, model and generation information, and whether the target device can be updated.

To use this subcommand, you must have a login user privilege.

**Synopsis**

- `racadm getversion [-b | -c] [-m <module>]`

- `racadm getversion -l [-m <module>] [-f <filter>]`
- `racadm getversion`

### Input

- `(none)` — Displays the version information for all targets or devices.
- `-m <module>` — Specifies the module or device for which you want to retrieve the version information.  
`<module>` is one of the following:
  - `server-nx` where `n=1-8`; `x= a, billion, c,d`
  - `cmc-n` where `n= 1 or 2`. For example, `cmc-2`.
- `-c` — Displays the server's current CPLD version.
- `-b` — Displays the server's current BIOS version (default is iDRAC version).
- `-l` — Displays the firmware versions of available server components.
- `-f <filter>` — Filters the components. Must be used with `-l` and be one of the following values:
  - `bios: BIOS`
  - `idrac: iDRAC`
  - `usc: Lifecycle Controller (Unified Server Configurator)`
  - `diag: 32-bit Diagnostics`
  - `drivers: OS Driver Package`
  - `nic-x: Network Interface card`. See `-l` output for possible values of `x`
  - `raid-x: Raid Controller`. See `-l` output for possible values of `x`



**NOTE:** The `-b`, `-c` and `-l` options are not available for CMC modules.



**NOTE:** The `-l` option requires that the Lifecycle Controller service is enabled on the servers. For version information, see the RACADM Readme available at [dell.com/support/manuals](http://dell.com/support/manuals).

### Example

- `racadm getversion`
- `racadm getversion -f idrac`

### Example

```
racadm getversion -m server-1
```

| <server> | <iDRAC version>       | <Blade Type>        | <Gen>  | <Updatable> |
|----------|-----------------------|---------------------|--------|-------------|
| server-1 | 1.40.40<br>(Build 08) | PowerEdge M520      | iDRAC7 | Y           |
| server-2 | 3.50 (Build 2)        | PowerEdgeM610x      | iDRAC6 | Y           |
| server-4 | 3.50 (Build 4)        | PowerEdgeM710H<br>D | iDRAC6 |             |

```
racadm getversion -c
```

| <Server> | <CPLD Version> | <Blade Type>  |
|----------|----------------|---------------|
| server-1 | 1.0.5          | PowerEdgeM520 |

|          |       |                 |
|----------|-------|-----------------|
| server-2 | 1.0.3 | PowerEdgeM610x  |
| server-4 | 1.0.0 | PowerEdgeM710HD |
| server-5 | 1.0.3 | PowerEdgeM710   |
| server-7 | 1.0.6 | PowerEdgeM620   |
| server-9 | 1.0.5 | PowerEdgeM520   |

| <b>&lt;Switch&gt;</b> | <b>&lt;Model Name&gt;</b>  | <b>&lt;HW Version&gt;</b> | <b>&lt;FW Version&gt;</b> |
|-----------------------|----------------------------|---------------------------|---------------------------|
| switch-1              | MXL 10/40GbE               | X01                       | 9-2 (0-296)               |
| switch-2              | M8024-k 10GbE SW           | A00                       | 5.0.1.3                   |
| switch-3              | Dell PowerConnect<br>M8024 | X00                       |                           |
| switch-4              | Dell PowerConnect<br>M8024 | X00                       |                           |
| switch-5              | Dell PowerConnect<br>M6348 | X02                       |                           |
| switch-6              | Dell PowerConnect<br>M6220 | A01                       |                           |

racadm getversion -b

| <b>&lt;Server&gt;</b> | <b>&lt;BIOS Version&gt;</b> | <b>&lt;Blade Type&gt;</b> |
|-----------------------|-----------------------------|---------------------------|
| server-1              | 1.6.0                       | PowerEdgeM520             |
| server-2              | 6.3.0                       | PowerEdgeM610x            |
| server-4              | 7.0.0                       | PowerEdgeM710HD           |
| server-5              | 6.3.0                       | PowerEdgeM710             |
| server-7              | 1.7.1                       | PowerEdgeM620             |
| server-9              | 1.7.1                       | PowerEdgeM520             |

| <b>&lt;Switch&gt;</b> | <b>&lt;Model Name&gt;</b>  | <b>&lt;HW Version&gt;</b> | <b>&lt;FW Version&gt;</b> |
|-----------------------|----------------------------|---------------------------|---------------------------|
| switch-1              | MXL 10/40GbE               | X01                       | 9-2 (0-296)               |
| switch-2              | M8024-k 10GbE SW           | A00                       | 5.0.1.3                   |
| switch-3              | Dell PowerConnect<br>M8024 | X00                       |                           |
| switch-4              | Dell PowerConnect<br>M8024 | X00                       |                           |

```

switch-5 Dell PowerConnect X02
 M6348

switch-6 Dell PowerConnect A01
 M6220

```

```
racadm getversion -l -m server-1
```

| <i>&lt;Server&gt;</i> | <i>&lt;Component&gt;</i>                                            | <i>&lt;Version&gt;</i> | <i>&lt;Install Date&gt;</i> |
|-----------------------|---------------------------------------------------------------------|------------------------|-----------------------------|
| server-1              | BIOS                                                                | 1.6.0                  | 2013-01-09                  |
|                       | iDRAC1.40.40                                                        | 1.40.40                | 2013-01-31                  |
|                       | USC                                                                 | 1.1.5.154              | 2013-04-16                  |
|                       | Diagnostics                                                         | 4225A2                 | 2012-12-21                  |
|                       | OS Drivers                                                          | 7.2.0.7                | 2012-12-21                  |
|                       | BIOS                                                                | 1.5.2                  | Rollback                    |
|                       | BP12G+ 0:1                                                          | 0.16                   | Reinstall                   |
|                       | iDRAC                                                               |                        | Rollback                    |
|                       | System CPLD                                                         | 1.0.5                  | 1999-12-31                  |
|                       | NIC-Broadcom<br>Gigabit Ethernet<br>BCM5720 - BC:30:5B:<br>97:06:C4 | 7.6.6                  | Rollback                    |
|                       | NIC-Broadcom<br>Gigabit Ethernet<br>BCM5720 - BC:30:5B:<br>97:06:C4 | 7.6.12                 | Reinstall                   |
|                       | NIC-Broadcom<br>Gigabit Ethernet<br>BCM5720 - BC:30:5B:<br>97:06:C4 | 7.6.12                 | 2013-04-02                  |
|                       | NIC-Broadcom<br>Gigabit Ethernet<br>BCM5720 - BC:30:5B:<br>97:06:C6 | 7.6.6                  | Rollback                    |
|                       | NIC-Broadcom<br>Gigabit Ethernet<br>BCM5720 - BC:30:5B:<br>97:06:C6 | 7.6.12                 | Reinstall                   |
|                       | NIC-Broadcom<br>Gigabit Ethernet<br>BCM5720 - BC:30:5B:<br>97:06:C6 | 7.6.12                 | 2013-04-02                  |

|                          |              |            |
|--------------------------|--------------|------------|
| NIC-PERC S110 Controller | 3.0.0-0139   | 2012-10-11 |
| RAID-PERC H310 Mini      | 20.10.1-0084 | Reinstall  |
| RAID-PERC H310 Mini      | 20.10.1-0084 | Reinstall  |
| RAID-PERC H310 Mini      | 20.10.1-0084 | 2012-02-09 |
| BP12G+ 0:1               | 0.16         | 1999-12-31 |

```
racadm getversion -l -m server-1 -f bios
```

| <i>&lt;Server&gt;</i> | <i>&lt;Component&gt;</i> | <i>&lt;Version&gt;</i> | <i>&lt;Install Date&gt;</i> |
|-----------------------|--------------------------|------------------------|-----------------------------|
| server-1              | BIOS                     | 1.6.0                  | 2013-01-09                  |

## hwinventory

### Description

Allows you to display or export current internal hardware inventory or shipped hardware inventory by device.

This subcommand is applicable only for iDRAC.

To use this subcommand, you must have the login privilege.

### Synopsis

- `racadm hwinventory`
- `racadm hwinventory NIC|FC`
- `racadm hwinventory <FQDD>`
- `racadm hwinventory export -f <filename> -u <username> -p <password> -l <CIFS or NFS share>`
- `racadm -r <idrac ip> -u <idrac username> -p <idrac password>> hwinventory export -f <filename> -u <username> -p <password> -l <CIFS or NFS share>`

### Input

- `<FQDD>` — Specifies the FQDD of the target device.
  - `FQDD` — `NIC.Slot.1-2`
- `-f` — Exported Hardware Inventory filename.
- `-u` — Username of the remote share to where the file must be exported. Specify user name in a domain as **domain/username**
- `-p` — Password for the remote share to where the file must be exported.
- `-l` — Network share location to where the Hardware Inventory must be exported.

### Examples

To view all the NIC devices on managed server:

```
[SH7757 ~]$ racadm hwinventory NIC
NIC FQDD "NIC.Slot.5-2-1" Available
NIC FQDD "NIC.Slot.5-2-2" Available
NIC FQDD "NIC.Slot.5-2-3" Available
NIC FQDD "NIC.Slot.5-2-4" Available
NIC FQDD "NIC.Slot.5-1-1" Available
```



NIC FQDD "NIC.Slot.5-1-2" Available  
NIC FQDD "NIC.Slot.5-1-3" Available  
NIC FQDD "NIC.Slot.5-1-4" Available

**To display the Standard hardware inventory verbose description for the FQDD NIC.Embedded.1-1-2**

```
[SH7757 ~]$ racadm hwinventory NIC.Slot.5-2-2
Attributes for NIC FQDD NIC.Slot.5-2-2
Current MAC Address: B8:AC:6F:B3:BF:13
Vendor ID: 1077
Subvendor ID: 1028
Device ID: 8020
Subdevice ID: 045f
Perm iSCSI MAC Address:
Slot Type: b6
Data Bus Width: b
Slot Length: 4
Perm FCoE MAC Address:
PCI Bus: 3
PCI Device: 0
PCI Function: 0x0001
Update Time: 0x4d2920fe
Sync Time: 0x0000
Product Name: QLogic CNA Gigabit Ethernet-B8:AC:6F:B3:BF:1
Permanent MAC Address: B8:AC:6F:B3:BF:11
WWPN: ½.
Family Version: 0x00
Controller BIOS Version: 0x00
EFI Version: 0x00
Max Bandwidth: 0x64
Min Bandwidth: 0x00
Current Commit Index: 0x00
FCoE WWNN: 0x00
Vendor Name: 0x00
Ports Count: 0x00
Number PCIE Functions Supported: 0x00
Number PCIE Functions Enabled: 0x00
Link Duplex: 0x0
Link Speed: 0
Auto Negotiation: 0x0
Transmit Flow Control: 0x0
Receive Flow Control: 0x0
Media Type: 0
Status Flag: 0x0
Nic Mode: 1
FCoE Offload Mode: 0
iScsi Offload Mode: 0
reserved: 0x00
```

**To export the inventory to a remote CIFS share:**

```
racadm hwinventory export -f Myinventory.xml -u admin -p mypass
-l //1.2.3.4/share
```

**To export the inventory to a remote NFS share:**

```
racadm hwinventory export -f Myinventory.xml -u admin -p mypass
-l 1.2.3.4:/share
```

**To export the inventory to local file system using local Racadm:**

```
racadm hwinventory export -f Myinventory.xml
```

**To display the Standard hardware inventory verbose description for the FC.Slot.2-1**

```
racadm hwinventory FC.Slot.2-1
PCI Vendor ID: 1077
```

```

PCI Sub Vendor ID: 1077
PCI Device ID: 2532
PCI Sub Device ID: 015c
PCI Bus: 67
PCI Device: 0
PCI Function: 0
Vendor Name: Unavailable
Device Name: QLogic QLE2560 8Gb Fibre Channel
Adapter - 21000024FF089D8A
WWN: 20:00:00:24:FF:08:9D:8A
VirtWWN: 20:00:00:24:FF:08:9D:8A
WWPN: 21:00:00:24:FF:08:9D:8A
VirtWWPN: 21:00:00:24:FF:08:9D:8A
Chip Type: ISP2532
Family Version: 02.57.14
EFI Version: 2.34
OS Driver Version: Unavailable
First FC Target WWPN: 50:06:01:60:44:60:28:8C
First FC Target LUN: 0
Second FC Target WWPN: 00:00:00:00:00:00:00:00
Second FC Target LUN: 0
Hard Zone Address: 0
Hard Zone Enable: Disabled
FC Tape Enable: Disabled
Loop reset Delay: 5
Frame Payload Size : 2048
Fabric Login Retry Count: 0
Fabric Login Timeout: 0
Port Login Retry Count: 8
Port Login Timeout: 3000
Port Down Retry Count: 45
Port Down Timeout: 0
Link Down Timeout: 45000
Port Number: 1
Port Speed: 0
No capabilities found for FQDD "FC.Slot.2-1"
/adminl-> racadm hwinventory FC.Slot.3-1
PCI Vendor ID: 1077
PCI Sub Vendor ID: 1077
PCI Device ID: 2031
PCI Sub Device ID: 0256
PCI Bus: 4
PCI Device: 0
PCI Function: 0
Vendor Name: QLogic
Device Name: QLogic QLE2660 16Gb FC Adapter -
2001000E1E091075
WWN: 20:00:00:0E:1E:09:10:75
VirtWWN: 20:00:00:0E:1E:09:10:75
WWPN: 20:01:00:0E:1E:09:10:75
VirtWWPN: 20:01:00:0E:1E:09:10:75
Chip Type: 8324, Rev. 02
Family Version: 02.00.84
EFI Version: 5.30
OS Driver Version: 9.1.10.27
First FC Target WWPN: 00:00:00:00:00:00:00:00
First FC Target LUN: 0
Second FC Target WWPN: 00:00:00:00:00:00:00:00
Second FC Target LUN: 0
Hard Zone Address: 0
Hard Zone Enable: Disabled
FC Tape Enable: Disabled
Loop reset Delay: 5
Frame Payload Size : 2048

```

```

Fabric Login Retry Count: 0
Fabric Login Timeout: 0
Port Login Retry Count: 8
Port Login Timeout: 3000
Port Down Retry Count: 30
Port Down Timeout: 0
Link Down Timeout: 30000
Port Number: 1
Port Speed: 0
Max Number of IOs per connection supported: 9
Maximum number of Logins per port: 8
Maximum number of exchanges: 9
Maximum NPIV per port: 1
Maximum number of FC Targets supported: 8
Maximum number of outstanding commands across all connections: 9
Flex Addressing: Capable
UEFI: Capable
FC Start: Capable
On Chip Thermal Sensor: Capable
Feature Licensing: Not Capable

```

## ifconfig

**Description** Displays the contents of the network interface table.  
 To use this subcommand for CMC, you must have the Administrator privilege and for iDRAC, you must have the Execute Diagnostic Commands permission.

**Synopsis** `racadm ifconfig`

### Example

```

$ racadm ifconfig

eth0 Link encap:Ethernet HWaddr 00:1D:09:FF:DA:23
 inet addr:10.35.155.136 Bcast:10.35.155.255 Mask:
 255.255.255.0
 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
 RX packets:2550665 errors:0 dropped:0 overruns:0
 frame:0
 TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
 collisions:0 txqueuelen:1000
 RX bytes:272532097 (259.9 MiB) TX bytes:0 (0.0 B)

```

## inlettemphistory

**Description** Exports the inlet temperature history data file. The file can be exported to a remote file share, local file system, or the management station.  
 Displays the average and the peak temperatures during the last hour, day, week, month, or year.  
 This subcommand is applicable only for iDRAC.

### Synopsis

- `racadm inlettemphistory export -f <filename> -t <type> -u <username of the network share> -p <password for the remote share>`
- `racadm inlettemphistory get`

## Input

Options for:

```
racadm inlettemphistory export
```

Subcommand:

- `-f` — Exports inlet temperature history filename. The maximum length of this parameter is 64 characters.



**NOTE:** If a file with the specified filename exists, then the older file is replaced with the new history file.

- `-u` — User name of the remote share to export the file. Specify user name in a domain as domain or username.
- `-p` — Password for the remote share to where the file must be exported.
- `-l` — Network share location to where the inlet temperature history must be exported. The maximum length of this parameter is 256 characters.



**NOTE:** Export to an IPv6 NFS share is not supported.

- `-t` — Specifies the exported file type. Valid values are **xml** and **csv**. These values are case-insensitive.



**NOTE:** From firmware RACADM, only export to a remote share is supported. The behavior of remote share is not defined when the path specified (`-l`) contains special characters.

## Example

- Export the log to a remote CIFS share.

```
racadm inlettemphistory export -f Mylog.xml -u admin -p mypass -l //1.2.3.4/share -t xml
```

- Export the log to local file system using Local RACADM.

```
racadm inlettemphistory export -f Mylog.xml -t xml
```

- Export the log to management station using Remote RACADM.

```
racadm -r 1.2.3.4 -u user -p pass inlettemphistory export -f Mylog.csv -t csv
```

- View the inlet temperature history.

```
racadm inlettemphistory get
```

```
Duration Above Warning Threshold as Percentage = 0.0%
Duration Above Critical Threshold as Percentage = 0.0%
```

Average Temperatures

```
Last Hour = 23C (73.4F)
Last Day = 24C (75.2F)
Last Week = 24C (77.0F)
Last Month = 25C (77.0F)
Last Year = 23C (73.4F)
```


Peak Temperatures

```
Last Hour = 23C (73.4F) [At Wed, 30 May 2012 11:00:57]
Last Day = 25C (77.0F) [At Tue, 29 May 2012 15:37:23]
Last Week = 27C (80.6F) [At Fri, 25 May 2012 10:38:20]
Last Month = 29C (84.2F) [At Wed, 16 May 2012 15:34:13]
Last Year = 29C (84.2F) [At Wed, 16 May 2012 15:34:13]
```

## jobqueue

### Description

Enables you to view and delete a job or jobs in the current JobQueue.  
This subcommand is applicable only for iDRAC.

 **NOTE:** To run this subcommand, you must have the Server Profile Export and Import license.

### Synopsis

```
racadm jobqueue view -i<jobid>
```

where valid option is `-i`. This option specifies the jobid that is displayed.

```
racadm jobqueue delete [-i<jobid>][--all]
```

where valid options are `-i` and `--all`.

```
racadm jobqueue create <fqdd> [-r <reboot type>] [-s
<start time>] [-e <expiry time>]
```

### Input

- `-i` — Specifies a JobID that is displayed or deleted.
- `--all` — The JobIDs which are not applied are deleted.
- `-fqdd` — Specifies an FQDD for which a job has to be created.
- `-r <reboot type>` — Specifies a reboot type.
  - `none` — No Reboot Job. This option is the default value.
  - `pwrcycle` — PowerCycle.
  - `graceful` — Graceful Reboot without forced shutdown.
  - `forced` — Graceful Reboot with forced shutdown.
- `start time` — Specifies a start time for job scheduled in `yyyymmddhhmmss` format. `TIME_NOW` means immediate.
- `expiry time` — Specifies expiry time for the job execution in `yyyymmddhhmmss` format. `TIME_NA` means expiry time is not applicable.

### Example

- View Jobs in the Current JobQueue.

```
racadm jobqueue view
```
- View Jobs in the Current JobQueue and display the specific JobID.

```
racadm jobqueue view -i <JobID>
```
- Delete all possible Jobs from the Current JobQueue.

```
racadm jobqueue delete --all
```
- Delete a specific Job from the Current JobQueue.

```
racadm jobqueue delete -i <JobID>
```
- Create a Job for the provided FQDD and add to the job queue.

```
racadm jobqueue create <fqdd> [-r <reboot type>] [-s
<start time>] [-e <expiry time>]
```

```
racadm jobqueue create NIC.Integrated.1-1 -r pwrcycle -
s TIME_NOW -e 20120501100000
```

## krbkeytabupload

### Description

Uploads a **Kerberos keytab** file to CMC.

This subcommand is applicable only for CMC.

To run this subcommand, you must have the Configure iDRAC permission.

### Synopsis

```
racadm krbkeytabupload [-f <filename>]
```

<filename> is the name of the file including the path.

**Input** -f — Specifies the filename of the keytab uploaded. If the file is not specified, the keytab file in the current directory is selected.

**Output** Returns 0 when successful and nonzero number when unsuccessful.

**Example** racadm krbkeytabupload -f c:\keytab\krbkeytab.tab


## lclog

**Description** Allows you to:

- Export the lifecycle log history. The log exports to a remote share or a local system.
- View the lifecycle log for a particular device or category
- Add comment to a record in lifecycle log
- Add a worknote(an entry) in the lifecycle log

To run this subcommand, you must have the Configure iDRAC permission.

This subcommand is applicable only for iDRAC.

 **NOTE:** When you run this command on Local RACADM, the data is available to RACADM as a USB partition and may display a pop-up message.

### Synopsis

```
racadm lclog view -i <number of records> -a <agent id> -c
<category> -s <severity>
-b <sub-category> -q <sequence no.> -n <number of records> -r
<start timestamp> -e <end timestamp>
```

```
racadm lclog comment edit -q <sequence number> -m <Text to be
added>
```

```
racadm lclog export -f <filename> -u <username> -p <password> -l
<CIFS or NFS share>
```

```
racadm lclog export -f <filename> -u <username> -p <password> -l
<CIFS or NFS share> --complete
```

```
racadm -r <idracip> -u <idrac username> -p <idrac password> lclog
export -f <filename> -u <username> -p <password> -l <CIFS or NFS
share>
```


```
racadm -r <idracip> -u <idrac username> -p <idrac password> lclog
export -f <filename> -u <username> -p <password> -l <CIFS or NFS
share> --complete
```




### Input

- -i — Displays the number of records present in the active log. You cannot use this option with any other option.
- -a — The agent ID used to filter the records. Only one agent ID is accepted. The value is case-insensitive. Valid Agent-ID values:

```
- UEFI_SS_USC
- CusOsUp
- UEFI_Inventory
- iDRAC
- UEFI_DCS
- SEL
- RACLOG
```

- DE
- WSMAN
- RACADM
- iDRAC\_GUI
- -c — The category used to filter the records. Provides multiple categories using a "," as the delimiter. The value is case-insensitive. Valid category values:
  - System
  - Storage
  - Worknotes
  - Config
  - Updates
  - Audit
- -b — The subcategory used to filter the records. Provides multiple subcategories using a "a" as the delimiter.
- -q — The sequence number from which the records must be displayed.
 

 **NOTE:** This parameter input is an integer. If an alphanumeric input is provided, then invalid subcommand syntax error is displayed.
- -n — Specifies the n number of records that must be displayed. On Local RACADM, if this parameter is not specified, by default 100 logs are retrieved.
- -r — Displays events that have occurred after this time. The time format is yyyy-mm-dd HH:MM:SS. The time stamp must be provided within double quotation marks.
- -e — Displays events that have occurred before this time. The time format is yyyy-mm-dd HH:MM:SS. The time stamp must be provided within double quotation marks.
- -f <filename> — Specifies the file location and name where lifecycle log is exported.
- -a <name> — Specifies the FTP Server IP address or FQDN, user name, and password.
- -d <path> — Specifies the path to the file on the FTP server.
- -l <location> — Specifies the location of the network share or area on file system where lifecycle log is exported. Two types of network shares are supported:
  - SMB-mounted path: //<ipaddress or domain name>/<share\_name>/<path to image>
  - NFS-mounted path: <ipaddress>:/<path to image>.
- -u <user> — Specifies the user name for accessing the FTP server, or Domain and user name for accessing network share location.
- -p <password> — Specifies the password for accessing the FTP server or share location.
- -s — The severity used to filter the records. Provide multiple severities using a "," as the delimiter. The value is case-insensitive. Valid Severity values:
  - Warning
  - Critical
  - Info
- <FQDD|Alias> — Specifies the FQDD or FQDD alias of the target device.
- <CATEGORY> — Specifies the category of Lifecycle log entries to view. Possible values are:
  - all
  - iDRAC
  - Inventory
  - ConfigurationService
  - JobControl

- RemoteUpdate
- OsDeployment
- USC
- Other
- -m <Comment> — User comment string for a record that must be inserted in the Lifecycle Controller log. This comment string must be less than 128 characters. The text must be specified within double quotation mark.
  -  **NOTE:** HTML-specific characters may appear as escaped text.
- -m <Worknote> — Adds a worknote (an entry) in the Lifecycle log. This worknote must be less than 256 characters. The text must be specified within double quotation mark.
  -  **NOTE:** HTML-specific characters may appear as escaped text.
-  **NOTE:** To view or export the Lifecycle log, you need the Login to iDRAC permission only.
- --complete — Export the complete Lifecycle log as a compressed file. The exported file will be of the type **.xml.gz**.

### Example

- Display the number of records present in the Lifecycle log.
 

```
racadm lclog view -i
```
- Display the iDRAC agent `idrac` records, under the storage category and storage physical disk drive subcategory, with severity set to `warning`.
 

```
racadm lclog view -a idrac -c storage -b pdr -s warning
```
- Display the records under storage and system categories with severities set to `warning` or `critical`.
 


```
racadm lclog view -c storage,system -s warning,critical
```
- Display the records having severities set to `warning` or `critical`, starting from sequence number 4.
 

```
racadm lclog view -s warning,critical -q 4
```
- Display 5 records starting from sequence number 20.
 

```
racadm lclog view -q 20 -n 5
```
- Display all records of events that have occurred between 2011-01-02 23:33:40 and 2011-01-03 00:32:15.
 

```
racadm lclog view -r "2011-01-02 23:33:40" -e "2011-01-03 00:32:15"
```
- Display all the available records from the active Lifecycle log.
 

```
racadm lclog view
```

  -  **NOTE:** If output is not returned when this command is used remotely, then retry increasing the remote RACADM timeout value. To increase the timeout value, run the command `racadm set iDRAC.Racadm.Timeout <value>`. Alternatively, you can retrieve few records.
- Add a comment to record number 5 in the Lifecycle log.
 

```
racadm lclog comment edit -q 5 -m "This is a test comment."
```
- Add a worknote to the Lifecycle log.
 

```
racadm lclog worknote add -m "This is a test worknote."
```
- Export the Lifecycle log to a remote CIFS share.
 

```
racadm lclog export -f Mylog.xml -u admin -p mypass -l // 10.94.161.103/share
```



- Export the complete Lifecycle log in gzip format to a remote CIFS share.  

```
racadm lclog export -f log.xml.gz -u admin -p mypass -l //
10.94.161.103/share --complete
```
- Export the Lifecycle log to a remote NFS share.  

```
racadm lclog export -f Mylog.xml -l 10.94.161.103:/home/
lclog_user
```
- Export the Lifecycle log to a local share using Local RACADM.  

```
racadm lclog export -f Mylog.xml
```
- Export the complete Lifecycle log in gzip format to a local share using Local RACADM.  

```
racadm lclog export -f log.xml.gz --complete
```
- Export the Lifecycle log lclog to a local share using Remote RACADM.  

```
racadm -r 10.94.161.119 -u root -p calvin lclog export -f
Mylog.xml
```

## license

**Description** Manages the hardware licenses.  
This subcommand is applicable only for iDRAC.


**Synopsis**


- `racadm license view`
- `racadm license view [-c <component>]`
- `racadm license import [-f <licensefile>] -l <location> -c <component>`
- `racadm license export [-f <license file>] -e <ID> -c <component>`
- `racadm license delete -e <ID> -l <location> [-f] -c <component> -t <transaction ID>`
- `racadm license delete -t <transaction ID>`
- `racadm license delete -e <entitlement ID>`
- `racadm license delete -c <component>`
- `racadm license replace -t 1`
- `racadm license replace -u <username> -p <password> -f <license file name> -l <NFS/CIFS share> -t <transaction ID>`


**Input**

- `view` — View license information.
- `import` — Installs a new license.
- `export` — Exports a license file.
- `delete` — Deletes a license from the system.
- `replace` — Replaces an older license with a given license file.
- `-l <remote share location>` — Network share location from where the license file must be imported.  
If the file is on a shared location, then `-u <share user>` and `-p <share password>` must be used.
- `-f` — Filename or path to the license file
- `-e <ID>` — Specifies the entitlement ID of the license file that must be exported
- `-t<ID>` — Specifies the transaction ID.
- `-c<component>` — Specifies the component name on which the license is installed.

- `-o` — Overrides the End User License Agreement (EULA) warning and imports, replaces or deletes the license.

 **NOTE:** For license operations, `<license file name>` name must be less than 56 Characters.

 **NOTE:** During Remote file share, SSH/telnet supports Import and Export options.

 **NOTE:** Only a user with Administrator privileges can run the `import`, `export`, `delete`, and `replace` commands. You do not need the Administrator privileges to run the `view` command.

## Examples

- View all License Information on System.

```
$racadm license view

iDRAC.Embedded.1
 Status = OK
 Device = iDRAC.Embedded.1
 Device Description = iDRAC7
 Unique Identifier = H1VGF2S
 License #1
 Status = OK
 Transaction ID = 5
 License Description = iDRAC7 Enterprise License
 License Type = PERPETUAL
 Entitlement ID = Q3XJmvoxZdJVSuZemDehlcrd
 License Bound = H1VGF2S
 Expiration = Not Applicable
```

- Import a new license to a specific device in a known location.

```
$racadm license import -f license.xml -l //shareip/sharename
-u <share user> -p <share user password> -c idrac.embedded.1
```

- Import a license from a CIFS share to a device, in this case Embedded iDRAC.

```
racadm license import -u admin -p passwd -f License.xml
-l //192.168.2.140/licshare -c idrac.embedded.1
```

- Import a license from an NFS share to a device, in this case Embedded iDRAC.

```
racadm license import -f Licen.xml -l 192.168.2.14:/share
-c idrac.embedded.1
```

- Import a license by overriding the EULA warning.

```
racadm license import -u admin -p passwd -f License.xml
-l //192.168.2.140/licshare -c idrac.embedded.1 -o
```

- Import a license from the local filesystem using Local RACADM.

```
racadm license import -f License.xml -c idrac.embedded.1
```

- Import a license from the local filesystem using Remote RACADM.

```
racadm license import -f C:\Mylicdir\License.xml -c
idrac.embedded.1
```

- Export a license file.

```
racadm license export -f <filename> -l <share location>
-u <share username> -p <share password> -c iDRAC.Embedded.1
```

Instead of `-c`, you can use `-e <ID>` or `-t <ID>`

For Remote RACADM, if filename is not specified, the files are exported to the directory where RACADM is running.

- Export license to an NFS share using transaction ID, in this case transaction 27.  

```
racadm license export -f License.xml -l 192.168.2.140:/licshare -t 27
```
- Export license to a CIFS share specifying the entitlement ID, in this case abcdxyz.  

```
racadm license export -u admin -p passwd -f License.xml -l //192.168.2.140/licshare -e abcdxyz
```
- Export license to a CIFS share specifying the FQDD. While using the `-c` option and exporting a license from a device, more than one license file may be exported. Therefore if a filename is given, an index is appended to the end of the filename such as `LicenseFile0.xml`, `LicenseFile1.xml`. In this case, the device is Embedded iDRAC.  

```
racadm license export -u root -p calvin -f LicenseFile.xml -l //192.168.2.140/licshare -c idrac.embedded.1
```
- Delete a license.  

```
$racadm license delete -e B9865F23455DC458
```
- Delete all licenses installed on a particular device.  

```
$racadm license delete -c idrac.embedded.1
```
- Delete licenses on a particular device, in this case Embedded iDRAC.  

```
racadm license delete -c idrac.embedded.1
```
- Delete a license using entitlement ID, in this case xYZabcdefg.  

```
racadm license delete -e xYZabcdefg
```
- Delete a license using transaction ID, in this case 2.  

```
racadm license delete -t 2
```
- Replace a license on a device with a license file on an NFS share using transaction ID. In this case, transaction 27.  

```
racadm license replace -f License.xml -l 192.168.2.140:/licshare -t 27
```
- Replace a license on a device with a license file on a CIFS share using transaction ID. In this case, transaction 27.  

```
racadm license replace -u admin -p passwd -f License.xml -l //192.168.2.140/licshare -t 27
```

## netstat

|                    |                                                                                                                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b> | Displays the routing table and the current connections.<br>This subcommand is applicable only for CMC.<br>To run this subcommand, you must have the Execute Diagnostic Commands permission. |
| <b>Synopsis</b>    | <code>racadm netstat</code>                                                                                                                                                                 |
| <b>Input</b>       | <code>racadm netstat</code>                                                                                                                                                                 |

### Output:

Kernel IPv6 routing table

| <i>Destination</i>            | <i>Next Hop</i> | <i>Flags</i> | <i>Metric</i> | <i>Ref</i> | <i>Use</i> | <i>Iface</i> |
|-------------------------------|-----------------|--------------|---------------|------------|------------|--------------|
| ::1/128                       | ::              | U            | 0             |            | 30         | 1 lo         |
| fe80::200:ff<br>:fe00:d01/128 | ::              | U            | 0             |            | 0          | 1 lo         |
| fe80::/64                     | ::              | U            | 256           |            | 0          | 0 eth1       |

```
ff00::/8 :: U 256 0 0 eth1
```

#### Kernel IP routing table

| <i>Destination</i> | <i>Gateway</i>  | <i>Genmask</i>    | <i>Flags</i> | <i>MSS</i> | <i>Window</i> | <i>irtt</i> | <i>Iface</i> |
|--------------------|-----------------|-------------------|--------------|------------|---------------|-------------|--------------|
| 10.94.16<br>1.0    | 0.0.0.0         | 255.255.<br>255.0 | U            | 0          | 0             | 0           | bond0        |
| 0.0.0.0            | 10.94.16<br>1.1 | 0.0.0.0           | UG           | 0          | 0             | 0           | bond0        |

#### Active Internet connections (w/o servers)

| <i>Proto</i> | <i>Recv-Q</i> | <i>Send-Q</i> | <i>Local<br/>Address</i> | <i>Foreign<br/>Address</i> | <i>State</i> |
|--------------|---------------|---------------|--------------------------|----------------------------|--------------|
| tcp          | 0             | 0             | 127.0.0.1:81<br>95       | 127.0.0.1:52<br>887        | ESTABLISHED  |
| tcp          | 0             | 0             | 127.0.0.1:52<br>175      | 127.0.0.1:19<br>9          | ESTABLISHED  |
| tcp          | 0             | 0             | 127.0.0.1:19<br>9        | 127.0.0.1:52<br>175        | ESTABLISHED  |
| tcp          | 0             | 0             | 10.94.161.12<br>0:22     | 10.94.115.23<br>7:45106    | ESTABLISHED  |
| tcp          | 0             | 0             | 127.0.0.1:52<br>174      | 127.0.0.1:19<br>9          | ESTABLISHED  |
| tcp          | 0             | 0             | 127.0.0.1:52<br>887      | 127.0.0.1:81<br>95         | ESTABLISHED  |

## nicstatistics

**Description** Displays the statistics for the NIC FQDD. FQDD maps to the NIC object keys which RACADM uses while calling the Data Manager APIs NIC objects.  
This subcommand is applicable only for iDRAC.

**Synopsis**

- `racadm nicstatistics`
- `racadm nicstatistics <NIC FQDD>`
- `racadm hwinventory NIC.Integrated.1-1`

#### Examples

- Displays the statistics for the NIC FQDD.  
`$racadm nicstatistics <NIC FQDD>`

- Displays the statistics for the integrated NIC.

```
$ racadm nicstatistics NIC.Integrated.1-1
```

```
Total Bytes Received:0
```

```
Total Bytes Transmitted: 0
```

```
Total Unicast Bytes Received: 0
```

```
Total Multicast Bytes Received: 0
```

```
Total Broadcast Bytes Received: 0
```

```
Total Unicast Bytes Transmitted: 0
```

- Get the network statistics.

```
$ racadm nicstatistics
```

```
NIC.Slot.5-2-1 : QLogic CNA Gigabit Ethernet-B8:AC:6F:B3:BF:10
```

```
NIC.Slot.5-2-1 : QLogic CNA Gigabit Ethernet-B8:AC:6F:B3:BF:11
```

```
NIC.Slot.5-2-1 : QLogic CNA Gigabit Ethernet-B8:AC:6F:B3:BF:12
```

```
NIC.Slot.5-2-1 : QLogic CNA Gigabit Ethernet-B8:AC:6F:B3:BF:13
```

```
NIC.Slot.5-2-1 : QLogic CNA Gigabit Ethernet-B8:AC:6F:B3:BF:14
```

## ping

**Description** Verifies if the destination IP address is reachable from iDRAC with the current routing-table contents. A destination IP address is required. Based on the current routing-table contents, an ICMP echo packet is sent to the destination IP address.

To run this subcommand for CMC, you must have the Administrator privilege.

For iDRAC, you must have the Execute Diagnostic Commands permission.

**Synopsis** `racadm ping <ipaddress>`

**Input** `racadm ping 10.94.161.161`

**Output** `PING 10.94.161.161 (10.94.161.161): 56 data bytes64 bytes from 10.94.161.161: seq=0 ttl=64 time=4.121 ms--- 10.94.161.161 ping statistics ---1 packets transmitted, 1 packets received, 0 percent packet lossround-trip min/avg/max = 4.121/4.121/4.121 ms`

## ping6

**Description** Verifies if the destination IPv6 address is reachable from iDRAC or CMC, or with the current routing-table contents. A destination IPv6 address is required. Based on the current routing-table contents, an ICMP echo packet is sent to the destination IPv6 address.

To run this subcommand for CMC, you must have the Administrator privilege.

For iDRAC, you must have the Execute Diagnostic Commands permission.

**Synopsis** `racadm ping6 <ipv6address>`

**Example** `Pinging 2011:de11:bdc:194::31 from 2011:de11:bdc:194::101 with 32 bytes of data: Reply from 2011:de11:bdc:194::31: time<1ms`

```
Reply from 2011:dell:bdc:194::31: time<1ms
Reply from 2011:dell:bdc:194::31: time<1ms
Reply from 2011:dell:bdc:194::31: time<1ms
```

```
Ping statistics for 2011:dell:bdc:194::31:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

## racdump

**Description** Provides a single command to get dump, status, and general iDRAC board information. For CMC, this subcommand displays the comprehensive chassis status, configuration state information, and historic event logs. Used for post deployment configuration verification and during debugging sessions. To run this subcommand for CMC, you must have the Administrator privilege. For iDRAC, you must have the Debug permission.

**Synopsis** racadm racdump

**Input** Racdump includes the following subsystems and aggregates the following RACADM commands:

- General System/RAC information — **getsysinfo**
- Session information — **getssinfo**
- Sensor information — **getsensorinfo**
- Switches information (IO Module) — **getioinfo**
- Mezzanine card information (Daughter card) — **getdcinfo**
- All modules information — **getmodinfo**
- Power budget information — **getpbinfo**
- KVM information — **getkvminfo**
- NIC information (CMC module) — **getniccfg**
- Redundancy information — **getredundancymode**
- Trace log information — **gettracelog**
- RAC event log — **getraclog**
- System event log — **getsel**

**Output** The following information is displayed when the **racdump** subcommand is processed:

- General system/RAC information
- Coredump
- Session information
- Process information
- Firmware build information

### Example

```
racadm racdump
```

```
=====
General System/RAC Information
=====
```

```
CMC Information:
CMC Date/Time = Wed, 28 Nov 2007 11:55:49 PM
```

```

Active CMC Version = X08
Standby CMC Version = N/A
Last Firmware Update = Wed Nov 21 21:37:56 2007
Hardware Version = 2
Current IP Address = 10.35.155.160
Current IP Gateway = 10.35.155.1
Current IP Netmask = 255.255.255.0
DHCP Enabled = 1
MAC Address = 00:55:AB:39:10:0F
Current DNS Server 1 = 0.0.0.0
Current DNS Server 2 = 0.0.0.0
DNS Servers from DHCP = 0
Register DNS CMC Name = 0
DNS CMC Name = cmc-servicetag
Current DNS Domain =

```

Chassis Information:

```

System Model = PowerEdgeM1000eControlPanel
System AssetTag = 00000
Service Tag =
Chassis Name = Dell Rack System
Chassis Location = [UNDEFINED]
Power Status = ON

```

=====  
Session Information  
=====

| Type | User | IP Address    | Login Date/Time     |
|------|------|---------------|---------------------|
| SSH  | root | 10.9.72.252   | 11/28/2007 23:40:53 |
| KVM  | root | 169.254.31.30 | 11/28/2007 18:44:51 |

=====  
Sensor Information  
=====

```

<senType> <Num> <sensorName> <status> <reading> <units> <lc>
<uc>
FanSpeed 1 Fan-1 OK 14495 rpm 7250 14500
FanSpeed 2 Fan-2 OK 14505 rpm 7250 14500
FanSpeed 3 Fan-3 OK 4839 rpm 2344 14500
FanSpeed 4 Fan-4 OK 14527 rpm 7250 14500
FanSpeed 5 Fan-5 OK 14505 rpm 7250 14500
FanSpeed 6 Fan-6 OK 4835 rpm 2344 14500
FanSpeed 7 Fan-7 OK 14521 rpm 7250 14500
FanSpeed 8 Fan-8 Not OK 1 rpm 7250 14500
FanSpeed 9 Fan-9 OK 4826 rpm 2344 14500

```

```

<senType> <Num> <sensorName> <status> <reading> <units> <lc>
<uc>
Temp 1 Ambient_Temp OK 21 celcius N/A 40





```

```

<senType> <Num> <sensorName> <status> <AC-OK status>
PWR 1 PS-1 Online OK
PWR 2 PS-2 Online OK
PWR 3 PS-3 Online OK
PWR 4 PS-4 Slot Empty N/A
PWR 5 PS-5 Failed OK
PWR 6 PS-6 Slot Empty N/A

```

# racreset

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b> | <p>Resets iDRAC. The reset event is logged in the iDRAC log.</p> <p>Resets CMC. The reset event is logged in the hardware (SEL) and CMC (RAC) logs.</p> <p>To run this subcommand for CMC, you must have the Chassis Administrator privilege. For blade servers, you need the server administrator privilege. For iDRAC, you must have the Configure iDRAC permission.</p> <p> <b>NOTE:</b> After you run the <b>racreset</b> subcommand, iDRAC or CMC may require up to two minutes to return to a usable state.</p> <p>For CMC only:</p> <p> <b>NOTE:</b> There is a 100 percent fan request when the command is run against the servers.</p> |
| <b>Synopsis</b>    | <p>For iDRAC only:</p> <pre>racadm racreset soft racadm racreset hard racadm racreset soft -f racadm racreset hard -f</pre> <p>For CMC only:</p> <pre>racadm racreset [-m &lt;module&gt; [-f]]</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Input</b>       | <p>For iDRAC only:</p> <ul style="list-style-type: none"><li>• <code>-f</code> — This option is used to force the reset.</li></ul> <p>For CMC only:</p> <ul style="list-style-type: none"><li>• <code>-m</code> — The values must be one of the following:<ul style="list-style-type: none"><li>– <code>server-n</code>: where n=1–16</li><li>– <code>server-nx</code>: where n=1–8; x = a–d (lower case)</li></ul></li></ul> <p> <b>NOTE:</b></p> <ul style="list-style-type: none"><li>– Multiple modules may be specified, such as <code>-m &lt;module1&gt; -m &lt;module 2&gt;</code>.</li><li>– <code>-f</code> option is used to force the reset and is available only with an <code>-m</code> option.</li></ul>         |
| <b>Output</b>      | <pre>racadm racreset RAC reset operation initiated successfully. It may take up to a minute for the RAC to come online again.</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Example</b>     | <p>For iDRAC only:</p> <ul style="list-style-type: none"><li>• iDRAC reset.</li></ul> <pre>racadm racreset</pre> <ul style="list-style-type: none"><li>• To force reset iDRAC on servers 1 and 5.</li></ul> <pre>racadm racreset -m server-1 server-5 -f</pre> <p> <b>NOTE:</b> The command forces reset iDRAC on both the servers.</p> <p>For CMC only:</p>                                                                                                                                                                                                                                                                                                                                                                   |



- To reset CMC.  
`racadm racreset`
- To reset server 1.  
`racadm racreset -m server-1`
- To reset servers 1 and 3.  
`racadm racreset -m server-1 server-3`


## racresetcfg

### Description


Deletes your current iDRAC or CMC configuration and resets iDRAC or CMC to the factory default settings. After reset, the default name and password are **root** and **calvin**, respectively, and the IP address is 192.168.0.120. Only for iDRAC Enterprise on Blade servers, IP address and the number of the slot the server inhabits in the chassis.

If you run `racresetcfg` from a network client (for example, a supported web browser, Telnet/SSH, or Remote RACADM), use the default IP address. The `racresetcfg` subcommand does not reset the **cfgDNSRacName** object.

To run this subcommand for iDRAC, you must have the Configure iDRAC privilege. For CMC, you must have the Chassis Administrator privilege.

 **NOTE:** Certain firmware processes must be stopped and restarted to complete the reset to defaults. iDRAC or CMC becomes unresponsive for about 30 seconds while this operation completes.

For CMC only:

 **NOTE:** There is a 100 percent fan request when the command is issued against the servers.

### Synopsis

- `racadm racresetcfg`  
RAC reset operation initiated successfully. It may take a few\n minutes for the RAC to come online again.
- For iDRAC only:  
`racadm racresetcfg -f`
- For CMC only:  
`racadm racresetcfg [-m <module>]`

### Input

For CMC:

- `-m <module>` — Specifies the device to reset the configuration on `<module>`. `<module>` must be one of the following values:
  - `chassis`— Default state if `-m` is not specified
  - `server-n`, where `n=1-16`
  - `server-nx`, where `n=1-8`; `x=a-d` (lower case)
  - `kvm`

For iDRAC:

- `-f` — Force **resetcfg**. If any vFlash partition creation or formatting is in progress, iDRAC returns a warning message. You can perform a force reset using this option.

## Example

- Reset the configuration on iDRAC.

```
racadm racresetcfg
```

The RAC configuration has initiated restoration to factory defaults.

Wait up to a minute for this process to complete before accessing the RAC again.

- Reset the KVM configuration on CMC.

```
racadm racresetcfg -m kvm
```

The configuration has initiated restoration to factory defaults.

- Reset blade 8 configuration from CMC.

```
racadm racresetcfg -m server-8
```

The RAC configuration has initiated restoration to factory defaults.

Wait up to a minute for this process to complete before accessing the RAC again.

- Reset when vFlash Partition creation is in progress.

```
racadm racresetcfg
```

A vFlash SD card partition operation is in progress. Resetting the iDRAC may corrupt the vFlash SD card. To force **racresetcfg**, use the **-f** flag.

## raid

### Description

Allows you to run the commands to control RAID arrays.

This subcommand is applicable only for iDRAC.

To run this subcommand, you must have the Configure iDRAC permission.

### Synopsis

- `racadm raid`

- To generate and view information about the inventory of storage root node.

```
racadm raid get status
```

- To generate and view information about the inventory of controllers.

```
racadm raid get controllers -o
```

```
racadm raid get controllers -o -p <property names separated by comma>
```

- To generate and view information about the inventory of batteries.

```
racadm raid get batteries -o
```

```
racadm raid get batteries --refkey <controller FQDD's separated by comma>
```

```
racadm raid get batteries --refkey <controller FQDD's separated by comma> -o
```

```
racadm raid get batteries --refkey <controller FQDD's separated by comma> -o -p <property names separated by comma>
```

- **To generate and view information about the inventory of virtual disks.**  

```
raid get vdisks

racadm raid get vdisks --refkey <controller FQDDs separated by
comma>

racadm raid get vdisks --refkey <controller FQDDs separated by
comma> -o

racadm raid get vdisks --refkey <controller FQDDs separated by
comma> -o -p <property names separated by comma>
```
- **To generate and view information about the inventory of enclosures.**  

```
racadm raid get enclosures -o

racadm raid get enclosures --refkey <connector FQDDs separated
by comma>

racadm raid get enclosures --refkey <connector FQDDs separated
by comma> -o -p <property names separated by comma>
```
- **To generate and view information about the inventory of physical disk drives.**  

```
raid get pdisks

racadm raid get pdisks -o

racadm raid get pdisks -o -p <property names separated by comma>

racadm raid get pdisks --refkey <enclosure/Backplanes FQDDs
separated by comma>

racadm raid get pdisks --refkey <enclosure/Backplanes FQDDs
separated by comma> -o

racadm raid get pdisks --refkey <enclosure/Backplanes FQDDs
separated by comma> -o -p <property names separated by comma>
```
- **To generate and view information about the inventory of fans.**  

```
racadm raid get fans --refkey <enclosure FQDDs separated by
comma>

racadm raid get fans --refkey <enclosure FQDDs separated by
comma > -o

racadm raid get fans --refkey <enclosure FQDDs separated by
comma> -o -p <property names separated by comma>
```
- **To generate and view information about the inventory of EMMs.**  

```
racadm raid get emms -refkey <enclosure FQDDs separated by
comma>

racadm raid get emms --refkey <enclosure FQDDs separated by
comma> -o

racadm raid get emms --refkey <enclosure FQDDs separated by
comma> -o -p <property names separated by comma>
```
- **To generate and view information about the inventory of PSU.**  

```
racadm raid get psus -refkey <enclosure FQDDs separated by
comma>

racadm raid get psus --refkey <enclosure FQDDs separated by
comma> -o

racadm raid get psus --refkey <enclosure FQDDs separated by
comma> -o -p <property names separated by comma>
```
- **To create, delete, and secure the virtual disks.**  

```
racadm raid createvd:<Controller FQDD> -r1 {r0|r1|r5|r6|r10|r50|
r60}[-wp {wt|wb}] [-rp {nra|ra|ara}] [-ss {1k|2k|4k|8k|16k|32k|
```

```

64k|128k|256k|512k|1M|2M|4M|8M|16M}}-pdkey:<comma separated PD
FQDD> [-dcp {enabled|disabled|default}] [-name <VD name>] [-
size <VD size> {b|k|m|g|t}] [-T10PIEnable]

racadm raid init:<VD FQDD> -speed {fast}

racadm raid deletevd:<VD FQDD>

racadm raid encryptvd:<VD FQDD>

racadm raid createsecuritykey:<Controller FQDD> -key <Key id> -
passwd <passphrase>

racadm raid modifysecuritykey:<Controller FQDD> -key <Key id>-
oldpasswd <old passphrase> -newpasswd <new passphrase>

racadm raid deletesecuritykey:<Controller FQDD>

```

- To convert the physical disk drives and assign or delete a hot-spare.

```


racadm raid converttononraid:<PD FQDD>

racadm raid converttoraid:<PD FQDD>

racadm raid hotspare:<Physical Disk FQDD> -assign yes -type dhs
-vdkey: <FQDD of VD>

racadm raid hotspare:<Physical Disk FQDD> -assign no

```

 **NOTE:** Any option specified after the `-assign` option does not affect deleting the hot-spare.

- To reset, clear, and import the RAID configuration to the controller.

```

racadm raid importconfig:<Controller FQDD>

racadm raid resetconfig:<Controller FQDD>

racadm raid clearconfig:<Controller FQDD>

```

## Input

- `-o` — Specifies the optimized version.
- `-p` — Specifies the property name.
- `--refkey` — Specifies the controller or enclosure FQDDs.
- `-r1` — Sets the RAID level.
  - `r0` — RAID 0-Striping
  - `r1` — RAID 1-Mirroring
  - `r5` — RAID 5-Striping with Parity
  - `r6` — RAID 6-Striping with Extra Parity
  - `r10` — RAID 10-Spanned Striping with Mirroring
  - `r50` — RAID 50-Spanned Striping with Parity
  - `r60` — RAID 60-Spanned Striping with Extra Parity
- `-wp{wt|wb}` — Sets the write policy to Write Through or Write Back
- `-rp {nra|ra|ara}` — Sets the read policy to No Read Ahead, Read Ahead, Adaptive Read Ahead
- `-ss` — Specifies the stripe size to use.
- `-pdkey:<PD FQDD list>` — Specifies the physical disk drive to use in the virtual disk.
- `-dcp` — Sets the Disk Cache Policy in the Virtual Disk.
  - `enabled` — Allows the virtual disk to use the cache.

- disabled — Does not allow the virtual disk to use the cache.
- default — Uses the default cache policy. For SAS drives, use the disabled option and for SATA drives, use the enabled option by default.
- -name <VD name> — Specifies the name of the virtual disk.
- -size <VD size> — Specifies the size of each virtual disk.
  - b — Specifies the size in bytes
  - k — Specifies the size in kilobytes
  - m — Specifies the size in megabytes
  - g — Specifies the size in gigabytes
  - t — Specifies the size in terabytes
- -sc — Number of spans in a virtual disk (required for multi-span RAID level).

 **NOTE:**

- The default value for multi-span RAID levels is 2 and for basic RAID levels is 1.
- For hybrid RAID levels such as RAID10 and RAID50, -sc option is mandatory.
- The value for -sc option can be 0 only for RAID10.
- After creating the virtual disk, create a job and to apply the virtual disk configuration, restart the server operating system.
- -T10PIEnable — Creates a virtual disk with protection information.
- -key <Key id> — Specifies the key id.
- -passwd <passphrase> — Specifies the passphrase.
- -newpasswd <passphrase> — Specifies the new passphrase.
- -assign {yes | no} — Assigns or unassigns the disk as a hot-spare.
- -type { ghs | dhs} — Assigns a global or dedicated hot-spare.
- -vdkey:<VD FQDD> — Assigns the dedicated hot-spare to the specified virtual disk. This option is required for dedicated hot-spare.

**Example**

- To generate and view information about the inventory of controllers, virtual disks, storage enclosures, and physical disk drives.

- To generate and view information about the inventory of storage root node.

This command retrieves the status.

```
racadm raid get status
```

```
Storage Root Node Status : Ok
```

- To generate and view information about the inventory of controllers connected to the server.

```
racadm raid get controllers
RAID.Integrated.1-1
```

This command is an optimized version and displays the full controller objects along with their keys.

```
racadm raid get controllers -o
RAID.Integrated.1-1Status = Ok
DeviceDescription = Integrated RAID Controller 1
RollupStatus = Ok
Name = PERC H710P Adapter (Embedded)
FirmwareVersion = 21.2.0-0007
DriverVersion = 6.600.18.00
RebuildRate = 30 %
BgiRate = 30 %
CheckConsistencyRate = 30 %
```

```

ReconstructRate = 30 %
PatrolReadRate = 30 %
PatrolReadMode = Automatic
PatrolReadState = Unknown
CheckConsistencyMode = Normal
LoadBalanceSetting = Auto
CopybackMode = ON
PreservedCache = Not Present
CacheMemorySize = 1024 MB
PersistHotspare = Disabled
SpindownUnconfiguredDrives = Disabled
SpindownHotspare = Disabled
Timeintervalforspindown = 30 (Minutes)
SecurityStatus = Encryption Capable
EncryptionMode = None
SasAddress = 0x5B8CA3A0EB118A00
PciDeviceId = 0x5b
PciSubdeviceId = 0x1f31
PciVendorId = 0x1000
PciSubvendorId = 0x1028
PciBus = 0x4
PciDevice = 0x0
PciFunction = 0x0
BusWidth = Unknown
SlotLength = Information Not Available
SlotType = Unknown
MaxCapableSpeed = 6.0 Gb/s
LearnMode = Not supported
T10PICapability = Not Capable
SupportRAID10UnevenSpans = Not Supported
SupportEnhancedAutoForeignImport = Supported
EnhancedAutoImportForeignConfig = Disabled
SupportControllerBootMode = Supported
ControllerBootMode = User Mode

```

**This command displays the filtered property values for all returned controller objects.**

```

racadm raid get controllers -o -p Name
RAID.Integrated.1-1
Name = PERC H710P Adapter (Embedded)

```

**This command displays the operations pending on the controller.**

```

racadm raid get <controller> -pending
Raid.Integrated.1-1
Raid.Slot.2-1

```

- **To generate and view information about the inventory of batteries connected to the controller.**

```

racadm raid get batteries

```

**This command is an optimized version and displays the batteries along with their keys.**

```

racadm raid get batteries -o
Battery.Integrated.1:RAID.Integrated.1-1
Name = Battery
DeviceDescription = Battery on Integrated RAID Controller 1
Status = Ok
State = Ready

```

**This command displays the filtered property values for all battery objects.**

```

racadm raid get batteries -o -p Name
Battery.Integrated.1:RAID.Integrated.1-1
Name = Battery

```

**This command displays all battery keys connected to the controllers.**

```
racadm raid get batteries --refkey RAID.Integrated.1-1
Battery.Integrated.1:RAID.Integrated.1-1
```

**This command is an optimized and filtered version.**

```
racadm raid get batteries --refkey RAID.Integrated.1-1 -o -p Name
Battery.Integrated.1:RAID.Integrated.1-1
Name = Battery
```

- **To generate and view information about the inventory of virtual disks connected to the controller.**

```
racadm raid get vdisks
Disk.Virtual.0:RAID.Integrated.1-1
```

**This command displays all virtual disk keys connected to the controllers.**

```
racadm raid get vdisks --refkey RAID.Integrated.1-1
Disk.Virtual.0:RAID.Integrated.1-1
```

**This command is an optimized and filtered version.**

```
racadm raid get vdisks -o -p DeviceDescription,OperationalState
Disk.Virtual.0:RAID.Integrated.1-1
DeviceDescription = Virtual Disk 0 on Integrated RAID Controller 1
OperationalState = Not applicable
```

- **To generate and view information about the inventory of storage enclosures connected to the connector.**

**This command displays all enclosure objects for the connector FQDD.**

```
racadm raid get enclosures -o
Enclosure.Internal.0-1:RAID.Integrated.1-1
Status = Ok
DeviceDescription = Backplane 1 on Connector 0 of
Integrated RAID Controller 1
RollupStatus = Ok
Name = BP12G+EXP 0:1
BayId = 1
FirmwareVersion = 0.0C
SasAddress = 0x5C8CA0A0EB118A00
SlotCount = 24
```

**This command displays all enclosure keys connected to the connectors.**

```
racadm raid get enclosures --refkey RAID.Integrated.1-1
Enclosure.Internal.0-1:RAID.Integrated.1-1
```

**This command is an optimized and filtered version.**

```
racadm raid get enclosures --refkey RAID.Integrated.1-1 -o -p Name
Enclosure.Internal.0-1:RAID.Integrated.1-1
Name = BP12G+EXP 0:1
```

- **To generate and view information about the inventory of physical disk drives connected to the enclosure or backplanes.**

```
racadm raid get pdisks
Disk.Bay.0:Enclosure.Internal.0-1:RAID.Integrated.1-1
```

**This command is an optimized version and displays the full controller objects along with their keys.**

```
racadm raid get pdisks -o
Disk.Bay.0:Enclosure.Internal.0-1:RAID.Integrated.1-1
Status = Ok
DeviceDescription = Disk 0 in Backplane 1 of Integrated
RAID Controller 1
RollupStatus = Ok
Name = Physical Disk 0:1:0
State = Online
OperationState = Not Applicable
PowerStatus = Spun-Up
Size = 278.88 GB
```

```

FailurePredicted = NO
RemainingRatedWriteEndurance = Not Applicable
SecurityStatus = Not Capable
BusProtocol = SAS
MediaType = HDD
UsedRaidDiskSpace = 278.88 GB
AvailableRaidDiskSpace = 0.00 GB
Hotspare = NO
Manufacturer = SEAGATE
ProductId = ST9300605SS
Revision = CS05
SerialNumber = 6XP40SA9
PartNumber = CN0745GC7262228706R7A00
NegotiatedSpeed = 6.0 Gb/s
ManufacturedDay = 4
ManufacturedWeek = 32
ManufacturedYear = 2012
SasAddress = 0x5000C5005952386D
FormFactor = 2.5 Inch
RaidNominalMediumRotationRate = 10000
T10PICapability = Not Capable
BlockSizeInBytes = 512
MaxCapableSpeed = 6 Gb/s

```

**This command displays the filtered property values for all returned controller objects.**

```

racadm raid get pdisks -o -p State
Disk.Bay.0:Enclosure.Internal.0-1:RAID.Integrated.1-1
State = Online

```

**This command displays all physical disk drive keys connected to the enclosures.**

```

racadm raid get pdisks --refkey RAID.Integrated.1-1
Disk.Bay.0:Enclosure.Internal.0-1:RAID.Integrated.1-1

```

**This command is an optimized version and displays all disk objects for the enclosure FQDD.**

```

racadm raid get pdisks --refkey Enclosure.Internal.0-1:RAID.Integrated.
1-1 -o
racadm raid get pdisks -o
Disk.Bay.0:Enclosure.Internal.0-1:RAID.Integrated.1-1
Status = Ok
DeviceDescription = Disk 0 in Backplane 1 of Integrated
RAID Controller 1
RollupStatus = Ok
Name = Physical Disk 0:1:0
State = Online
OperationState = Not Applicable
PowerStatus = Spun-Up
Size = 278.88 GB
FailurePredicted = NO
RemainingRatedWriteEndurance = Not Applicable
SecurityStatus = Not Capable
BusProtocol = SAS
MediaType = HDD
UsedRaidDiskSpace = 278.88 GB
AvailableRaidDiskSpace = 0.00 GB
Hotspare = NO
Manufacturer = SEAGATE
ProductId = ST9300605SS
Revision = CS05
SerialNumber = 6XP40SA9
PartNumber = CN0745GC7262228706R7A00
NegotiatedSpeed = 6.0 Gb/s
ManufacturedDay = 4
ManufacturedWeek = 32

```



```

ManufacturedYear = 2012
SasAddress = 0x5000C5005952386D
FormFactor = 2.5 Inch
RaidNominalMediumRotationRate = 10000
T10PICapability = Not Capable
BlockSizeInBytes = 512
MaxCapableSpeed = 6 Gb/s

```

**This command is an optimized and filtered version.**

```

racadm raid get pdisks --refkey Enclosure.Internal.0-1:RAID.Integrated.
1-1 -o -p State
Disk.Bay.0:Enclosure.Internal.0-1:RAID.Integrated.1-1
State = Online

```

- To generate and view information about the inventory of fans connected to the enclosure.

**This command displays all the fan keys connected to the enclosures.**

```

racadm raid get fans --refkey <enclosure FQDDs separated
by comma>

```

**This command displays all the fan objects for the enclosure FQDD.**

```

racadm raid get fans --refkey <enclosure FQDDs separated
by comma > -o

```

```

racadm raid get fans --refkey <enclosure FQDDs separated
by comma> -o -p <property names separated by comma>

```

- To generate and view information about the inventory of EMMs connected to the enclosure.

**This command returns all the EMM keys connected to the enclosures.**

```

racadm raid get emms -refkey <enclosure FQDDs separated
by comma> enclosure FQDDs separated
by comma>

```

**This command is an optimized version and displays all the EMM objects for the enclosure FQDD.**

```

racadm raid get emms --refkey <enclosure FQDDs separated
by comma> -o

```

**This command is an optimized and filtered version.**

```

racadm raid get emms --refkey <enclosure FQDDs separated
by comma > -o -p <property names separated by comma>

```

- To generate and view information about the inventory of PSU connected to the enclosure.

**This command displays all the PSUs connected to the enclosures.**

```

racadm raid get psus --refkey <enclosure FQDD's separated
by comma>

```

**This command is an optimized version and displays all the PSUs objects for the enclosure FQDD.**

```

racadm raid get psus --refkey <enclosure FQDD's separated
by comma > -o

```

**This command is an optimized and filtered version.**

```

racadm raid get psus --refkey <enclosure FQDD's separated
by comma> -o -p <property names separated by comma>

```

- To create, delete, and secure the virtual disks.

- This command creates a virtual disk.

```

racadm raid createvd:RAID.Integrated.1-1 -rl r0 -pdkey:Disk.Bay.
0:Enclosure.Internal.0-0:RAID.Integrated.1-1


```


- This command starts an initialization operation on a specified virtual disk.

```

racadm raid init:Disk.Virtual.0:RAID.Integrated.1-1 -speed fast

```

- This command deletes the specified virtual disk.  
`racadm raid deletevd:Disk.Virtual.0:RAID.Integrated.1-1`
- This command encrypts the specified virtual disk.  
`racadm raid encryptvd:Disk.Virtual.0:RAID.Integrated.1-1`
-  **NOTE:** Virtual disk must be created with SED.
- This command assigns security key for controller.  
`racadm raid createsecuritykey:RAID.Integrated.1-1 -key <Key id> -passwd <passphrase>`
- This command modifies security key for controller.  
`racadm raid modifysecuritykey:RAID.Integrated.1-1 -key <Key id> -oldpasswd <oldpassphrase> -newpasswd <newpassphrase>`
- This command deletes security key for controller.  
`racadm raid deletesecuritykey:RAID.Integrated.1-1`
- To convert the physical disk drive and assign hot-spare.
  - This command converts the specified non-RAID physical disk drive to a RAID capable physical disk drive.  
`racadm raid converttoraid:Disk.Bay.0:Enclosure.Internal.0-0:RAID.Integrated.1-1`
  - This command converts the specified physical disk drive to a non-RAID physical disk drive.  
`racadm raid converttononraid:Disk.Bay.0:Enclosure.Internal.0-0:RAID.Integrated.1-1`
  - This command assigns or unassign a global or dedicated hot-spare.  
`racadm raid hotspare:Disk.Bay.0:Enclosure.Internal.0-0:RAID.Integrated.1-1 -assign no`  
  
`racadm raid hotspare:Disk.Bay.0:Enclosure.Internal.0-0:RAID.Integrated.1-1 -assign yes -type ghs`  
  
`racadm raid hotspare:Disk.Bay.0:Enclosure.Internal.0-0:RAID.Integrated.1-1 -assign yes -type dhs -vdkey:Disk.Virtual.0:RAID.Integrated.1-1`
- To reset, clear, and import the RAID configuration to the controller.
  - This command imports the current foreign configuration from the controller.  
`racadm raid importconfig:RAID.Integrated.1-1`
  - This command clears the current foreign configuration from the controller.  
`racadm raid resetconfig:RAID.Integrated.1-1`
  - This command deletes the virtual disk from the controller.  
`racadm raid clearconfig:RAID.Integrated.1-1`

 **NOTE:** After a `resetconfig` or `clearconfig` operation, the data cannot be reversed.

## remoteimage

**Description**      Connects, disconnects, or deploys a media file on a remote server.  
To run this subcommand, you must have the Administrator privilege.

**Synopsis**            `racadm remoteimage <options>`

**Input**

- `-c` — Connect the image.
- `-d` — Disconnect image.

- `-u` — User name to access the network share.
- `-p` — Password to access the network share.
- `-l` — Image location on the network share; use double quotation marks around the location.
- `-s` — Display current status. `-a` is assumed if not specified.



**NOTE:** Use a forward slash (/) when providing the image location. If backward slash (\) is used, override the backward slash for the command to run successfully.

For example:

```
racadm remoteimage -c -u user -p password -l //\
\10.94.192.100\CommonShare\diskette.img
```

For CMC:

- `-e` — Deploys a remote image. The first boot device is set to the shared image and the server is set to reboot.
- `-m <module>` — Specifies the server to deploy the image to one of the following:
  - `server-n`, where `n=1-16`
  - `server-nx` where `n=1-8`; `x=a, b, c, d`
- `-a` — Applies options for slots for all present servers.

## Example

- **Configure a Remote image.**

```
racadm remoteimage -c -u "user" -p "pass" -l //shrloc/foo.iso
Remote Image is now Configured
```
- **Disable Remote File Sharing.**

```
racadm remoteimage -d
Disable Remote File Started. Please check status using -s
option to know Remote File Share is ENABLED or DISABLED.
```
- **Check Remote File Share status.**

```
racadm remoteimage -s - status
Remote File Share is Enabled
UserName
Password
ShareName //10.94.161.112/xxxx/dtk_3.3_73_Linux.iso
```
- **Deploy a remote image on iDRAC CIFS Share.**

```
racadm remoteimage -c -u root -p calvin -l //192.168.0.180/dev/
floppy.img
```
- **Deploy a remote image on iDRAC NFS Share.**

```
racadm remoteimage -c -m server-1 -u root -p calvin -l '//
192.168.0.180/dev/floppy.img'
```
- **Deploy a remote image to server 1 from the CMC.**

```
racadm remoteimage -c -m server-1 -u root -p calvin -l '//
192.168.0.180/dev/floppy.img'
```
- **Deploy a remote image on iDRAC CIFS share for all the servers.**


```
racadm remoteimage -c -a -l '//192.168.0.180/dev/floppy.img' -u
root -p calvin
```
- **Deploy a remote image on iDRAC NFS share for all the servers.**

```
racadm remoteimage -c -a -l '192.168.0.180:/dev/floppy.img' -u
root -p calvin
```

## rollback

**Description** Allows you to roll back the firmware to an earlier version.

**Synopsis** `racadm rollback <FQDD>`

 **NOTE:** To get the list of available rollback versions and FQDDs, run the `racadm swinventory` command.

**Input** `<FQDD>`: Specify the FQDD that has the rollback version.

**Example**



- `racadm rollback iDRAC.Embedded.1-1`
- `racadm rollback BIOS.Setup.1-1`

## serveraction

**Description** Enables you to perform power management operations on the host system.  
To run this subcommand, you must have the Execute Server Control Commands permission.


**Synopsis** `racadm serveraction -a <action>`  
`racadm serveraction -m <module> <action>`

**Input**

- `-m <module>` — Must be one of the following values:
  - `server-n`: where `n=1-16`
  - `server-nx`: where `n=1-8`; `x=a-d` (enter lower case letter only)
- `-a` — Performs power action on all servers. Not allowed with the `powerstatus` action.
  -  **NOTE:** The `-m` and `-a` options are applicable only to CMC platforms.
- `<action>` — Specifies the action. The options for the `<action>` string are:
  - `hardreset` — Performs a reset (reboot) operation on the managed system.
  - `powercycle` — Performs a power-cycle operation on the managed system. This action is similar to pressing the power button on the system's front panel to turn off and then turn on the system.
    -  **NOTE:** If the server is in turned off state, the `powercycle` option power up the server.
  - `powerdown` — Powers down the managed system.
  - `powerup` — Powers up the managed system.
  - `powerstatus` — Displays the current power status of the server (ON or OFF).
  - `graceshutdown` — Performs a graceful shutdown of the server. If the operating system on the server cannot be shut down completely, then this operation is not performed.
  - `-f` — Force the server power management operation.  
For iDRAC only: This option is applicable only for the PowerEdge-VRTX platform. It is used with `powerdown`, `powercycle`, and `hardreset` options.

For CMC only:

- `reset` — Performs virtual reset of the server. This operation simulates reseating the blade by resetting the iDRAC on that blade. `-f` is required for this operation.

 **NOTE:** The action `powerstatus` is not allowed with `-a` option.

**Output** Displays an error message if the requested operation is not completed, or a success message if the operation is completed.

- **Power Down Blade from iDRAC.**  

```
racadm serveraction powerdown
Server power operation successful
```
- **Power Down Blade from iDRAC when Power is already off on that blade.**  

```
racadm serveraction powerdown
Server is already powered OFF
```
- **Get Power Status on iDRAC,**  

```
racadm serveraction powerstatus
Server Power Status: ON
```
- **Shut down the operating system on the server.**  

```
racadm serveraction powerstatus
This action will ungracefully turn off the server. Before
continuing, exit all the programs running on this server, and
make sure that there is no inbound and outbound traffic
associated with this server. Inability to do so may prevent all
the servers in the chassis from accessing the shared-storage
devices for up to two minutes. To continue the operation, enter
a -f at the end of command (racadm serveraction powerdown -f),
and then retry.
```
- **Turn off the server 16 from CMC, when the power is already turned off on that server.**  

```
racadm serveraction -m server-16 powerdown
Server is already powered OFF.
```
- **Get Power Status of blade 16 on CMC.**  

```
racadm serveraction -m server-16 powerstatus
ON
```
- **Reseat blade 2 on CMC.**  

```
racadm serveraction -m server-2 reseal -f
Server power operation successful
```
- **Turn off the server 16 from CMC.**  

```
racadm serveraction -m server-16 powerdown
Server power operation successful
```

## set

**Description** To set the value of configuration objects on a device and modify the RAC object values, run this command.

This subcommand is applicable only for iDRAC.

The `--preview` option includes the **Job ID** that is used to verify the status of the file configuration before applying. The **Job ID** can be tracked by running the `racadm jobqueue view -I <JID>` command.

**NOTE:**

- For configuration of staged objects such as BIOS or NIC, commit and reboot job creation must be used to apply the pending values. For more information, see [jobqueue](#).
- To run this subcommand, the minimum Lifecycle Controller version must be 1.1.

**Synopsis**


- `racadm set -f <filename> [--continue]`
- `racadm set <FQDD Alias>.<index>.<group>.<index>.<object>.<value>`
- `racadm set <FQDD Alias>.<group>.<object>.<value>`
- `racadm set <FQDD Alias>.<group>.<index>.<object>.<value>`
- `racadm set -f <filename> -t xml -u myuser -p mypass -l // 10.1.2.3`
- `racadm set -f <filename> -t <filetype> -u <username> -p <password> -l <CIFS share> --preview`

**Input**

- <FQDD Alias>
- <group> — Specifies the group containing the object that must be written.
- <object> — Specifies the object name of the value that must be written.
- <index> — This option is specified where FQDD Aliases or Groups must be indexed.
- `-f <filename>` — Enables set to configure the device from a specified file. This option is not supported in the Firmware RACADM interface.
- `--continue` — This option is used with `-f` only. If configuration through file is unsuccessful for a group, then configuration continues with the next group in the file. If this option is not used, then configuration stops when it is unsuccessful for a particular group. After the unsuccessful group, the rest of the groups are not configured.
- `-u` — Specifies user name of the remote share from where the file must be imported.
- `-p` — Specifies password for the remote share from where the file must be imported.
- `-l` — Specifies network share location from where the file must be imported.
- `-t` — Specifies the file type that must be imported. Valid values are `xml` and `ini`. These values are case-insensitive. `ini` imports the legacy configuration file. The `ini` file cannot be imported from a remote share. If `-t` is not specified, then the legacy file is imported.



**NOTE:** To import or export `.xml` config files, Lifecycle Controller version 1.1 or later is required.

- `-b` — Specifies the type of shutdown for the host after the import operation completes. The parameters are `Graceful` for graceful and `Forced` for forced shutdown. If this parameter is not specified, graceful shutdown is taken as the default.
-  **NOTE:** If the operating system is in use, then the `graceful` shutdown option may time out within 300 seconds. If this operation is unsuccessful, then retry with the `force` option.
- `-w` — Maximum time to wait for the graceful shutdown to occur. The value must be entered in seconds. Minimum accepted value is 300 seconds and the maximum accepted value is 3600 seconds. The default value is 1800 seconds.
- `-s` — Power state of the host when the import operation completes. The parameters are "On" for powered ON and "Off" for powered OFF. If this parameter is not specified, power ON is taken as default.
- `--preview` — Validate the configuration `.xml` file and view the status.

**NOTE:**

- This option does not restart the system.
- The `-b,-w` options cannot be included with the `--preview` option.
- A scheduled job or pending configuration must not be running while using the `--preview` option.


- Output**
- Object value modified successfully
  - Unsuccessful message indicating reason for the same.
- Example**
- Configure the iDRAC using a file.  
\$ racadm set -f myrac.cfg
  - Configure LCD String.  
\$ racadm set system.lcd.LCDUserString test  
Object value modified successfully
  - Configure rack name for server.  
\$ racadm set system.location.rack.name rack1
  - Configure a RAC from an XML configuration file at a remote CIFS share.  
\$ racadm set -f myfile.xml -t xml -u myuser -p mypass -l //10.1.2.3/myshare
  - Configure a RAC from an XML configuration file at a remote NFS share.  
\$ racadm set -f myfile.xml -t xml -l 10.1.2.3:/myshare
  - Configure a RAC from an .xml file, with a wait time of 10 minutes, shutdown type graceful and end host type power on.  
\$ racadm set -f myfile.xml -t xml -b "graceful" -w 600 -s "on"
  - racadm set -f temp\_Configuration\_file -t xml -u Administrator -p dell\_123 -l //10.94.162.74/xyz --preview

## setarraycfg

**Description** This command is applicable only for CMC. To configure storage array properties, run this command.


**Synopsis**

```
racadm setarraycfg -m module -n <member_name> <member_ip>
<member_mask> <member_gateway> -e 0|1 -g <groupname>
<group_id> <group_password> [<admin_password>] [-f A|B]
racadm setarraycfg -f A|B
```

 **NOTE:** The valid value for `-m` is `server-n`, where `n=1-16`.

- Input**
- `-m` — Module is one of the following values:
    - `server-n`: where `n = 1-7` and `9-15`
  - `<member_name>` — A unique and descriptive name that is fewer than 64 alphanumeric characters, without spaces. The first character is a letter or a number. It is used only to identify and administer the array.
  - `<member_ip>` — Each member IP Network address must have at least one network interface on the same subnet as the group IP address.
  - `<member_mask>` — Member Netmask combines with the member IP address to identify the subnet on which the network interface specified resides. The default is 255.255.255.0
  - `<member_gateway>` — Member Gateway network address is for the device that connects the subnet and forward the network traffic beyond the local network.
  - `-e` — Selects existing or create new group for a member. The valid values are:
    - `0` — to create new group

- 1 — to use existing group

 **NOTE:** If `-e` is 0, then admin password is mandatory.

- `<groupName>` — Name of the group for administrative purpose. You can use up to 64 alphanumeric characters and hyphens. The first character must be a letter or number.
- `<group_ip>` — Group IP and Network address for the group. The group IP address is used for administrative and host access to volumes.
- `<group_password>` — Group Membership Management Password is required when adding members to the group. The password must have 3 to 16 alphanumeric characters and is case-sensitive.
- `<admin_password>` — Group Administration Password to set admin password when creating new group and overrides the factory-set password. *grpadmin* is the default *grpadmin* account. The password must have 3 to 16 alphanumeric characters and is case-sensitive.
- `-f` — The valid values are *A* or *B*. Select Fabric used for data I/O. Options are:
  - Fabric A (LOM port)
  - Fabric B (Mezz port)

The default is Fabric B. If the option is not specified, then the configuration is not done.

**Output** `<module>` configuration was initiated successfully. It may take several minutes to complete.

- Example**
- Set member name, member IP, member netmask, member gateway with new group name, group IP, group password, admin password selecting fabric A on server-1.
 

```
racadm setarraycfg -m server-1 -n cmc-col
192.168.1.233 255.255.255.0 192.168.1.0 -e 0 -g cmc-
array-grp 192.168.1.10 <password> -f A
```
  - Set member name, member IP, member netmask, member gateway with existing group name, group IP, group password selecting fabric B on server-1.
 

```
racadm setarraycfg -m server-1 -n cmc-col
192.168.1.233 255.255.255.0 192.168.1.0 -e 1 -g cmc-
array-grp 192.168.1.10 <password> -f B
```
  - Select different fabric type.
 

```
racadm setarraycfg -m server-3 -f A
```

## setassettag

**Description** Sets the N-byte ASCII asset tag for the chassis.  
This subcommand is applicable only for CMC.  
To use this subcommand, you must have the Administrator privilege.

**Synopsis** `racadm setassettag -m chassis <asset tag>`

**Input** `-m <module>` — Specifies the module whose asset tag you want to set.  
Legal value: chassis  
You can obtain the same output if you do not include this option, as there is only one legal value.  
`<assettag>` is a maximum of 64 nonextended ASCII characters.




- Example**
- `racadm setassettag -m chassis 783839-33`
  - `racadm setassettag 783839-33`
- The asset tag was changed successfully.

## setchassisname

- Description** Sets the name of the chassis in the LCD.  
This subcommand is applicable only for CMC.  
To run this subcommand, you must have the Administrator privilege.


**Synopsis** `racadm setchassisname <name>`

 **NOTE:** Chassis name is a maximum of 64 nonextended ASCII characters.

- Example** `racadm setchassisname dellchassis-1`  
The chassis name was set successfully.

## setflexaddr

- Description** Enables or disables FlexAddress on a particular slot or fabric.  
This subcommand is applicable only for CMC.  
To run this subcommand, you must have the Chassis Configuration Administrator privilege.  
If the fabric type is determined to be InfiniBand, the operation is canceled and the command returns an error. If the FlexAddress feature is not activated, the command returns an error.

 **NOTE:** The server must be turned off to change the slot state. All servers must be turned off to change the fabric state. The MAC/WWN addresses must be managed locally (not by an external console) to run this command.

**Synopsis** `racadm setflexaddr -i <slotNum> 0|1`  
`racadm setflexaddr -f <fabricName> 0|1`  
`<slotNum>=1-16`  
`<fabricName>=A, B, C, iDRAC`

- 0: disable
- 1: enable

- Input**
- `-i <slotNum>` — Enables or disables FlexAddress for the specified slot.
  - `-f <fabricName>` — Enables or disables FlexAddress for the specified fabric.

- Example**
- Disable flex address for slot 2.  
`racadm setflexaddr -i 2 0`
  - Enable flex address for fabric A.  
`racadm setflexaddr -f A 1`
  - Disable flex address for fabric B.  
`racadm setflexaddr -f b 0`

- Disable flex address for fabric iDRAC.  
`racadm setflexaddr -f idrac 0`

## setled

**Description** Sets the state (blinking or not blinking) of the LED on the specified module.  
 To blink or unblink the chassis, I/O modules or the CMC, you must have the Debug Administrator privilege on CMC. To enable the servers to blink or unblink, you must have the Server Administrator or the Debug Administrator privilege on CMC. To run this subcommand for iDRAC, you must have the Configure iDRAC permission.

**Synopsis** For iDRAC:  
`racadm setled -l <ledState>`

For CMC:  
`racadm setled -m <module> -l <ledState>`

**Input**


- `-m <module>` — Specifies the module whose LED you want to configure. `<module>` can be one of the following:
  - `server-n`, where `n=1-16`
  - `server-nx`, where `n=1-8`; `x = a, b, c, d`
  - `switch-n`, where `n=1-6`
  - `cmc-active`
  - `chassis`

This option is applicable for CMC only.

- `-l <ledstate>` — Specifies whether the LED must blink. `<ledstate>` can be one of the following:
  - `0`: no blinking
  - `1`: blinking

**Example** For CMC:


- `racadm setled -m server-1 -l 1`  
 LED state was set successfully.
- `racadm setled -m server-9 -l 1`  
 ERROR: Server in slot 9 is an extension of the server in slot 1.


 **NOTE:** The `setled` command generates an error when run on the extension slot of a multi-slot server.

For iDRAC:  
`racadm setled -l 1`  
 LED state was set successfully.

# setniccfg

**Description** Sets the iDRAC IP address. It displays an error message if the requested operation could not be performed. A success message is displayed if the operation is completed successfully. To run this subcommand, you must have the Configure iDRAC permission.

 **NOTE:** For CMC, the command helps to modify network configuration properties.

 **NOTE:** The terms NIC and Ethernet management port may be used interchangeably.

## Synopsis

- `racadm setniccfg -d`
- `racadm setniccfg -d6`
- `racadm setniccfg -s <IPv4Address> <netmask> <IPv4 gateway>`
- `racadm setniccfg -s6 <IPv6 Address> <IPv6 Prefix Length> <IPv6 Gateway>`
- `racadm setniccfg -o`

For CMC:

- `racadm setniccfg -m <module> -v <vlan ID> <vlan priority>`
- `racadm setniccfg [-m chassis] -o`
- `racadm setniccfg -p [-6]`
- `racadm setniccfg -m <module> -k <speed> <duplex>`
- `racadm setniccfg -i <slot> -v <vlan ID> <vlan priority>`

## Input

- `-d` — Enables DHCP for the NIC (default is DHCP disabled.)
- `-d6` — Enables AutoConfig for the NIC. It is enabled by default.
- `-s` — Enables static IP settings. The IPv4 address, netmask, and gateway must be specified. Otherwise, the existing static settings are used. `<IPv4Address>`, `<netmask>`, and `<gateway>` must be typed as dot-separated strings.  
`racadm setniccfg -s 192.168.0.120 255.255.255.0 192.168.0.1`
- `-s6` — Enables static IPv6 settings. The IPv6 address, Prefix Length, and the IPv6 Gateway can be specified.
- `-o` — Enable or disable NIC.
- `-i<slot>` — Must be number `n`, where `n=1-16`
- `-m<module>` — Must be one of the following values:
  - `chassis` — Default state if `-m` is not specified
  - `server-n`: where `n=1-16`
  - `server-nx`: where `n=1-8`; `x=a-d` (lower case)
  - `switch-n`: where `n=1-6`
- `-v` — VLAN settings has following legal values: no arguments imply remove VLAN tag, not compatible with `server-nx` (for example "server-4b") notation `<vlanid>`=between 1 and 4000, 4021 and 4094, inclusive `<vlan priority>`=between 0 and 7, inclusive.
- `-p` — Disables IPv4(default) or IPv6 protocol.
- `-k` — Option has following legal values: no arguments imply autonegotiate `<speed>`=10, 100 `<duplex>`=half, full.

**NOTE:**

- `-o, -k, -p`: These options can be specified for chassis only
- `-6`: Sets static IPv6 addresses(`w/ -s` option). Enables **autoconfig** for IPv6(`w/-d` option) disables IPv6(`w/-p` option) can be specified for chassis or servers.
- `-v`: When performing on a switch, release and renew any DHCP lease on that port for changes to take effect.

**Example**

- `racadm setniccfg -s 192.168.0.120 255.255.255.0 192.168.0.1`
- `racadm setniccfg -d`
- `racadm setniccfg -d6`

## For CMC:

- Configuration of Speed= 100 Mbps and duplex= full duplex.  
`racadm setniccfg -k 100 full`
- Configuration of Speed and Duplex to Autonegotiate.  
`racadm setniccfg -k`
- Configuration of VLAN id and priority of a slot or all blades in a sleeve.  
`racadm setniccfg -i 5 -v 1000 7`
- Configuration of CMC to a static IPv6 address.  
`racadm setniccfg -m chassis -s -6 2001:DB8::2 64 2001:DB8::1`
- Configuration of server to use stateless autoconfiguration address.  
`racadm setniccfg -m server-1 -d -6`
- Configuration of VLAN id and priority for a switch.  
`racadm setniccfg -m switch-1 -v 1000 7`
- Removal of VLAN configuration from a switch.  
`racadm setniccfg -m switch-1 -v`

## setractime

**Description**

Sets the date and time on the CMC.  
To run this subcommand, you must have the Administrator privilege.  
This command is applicable only for CMC.


**Synopsis**

```
racadm setractime -d <YYYYMMDDhhmmss.mmmmmmssoff>
racadm setractime -l <YYYYMMDDhhmmss>
racadm setractime -z ?|<timezone>|<timezone-prefix>*
```


**Input**

- `-d` — Sets the time in the string `YYYYMMDDhhmmss.mmmmmmssoff`, where:
  - `YYYY` is the four-digit year
  - `MM` is the month
  - `DD` is the day
  - `hh` is the hour
  - `mm` is the minute
  - `ss` is the second

- `mmmmmm` is the number of microseconds
- `s` is a + (plus) sign or a - (minus) sign, which indicates the sign of the offset.
- `off` is the offset in minutes.

 **NOTE:** The `off` is the offset in minutes from GMT and must be in 15-minute increments. The `timezone` is represented as an offset from GMT. The clock does not automatically adjust to daylight savings time (for `-d` option).

- `-z <zone>` — Sets the time zone by name or index, or lists possible time zones. For example, PST8PDT (Western United States), 294 (Seoul), 344 (Sydney). `<zone>` may be:
  - `<?>` lists the major timezone names or prefixes.
  - `<timezone>` is the case-sensitive name of your timezone or the index listed in `-z timezone-prefix*`.
  - `<timezone-prefix*>` is a prefix of one or more timezones, followed by `'*'`.

 **NOTE:** The `timezone` or daylight savings time is fully supported for `-l` and `-z` options. To set the `timezone` only (for example `-z US/Central`), do not specify the `-l` option.

- `-l` — Sets the local date and time in the string `YYYYMMDDhhmmss` where:
  - `YYYY` is the year
  - `MM` is the month
  - `DD` is the day
  - `hh` is the hour
  - `mm` is the minute
  - `ss` is the second

Setting the time using the `-l` and `-z` options are recommended. This command format allows the CMC to support local time zones. This command includes the ability to automatically adjust the CMC time to the local Daylight Savings Time.

**Example** The `setractime` subcommand supports dates ranging from 1/1/1970 00:00:00 through 12/31/2030 23:59:59.

To set the local time to November 24, 2012 at 3:02:30 pm.

```
racadm setractime -l 20121124150230
The time was set successfully.
```

## setslotname

**Description** Displays the name and hostname (if available) of all the 16 slots, or of a specified slot (indicated by the slot number) in the chassis. Optionally, this command can be used to set whether the slot name or hostname is displayed in the CMC User Interface or with the `getslotname -i <slot ID>` command. If the hostname is not available, the static slot name is used.

This subcommand is applicable only for CMC.

To run this subcommand, you must have the Administrator privilege.

For rules for selecting slot names, see the "Editing Slot Names" section in the *Dell Chassis Management Controller User Guide*.



**NOTE:** The OMSA server agent must be present and running on the server to use the Display Hostname feature. If the agent is not running, the setting is ignored. For more information, see the *Dell OpenManage Server Administrator User's Guide* at [support.dell.com/manuals](http://support.dell.com/manuals).

**Synopsis**      `racadm setslotname -i <slotID> <slotname>`  
                  `racadm setslotname -h <enabled>`

**Input**

- `<slotID>` — Displays the location of the slot in the chassis.  
       Legal values: 1–16
- `<slotname>` — The new name assigned to the slot.
- `<enabled>` — Sets whether the server's hostname is used for display purposes.  
       Legal values: 0, 1

**Example**      `racadm setslotname -i 3 mserver3`  
                  The slot name was set successfully.

## setsysinfo

**Description**      Sets the name or location of the chassis.  
                       To run this subcommand, you must have the Administrator privilege.  
                       This command is applicable only for CMC.

**Synopsis**      `racadm setsysinfo -c chassisname|chassislocation <string>`

**Input**

- `<string>` — Indicates a maximum of 64 nonextended ASCII chassis name or location.
- `-c` — Sets the chassis name or location.

**Example**      `racadm setsysinfo -c chassisname "Dell Rack System"`  
                  The chassis name was set successfully.

## sshpkauth

**Description**      Enables you to upload and manage up to 4 different SSH public keys per user. You can upload a key file or key text, view keys, or delete keys.  
                       This command has three mutually exclusive modes determined by the options — `upload`, `view`, and `delete`.

Upload

The `upload` mode allows you to upload a keyfile or to copy the key text on the command line. You cannot upload and copy a key at the same time.

Local and Remote RACADM:

`racadm sshpkauth -i <2 to 16> -k <1 to 4> -f <filename>`

`racadm sshpkauth -i <2 to 16> -k <1 to 4> -t`

`<key-text>`

#### Telnet/SSH/serial RACADM:

```
racadm sshpkauth -i <2 to 16> -k <1 to 4> -t
<key-text>
```

#### View

The view mode allows the user to view a user-specified key or all keys.

```
racadm sshpkauth -i <2 to 16> -v -k <1 to 4>
racadm sshpkauth -i <2 to 16> -v -k all
```

#### Delete

The delete mode allows the user to delete the user-specified key or all keys.

```
racadm sshpkauth -i <2 to 16> -d -k <1 to 4>
racadm sshpkauth -i <2 to 16> -d -k all
```

### Synopsis

```
racadm sshpkauth
```

### Input

- `-i <user index>` — Index for the user. `<user index>` must be between 2 to 16 on iDRAC.
- `-k [<key index> | all]` — Index to assign the PK key being uploaded. *all* only works with the `-v` or `-d` options. `<key index>` must be between 1 to 4 or *all* on iDRAC.
- `-t <PK Key Text>` — Key text for the SSH Public key.
- `-f <filename>` — File containing the key text to upload. The `-f` option is not supported on Telnet/SSH/serial RACADM.
- `-v` — View the key text for the index provided.
- `-d` — Delete the key for the index provided.

### Examples

- Upload an invalid key to iDRAC User 2 in the first key space using a string.

```
$ racadm sshpkauth -i 2 -k 1 -t "This is invalid key
Text"

ERROR: Key text appears to be corrupt
```
- Upload a valid key to iDRAC User 2 in the first key space using a file.

```
$ racadm sshpkauth -i 2 -k 1 -f pkkey.key

Key file successfully uploaded.
```
- Get all keys for User 2 on iDRAC.

```
$ racadm sshpkauth -v -i 2 -k all

***** User ID 2 *****

Key ID 1:

ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAIEAzzy
+k2nnpnKqVEXGXIzo0sbR6JgA5YNbWs3ekoxXV
fe3yJVpVc/5zrrr7XrwKbJAJTqSw8Dg3iR4n3vUaP
+lPHmUv5Mn55Ea6LHUs1AXFqXmOdlThd
```

wilU2VLw/iRH1ZymUFnut8gggPQgqV2L8bsUaMqb5PooIIvV6hy4isCNJU=  
1024-bit RSA, converted from OpenSSH by xx\_xx@xx.xx

Key ID 2:

Key ID 3:

Key ID 4:

## sslcertdownload

**Description** Downloads an SSL certificate from iDRAC or CMC to the client's file system.  
To run this subcommand, you must have the Configure iDRAC permission.


**Synopsis** `racadm sslcertdownload -f <filename> -t <type>`

**Input**

- `-f` — Specifies the target filename on local file system to download the certificate.
- `-t` — Specifies the type of certificate to download, either the CA certificate for Directory Service or the server certificate.
  - 1=server certificate
  - 2=CA certificate for Directory Service
  - 3=Custom signing certificate

**Output** Returns 0 when successful and nonzero number when unsuccessful.


**Example** `racadm sslcertdownload -t 1 -f c:\cert\cert.txt`

 **NOTE:** This command is not supported in the firmware RACADM interface as it is not a file system.

## sslcertupload

**Description** Uploads a custom SSL server or CA certificate for Directory Service from the client to iDRAC or CMC.

To run this subcommand, you must have the Configure iDRAC permission.

 **NOTE:** For CMC only: This subcommand is only supported on the remote interfaces.

**Synopsis** `racadm sslcertupload -t <type> -f <filename> -p <passphrase> [-k <key file>]`

For CMC only:

`racadm sslcertupload -f <filename> -t <type>`

**Input**

- `-t` — Specifies the type of certificate to upload. The type of certificate must be:
  - 1 — server certificate (CMC only)
  - 2 — Active directory (CMC only)
  - 3 — Public Key Cryptography Standards (PKCS) format (iDRAC only)
  - 5 — Kerberos Keytab (CMC only)
  - 6 — Server certificate and key (CMC only)
- `-f` — Specifies the source filename in the local file system of the certificate uploaded.
- `-e` — Allows for upload of multiple certificate format types.



- -1=Base64
- -2=PKCS12

The current release does not support this option.

- -p — Pass phrase for decrypting the PKCS12 file uploaded.
- -k — Filename of the private key file while using type 6. The private key is generated when the CSR is generated. If the CSR is generated on another server, then it is necessary to upload the private key with the certificate.

**Output** The `sslcertupload` command returns 0 when successful and returns nonzero number when unsuccessful.

**Example**


- Uploading a server certificate.  
`racadm sslcertupload -t 1 -f c:\cert\cert.txt`
- Uploading a PKCS file without any passphrase.  
`racadm sslcertupload -t 3 -f <filename>`
- Uploading a PKCS file with a passphrase.  
`racadm sslcertupload -t 3 -f <filename> -p <passphrase>`


## sslcertview

**Description** Displays the SSL server or CA certificate that exists on iDRAC.  
To run this subcommand, you must have the iDRAC Login Privilege.

**Synopsis** `racadm sslcertview -t <type> [-A]`

- Input**
- -t — Specifies the type of certificate to view, either the CA certificate or server certificate.
    - 1=server certificate
    - 2=CA certificate for Directory Service
  - -A — Prevents printing headers or labels.

 **NOTE:** If a certificate is generated using comma ',' as one of the parameters for the Organization Name, Common Name, Location Name, or State Name, then this command displays the partial name in the respective fields only up to the comma. The rest of the string is not displayed.

 **NOTE:** For CMC: For self-signed certificate, the common name includes PQDN (Partially qualified domain name) or FQDN (Fully qualified domain name).

**Output**

`racadm sslcertview -t 1`

```
Serial 01
Number
```

**Subject Information:**

```
Country US
Code (CC)
```

State (S) Texas  
Locality (L) Round Rock  
Organization (O) Dell Inc.  
Organizational Unit (OU) Remote Access Group  
Common Name (CN) iDRAC7 Default certificate

**Issuer  
Information:**

Country Code (CC) US  
State (S) Texas  
Locality (L) Round Rock  
Organization (O) Dell Inc.  
Organizational Unit (OU) Remote Access Group  
Common Name (CN) iDRAC7 Default certificate  
Valid From Jul 7 23:54:19 2011 GMT  
Valid To Jun 4 23:54:19 2021 GMT

```

racadm sslcertview -t 1 -A
00
US
Texas
Round Rock
Dell Inc.
Remote Access Group
iDRAC7 default certificate
US
Texas
Round Rock
Dell Inc.
Remote Access Group
iDRAC7 default certificate
Jun 7 23:54:19 2011 GMT
Jun 4 23:54:19 2021 GMT

```

## sslcertdelete


- Description** Command to delete a custom signing certificate from iDRAC.  
To run this subcommand, you must have the administrator permission.
- Synopsis** `racadm sslcertdelete -t <type>`
- Input** `-t` — Specifies the type of certificate to delete. The type of certificate is:
- 3 — Custom signing certificate
- Output** The following information is displayed:
- The custom signing certificate was deleted.
  - The iDRAC resets and may be offline temporarily.
- Example** Use Remote RACADM to delete the custom signing certificate.
- ```
$ racadm -r 192.168.1.1 -u root -p calvin sslcertdelete -t 3
```

sslcsrgen

- Description** Generates and downloads a CSR file to the client's local file system. The CSR can be used for creating a custom SSL certificate that can be used for SSL transactions on iDRAC.
To run this subcommand, you must have the Configure iDRAC permission.
- Synopsis** `racadm sslcsrgen [-g] [-f <filename>]`
`racadm sslcsrgen -s`

Input

- `-g` — Generates a new CSR.
- `-s` — Returns the status of a CSR generation process (generation in progress, active, or none).
- `-f` — Specifies the filename of the location, `<filename>`, where the CSR is downloaded.

 **NOTE:** If the `-f` option is not specified, the filename defaults to **sslcsr** in your current directory.

Output


If no options are specified, a CSR is generated and downloaded to the local file system as **sslcsr** by default. The `-g` option cannot be used with the `-s` option, and the `-f` option can only be used with the `-g` option.

The `sslcsrngen -s` subcommand returns one of the following status codes:


- CSR was generated successfully.
- CSR does not exist.

Example

```
racadm sslcsrngen -s
or
racadm sslcsrngen -g -f c:\csr\csrtest.txt
```

 **NOTE:** Before a CSR can be generated, the CSR fields must be configured in the RACADM `cfgRacSecurity` group. For example:

```
racadm config -g cfgRacSecurity -o cfgRacSecCsrCommonName MyCompany
```

 **NOTE:** In Telnet/SSH console, you can only generate and not download the CSR file.

sslkeyupload

Description

Uploads SSL key from the client to iDRAC.

To run this subcommand, you must have the Configure iDRAC permission.

Synopsis

```
racadm sslkeyupload -t <type> -f <filename>
```

Input

- `-t` — Specifies the key to upload.
 - 1=SSL key used to generate the server certificate
- `-f` — Specifies the filename of the SSL key that must be uploaded.

Output

Returns 0 when successful and nonzero number when unsuccessful.

Example

```
racadm sslkeyupload -t 1 -f c:\sslkey.txt
```

sslresetcfg

Description


Restores the web-server certificate to factory default and restarts web-server. The certificate takes effect 30 seconds after the command is entered.

To run this subcommand, for CMC you must have the Chassis Configuration Administrator privilege. For iDRAC, you must have the Configure iDRAC privilege.

Synopsis


```
racadm sslresetcfg
```

Example \$ racadm sslresetcfg
Certificate generated successfully and webserver restarted.

 **NOTE:** For more information about managing SSL certificates, see the “Securing CMC Communications Using SSL and Digital Certificates” section in the *Dell Chassis Management Controller User Guide*.

swinventory

Description Displays the list of software objects and associated properties installed on a server.
This subcommand is applicable only for iDRAC.

 **NOTE:** Lifecycle Controller and CSIOR may not be enabled to run this subcommand.

Synopsis racadm swinventory

Input racadm swinventory

Output racadm swinventory

```
-----SOFTWARE
INVENTORY-----
ComponentType      = FIRMWARE
ElementName        = Power Supply.Slot.2
FQDD                = PSU.Slot.2
InstallationDate    = 2013-06-11T13:02:46Z
Current Version    = 07.2B.7D
-----
ComponentType      = FIRMWARE
ElementName        = Integrated Remote Access Controller
FQDD                = iDRAC.Embedded.1-1
InstallationDate    = NA
Rollback Version   = 1.50.50
-----
-
ComponentType      = FIRMWARE
ElementName        = Integrated Remote Access Controller
FQDD                = iDRAC.Embedded.1-1
InstallationDate    = 2013-06-11T13:02:48Z
Current Version    = 1.50.50
```

systemconfig


Description Enables you to back up and restore for iDRAC configurations and firmware.
This subcommand is applicable only for iDRAC.

NOTE:


- To run this subcommand, you require the Server Profile Export and Import license.
- Backup operation is licensed but restore operation is not licensed (Enterprise).
- If Lifecycle Controller is 'disabled', then the attempt to start a restore operation is unsuccessful.
- If CSIOR is disabled, then the system inventory may not be current during the backup operation. An appropriate warning message is displayed.
- The `autobackupscheduler` can be enabled or disabled. For more information about enable or disable, see [LifecycleController.LCAttributes.autobackup \(Read or Write\)](#)
- The minimum Lifecycle Controller version required is Lifecycle Controller2 1.3.


Synopsis

- `racadm systemconfig backup -f <filename> <target> [-n passphrase] [-l <location> -u <user name> -p <password>] [--vFlash]`
- `racadm systemconfig restore -f <filename> <target> [-n passphrase] [--nopreserve] [-l <location> -u <user name> -p <password>] [--vFlash]`
- To create an AutoBackup Schedule.
`racadm systemconfig backup -f <filename> <target> [-n <passphrase>] [-l <location> -u <user name> -p <password>] [--vFlash] -time <time> -dom <DayOfMonth> -wom <WeekOfMonth> -dow <DayOfWeek> -rp <repeat> -mb <MaxBackup>`
- To view an AutoBackup Schedule.
`racadm systemconfig getbackupscheduler`
- To delete an AutoBackup Schedule.
`racadm systemconfig clearbackupscheduler`

 **NOTE:** After the parameters are cleared, the AutoBackupScheduler is disabled. To schedule the backup again, enable the AutoBackupScheduler.

Input

- `-n` — Specifies a pass phrase used to encrypt or decrypt the configuration data. This pass phrase is optional.
- `-l` — Specifies the network share location, can be either CIFS or NFS.
- `-f` — Specifies the image location and the file name.
 **NOTE:** If the file is in a subfolder within the share location, then specify the network share location in the `-l` option and specify the subfolder location and the filename in the `-f` option.
- `-u` — Specifies the user name for the remote share access.
- `-p` — Specifies the password for the remote share access.
- `--vFlash` — Selects vFlash SD as target location for back up. `<filename>` is not required for this target type.
- `--nopreserve` — Deletes all the virtual disks and configurations.
- `-time`: Specifies the time to schedule an autobackup in HH:MM format. This parameter must be specified.
- `-dom`: Specifies the day of month to schedule an autobackup. Valid values are 1–28, L(Last day) or '*' (default — any day).
- `-wom` : Specifies the week of month to schedule an autobackup. Valid values are 1–4, L(Last week) or '*' (default — any week).
- `-dow`: Specifies the day of week to schedule an autobackup. Valid values are sun, mon, tue, wed, thu, fri, sat, or '*' (default — any day).

 **NOTE:** The `-dom`, `-wom`, or `-dow` option must be included in the command for the autoupdate schedule. The `*` value for the options must be included within `'` (single quotation mark).

- If the `-dom` option is specified, then the `-wom` and `-dow` options are not required.
 - If the `-wom` option is specified, then the `-dow` is required and `-dom` is not required.
 - If the `-dom` option is non-`'*`', then the schedule repeats by month.
 - If the `-wom` option is non-`'*`', then the schedule repeats by month.
 - If the `-dom` and `-wom` options are `'*`' and the `-dow` option is non-`'*`', then the schedule repeats by week.
 - If all the three `-dom`, `-wom` and `-dow` options are `'*`', then the schedule repeats by day.
- `-rp`: Specifies the repeat parameter. This parameter must be specified.
 - If the `-dom` option is specified, then the valid values for `-rp` are 1–12.
 - If the `-wom` option is specified, then the valid values for `-rp` are 1–52
 - If the `-dow` option is specified, then the valid values for `-rp` are 1–366.
 - `-mb`: Specifies the maximum backup parameter. For `--vflash` maximum backup is 1.

 **NOTE:**

- Avoid using the `-l`, `-u`, and `-p` options with `--vFlash` option.
- If a backup file is created in a subfolder within the CIFS shared folder, then the subfolder name must be mentioned in the filename option.

Output

Job ID is displayed when the back up or restore operation is successful.

Example

- Back up system to CIFS share and encrypt the data.

```
racadm systemconfig backup -f image.img -l //192.168.2.140/share -u admin -p passwd -n encryptpasswd123
```
- Back up system to NFS share and encrypt the data.

```
racadm systemconfig backup -f image.img -l 192.168.2.140 :/share -u admin -p passwd -n encryptpasswd123
```
- Back up system to vFlash SD.

```
racadm systemconfig backup --vFlash
```
- Restore system from vFlash SD and clear the VD configurations.

```
racadm systemconfig restore -vFlash --nopreserve
```
- Restore system from NFS share without clearing the VD configurations.

```
racadm systemconfig restore -f image.img -l 192.168.2.140:/share -u admin -p passwd
```
- Create a backup file in a subfolder within the CIFS shared folder.

```
racadm systemconfig backup -f rts/Backup.img -l //10.94.161.200/CIFSshare -u username -p password
```
- To enable or disable AutoBackupScheduler.

```
racadm set lifecyclecontroller.lcattributes.autobackup 1
racadm set lifecyclecontroller.lcattributes.autobackup 0
```

 - AutoBackup system to CIFS share and encrypt the data.

```
racadm systemconfig backup -f image.img -l //192.168.2.140/share -u admin -p passwd -n encryptpasswd123 -time 14:30 -dom 1 -rp 6 -mb 10
```

- AutoBackup system to NFS share and encrypt the data.

```
racadm systemconfig backup -f image.img -l 192.168.2.140:/share -u admin -p passwd -n encryptpasswd123 -time 14:30 -dom 1 -rp 6 -mb 20
```
- AutoBackup system to vFlash SD.

```
racadm systemconfig backup --vFlash -time 10:30 -wom 1 -dow mon -rp 6 -mb 1
```

testemail

Description Sends a test email from iDRAC to a specified destination. Prior to running the test email command, make sure that the SMTP server is configured. The specified index in the RACADM **cfgEmailAlert** group must be enabled and configured properly. For more information, see [cfgEmailAlert](#).

Synopsis `racadm testemail -i <index>`

Input `-i` — Specifies the index of the email alert to test.

Output Success: Test e-mail sent successfully

Failure: Unable to send test e-mail

Example Commands for the **cfgEmailAlert** group:

- Enable the alert.

```
racadm config -g cfgEmailAlert -o cfgEmailAlertEnable -i 1
```
- Set the destination email address.

```
racadm config -g cfgEmailAlert -o cfgEmailAlertAddress -i 1 user1@mycompany.com
```
- Set the custom message that is sent to the destination email address.

```
racadm config -g cfgEmailAlert -o cfgEmailAlertCustomMsg -i 1 "This is a test!"
```
- Make sure that the SMTP IP address is configured properly.

```
racadm config -g cfgRemoteHosts -o cfgRhostsSmtServerIpAddr 192.168.0.152
```
- View the current email alert settings.

```
racadm getconfig -g cfgEmailAlert -i <index>
```

where `<index>` is a number from 1 to 4.

testfeature

Description Tests CMC features.
This subcommand is applicable only for CMC.


Synopsis `racadm testfeature -f AD -u <user@domain> -p <password> [-d <debug level>]`

`racadm testfeature -f ADKRB -u <user@domain> -p <password> [-d <debug level>]`

`racadm testfeature -f LDAP -u <user> -p <password> [-d <debug level>]`

Input

- `-f <feature>` — options are:
 - `AD` — Test AD using simple authentication
 - `ADKRB` — Test AD using Kerberos authentication
 - `LDAP` — Test Generic LDAP
- `-u <user>` — On the basis of a feature, `<user>` is user or user@domain.
- `-p <password>` — Password for the user.
- `-d <debug level>` — The following bitmask:
 - `0x00` — quiet
 - `0x01` — verbose
 - `0x02` — debug
 - `0x04` — info
 - `0x08` — warning
 - `0x10` — errors
 - `0x20` — fatal
 - `0x40` — checks
 - `0xff` — all debug information
 - `0xd0` — default debug level for AD and ADKRB.
 - `0xf0` and `0xf2` — default debug level for LDAP.

 **NOTE:** `-d` option is only supported on the firmware interface or firmware interfaces.

Example

- To test AD.

```
racadm testfeature -f AD -u joe@dell.com -p dell123
```
- To test AD.

```
racadm testfeature -f AD -u joe@dell.com -p dell123
```
- To test LDAP.


```
racadm testfeature -f LDAP -u joe -p dell123 -d 0xf2
```


testtrap

Description

Tests the RAC's SNMP trap alerting feature by sending a test trap from iDRAC to a specified destination trap listener on the network.

To run this subcommand, you must have the Test Alerts permission.

 **NOTE:** For iDRAC only, before you run the `testtrap` subcommand, make sure that the specified index in the `RACADM cfgIpmiPet` group is configured properly. The `cfgIpmiPet` group is applicable only for iDRAC.

 **NOTE:** For CMC only, before you run the `testtrap` subcommand, make sure that the specified index in the `RACADM cfgAlerting` group is configured properly. The `cfgAlerting` group is applicable only for CMC.

Synopsis

```
racadm testtrap -i <index>
```

Input

`-i` — Specifies the index of the trap configuration that must be used for the test. Valid values are from 1 to 4.

Example

Commands for the **cfgIpmiPet** group:

- **Enable the alert.**
`racadm config -g cfgIpmiPet -o cfgIpmiPetAlertEnable -i 1`
- **Set the destination email IP address.**
`racadm config -g cfgIpmiPet -o cfgIpmiPetAlertDestIpAddr -i 1 192.168.0.110`
- **View the current test trap settings.**
`racadm getconfig -g cfgIpmiPet -i <index>`
where <index> is a number from 1 to 4

testalert

Description

Tests FQDN supported SNMP trap notifications.
To run this subcommand, you must have the Test Alert User Access.
This subcommand is applicable only for iDRAC.

Synopsis

```
racadm testalert -i <index>
```

Input

`-i` — Specifies the index of the trap test. *index* must be an integer from 1 to 8 on iDRAC.

Output

```
Success: Test trap sent successfully  
Failure: Unable to send test trap
```

Example

- **Test a trap with index as 1.**
`racadm testalert -i 1`
Test trap sent successfully.
- **Test a trap that has not been configured yet.**
`racadm testalert -i 2`
ERROR: Trap at specified index is not currently enabled.

traceroute

Description

Traces network path of the routers as the packets traverse from the system to a destination IPv4 address.
To run this subcommand for CMC, you must have the Administrator privilege. For iDRAC, you must have the Execute Diagnostic Commands permission.

Synopsis

```
racadm traceroute <IPv4 address>  
racadm traceroute 192.168.0.1
```

Input

```
racadm traceroute 192.168.0.1
```

Output

```
traceroute to 192.168.0.1 (192.168.0.1), 30 hops  
max,  
40 byte packets  
1 192.168.0.1 (192.168.0.1) 0.801 ms 0.246 ms 0.253 ms
```

traceroute6

Description	Traces the network path of routers as the packets traverse from the system to a destination IPv6 address. To run this subcommand for CMC, you must have the Administrator privilege. For iDRAC, you must have the Execute Diagnostic Commands permission.
Synopsis	<code>racadm traceroute6 <IPv6 address></code> <code>racadm traceroute6 fd01::1</code>
Output	<code>traceroute to fd01::1 (fd01::1) from fd01::3,</code> <code>30 hops</code> <code>max, 16 byte packets</code> <code>1 fd01::1 (fd01::1) 14.324 ms 0.26 ms 0.244 ms</code>


update

Description Allows you to update the platforms for devices on the servers. The supported firmware image file types are:

- **.exe** — Windows-based Dell Update Package (DUP)
- **.d7**
- **.usc**
- **.pm**

The supported catalog files are:

- **.xml**
- **.xml.gz**

 **NOTE:** Updating the platforms from the repository is not supported for IPv6.

This subcommand is applicable only for iDRAC.

Synopsis	<code>racadm update -f <updatefile></code> <code>racadm update -f <updatefile> -l <Remote CIFS Share> -u <username for CIFS share> -p <password for CIFS share></code> <code>racadm update -f <updatefile> -l <Remote NFS Share></code> <code>racadm update -f <catalog file update file> -l <Remote NFS Share> -u <username> -p <password> [-t xml] [-a <FALSE TRUE>] [--verifycatalog]</code> <code>racadm update -f <catalog file> -t <Repository type cifs/nfs> -l <Remote CIFS/NFS Share> -u <username for CIFS share> -p <password for CIFS share></code> <code>racadm update -f <catalog file> -t <FTP> -e <FTP server with the path to the catalog file></code> <code>racadm update viewreport</code>
-----------------	---

Input

- **-f** — Update filename for Windows DUP, **.d7**, **.usc**, **.pm** only.

For update from repository **.xml** files are allowed.

If a file name is not specified for repository update, then the **Catalog.xml** is taken as default.

- **-u** — Specifies user name of the remote share that stores the update file. Specify user name in a domain as domain or username.
- **-p** — Specifies password of the remote share that stores the update file.
- **-l** — Specifies network share location that stores the update file. For more information about NFS or CIFS share, see the Usage examples section.
- **-a** — This option indicates whether or not the server must be restarted after the update from repository operation completes. It takes TRUE and FALSE as options. These options are case-insensitive.
- **-t** — Type of repository being used for update. The valid options are **FTP**, **CIFS**, and **NFS**. These options are case-insensitive. If the repository update functionality is invoked, then this option must be run.
- **-e** — Specifies the server path for the FTP.
- **--verifycatalog** — Tests the list of DUPs that are applied and generates a report.
- **-ph** — Specifies the IP address of the proxy server.
- **-pp** — Specifies the password for proxy credentials.
- **-pu** — Specifies the user name for proxy credentials.
- **-po** — Specifies the port for proxy server.
- **-pt** — Specifies the proxy type. Valid values are **HTTP** and **HTTPS**. These values are case-insensitive.



NOTE:

- If the repository has to be through a proxy, then the proxy server address, proxy username and the proxy password must be specified.
- The Lifecycle Controller must be enabled for repository update.

Output

Firmware update job for <filename> is initiated.

This firmware update job may take several minutes to complete depending on the component or firmware being updated. To view the progress of the job, run the `racadm jobqueue view` command.

For repository update command, the output is:

```
Update from repository operation has been initiated. Check the
progress of the operation using "racadm jobqueue view -i
JID_809364633532" command.
```

Example

- Upload the update file from a remote CIFS share.
`racadm update -f <updatefile> -u admin -p mypass -l //1.2.3.4/share`
- Upload the update file from a remote NFS share:
`racadm update -f <updatefile> -l //1.2.3.4/share`
- Upload the update file from the local file system using Local RACADM.
`racadm update -f <updatefile>`
- Upload the update file from a remote CIFS share.
`racadm update -f <updatefile> u admin -p mypass -l //1.2.3.4/share`
- Upload the update file from a remote CIFS share and under a user domain "dom".
`racadm update -f <updatefile> -u dom/admin -p mypass -l //1.2.3.4/share`

- Upload the update file from a remote NFS share.
`racadm update -f <updatefile> -l 1.2.3.4:/share`
- Upload the update file from the local file system using Local RACADM.
`racadm update -f <updatefile>`
- Perform update from a CIFS repository and to apply the updates, reboot the server.
`racadm update -f Catalog.xml -l //192.168.11.10/Repo -u test -p passwd -a TRUE -t CIFS`
- Generate a comparison report using the available updates in the repository.
`racadm update -f Catalog.xml -l 192.168.11.10:/Repo -t NFS -a FALSE --verifycatalog`
- Perform update from an FTP repository and to apply the updates, reboot the server.
`racadm update -f Catalog.xml -e 192.168.11.10/Repo/MyCatalog -a TRUE -t FTP`
- Perform update from an FTP repository through a proxy server.
`racadm update -f Catalog.xml -e 192.168.11.10/Repo/MyCatalog -a TRUE -ph 145.140.12.56 -pu prxyuser -pp prxypass -po 80 -pt http -t FTP`
- Perform update from **ftp.dell.com**.
`racadm update -f Catalog.xml.gz -e ftp.dell.com/Catalog -a TRUE -t FTP`
- View the comparison report generated.
`racadm update viewreport`

```

ComponentType      = Application
ElementName        = Lifecycle Controller, 1.3.0.484, X15
FQDD               = USC.Embedded.1:LC.Embedded.1
Current Version    = 1.3.0.484
Available Version  = 1.3.0.518

```

usercertupload

Description	Uploads a user certificate or a user CA certificate from the client to iDRAC. To run this subcommand, you must have the Configure iDRAC permission. This option is applicable only to iDRAC.
Synopsis	<code>racadm usercertupload -t <type> [-f <filename>] -i <index></code>
Input	<ul style="list-style-type: none"> • <code>-t</code> — Specifies the type of certificate to upload, either the CA certificate or server certificate. <ul style="list-style-type: none"> - 1=user certificate - 2=user CA certificate • <code>-f</code> — Specifies the filename of the certificate that must be uploaded. If the file is not specified, the sslcert file in the current directory is selected. • <code>-i</code> — Index number of the user. Valid values 1–16.
Output	Returns 0 when successful and nonzero number when unsuccessful.
Example	<code>racadm usercertupload -t 1 -f c:\cert\cert.txt -i 6</code>

usercertview

Description Displays the user certificate or user CA certificate that exists on iDRAC.
This subcommand is applicable only for iDRAC.

Synopsis `racadm usercertview -t <type> [-A] -i <index>`

Input

- `-t` — Specifies the type of certificate to view, either the user certificate or the user CA certificate.
 - 1=user certificate
 - 2=user CA certificate
- `-A` — Prevents printing headers or labels.
- `-i` — Index number of the user. Valid values are 1–16.

Output

```
Serial Number           : 01

Subject Information:
Country Code (CC)      : US
State (S)              : Texas
Locality (L)          : Round Rock
Organization (O)       : Dell Inc.
Common Name (CN)       : iDRAC7 default certificate

Issuer Information:
Country Code (CC)      : US
State (S)              : Texas
Locality (L)          : Round Rock
Organization (O)       : Dell Inc.
Organizational Unit (OU) : Remote Access Group
Common Name (CN)       : iDRAC7 default certificate

Valid From             : Jun 7 23:54:19 2011 GMT
Valid To               : Jun 4 23:54:19 2021 GMT
```

vflashsd

Description Allows you to initialize or get the status of the vFlash SD card. The initialize operation removes all the existing partitions and resets the card.

The status operation displays the status of the last operation performed on the card.

This subcommand is applicable only for iDRAC.

To run this subcommand, you must have the Access Virtual Media privilege.

 **NOTE:** After you restart the iDRAC, the status of the previous initialize operation is erased.

Synopsis

- `racadm vflashsd initialize`
- `racadm vflashsd status`

vflashpartition

Description Manages the partitions on the vFlash SD card.

**NOTE:**

- To run this subcommand, you must have the iDRAC7 Enterprise license.
- After iDRAC restart, the status of the previous operation performed on the partition(s) is erased.

Synopsis

```
racadm vflashpartition <create | delete | status | list> -i<index>
-o<label> -e<emulation type> -s<size> -f<format type> -t<partition
type> -l<path> -u<user> -p<password> -a
```

Input

- -o — Label that is displayed when the partition is mounted on the operating system. This option must be a string of upto six alphanumeric characters. VFLASH is the only accepted volume label for non-Dell SD card.
- -e — Emulation type must be either floppy, CD, DVD, or HDD.
- -s — Partition size in MB.
- -f — Format type for the partition based on the type of the file system. Valid options are `raw`, `ext2`, `ext3`, `fat16`, and `fat32`.
- -t — Create a partition of the following type:
 - `empty` — Creates an empty partition
 - `image` — Creates a partition using an image relative to iDRAC.



NOTE: Creating an empty partition with emulation type as floppy with ext2 format type by using the Telnet session might result in a state where the partition creation status is shown as zero. If this happens then it is recommended to remove the SD card and format it in order to reuse.

Creation of a partition may be unsuccessful if:

- The network share is not reachable.
- The user name or password provided is not correct.
- The file provided does not exist.
- The memory available on the SD card is lesser than size of the image file.
- -l — Specifies the remote path relative to iDRAC.
- -u — User name for accessing the remote image.
- -p — Password for accessing the remote image.
- -a — Display the status of operations on all the existing partitions.
- `list` — Lists the existing partitions and its properties.

Example

- Create a 20MB empty partition.

```
racadm vflashpartition create -i 1 -o Drive1 -e hdd -t empty -f
fat16 -s 20
```

- Create a partition from a remote image.

```
racadm vflashpartition create -i 1 -o Drive1 -e cddvd -t image -
l
//ipaddress/sharefolder/isoimg.iso -u username -p password
```

A new partition is created. By default, the created partition is read-only. This command is case-sensitive for the image filename extension. If the filename extension is in uppercase, for example FOO.ISO instead of FOO.iso, then the command returns a syntax error.

 **NOTE:**

- This feature is not supported in Local RACADM.
- Creating vFlash partition from an image file on the CFS or NFS IPv6 enabled network share is not supported.
- Delete a partition.
`racadm vflashpartition delete -i 1`
- Status of operation on partition 1.
`racadm vflashpartition status -i 1`
- Status of all the existing partitions.
`racadm vflashpartition status -a`
- List all the existing partitions and its properties.
`racadm vflashpartition list`



vmdisconnect

Description	<p>Allows you to end another Virtual Media session. After the session ends, the web-based interface reflects the correct connection status.</p> <p>Enables an iDRAC user to disconnect all active Virtual Media sessions. The active Virtual Media sessions are displayed on iDRAC web-based interface or by running the RACADM subcommands <code>remoteimage</code> or <code>getssninfo</code>.</p> <p>This subcommand is applicable only for iDRAC.</p> <p>To run this subcommand, you must have the Access Virtual Media permission.</p>
Synopsis	<pre>racadm vmdisconnect</pre>

iDRAC and CMC Property Database Group and Object Descriptions

The iDRAC and CMC property database contains the configuration information for iDRAC and CMC. Associated object is organizing data, and object group is organizing object. The IDs for the groups and objects that the property database supports are listed in this section for iDRAC Enterprise on Blade Servers, iDRAC Enterprise or Express on Rack and Tower Servers and CMC.

To configure iDRAC and CMC, use the group and object IDs with the RACADM subcommands.

-  **NOTE:** You can configure a setting that does not have a hash symbol (#) as the prefix in its output name. To modify a configurable object, use the `-o` option.
-  **NOTE:** Racadm sets the value of objects without performing any functional validation on them. For example, RACADM allows you to set the Certificate Validation object to 1 with the Active Directory object set to 0, even though Certificate Validation can happen only if Active Directory is enabled. Similarly, the **cfgADSSOEnable** object can be set to 0 or 1 even if the **cfgADEnable** object is 0, but it takes effect only if Active Directory is enabled.

All string values are limited to displayable ASCII characters, except where otherwise noted.

Displayable Characters

Displayable characters include the following set:

abcdefghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNPOQRSTUVWXYZ

0123456789~`!@#\$\$%^&*()_+={ } [] | \ : " ; ' < > , . ? /

The following table provides an overview of the object groups applicable for iDRAC Enterprise on Blade Servers, iDRAC on Rack and Tower Servers, and CMC.

Subcommand	iDRAC on Blade Servers	iDRAC on Rack and Tower Servers	CMC
idRacInfo	Yes	Yes	Yes
cfgLanNetworking	Yes	Yes	Yes
cfgRemoteHosts	Yes	Yes	Yes
cfgUserAdmin	Yes	Yes	Yes
cfgEmailAlert	Yes	Yes	Yes
cfgSessionManagement	Yes	Yes	Yes
cfgSerial	Yes	Yes	Yes
cfgOobSnmp	Yes	Yes	Yes
cfgTraps	No	No	Yes
cfgRacTuning	Yes	Yes	Yes
ifcRacManagedNodeOs	Yes	Yes	No

Subcommand	iDRAC on Blade Servers	iDRAC on Rack and Tower Servers	CMC
cfgRacSecurity	No	No	Yes
cfgRacVirtual	Yes	Yes	No
cfgServerInfo	No	Yes	Yes
cfgActiveDirectory	Yes	Yes	Yes
cfgLDAP	Yes	Yes	Yes
cfgLdapRoleGroup	Yes	Yes	Yes
cfgStandardSchema	Yes	Yes	Yes
cfgChassisPower	No	No	Yes
cfgIpmiSol	Yes	Yes	No
cfgIpmiLan	Yes	Yes	No
cfgIpmiPetIpv6	Yes	Yes	No
cfgIpmiPef	Yes	Yes	No
cfgIpmiPet	Yes	Yes	No
cfgUserDomain	Yes	Yes	No
cfgServerPower	Yes	Yes	No
cfgKVMInfo	No	No	Yes
cfgAlerting	No	No	Yes
cfgServerPowerSupply	No	Yes	No
cfgIPv6LanNetworking	Yes	Yes	Yes
cfgCurrentLanNetworking Read Only	No	No	Yes
cfgCurrentIPv6LanNetworking Read Only	No	No	Yes
cfgIPv6URL	Yes	Yes	No
cfgIpmiSerial	No	Yes	No
cfgSmartCard	Yes	Yes	No
cfgNetTuning	No	Yes	Yes
cfgSensorRedundancy	No	Yes	No
cfgVFlashSD	Yes	Yes	No
cfgVFlashPartition	Yes	Yes	No
cfgLogging	Yes	Yes	No

idRacInfo

This group contains display parameters to provide information about the specifics of iDRAC or CMC being queried. One instance of the group is allowed.

For CMC, use this object with the **getconfig** subcommand.

To use this object for CMC, you must have the CMC Login User privilege.

The following sections provide information about the objects in the **idRACInfo** group.

idRacProductInfo (Read Only)

Description	A text string that identifies the product.
Legal Values	A string of up to 63 ASCII characters.
Default for iDRAC	iDRAC – Integrated Dell Remote Access Controller
Default for CMC	Chassis Management Controller

idRacDescriptionInfo (Read Only)

Description	A text description of the RAC type.
Legal Values	A string of up to 255 ASCII characters.
Default	This system component provides a complete set of remote management functions for Dell PowerEdge servers.

idRacVersionInfo (Read Only)

Description	String containing the current product firmware version
Legal Values	A string of up to 63 ASCII characters.
Default	The current version number.

idRacBuildInfo (Read Only)

Description	String containing the current RAC firmware build version.
Legal Values	A string of up to 16 ASCII characters.
Default for iDRAC	The current iDRAC firmware build version.
Default for CMC	The current CMC firmware build version.

idRacName (Read Only)

Description	A user-assigned name to identify this controller.
Legal Values	A string of up to 15 ASCII characters.
Default for iDRAC	iDRAC
Default for CMC	CMC

iDRAC Type (Read Only)

Description	Identifies the remote access controller type.
Legal Values	Product ID
Default	For CMC: 9 For 10G iDRAC: 8 For 11G iDRAC6 on Rack and Servers: 10 For 11G iDRAC6 Enterprise on Blade Servers: 11 For 12G iDRAC7 on Rack and Servers: 16 For 12G iDRAC7 Enterprise on Blade Servers: 17

Example

```
racadm getconfig -g idRacInfo

# idRacType=8
# idRacProductInfo=Chassis Management Controller
# idRacDescriptionInfo=This system component provides a complete
set of remote management functions for blade servers
# idRacVersionInfo=P21
# idRacBuildInfo=200708301525
# idRacName=CMC-1

racadm getconfig -g idRacInfo

# idRacType=16
# idRacProductInfo=Integrated Dell Remote Access Controller
# idRacDescriptionInfo=This system component provides a complete set of remote
management functions for Dell PowerEdge Servers
# idRacVersionInfo=1.06.06
# idRacBuildInfo=15
# idRacName=idrac-GSRS3V1
```


cfgLanNetworking

This group contains parameters to configure iDRAC or CMC NIC for IPv4.

One instance of the group is allowed. Some objects in this group may require iDRAC NIC to be reset, which may cause a brief loss in connectivity. Objects that change iDRAC NIC IP address settings close all active user sessions and require users to reconnect using the updated IP address settings.

For CMC, use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have the Chassis Configuration Administrator privilege.

 **NOTE:** For CMC, you can configure a setting that does not have a hash sign (#) prefixed in the output. To modify a configurable object, use the `-o` option.

 **NOTE:** To successfully execute iDRAC through RACADM, enable iDRAC NIC.

The following sections provide information about the objects in the **cfgLanNetworking** group.

cfgNicIPv4Enable (Read or Write)

Description	Enables or disables iDRAC or CMC IPv4 stack.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgNicSelection (Read or Write)


Description	Specifies the current mode of operation for the RAC network interface controller (NIC) . The table below describes the supported modes. This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers or CMC.
Legal Values	<ul style="list-style-type: none">• 1 = Dedicated• 2 = LOM1• 3 = LOM2• 4 = LOM3• 5 = LOM4
Default	<ul style="list-style-type: none">• LOM1 with no failover for iDRAC Express• Dedicated for iDRAC Enterprise

The following table lists the supported `cfgNicSelection` modes:

Mode	Description
Shared	Used if the host server-integrated NIC is shared with the RAC on the host server. This mode enables configurations to use the same IP address on the host server and the RAC for common accessibility on the network.
Shared with failover LOM 2	Enables teaming capabilities between host server LOM2 integrated network interface controllers.
Dedicated	Specifies that the RAC NIC is used as the dedicated NIC for remote accessibility.
Shared with failover All LOMs	Enables teaming capabilities between all LOMs on the host server-integrated network interface controllers. The remote access device network interface is fully functional when the host operating system is configured for NIC teaming. The remote access device receives data through NIC 1 and NIC 2, but transmits data only through NIC 1. Failover occurs from NIC 2 to NIC 3 and then to NIC 4. If NIC 4 is unsuccessful, then the remote access device does not succeed over all data transmission back to NIC 1. Only if the original NIC 1 failure has been corrected.

cfgNicVlanEnable (Read or Write)

Description	Enables or disables the VLAN capabilities of the RAC/BMC.
--------------------	---

 **NOTE:** For iDRAC Enterprise on Blade Servers, this object enables or disables the VLAN capabilities of iDRAC from CMC.

Read only for iDRAC on Blade servers.

iDRAC displays only the current VLAN settings and you cannot modify the settings from iDRAC.

All chassis management traffic, including the CMC and all iDRACs, resides on this external VLAN when enabled. No iDRAC configuration change is required to use this external management network VLAN.

Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0
Example	<pre>racadm config -g cfgLanNetworking -o cfgNicVlanEnable 1 racadm config -g cfgLanNetworking -o cfgNicVlanEnable 0</pre>

cfgNicVlanId (Read or Write)

Description	Specifies the VLAN ID for the network VLAN configuration (in CMC for iDRAC Enterprise on Blade Servers). This property is only valid if <code>cfgNicVlanEnable</code> is set to 1 (enabled). Read only for iDRAC on Blade servers.
Legal Values	1–4000 and 4021–4094
Default	1
Example	<pre>racadm config -g cfgLanNetworking -o cfgNicVlanID 1</pre>

cfgNicVlanPriority (Read or Write)

Description	Specifies the VLAN Priority for the network VLAN configuration (in CMC for iDRAC Enterprise on Blade Servers). This property is only valid if <code>cfgNicVlanEnable</code> is set to 1 (enabled). Read only for iDRAC on Blade servers.
Legal Values	0–7
Default	0
Example	<pre>racadm config -g cfgLanNetworking -o cfgNicVlanPriority 7</pre>

cfgDNSDomainNameFromDHCP (Read or Write)

Description	Specifies that iDRAC or CMC DNS domain name must be assigned from the network DHCP server.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)

Default 0

For CMC, this property is used only if `cfgNicUseDhcp` is set to 1(true), or if both `cfgIPv6Enable` and `cfgIPv6AutoConfig` are set to 1(true).

The CMC can obtain its DNS domain name from either a DHCP or DHCPv6 server, if all of the following properties are set to 1(true):


- `cfgNicIPv4Enable`
- `cfgNicUseDhcp`
- `cfgIPv6Enable`
- `cfgIPv6AutoConfig`
- `cfgDNSDomainNameFromDHCP`
- `cfgDNSDomainName` (Read or Write)

The network administrator must make sure that these DHCP servers are configured to provide the same DNS domain name to the CMC, otherwise the domain name becomes unpredictable.

cfgDNSDomainName (Read or Write)

Description In the DNS domain name, parameter is only valid if `cfgDNSDomainNameFromDHCP` is set to 0(FALSE).

Legal Values A string of up to 254 ASCII characters. At least one of the characters must be alphabetic. Characters are restricted to alphanumeric, '-', and '.'.


 **NOTE:** Microsoft Active Directory only supports Fully Qualified Domain Names (FQDN) of 64 bytes or fewer.

Default <blank>

cfgDNSRacName (Read or Write)

Description Displays the iDRAC or CMC name, which is Service Tag by default. This parameter is only valid if `cfgDNSRegisterRac` is set to 1(TRUE).

Legal Values A string of up to 63 ASCII characters. At least one character must be alphabetic.

 **NOTE:** Some DNS servers only register names of 31 characters or fewer.

Default For iDRAC: idrac-<service tag>
For CMC: cmc-<service tag>


cfgDNSRegisterRac (Read or Write)

Description Registers the iDRAC or CMC name on the DNS server. When you set this parameter, the CMC registers its DNS name for its IPv4 and IPv6 addresses with the DNS server.

Legal Values

- 1(TRUE)
- 0 (FALSE)

Default 0

 **NOTE:** For IPv6, only the DHCPv6 address or static address is registered.


Example:

```
racadm getconfig -g cfgLanNetworking
cfgNicEnable=1
cfgNicIPv4Enable=1
cfgNicIpAddress=192.168.22.101
cfgNicNetmask=255.255.255.0
cfgNicGateway=192.168.22.101
cfgNicUseDhcp=1
# cfgNicMacAddress=00:00:00:00:00:01
cfgNicVlanEnable=0
cfgNicVlanID=1
cfgNicVlanPriority=0
cfgDNSServersFromDHCP=1
cfgDNSServer1=192.168.0.5
cfgDNSServer2=192.168.0.6
cfgDNSRacName=cmc-frankly
cfgDNSDomainName=fwad.lab
cfgDNSDomainNameFromDHCP=1
cfgDNSRegisterRac=1
```

cfgDNSServersFromDHCP (Read or Write)


Description	Specifies if the DNS server IPv4 addresses must be assigned from the DHCP server on the network. For CMC, this property is used only if <code>cfgNicUseDhcp</code> value is set to 1(true).
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgDNSServer1 (Read or Write)

Description	Specifies the IPv4 address for DNS server 1. This property is only valid if <code>cfgDNSServersFromDHCP</code> is set to 0 (FALSE).  NOTE: <code>cfgDNSServer1</code> and <code>cfgDNSServer2</code> may be set to identical values while swapping addresses.
Legal Values	String representing a valid IPv4 address. For example: 192.168.0.20.
Default	0.0.0.0

cfgDNSServer2 (Read or Write)

Description Retrieves the IPv4 address for DNS server 2. This parameter is only valid if `cfgDNSServersFromDHCP` is set to 0 (FALSE).

 **NOTE:** `cfgDNSServer1` and `cfgDNSServer2` may be set to identical values while swapping addresses.

Legal Values String representing a valid IPv4 address. For example: 192.168.0.20.

Default 0.0.0.0

cfgNicEnable (Read or Write)

Description Enables or disables `iDRAC` or `CMC` network interface controller. If the NIC is disabled, the remote network interfaces to `iDRAC` or `CMC` are no longer accessible and `iDRAC` or `CMC` are only available through the local or serial `RACADM` interface.


Legal Values

- 1 (TRUE)
- 0 (FALSE)

Default 1

cfgNicIpAddress (Read or Write)

Description Specifies the static IPv4 address to the `RAC` or `CMC`.

 **NOTE:** This parameter is only configurable if the `cfgNicUseDhcp` parameter is set to 0(FALSE).


Legal Values String representing a valid IPv4 address. For example: 192.168.0.20.

Default

- For `iDRAC` on Rack and Tower Servers: 192.168.0.120
- For `iDRAC` Enterprise on Blade Servers: 192.168.0.n, where n is 120 plus the server slot number.
- For `CMC`: 192.168.0.120

cfgNicNetmask (Read or Write)


Description The subnet mask used for `iDRAC` or `CMC` IP address. This property is only valid if `cfgNicUseDhcp` is set to 0(FALSE).

 **NOTE:** This parameter is only configurable if the `cfgNicUseDhcp` parameter is set to 0(FALSE).

Legal Values String representing a valid subnet mask. For example: 255.255.255.0.

Default 255.255.255.0

cfgNicGateway (Read or Write)

Description	iDRAC or CMC gateway IPv4 address. The gateway IPv4 address used for static assignment of the RAC IP address. This property is only valid if <code>cfgNicUseDhcp</code> is set to 0 (FALSE).  NOTE: This parameter is only configurable if the <code>cfgNicUseDhcp</code> parameter is set to 0 (FALSE).
Legal Values	String representing a valid gateway IPv4 address. For example: 192.168.0.1.
Default	192.168.0.1

cfgNicUseDhcp (Read or Write)


Description	Specifies whether DHCP is used to assign the iDRAC or CMC IPv4 address. If this property is set to 1 (TRUE), then iDRAC or CMC IPv4 address, subnet mask and gateway are assigned from the DHCP server on the network. If this property is set to 0 (FALSE), the user can configure the <code>cfgNicIpAddress</code> , <code>cfgNicNetmask</code> and <code>cfgNicGateway</code> properties.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgNicMacAddress (Read Only)

Description	The iDRAC or CMC NIC MAC address in the format: dd:dd:dd:dd:dd:dd, where d is a hexadecimal digit in range 0–9, A — F
Legal Values	String representing iDRAC or CMC NIC MAC address.
Default	The current MAC address of iDRAC or CMC NIC. For example, 00:12:67:52:51:A3.


cfgStaticLanNetworking

This group contains parameters to configure the device NIC for IPv4. This group is applicable only for iDRAC.

 **NOTE:** A few objects in this group may require the device NIC to be reset, that may cause a brief loss in connectivity.


cfgNicStaticEnable (Read or Write)

Description	Enables or disables the NIC.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default	1 — Enabled


 **NOTE:** If this object is modified, then the object `cfgNicEnable` is also modified.

cfgNicStaticIPv4Enable (Read or Write)

Description	Enables or disables the IPv4 stack.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default	1 — Enabled


 **NOTE:** If this object is modified, then the object **cfgNicIPv4Enable** is also modified.

cfgNicStaticIpAddress (Read or Write)


Description	Returns or sets the current IPv4 address.
	 NOTE: Only set the current IPv4 address if <code>cfgNicUseDhcp</code> is set to 0(false).
Legal Values	Any Valid IPv4 address
Default	192.168.0.120

cfgNicStaticUseDhcp (Read or Write)

Description	Specifies whether DHCP is used to configure the IPv4 network.
Legal Values	<ul style="list-style-type: none">• 0 — IP Address, subnet mask and gateway are configured on the device.• 1 — IP Address, subnet mask and gateway are assigned from the DHCP server.
Default	0 — Do not use DHCP

 **NOTE:** If this object is modified, then the object **cfgNicUseDhcp** is also modified.

cfgNicStaticNetmask (Read or Write)

Description	Returns or sets the static IPv4 Netmask.
	 NOTE: Only set the current IPv4 netmask, if <code>cfgNicUseDhcp</code> is set to 0 (false).
Legal Values	Any Valid IPv4 Netmask
Default	255.255.255.0


cfgNicStaticGateway (Read or Write)


Description	Returns or sets the static IPv4 address.
Legal Values	Any Valid IPv4 address
Default	192.168.0.120

cfgDNSStaticServersFromDHCP (Read or Write)

Description	Specifies the DNS server static IP addresses.
Legal Values	<ul style="list-style-type: none">• DNS Addresses are configured on the Device• DNS Addresses are assigned via DHCP
Default	0

cfgDNSStaticServer1 (Read or Write)


Description	Specifies the IP address for DNS server 1.  NOTE: This property is only valid if <code>cfgDNSServersFromDHCP</code> is set to 0 (FALSE).
Legal Values	<ul style="list-style-type: none">• 0 — IP Address, subnet mask and gateway are configured on the device.• 1 — IP Address, subnet mask and gateway are assigned from the DHCP server.
Default	0 — Do not use DHCP

 **NOTE:** If this object is modified, then the object `cfgNicUseDhcp` is also modified.

cfgDNSStaticServer2(Read or Write)

Description	Specifies the static IP address for DNS server 2.
Legal Values	A Valid IPv4 Address
Default	0.0.0.0

cfgDNSStaticDomainName(Read or Write)

Description	The DNS static domain name.
Legal Values	String of up to 254 ASCII characters. Characters are restricted to alphanumeric, hyphens and periods. At least one of the characters must be alphabetic.  NOTE: Microsoft Active Directory only supports Fully Qualified Domain Names (FQDN) of 64 characters or fewer lengths.
Default	Null

cfgDNSStaticDomainNameFromDHCP (Read or Write)

Description	Specifies the device DNS static domain name.
Legal Values	<ul style="list-style-type: none">• 0 — Do not use DHCP to get the Domain Name• 1 — Use DHCP to get the Domain Name
Default	0 — Disabled

cfgRemoteHosts

This group provides properties that allow configuration of the SMTP server for email alerts.

For CMC, this group enables/disables and configures firmware updates, NTP, remote syslogging and SMTP email alerting. To apply this setting to iDRAC, use the `-m` option.

Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have the Chassis Configuration Administrator privilege.

The following sections provide information about the objects in the **cfgRemoteHosts** group.


cfgRhostsFwUpdateTftpEnable (Read or Write)

Description	Enables or disables iDRAC or CMC firmware update from a network TFTP server.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	1

cfgRhostsFwUpdateIpAddr (Read] or Write)

Description	Specifies the network TFTP server IPv4 or IPv6 address that is used for TFTP iDRAC or CMC firmware update operations.
Legal Values	A string representing a valid IPv4 or IPv6 address. For example, 192.168.0.61
Default	For IPv4, it is 0.0.0.0

cfgRhostsFwUpdatePath (Read or Write)

Description	Specifies TFTP path where iDRAC or CMC firmware image file exists on the TFTP server. The TFTP path is relative to the TFTP root path on the TFTP server.  NOTE: The server may still require you to specify the drive (for example, C:).
Legal Values	A string with a maximum length of 255 ASCII characters.
Default	<blank>

cfgRhostsSmtServerIpAddr (Read or Write)

Description	The IPv4 or IPv6 address of the network SMTP server. The SMTP server transmits email alerts from iDRAC or CMC if the alerts are configured and enabled.
Legal Values	A string representing a valid SMTP server IPv4 or IPv6 address. For example: 192.168.0.55.
Default	<ul style="list-style-type: none">• For iDRAC: For IPv4, it is 0.0.0.0• For CMC: localhost.localdomain

cfgRhostsNtpEnable

Description	Enables or disables the use of the Network Time Protocol (NTP) for date and time synchronization. This object is applicable only for CMC.
Legal Values	<ul style="list-style-type: none">• 1 (true)• 0 (false)
Default	0

cfgRhostsNtpServer1

Description	Specifies the first of three possible NTP servers. This object is applicable only for CMC.
Legal Values	A string representing a valid NTP server. For example, ntp1.ntp.net. At least one NTP server must be specified and duplicate entries are not allowed.
Default	Null

cfgRhostsNtpServer2

Description	Specifies the second of three possible NTP servers. This object is applicable only for CMC.
Legal Values	A string representing a valid NTP server. For example, ntp2.ntp.net. At least one NTP server must be specified and duplicate entries are not allowed.
Default	Null

cfgRhostsNtpServer3

Description	Specifies the third of three possible NTP servers. This object is applicable only for CMC.
Legal Values	A string representing a valid NTP server. For example, ntp3.ntp.net. At least one NTP server must be specified and duplicate entries are not allowed.
Default	Null


cfgRhostsNtpMaxDist

Description	Specifies the NTP maximum distance parameter used to aid in NTP configuration. This object is applicable only for CMC.
Legal Values	1–128
Default	16

cfgRhostsSyslogEnable (Read or Write)

Description	To allow the RAC and SEL logs to be written to up to three remote syslog servers Enables or disables remote syslog.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgRhostsSyslogPort (Read or Write)

Description	Remote syslog port number to use for writing the RAC and SEL logs to a remote syslog server. For CMC, this setting takes effect only if the <code>cfgRhostsSyslogEnable</code> parameter is set to 1(enabled).
Legal Values	10–65535  NOTE: For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.
Default	514

cfgRhostsSyslogServer1 (Read or Write)

Description	To store the RAC and SEL logs specify the first of three possible remote syslog servers. This property is only valid if <code>cfgRhostsSyslogEnable</code> is set to 1 (enabled).
Legal Values	<ul style="list-style-type: none">• For iDRAC: String from 0 to 63 characters.• For CMC: Valid host name or IPv4 or IPv6 address.
Default	<blank>

cfgRhostsSyslogServer2 (Read or Write)

Description	To store the RAC and SEL logs Specify the second of three possible remote syslog servers. This property is only valid if <code>cfgRhostsSyslogEnable</code> is set to 1 (enabled).
Legal Values	<ul style="list-style-type: none">• For iDRAC: String from 0 to 63 characters.• For CMC: Valid host name or IPv4 or IPv6 address.
Default	<blank>


cfgRhostsSyslogServer3 (Read or Write)

Description	To store the RAC and SEL logs specify the third of three possible remote syslog servers. This property is only valid if <code>cfgRhostsSyslogEnable</code> is set to 1(enabled).
Legal Values	<ul style="list-style-type: none">• For iDRAC: String from 0 to 63 characters.• For CMC: Valid host name or IPv4 or IPv6 address.

Default <blank>

cfgRhostsSyslogPowerLoggingEnabled

Description To remote syslog servers, Enables or disables power consumption logging.
This object is applicable only for CMC.

 **NOTE:** Remote syslog must be enabled and more than one remote syslog servers must be configured to log the power consumption.


Legal Values

- 1 (enabled)
- 0 (disabled)

Default 0

cfgRhostsSyslogPowerLoggingInterval

Description Specifies the power consumption collection/logging interval.
This object is applicable only for CMC.

 **NOTE:** This object is applicable only for CMC.

Legal Values 1–1440 (minutes)

Default 5

Example


```
racadm getconfig -g cfgRemoteHosts [-m server-<n>]

cfgRhostsFwUpdateTftpEnable=1
cfgRhostsFwUpdateIpAddr=0.0.0.0
cfgRhostsFwUpdatePath=
cfgRhostsSntpServerIpAddr=localhost.localdomain
cfgRhostsNtpEnable=0
cfgRhostsNtpServer1=
cfgRhostsNtpServer2=
cfgRhostsNtpServer3=
cfgRhostsNtpMaxDist=16
cfgRhostsSyslogEnable=0
cfgRhostsSyslogPort=514
cfgRhostsSyslogServer1=
cfgRhostsSyslogServer2=
cfgRhostsSyslogServer3=cfgRhostsSyslogPowerLoggingEnabled=1
cfgRhostsSyslogPowerLoggingInterval=5
```

cfgUserAdmin


This group provides configuration information about the users who are allowed to access iDRAC or CMC through the available remote interfaces.

Up to 16 instances of the user group are allowed. Each instance represents the configuration for an individual user.

 **NOTE:** In the current CMC firmware version, the objects **cfgUserAdminEnable** and **cfgUserAdminPrivilege** are interrelated; changing the value of one property causes the value of the other property to change. For example, if a user does not have login privilege, the user is disabled by default. When you enable the user by changing the value of the UserAdminEnable to 1, the right-most digit of the UserAdminPrivilege also becomes 1. On the other hand, if you change the right-most digit of the UserAdminPrivilege to 0, the value of the UserAdminEnable becomes 0.

Use this object with the **config** or **getconfig** subcommands. To use the command as follows: `-i <index group>`, supply an index group number

To use this object property for CMC, you must have the Chassis Configuration Administrator privilege.

 **NOTE:** For CMC, you can configure a setting that does not have the hash sign (#) prefixed in the output. To modify a configurable object, use the `-o` option.

The following sections provide information about the objects in the **cfgUserAdmin** group.

cfgUserAdminIndex (Read Only)

Description	The unique index of a user. For CMC, the index number is used to specify a unique group name. Only valid for indexed groups.
Legal Values	<ul style="list-style-type: none">• For iDRAC: This parameter is populated based on the existing instances.• For CMC: The parameter specifies decimal integer 1–16.
Default	<code><index of the instance></code>

cfgUserAdminIpmiLanPrivilege (Read or Write)

Description	The maximum privilege on the IPMI LAN channel. This object property is specific to iDRAC.
Legal Values	<ul style="list-style-type: none">• 2(User)• 3(Operator)• 4(Administrator)• 15(No access)
Default	<ul style="list-style-type: none">• 4(User 2)• 15(All others)

cfgUserAdminPrivilege (Read or Write)

Description	This property specifies the role-based authority privileges allowed for the user. The value is represented as a bit mask that allows for any combination of privilege values. The table below describes the user privilege bit values that can be combined to create bit masks.
Legal Values	<ul style="list-style-type: none">• For iDRAC: 0x00000000 to 0x000001ff, and 0x0• For CMC: 0x0000000-0x0000fff, and 0x0
Default	0x00000000

Example

```
racadm getconfig -g cfgUserAdmin -i 1

# cfgUserAdminIndex=1
cfgUserAdminEnable=1
cfgUserAdminUserName=root
# cfgUserAdminPassword=***** (Write-Only)
cfgUserAdminPrivilege=0x00000fff
```

The following table lists the bit masks for user privileges.

iDRAC Specific User Privilege	Privilege Bit Mask
--	---------------------------

Log in to iDRAC	0x00000001
Configure iDRAC	0x00000002
Configure Users	0x00000004
Clear Logs	0x00000008
Execute Server Control Commands	0x00000010
Access Virtual Console	0x00000020
Access Virtual Media	0x00000040
Test Alerts	0x00000080
Execute Debug Commands	0x00000100

CMC Specific User Privilege	
--	--

CMC Login User	0x00000001
Chassis Configuration Administrator	0x00000002
User Configuration Administrator	0x00000004
Clear Logs Administrator	0x00000008
Chassis Control Administrator	0x00000010
Super User	0x00000020
Server Administrator	0x00000040
Test Alert User	0x00000080
Debug Command Administrator	0x00000100

Fabric A Administrator	0x0000200
Fabric B Administrator	0x0000400
Fabric C Administrator	0x0000800

Examples

The following table provides sample privilege bit masks for users with one or more privileges.

User Privileges	Privilege Bit Mask
The user is not allowed to access iDRAC or CMC.	0x00000000
The user may only log in to iDRAC or CMC and view iDRAC or CMC and server configuration information.	0x00000001
The user may log in to iDRAC or CMC and change configuration.	$0x00000001 + 0x00000002 = 0x00000003$
The user may log in to iDRAC, access Virtual Media, and Virtual Console.	$0x00000001 + 0x00000040 + 0x00000080 = 0x000000C1$

cfgUserAdminUserName (Read or Write)

Description The name of the user for this index. The user index is created by writing a string into this name field if the index is empty. Writing a string of double quotes (" ") deletes the user at that index, delete and then recreate the name. You cannot change the name. The string cannot contain / (forward slash), \ (backslash), . (period), @ (at symbol) or quotation marks.



NOTE: This property value must be unique among user names.

Legal Values A string of up to 16 ASCII characters.


Default

- root (User 2)
- <blank> (All others)

cfgUserAdminPassword (Write Only)

Description	The password for this user. User passwords are encrypted and cannot be seen or displayed after the property is written.
Legal Values	A string of up to 20 ASCII characters.
Default	*****

cfgUserAdminEnable (Read or Write)

Description	Enables or disables an individual user.  NOTE: You can enable a user for a given index, only if you set the password for the same user.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	<ul style="list-style-type: none">• For iDRAC: 1 (User 2), 0 (All others)• For CMC: 0

cfgUserAdminSolEnable (Read or Write)

Description	Enables or disables Serial Over LAN (SOL) user access for the user. This object property is specific to iDRAC.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgUserAdminIpmiSerialPrivilege (Read or Write)


Description	The maximum privilege on the IPMI LAN channel. This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers or CMC.
Legal Values	<ul style="list-style-type: none">• 2 (User)• 3 (Operator)• 4 (Administrator)• 15 (No access)
Default	<ul style="list-style-type: none">• 4 (User 2)• 15 (All others)

cfgEmailAlert

This group contains parameters to configure iDRAC or CMC email alerting capabilities. Up to four instances of this group are allowed.

Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have the Chassis Configuration Administrator privileges.

 **NOTE:** For CMC, you can configure a setting that does not have the hash sign (#) prefixed in the output. To modify a configurable object, use the `-o` option.

The following sections provide information about the objects in the **cfgEmailAlert** group.

cfgEmailAlertIndex (Read Only)

Description	The unique index of an alert instance.
Legal Values	1–4
Default	<instance>

cfgEmailAlertEnable (Read or Write)

Description	Enables or disables the alert instance.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgEmailAlertAddress (Read or Write)

Description	Specifies the destination email address for email alerts, for example, <code>user1@company.com</code> .
Legal Values	Email address format, with a maximum length of 64 ASCII characters.
Default	<blank>

cfgEmailAlertCustomMsg (Read or Write)

Description	Specifies a custom message that forms the subject of the alert. This object property is specific to iDRAC.
Legal Values	A string of up to 32 characters
Default	<blank>

cfgEmailAlertEmailName

Description	Specifies name or other identifier associated with the destination email address. The email name can refer to an individual, group, location, department, and so on.
--------------------	--

This object property is specific to CMC.

Legal Values	A string of up to 32 characters
Default	<blank>

Example

```
racadm getconfig -g cfgEmailAlert -i 2
# cfgEmailAlertIndex=1
cfgEmailAlertEnable=1
cfgEmailAlertAddress=kfulton@dell.com
cfgEmailAlertName=Kevin Fulton
```

cfgSessionManagement

This group contains parameters to configure the number of sessions that can connect to iDRAC. One instance of the group is allowed. Displays current settings for and configures the idle timeout properties for web server, Telnet, SSH and RACADM sessions. Changes to idle timeout settings take effect at the next login. To disable the idle timeout property for a connection, set this property to 0. To apply this setting to iDRAC, use the `-m` option

The following sections provide information about the objects in the **cfgSessionManagement** group.

cfgSsnMgtRacadmTimeout (Read or Write)

Description	Defines the <code>idle</code> timeout in seconds for the Remote RACADM interface. If a remote RACADM session remains inactive for more than the specified sessions, the session closes.
Legal Values	10–1920
Default	iDRAC — 60 CMC — 30

Example

```
racadm getconfig -g cfgSessionManagement cfgSsnMgtWebserverTimeout=0
cfgSsnMgtTelnetIdleTimeout=0
cfgSsnMgtSshIdleTimeout=300
cfgSsnMgtRacadmTimeout=0
```

cfgSsnMgtConsRedirMaxSessions (Read or Write)

Description	Specifies the maximum number of Virtual Console sessions allowed on iDRAC. This object is applicable only for iDRAC.
Legal Values	1–4
Default	4

cfgSsnMgtWebserverTimeout (Read or Write)

Description	Defines the web server time-out. This property sets the amount of time (in seconds) that a connection is allowed to remain idle (there is no user input). The session is canceled if the time limit exceeds this property. Changes to this setting do not affect the current session. Log out and log in again to make the new settings effective.
--------------------	--

An expired web server session logs out the current session.

Legal Values 60–10800

Default 1800

cfgSsnMgtSshIdleTimeout (Read or Write)

Description Defines the secure shell idle time-out. This property sets the amount of time (in seconds) that a connection is allowed to remain idle (there is no user input). The session is canceled if the time limit exceeds this property. Changes to this setting do not affect the current session; log out and log in again to make the new settings effective.


An expired secure shell session displays the following error message:

- If there is iDRAC on Rack and Tower Servers: `Connection timed out`
- If there is iDRAC Enterprise on Blade Servers: `Session timed out. Closing the session.`

After the message is displayed, the system returns to the shell that generated the Secure Shell session.

Legal Values

- 0 —(No timeout)
- 60–10800

 **NOTE:** If 0 (no timeout), the network connection does not send alive packets to probe the client. Otherwise, keep alive packets are sent to guarantee that the client is responding.

Default

- For iDRAC on Rack and Tower Servers: 300
- For iDRAC Enterprise on Blade Servers and CMC: 1800

cfgSsnMgtTelnetIdleTimeout (Read or Write)

Description Defines the Telnet idle timeout. This property sets the amount of time in seconds that a connection is allowed to remain idle (there is no user input). The session is canceled if the time limit exceeds this property. Changes to this setting do not affect the current session (you must log out and log in again to make the new settings effective.)


An expired Telnet session displays the following error message:

- If the iDRAC on Rack and Tower Servers: `Connection timed out`
- If the iDRAC Enterprise on Blade Servers: `Session timed out. Closing the session.`

After the message is displayed, the system returns you to the shell that generated the Telnet session.

Legal Values For iDRAC:

- 0 (No timeout)
- 60–10800

 **NOTE:** If 0 (no timeout is specified), the network connection does not send alive packets to probe the client. Otherwise, keep alive packets are sent to guarantee that the client is responding.

Default

- For iDRAC on Rack and Tower Servers: 300

- For iDRAC Enterprise on Blade Servers and CMC: 1800

cfgSerial

This group contains configuration parameters for iDRAC or CMC services. One instance of the group is allowed.

Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have the Chassis Configuration Administrator privilege.

The following sections provide information about the objects in the **cfgSerial** group.



NOTE: The **cfgSerial** object group is applicable for iDRAC Enterprise on Blade Servers for only two properties — `cfgSerialTelnetEnable=1` and `cfgSerialSshEnable=1`.

cfgSerialBaudRate (Read or Write)

Description	Sets the baud rate on iDRAC or CMC serial port.
Legal Values	<ul style="list-style-type: none"> • For iDRAC: 9600, 28800, 57600, 115200 • For CMC: 2400, 4800, 9600, 19200, 28800, 38400, 57600, 115200
Default	<ul style="list-style-type: none"> • For iDRAC: 57600 • For CMC: 115200

cfgSerialConsoleEnable (Read or Write)


Description	Enables or disables the RAC or CMC serial console interface.
Legal Values	<ul style="list-style-type: none"> • 1 (TRUE) • 0 (FALSE)
Default	<ul style="list-style-type: none"> • For iDRAC: 0 • For CMC: 1


cfgSerialConsoleQuitKey (Read or Write)

Description	<p>For iDRAC:</p> <p>This key or key combination terminates Virtual Console text for iDRAC when using the console com2 command.</p> <p>The <code>cfgSerialConsoleQuitKey</code> value represents one of the following:</p> <ul style="list-style-type: none"> • Decimal value — For example, 95 • Hexadecimal value — For example, 0x12 • Octal value — For example, 007 • ASCII value — For example, ^a <p>ASCII values may be represented using the following Escape Key codes:</p> <p>^ follows any alphabet (a-z, A-Z) ^ follows the listed special characters: [] \ ^ _</p>
--------------------	--

For CMC:

This key specifies the character that ends the serial text console connect (or `racadm connect`) command.

 **NOTE:** The CTRL key is represented by using the ^ (carat) character.

 **NOTE:** The CTRL key does not generate a character by itself, but must be struck simultaneously with another key to generate a character.


For example, striking both the CTRL key and the \ key simultaneously (rather than sequentially) is denoted as ^\.

Configuration options: The value must start with the ^ character, and must follow one of the characters — a-z, A-Z, [,], \

Legal value: String of up to 4 characters

Default:

- For iDRAC: <Ctrl> \
- For CMC: ^\

 **NOTE:** For more information about running the RACADM commands for special characters, see [Guidelines to Quote Strings Containing Special Characters](#)

cfgSerialConsoleIdleTimeout (Read or Write)

Description The maximum number of seconds to wait before an idle serial session is disconnected.

Legal Values

- 0 = No timeout
- 60–1920

Default

- For iDRAC: 300
- For CMC: 1800

cfgSerialConsoleNoAuth (Read or Write)

Description Enables or disables the RAC or CMC serial console login authentication.

Legal Values

- 0 — (enables serial login authentication)
- 1 — (disables serial login authentication)

Default 0

cfgSerialConsoleCommand (Read or Write)

Description Specifies a serial command that is executed after a user logs in to the serial console interface.

Legal Values


- For iDRAC: A string of up to 128 characters.
- For CMC: A string representing a valid serial command. For example, connect server-1.


Default <blank>

cfgSerialConsoleColumns

Description Specifies the number of columns in the terminal window command line connected to the serial port. To take effect logout, and then log in again for the changes.

This object property is applicable only for CMC.

 **NOTE:** The prompt counts as two characters.

 **NOTE:** The terminal emulator must be configured with the line wrap mode ON, if a terminal emulator is used.

Legal Values 0–256

Default 0 (equivalent to 80)

cfgSerialHistorySize (Read or Write)

Description Specifies the maximum size of the serial history buffer.

Legal Values 0–8192

Default 8192

cfgSerialCom2RedirEnable (Read or Write)

Description Enables or disables the console for COM 2-port redirection.

The `cfgSerialCom2RedirEnable` object property is applicable only for iDRAC on Rack and Tower Servers. It is not applicable for iDRAC Enterprise on Blade Servers and CMC.

Legal Values

- 1 (TRUE)
- 0 (FALSE)

Default 1

cfgSerialSshEnable (Read or Write)

Description Enables or disables the secure shell (SSH) interface on iDRAC or CMC.

Legal Values

- 1 (TRUE)
- 0 (FALSE)

Default 1

Example

```
racadm getconfig -g cfgSerial

cfgSerialBaudRate=115200
cfgSerialConsoleEnable=1
cfgSerialConsoleQuitKey=^\
cfgSerialConsoleIdleTimeout=1800
cfgSerialConsoleNoAuth=0
cfgSerialConsoleCommand=
cfgSerialConsoleColumns=0
```

```
cfgSerialHistorySize=8192
cfgSerialTelnetEnable=0
cfgSerialSshEnable=1
```

cfgSerialTelnetEnable (Read or Write)

Description	Enables or disables the Telnet console interface on iDRAC or CMC.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgOobSnmpp


This group contains parameters to configure the SNMP agent and trap capabilities of iDRAC or CMC. One instance of the group is allowed.

The CMC SNMP agent supports the standard RFC1213 mib-2 and the Dell enterprise-specific the MIB.

This group is not applicable for iDRAC on Rack and Tower Servers.

For CMC, use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have the Chassis Configuration Administrator privilege.

 **NOTE:** For CMC, you can configure a setting that does not have the hash sign (#) prefixed in the output. To modify a configurable object, use the `-o` option.

The following sections provide information about the objects in the **cfgOobSnmpp** group.

cfgOobSnmppAgentCommunity (Read or Write)

Description	Specifies the SNMP Community Name used for SNMP traps. The community string acts as a password shared between different hosts over the network. This community string value must match with the other hosts for any kind of communication through SNMP.
Legal Values	A string of up to 31 characters.
Default	public

Example

```
racadm getconfig -g cfgOobSnmpp
```

```
cfgOobSnmppTrapsEnable=1
cfgOobSnmppAgentCommunity=public
```

cfgOobSnmppAgentEnable (Read or Write)

Description	Enables or disables the SNMP agent in iDRAC or CMC.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgTraps

This group displays information for and configures delivery of SNMP traps for a specific user.

This group is applicable only for CMC. Use this object with the **config** or **getconfig** subcommands.

To use this object property, you must have the Chassis Configuration Administrator privilege.



NOTE: You can configure a setting that does not have the hash sign (#) prefixed in the output. To modify a configurable object, use the `-o` option.

cfgTrapsIndex (Read Only)

Description	Indicates the unique index of an alert instance.
Legal Values	1–4
Default	1

cfgTrapsEnable

Description	Enables or disables event traps on the CMC.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	None

cfgTrapsAlertDestIpAddr

Description	Sets the IP address that receives the alert.
Legal Values	A string representing a valid IP address. For example, 192.168.0.20.
Default	None

cfgTrapsCommunityName

Description	Sets the community string (identical to the community name) used for authentication. The community string acts as a password shared between different hosts over the network. This community string value must match with the other hosts for any kind of communication through SNMP.
Legal Values	A string representing the community name.
Default	None

Example


```
racadm getconfig -g cfgTraps -i 2
# cfgTrapsIndex=2
cfgTrapsEnable=1
cfgTrapsAlertDestIpAddr=
cfgTrapsCommunityName=public
```

cfgRacTuning

This group is used to configure various iDRAC or CMC configuration properties, such as valid ports and security port restrictions.


Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have the Chassis Configuration Administrator privilege.

 **NOTE:** For CMC, you can configure a setting does not have the hash sign (#) prefixed in the output. To modify a configurable object, use the `-o` option.

To apply this setting to iDRAC, use the `-m` option.

The following sections provide information about the objects in the **cfgRacTuning** group.

 **NOTE:** For CMC, only the following objects are displayed, if `-m` option is used:

- `cfgRacTuneRemoteRacadmEnable`
- `cfgRacTuneWebserverEnable`
- `cfgRacTuneHttpPort`
- `cfgRacTuneHttpsPort`
- `cfgRacTuneTelnetPort`
- `cfgRacTuneSshPort`

cfgRacTuneConRedirPort (Read or Write)

Description	To use for keyboard, mouse, video and Virtual Media traffic to iDRAC, specify the port. This object is applicable only to iDRAC.
Legal Values	1024–65535
Default	5900

cfgRacTuneRemoteRacadmEnable (Read or Write)

Description	Enables or disables the Remote RACADM interface in iDRAC or CMC.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	1


cfgRacTuneIdracDNSLaunchEnable

Description	Configure iDRAC GUI launch using IP or DNS. This object is applicable for CMC only.
Legal Values	<ul style="list-style-type: none">• 1 — Enabled (launch iDRAC using DNS name)• 0 — Disabled (launch iDRAC using IP address)
Default	0 — Disabled


cfgRacTuneCtrlEConfigDisable

Description	To configure iDRAC from the BIOS POST option-ROM, enables or disables the ability of the local user. This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers or CMC.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgRacTuneHttpPort (Read or Write)

Description	To use HTTP network communication with either iDRAC or CMC, specify the port number.
Legal Values	10–65535  NOTE: For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.
Default	80

cfgRacTuneHttpsPort (Read or Write)

Description	To use HTTPS network communication with either iDRAC or CMC, specify the port number.
Legal Values	10–65535  NOTE: For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.
Default	443

cfgRacTuneIpRangeEnable (Read or Write)

Description	Enables or disables the IPv4 Address Range validation feature of iDRAC or CMC.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgRacTuneIpRangeAddr (Read or Write)

Description	Specifies the acceptable IPv4 address bit pattern in the positions of the "1"s in the range mask property (<code>cfgRacTuneIpRangeMask</code>). For CMC, a login from the incoming IP address is allowed only if the following are identical: <ul style="list-style-type: none">• <code>cfgRacTuneIpRangeMask</code> bit-wise and with incoming IP address
--------------------	---

- `cfgRacTuneIpRanbeMask` bit-wise and with `cfgRacTuneIpRangeAddr`

Legal Values An IPv4 address formatted string, for example, 192.168.0.44.

Default 192.168.1.1

cfgRacTuneIpRangeMask (Read or Write)

Description Standard IP mask values with left-justified bits. For example, 255.255.255.0.
For CMC, a login from the incoming IP address is allowed only if both of the following are identical:

- `cfgRacTuneIpRangeMask` bit-wise and with incoming IP address
- `cfgRacTuneIpRanbeMask` bit-wise and with `cfgRacTuneIpRangeAddr`

Legal Values An IPv4 address formatted string, for example, 255.255.255.0.

Default 255.255.255.0

cfgRacTuneIpBlkEnable (Read or Write)

Description Enables or disables the IPv4 address blocking feature of iDRAC or CMC.

Legal Values

- 1 (TRUE)
- 0 (FALSE)

Default 0

cfgRacTuneIpBlkFailCount (Read or Write)

Description The maximum number of logins that is not successful, to occur within the window (`cfgRacTuneIpBlkFailWindow`) before log in attempt from the IP address is rejected.

Legal Values 2–16

Default 5

cfgRacTuneIpBlkFailWindow (Read or Write)

Description Defines the time span in seconds that the unsuccessful attempts are counted. When unsuccessful attempts age beyond this limit, they are dropped from the count.

Legal Values


- For iDRAC: 10–655356
- For CMC: 2–655356

Default 60


cfgRacTuneIpBlkPenaltyTime (Read or Write)

Description	Defines the time span in seconds that session requests from an IP address with excessive failures are rejected.
Legal Values	<ul style="list-style-type: none">• For iDRAC: 10–655356• For CMC: 2–655356
Default	300

cfgRacTuneDefCredentialWarningEnable

Description	Displays warning during login if the default credentials warning property is set.  NOTE: Warning is displayed only with configure the user privilege.
Legal Values	<ul style="list-style-type: none">• 1 — Enabled• 0 — Disabled
Default	1 — Enabled

cfgRacTuneUserBlkEnable

Description	Blocks the login for maximum of 5 minutes after 5 unsuccessful login attempts. The login using any interface such as WSMAN or GUI is blocked after 5 unsuccessful attempts  NOTE: This is applicable only to configure the user privilege.
Legal Values	<ul style="list-style-type: none">• 1 — Enabled• 0 — Disabled
Default	0 — Disabled

cfgRacTuneSshPort (Read or Write)

Description	Specifies the port number used either for iDRAC or CMC SSH interface.
Legal Values	<ul style="list-style-type: none">• For iDRAC: 1–65535• For CMC: 10–65535
Default	22

cfgRacTuneTelnetPort (Read or Write)

Description	Specifies the port number used for either for iDRAC or CMC Telnet interface.
--------------------	--



NOTE: For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.

- Legal Values**
- For iDRAC: 1–65535
 - For CMC: 10–65535

Default 23

cfgRacTuneConRedirEnable (Read or Write)

Description Enables or disables Virtual Console.
This object property is applicable only to iDRAC.

- Legal Values**
- 1 (TRUE)
 - 0 (FALSE)

Default 1

cfgRacTuneConRedirEncryptEnable (Read or Write)

Description Encrypts the video in a Virtual Console session.
This object property is applicable only to iDRAC.

- Legal Values**
- 1 (TRUE)
 - 0 (FALSE)

Default 1

cfgRacTuneAsrEnable (Read or Write)

Description Enables or disables iDRAC last crash screen capture feature.
This object property is applicable only to iDRAC and requires an iDRAC reset before it becomes active.

- Legal Values**
- 1 (TRUE)
 - 0 (FALSE)

Default 0

cfgRacTuneDaylightOffset (Read Only)

Description Specifies the daylight savings offset (in minutes) to use for the RAC Time. This value is 0 if the time zone is not a Daylight Saving time zone.

Legal Values 0–60

Default 0

Example

```
racadm getconfig -g cfgRacTuning [-m server-<n>] -o  
<object name> <object value>
```

```
cfgRacTuneRemoteRacadmEnable=1  
cfgRacTuneWebserverEnable=1  
cfgRacTuneHttpPort=80  
cfgRacTuneHttpsPort=443  
cfgRacTuneTelnetPort=23  
cfgRacTuneSshPort=22  
cfgRacTuneIpRangeEnable=0  
cfgRacTuneIpRangeAddr=192.168.1.1  
cfgRacTuneIpRangeMask=255.255.255.0  
cfgRacTuneIpBlkEnable=0  
cfgRacTuneIpBlkFailCount=5  
cfgRacTuneIpBlkFailWindow=60  
cfgRacTuneIpBlkPenaltyTime=300  
# cfgRacTuneTimezoneOffset=-18000  
# cfgRacTuneDaylightOffset=3600
```

cfgRacTuneTimezoneOffset (Read Only)

Description Specifies the time zone offset (in minutes) from Greenwich Mean Time (GMT) / Coordinated Universal Time (UTC) to use for the RAC Time. Some common time zone offsets for time zones in the United States are:

- -480 (PST — Pacific Standard Time)
- -420 (MST — Mountain Standard Time)
- -360 (CST — Central Standard Time)
- -300 (EST — Eastern Standard Time)

For CMC: This object property is read only. Specifies the difference in number of seconds, from the UTC/GMT. This value is negative if the current time zone is west of Greenwich.

Legal Values -720-7800

Default 0

Example

```
racadm getconfig -g cfgRacTuning  
  
cfgRacTuneRemoteRacadmEnable=1  
cfgRacTuneWebserverEnable=1  
cfgRacTuneHttpPort=80  
cfgRacTuneHttpsPort=443  
cfgRacTuneTelnetPort=23  
cfgRacTuneSshPort=22  
cfgRacTuneIpRangeEnable=0  
cfgRacTuneIpRangeAddr=192.168.1.1  
cfgRacTuneIpRangeMask=255.255.255.0  
cfgRacTuneIpBlkEnable=0  
cfgRacTuneIpBlkFailCount=5  
cfgRacTuneIpBlkFailWindow=60  
cfgRacTuneIpBlkPenaltyTime=300# cfgRacTuneTimezoneOffset=-18000#  
cfgRacTuneDaylightOffset=3600
```

cfgRacTuneLocalServerVideo (Read or Write)

Description Enables or disables the local server video.


 **NOTE:** This object property is applicable only to iDRAC.

- Legal Values**
- 1 (TRUE — Enables)
 - 0 (FALSE— Disables)

Default 1

cfgRacTuneLocalConfigDisable (Read or Write)

Description Disables write access to iDRAC configuration data.

 **NOTE:** Access can be disabled using the local RACADM or iDRAC web interface; however, once disabled, access can be re-enabled only through iDRAC web interface.

This object property is applicable only to iDRAC.

- Legal Values**
- 0 (TRUE-Enables)
 - 1 (FALSE-Disables)

Default 0

cfgRacTuneWebserverEnable (Read or Write)

Description Enables or disables iDRAC or CMC web server. If this property is disabled, iDRAC or CMC is not accessible using client web browsers. This property has no effect on the `Telnet/SSH` or `racadm` interfaces.

- Legal Values**
- 1 (TRUE)
 - 0 (FALSE)


Default 1

cfgRacTuneVirtualConsoleAuthorizeMultipleSessions (Read/Write)

Description If a first user is already using the Virtual Console, the value of this object affects the privileges granted to the subsequent user's shared request after the timeout of 30 seconds.

This object property is applicable only to iDRAC.

This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers.

 **NOTE:** To modify this property, you must have Configure iDRAC permission. This object can be used only with remote or firmware (SSH or Telnet) RACADM and not with local RACADM or with earlier DRAC products.

- Legal Values**
- 0 — (If the user of the first session has not responded for session sharing request by subsequent user. The next session user gets an access denied error after the default timeout value of 30 seconds.)
 - 1 — (If the user of the first session has not responded for session sharing request by subsequent user. The next session user gets a read-only access after the default timeout value of 30 seconds.)
 - 2 — (If the user of the first session has not responded for session sharing request by subsequent user. The next session user gets administrator access after default timeout value of 30 seconds.)

Default 0

cfgRacTunePluginType (Read or Write)

Description To virtual console from browser, specifies the plug-in type.
This object property is applicable only to iDRAC.

Legal Values

- 0 = Use Active X /Native Plugin
- 1 = Use Java Plugin

Default 0 = Active X /Native Plugin

ifcRacManagedNodeOs

This group contains properties that describe the managed server operating system. One instance of the group is allowed.

This object is applicable only for iDRAC.

The following sections provide information about the objects in the **ifcRacManagedNodeOs**.

ifcRacMnOsHostname (Read Only)

Description The host name of the managed server.

Legal Values A string of up to 255 characters.

Default <blank>

ifcRacMnOsOsName (Read Only)

Description The operating system name of the managed server.

Legal Values A string of up to 255 characters.

Default <blank>

cfgRacVirtual

This group contains parameters to configure the iDRAC Virtual Media feature. One instance of the group is allowed.

This object is applicable only for iDRAC.

The following sections provide information about the objects in the **cfgRacVirtual**.

cfgVirMediaAttached (Read or Write)

Description This object is used to attach virtual devices to the system via the USB bus. When the devices are attached, the server recognizes valid USB mass storage devices attached to the system. Which is equivalent to attaching a local USB CDROM/floppy drive to a USB port on the system. When the devices are attached, they can be connected to the virtual devices remotely using iDRAC web interface or the CLI. Setting this object to 0 causes the devices to detach from the USB bus.

Legal Values

- 0 = Detach

- 1 = Attach
- 2 = AutoAttach

Default 0

cfgVirtualBootOnce (Read or Write)

Description Enables or disables the `Virtual Media Boot Once` feature of iDRAC. If this property is enabled when the host server is rebooted, this feature attempts to start from the virtual media devices — if the appropriate media is installed in the device.


Legal Values

- 1 (TRUE)
- 0 (FALSE)

Default 0

cfgVirMediaFloppyEmulation (Read or Write)

Description When set to 0, the virtual floppy drive is recognized as a removable disk by Windows operating systems. Windows operating systems assigns a drive letter that is C: or higher during enumeration. When set to 1, the Virtual Floppy drive is seen as a floppy drive by Windows operating systems. Windows operating systems assigns a drive letter of A: or B:.

 **NOTE:** Virtual Media has to be reattached (using `cfgVirMediaAttached`) for this change to take effect.


Legal Values

- 1 (TRUE)
- 0 (FALSE)

Default 0

cfgSDWriteProtect (Read Only)

Description Displays if the physical write protect latch on the SD card is enabled or disabled.

 **NOTE:** This command is deprecated from iDRAC 1.5 and CMC 3.0 releases onwards. The functionality of this command covers `cfgVFlashSDWriteProtect`. While execution of the `cfgSDWriteProtect` command is successful, use the `cfgVFlashSDWriteProtect` command. For more information, see [cfgVFlashSDWriteProtect Read Only](#).

Legal Values

- 1 (TRUE)
- 0 (FALSE)

Default 0


cfgServerInfo

For iDRAC this group allows you to select the BIOS first boot device and provides the option to start the selected device only once.

For CMC, this group allows you to display and configure a server in the chassis.

Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have the Chassis Configuration Administrator privilege.

 **NOTE:** For CMC, you can configure a setting does not have the hash sign (#) prefixed in the output. To modify a configurable object, use the `-o` option

The following sections provide information about the objects in the `cfgServerInfo`.

cfgServerInfoIndex (Read Only)

Description	Displays the index name of the server. This object is applicable only to CMC.
Legal Values	None
Default	None

cfgServerSlotNumber (Read Only)

Description	Specifies the location of the specified server (1–16) in the chassis. This object is applicable only to CMC.
Legal Values	None
Default	None

cfgServerServiceTag (Read Only)

Description	Displays the service tag of the specified server. This object is applicable only to CMC.
Legal Values	None
Default	None

cfgServerName (Read/Write)

Description	Displays the name of the specified server. This object is applicable only to CMC.
Legal Values	Maximum of 15 non-extended (ASCII characters (ASCII codes 32 through 126). For more information, see Guidelines to Quote Strings Containing Special Characters .
Default	SLOT — <slot number>

cfgServerFW (Read Only)

Description	Displays the server's iDRAC management firmware revision. This object is applicable only to CMC.
Legal Values	None
Default	None

cfgServerBIOS (Read Only)

Description	Displays the server's BIOS revision. This object is applicable only to CMC.
Legal Values	None
Default	None

cfgServerBmcMacAddress (Read Only)

Description	Displays the BMC MAC address of the specified server. This object is applicable only to CMC.
Legal Values	None
Default	None

cfgServerNic1MacAddress (Read Only)

Description	Displays the MAC address of the server NIC 1. This object is applicable only to CMC.
Legal Values	None
Default	None

cfgServerNic2MacAddress (Read Only)

Description	Displays the MAC address of the server NIC 2. This object is applicable only to CMC.
Legal Values	None
Default	None

cfgServerNic3MacAddress (Read Only)

Description	Displays the MAC address of the server NIC 3. This object is applicable only to CMC.
Legal Values	None
Default	None

cfgServerNic4MacAddress (Read Only)

Description	Displays the MAC address of the server NIC 4. This object is applicable only to CMC.
Legal Values	None

Default None

cfgServerPriority (Read/Write)

Description Sets the priority level allotted to the server in the chassis for power budgeting purposes.
This object is applicable only to CMC.

Legal Values 1–9 in descending priority, where 1 holds the highest priority

Default 1

cfgServerNicEnable (Read/Write)

Description Enables or disables LAN channel.
This object is applicable only to CMC.

Legal Values • 1 — (Enable)
• 0 — (Disable)

Default None

cfgServerIPMIOverLanEnable (Read/ or Write)

Description Enables or disables IPMI LAN channel.
This object is applicable only to CMC.

Legal Values • 1 — (enable)
• 0 — (disable)

Default None

cfgServerPowerBudgetAllocation (Read Only)

Description Displays the current power allocation for the server.
This object is applicable only to CMC.

Legal Values • 1 (Enable)
• 0 (Disable)

Default None

cfgServerDNSRegisterIMC (Read or Write)

Description Enables or disables DNS name registration for the Integrated System (iDRAC).
This object is applicable only to CMC.

Legal Values • 1 (enable)
• 0 (disable)

Default None

cfgServerDNSIMCName (Read or Write)

Description Displays the DNS domain name for the integrated Remote Access Controller (iDRAC).
This object is applicable only to CMC.

Legal Values None

Default None

cfgServerRootPassword (Write Only)


Description Displays the password for iDRAC as a series of asterisks (*). It cannot be seen or displayed after this property is written.
This object is applicable only to CMC.

Legal Values None


Default None

cfgServerFirstBootDevice (Read or Write)

Description Sets or displays the first boot device.
For iDRAC, you can also set a vFlash partition that is attached as a bootable device. For more information, see [cfgVFlashPartitionOSVolLabel](#).

 **NOTE:** If RFS is configured as the next boot device, during restart, the system starts normally and not from RFS.

For CMC, this object is Write only.

 **NOTE:** First attach, to configure vFlash as First Boot Device. When a detached / non-existent vFlash partition or a nonstandard boot device is configured as first boot device, the following error message is displayed:

Invalid object value

- Legal Values**
- No-Override
 - PXE
 - HDD
 - CD-DVD
 - BIOS
 - vFDD
 - VCD-DVD
 - iSCSI
 - VFLASH partition label
 - FDD
 - SDe
 - RFS (Remote File Share)

Default No-Override

cfgServerBootOnce (Read or Write)

Description Enables or disables the server start once feature.
For CMC, this object is Write only.

Legal Values

- 1(True)
- 0 (False)

Default 1(True)

cfgServerPowerConsumption (Read Only)

Description Displays the current power consumption for a server.
This object is applicable only to CMC.

Legal Values None

Default None

Example

```
racadm getconfig -g cfgServerInfo -i 8
# cfgServerInfoIndex=8
# cfgServerSlotNumber=8
# cfgServerServiceTag=
cfgServerName=SLOT-08
# cfgServerFW=3.0
# cfgServerBIOS=
# cfgServerBmcMacAddress=00:21:9B:FE:5F:58
# cfgServerNic1MacAddress=00:0D:56:B8:69:63
170 CMC Property Database Group and Object Definitions
# cfgServerNic2MacAddress=00:0D:56:B8:69:65
# cfgServerNic3MacAddress=00:0D:56:B8:69:CB
# cfgServerNic4MacAddress=00:0D:56:B8:69:CD
cfgServerPriority=1
cfgServerNicEnable=1
cfgServerIPMIOverLANEnable=1
# cfgServerPowerBudgetAllocation=0
cfgServerDNSRegisterIMC=0
cfgServerDNSIMCName=iDRAC-
# cfgServerRootPassword=***** (Write-Only)
# cfgServerFirstBootDevice=***** (Write-Only)
# cfgServerBootOnce=***** (Write-Only)
# cfgServerPowerConsumption=0
racadm getconfig -g cfgServerInfo -i 1
# cfgServerInfoIndex=1
# cfgServerSlotNumber=1
```

```

# cfgServerServiceTag=1S0M0G1
cfgServerName=SLOT-01
# cfgServerFW=1.40 (Build 12)
# cfgServerBIOS=4.0.2
# cfgServerBmcMacAddress=00:18:8B:FF:41:43
# cfgServerNic1MacAddress=00:1A:A0:FF:D9:F4
# cfgServerNic2MacAddress=00:1A:A0:FF:D9:F6
cfgServerPriority=1
cfgServerNicEnable=1
cfgServerIPMIOverLANEnable=1
# cfgServerPowerBudgetAllocation=0
cfgServerDNSRegisterIMC=0
cfgServerDNSIMCName=iDRAC-1S0M0G1
# cfgServerRootPassword=***** (Write-Only)
# cfgServerFirstBootDevice=***** (Write-Only)
# cfgServerBootOnce=***** (Write-Only)
# cfgServerPowerConsumption=0

```

cfgActiveDirectory

This group contains parameters to configure iDRAC or CMC Active Directory feature.

Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have the Chassis Configuration Administrator privilege.



NOTE: For CMC, you can configure a setting that does not have the hash sign (#) prefixed in the output. To modify a configurable object, use the `-o` option.

The following sections provide information about the objects in the **cfgActiveDirectory**.

cfgADRacDomain (Read or Write)

Description	Active Directory Domain in which iDRAC or CMC resides.
Legal Values	Any printable text string of up to 254 characters, with no white space.
Default	<blank>

cfgADRacName (Read or Write)

Description	Name of iDRAC or CMC as recorded in the Active Directory forest.
Legal Values	Any printable text string of up to 254 characters, with no white space.
Default	<blank>

cfgADRootDomain


Description	Specifies the root domain of the domain forest.
--------------------	---

	This object is applicable only to CMC.
Legal Values	Any printable text string of up to 254 characters, with no white space.
Default	<blank>

cfgADEnable (Read or Write)

Description	Enables or disables Active Directory user authentication on iDRAC or CMC. If this property is disabled on iDRAC, only local iDRAC authentication is used for user logins. If this property is disabled for CMC, either local CMC or LDAP authentication may be used for user logins.
Legal Values	<ul style="list-style-type: none"> • 1 (TRUE) • 0 (FALSE)
Default	0

cfgADSCLEnable

Description	Enables you to log on to the CMC without enabling the Smart Card login.  NOTE: This object is applicable only to CMC.
Legal Values	<ul style="list-style-type: none"> • 1 (Enable) • 0 (Disable)
Default	0

cfgADSSOEnable (Read or Write)

Description	Enables or disables Active Directory single sign-on authentication on iDRAC.
Legal Values	<ul style="list-style-type: none"> • 1 (TRUE) • 0 (FALSE)
Default	0

cfgADDomainController

Description	To obtain user names, specify the AD server from which you want the CMC. It must be used with <code>cfgADSpecifyServerEnable</code> . This object is applicable only to CMC.
Legal Values	Valid IP address or fully qualified domain name (FQDN).
Default	None

cfgADDomainController1 (Read or Write)

Description	To obtain user names, specify the LDAP server from which you want the iDRAC.
--------------------	--

	This object is applicable only to iDRAC.
Legal Values	A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).
Default	None


cfgADDomainController2 (Read or Write)

Description	To obtain user names, specify the LDAP server from which you want the iDRAC. This object is applicable only to iDRAC.
Legal Values	A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).
Default	None

cfgADDomainController3 (Read or Write)

Description	To obtain user names, specify the LDAP server from which you want the iDRAC. This object is applicable only to iDRAC.
Legal Values	A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).
Default	None

cfgADAuthTimeout (Read or Write)

Description	To wait for Active Directory authentication requests to complete before timing out, specify the number of seconds.  NOTE: To modify this property, you must have the Configure iDRAC permission.
Legal Values	15–300 seconds
Default	120

cfgADType (Read or Write)

Description	To use the Active Directory, determine the schema type.
Legal Values	<ul style="list-style-type: none"> • 1— (Enables Active Directory with the extended schema) • 2— (Enables Active Directory with the standard schema)
Default	1

cfgADSpecifyServerEnable

Description	Allows you to enable or disable and specify an LDAP server or a global catalog server. To specify the IP address, use either <code>cfgADDomainController</code> or <code>cfgADGlobalCatalog</code> .
--------------------	--

This object is applicable only to CMC.

- Legal Values**
- 1 (enabled)
 - 0 (disabled)

Default 0

cfgADGlobalCatalog

Description To obtain user names, specify the Global Catalog server from which you want the CMC. It must be used with `cfgADSpecifyServerEnable`.

This object is applicable only to CMC.

Legal Values Valid IP address or FQDN

Default None

Example

```
racadm getconfig -g cfgActiveDirectory
```

```
cfgADEnable=1
cfgADSCLEnable=0
cfgADSSOEnable=0
cfgADRacDomain=
cfgADRootDomain=help
cfgADRacName=
cfgADRacAuthTimeout=300
cfgADType=0x4
cfgADSpecifyServerEnable=1
cfgADDomainController=192.168.1.1
cfgADGlobalCatalog=127.0.0.1
```

cfgADGlobalCatalog1 (Read or Write)

Description To obtain user names, specify the Global Catalog server from which you want the iDRAC.

This object is applicable only to iDRAC.

Legal Values A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).

Default None

cfgADGlobalCatalog2 (Read or Write)

Description To obtain user names, specify the Global Catalog server from which you want the iDRAC.

This object is applicable only to iDRAC.

Legal Values A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).

Default None

cfgADGlobalCatalog3 (Read or Write)

Description To obtain user names, specify the Global Catalog server from which you want the iDRAC.

	This object is applicable only to iDRAC.
Legal Values	A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).
Default	None

cfgADCertValidationEnable (Read or Write)

Description	Enables or disables Active Directory certificate validation as a part of the Active Directory configuration process. This object is applicable only to iDRAC.
Legal Values	<ul style="list-style-type: none"> • 1 (TRUE) • 0 (FALSE)
Default	1

cfgADDcSRVLookupEnable (Read or Write)

Description	Configures iDRAC to use pre-configured domain controllers or to use DNS to find the domain controller. If using pre-configured domain controllers, then the domain controllers to use are specified under <code>cfgAdDomainController1</code> , <code>cfgAdDomainController2</code> and <code>cfgAdDomainController3</code> . iDRAC does not failover to the specified domain controllers when DNS lookup is unsuccessful or none of the servers returns to the DNS lookup works. This object is applicable only to iDRAC.
Legal Values	<ul style="list-style-type: none"> • 1 (TRUE) — use DNS to look up domain controllers • 0 (FALSE) — use pre-configured domain controllers
Default	0

cfgADDcSRVLookupbyUserdomain (Read or Write)

Description	Chooses the way the user domain is looked up for Active Directory. This object is applicable only to iDRAC.
Legal Values	<ul style="list-style-type: none"> • 1 (TRUE) — use user domain as the search domain to look up DCs. The user domain is chosen from either the user domain list or by entering into the user login. • 0 (FALSE) — use the configured search domain <code>cfgADDcSrvLookupDomainName</code> to look up DCs.
Default	1

cfgADDcSRVLookupDomainName (Read or Write)

Description	Use the Active Directory Domain when <code>cfgAddcSrvLookupbyUserDomain</code> is set to 0. This object is applicable only to iDRAC.
Legal Values	String. Maximum length = 254
Default	Null

cfgADGcSRVLookupEnable (Read or Write)

Description	Determines how the global catalog server is looked up. If using pre-configured global catalog servers, then iDRAC uses the values <code>cfgAdGlobalCatalog1</code> , <code>cfgAdGlobalCatalog2</code> and <code>cfgAdGlobalCatalog3</code> . This object is applicable only to iDRAC.
Legal Values	<ul style="list-style-type: none">• 0(FALSE) — use pre-configured Global Catalog Servers (GCS)• 1(TRUE) — use DNS to look up GCS
Default	0

cfgADGcRootDomain (Read or Write)


Description	The names of the Active Directory root domain used for DNS look up, to locate Global Catalog servers. This object is applicable only to iDRAC.
Legal Values	String. Maximum length = 254
Default	Null

cfgLDAP

This group allows you to configure settings related to the Lightweight Directory Access Protocol (LDAP).


Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have the Chassis Configuration Administrator privilege.

 **NOTE:** For CMC, you can configure a setting that does not have the hash sign (#) prefixed in the output. To modify a configurable object, use the `-o` option.

The following sections provide information about the objects in the **cfgLDAP**.

cfgLdapEnable (Read or Write)

Description	Turns on or off LDAP service. If this property is disabled, local CMC authentication is used for user logins.  NOTE: For CMC, enabling this option turns off <code>cfgADEnable</code> .
Legal Values	<ul style="list-style-type: none">• 1 (TRUE) — Enable• 0 (FALSE) — Disable
Default	0

cfgLdapServer (Read or Write)

Description	Configures the address of the LDAP Server. IPv4 and IPv6 are supported.
--------------------	---



NOTE: You can specify multiple servers by separating each server with a comma. For example, example.com, sub1.example.com

Legal Values	String. <ul style="list-style-type: none">• For iDRAC: Maximum length = 1024• For CMC: Maximum length = 254
Default	Null

cfgLdapPort (Read or Write)

Description	Port of LDAP over SSL. Non-SSL port is not supported.
Legal Values	1–65535
Default	636

cfgLdapBasedn (Read or Write)

Description	The domain name of the branch of the directory where all searches must start.
Legal Values	String. Maximum length = 254
Default	Null

cfgLdapUserAttribute (Read or Write)

Description	To search for, specify the user attribute. It is recommended to be unique within the chosen baseDN, otherwise a search filter must be configured to make sure the uniqueness of the login user. If the userDN cannot be uniquely identified, login is unsuccessful with error.
Legal Values	String. Maximum length = 254
Default	Null uid if not configured.

cfgLdapGroupAttribute (Read or Write)

Description	Specifies which LDAP attribute is used to check for group membership. It must be an attribute of the group class. If not specified, then iDRAC or CMC uses the member and unique member attributes.
Legal Values	String. Maximum length = 254
Default	Null

cfgLdapGroupAttributesDN (Read or Write)

Description	For iDRAC: When it is set to 1, iDRAC compares the userDN retrieved from the directory to compare to the members of the group. If it is set to 0, the user name provides the login user to compare to the members of the group. It does not affect the search algorithm for the bind. iDRAC always searches the userDN and uses the userDN to bind.
--------------------	---

For CMC: If enabled, the CMC performs DN matching, otherwise the CMC uses the user name provided at login for matching.

- Legal Values**
- 1(TRUE) — Use the `userDN` from the LDAP Server
 - 0(FALSE) — Use the `userDN` to provide the login user

Default 1

cfgLdapBinddn (Read/Write)

Description The distinguished name of a user used to bind to the server when searching for the login user's DN. If not provided, an anonymous bind is used. It is optional to support anonymous bind.

 **NOTE:** If `cfgLDAPBindDN` is [null] and `cfgLDAPBindPassword` is [null], then the CMC attempts an anonymous bind.

Legal Values String. Maximum length = 254

Default Null

cfgLdapBindpassword (Write Only)

Description A bind password is used with the bindDN. The bind password is a sensitive data, and must be protected. It is optional to support anonymous bind.

Legal Values String. Maximum length = 254

Default Null

cfgLdapSearchFilter (Read or Write)

Description To validate LDAP search filter, use the user attribute that cannot uniquely identify the login user within the chosen baseDN. The search filter only applies to userDN search and not the group membership search.

- Legal Values**
- For iDRAC: String of maximum length = 254 characters
 - For CMC: String of maximum length = 1024 characters

Default (objectless=*)
Searches for all objects in tree.

cfgLDAPCertValidationEnable (Read or Write)

Description Controls certificate validation during SSL handshake.

- Legal Values**
- 1 (TRUE) — iDRAC or CMC uses the CA certificate to validate the LDAP server certificate during SSL handshake.
 - 0 (FALSE) — iDRAC or CMC skips the certificate validation step of SSL handshake.

Default 1

cfgLDAPNetworkTimeout

Description	Configures the network timeout in seconds. This object is applicable only to CMC.
Legal Values	Positive integer
Default	30 seconds

cfgLDAPSearchTimeout

Description	Configures the search timeout in seconds. This object is applicable only to CMC.
Legal Values	Positive integer
Default	120 seconds

cfgLDAPSRVLookupEnable

Description	To query a DNS server for SRV records, Configure the CMC. This object is applicable only to CMC.
Legal Values	<ul style="list-style-type: none">• 1 (true)• 0 (false)
Default	0

cfgLDAPSRVLookupDomainName

Description	To use in the SRV lookup, configure the domain name. This object is applicable only to CMC.
Legal Values	String of maximum length of 254 alphanumeric characters and hyphens. The string must begin with a letter.
Default	[null]

cfgLDAPSRVLookupServiceName (Read or Write)

Description	To use in the SRV lookup, configure the service name. This object is applicable only to CMC.
Legal Values	String of maximum length of 254 characters.
Default	LDAP

cfgLdapRoleGroup

For iDRAC, this group allows the user to configure role groups for LDAP.

For CMC, this group configures Generic LDAP Role group descriptions and defines the CMC privileges that LDAP-authenticated users are granted.

Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have the Chassis Configuration Administrator privilege.



NOTE: For CMC, you can configure a setting that does not have the hash sign (#) prefixed in the output. To modify a configurable object, use the **-o** option.

`cfgLDAPRoleGroup` is indexed, containing instances numbered from 1 to 5. Each object instance consists of a pair of properties:

- `cfgLDAPRoleGroupDN` — an LDAP distinguished name (DN)
- `cfgLDAPRoleGroupPrivilege` — a CMC privilege map

Each LDAP-authenticated user assumes the total set of CMC privileges assigned to the matching LDAP distinguished names that the user belongs to. That is, if the user belongs to multiple role group DN's, the user receives all associated privileges for that DN's.

The following sections provide information about the objects in the **cfgLdapRoleGroup**.

cfgLdapRoleGroupIndex (Read Only)

Description	It is the index value of the Role Group Object. This object is applicable only for iDRAC.
Legal Values	An integer between 1 and 5
Default	<instance>

cfgLdapRoleGroupDN (Read or Write)

Description	It is the Domain Name of the group in this index. For CMC, configure the LDAP distinguished name (DN) for the role group instance.
Legal Values	String. Maximum length = 1024
Default	None

Example

```
racadm getconfig -g cfgLDAPRoleGroup -o cfgLDAPRoleGroupDN  
-i 1 cn=everyone,ou=groups,dc=openldap,dc=com
```

cfgLdapRoleGroupPrivilege (Read or Write)

Description	A bit-mask defining the privileges associated with this particular group.
Legal Values	0x00000000 to 0x000001ff
Default	0x000

Example

```
racadm getconfig -g cfgLDAPRoleGroup -o cfgLDAPRoleGroupPrivilege  
-i 1 0x0
```

cfgLocation

This group defines objects that support physical location properties. Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have the Chassis Configuration Administrator privilege.

This group is applicable only for CMC.

cfgLocationDatacenter (Read or Write)

Description	Indicates data center name.
Legal Values	String of up to 128 ASCII characters
Default	0

cfgLocationAisle (Read or Write)

Description	Indicates aisle where server is located.
Legal Values	String of up to 128 ASCII characters
Default	0

cfgLocationRack (Read or Write)

Description	Indicates rack where server is located.
Legal Values	String of up to 128 ASCII characters
Default	0

cfgLocationRackslot (Read or Write)

Description	Indicates slot where server is located.
Legal Values	Values 1–255 (1 Byte)
Default	0

cfgLocationDevicesize (Read Only)


Description	Indicates server chassis size.
Legal Values	Values 1–255
Default	0

cfgStandardSchema

This group contains parameters to configure the Active Directory standard schema settings.

Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have the Chassis Configuration Administrator privilege.

 **NOTE:** For CMC, you can configure a setting that does not have hash sign (#) prefixed in the output. To modify a configurable object, use the `-o` option.

The following sections provide information about the objects in the **cfgStandardSchema**.

cfgSSADRoleGroupIndex (Read Only)

Description	Index of the Role Group as recorded in the Active Directory.
Legal Values	An integer between 1 and 5
Default	<instance>

cfgSSADRoleGroupName (Read or Write)

Description	Name of the Role Group as recorded in the Active Directory forest.
Legal Values	Any printable text string of up to 254 characters with no white space.
Default	<blank>

cfgSSADRoleGroupDomain (Read or Write)

Description	Active Directory Domain in which the Role Group resides.
Legal Values	Any printable text string of up to 254 characters, with no white space.
Default	<blank>

cfgSSADRoleGroupPrivilege (Read or Write)

Description	Use the bit mask numbers listed in the table below to set role-based authority privileges for a Role Group.
Legal Values	<ul style="list-style-type: none">• For iDRAC: 0x00000000 to 0x000001ff• For CMC: 0x00000000 – 0x00000fff
Default	<blank>

Example

```
racadm getconfig -g cfgStandardSchema -i 1
# cfgSSADRoleGroupIndex=1
cfgSSADRoleGroupName=blsys-1
cfgSSADRoleGroupDomain=
cfgSSADRoleGroupPrivilege=3081
```

The following table displays the bit masks for Role Group privileges:

Role Group Privilege	Bit Mask
Login to iDRAC	0x00000001

Configure iDRAC	0x00000002
Configure Users	0x00000004
Clear Logs	0x00000008
Execute Server Control Commands	0x00000010
Access Virtual Console	0x00000020
Access Virtual Media	0x00000040
Test Alerts	0x00000080
Execute Debug Commands	0x00000100


cfgChassisPower

This group contains parameters to display or configure power for the chassis.

Use this object with the **config** or **getconfig** subcommands.

This group is applicable only for CMC.

To use this object property, you must have the Chassis Configuration Administrator privilege.

 **NOTE:** You can configure a setting that does not have the hash sign (#) prefixed in the output. To modify a configurable object, use the `-o` option.

The following sections provide information about the objects in the **cfgChassisPower** group.

cfgChassisExternalPowerManagementMode

Description Allows to enable or disable External Power Management. When this mode is enabled:

- The chassis power capacity is set to maximum value.
- The server power priorities are set to 1.
- These properties cannot be changed by racadm or GUI.

When the external power management mode is disabled, the power capacity and server power priorities are preserved.

Legal Values

Default

cfgChassisServerBasedPowerMgmtMode

Description Manages the applicable functions by the Power Measure, Mitigate, and Manage Console (PM3).

- Legal Values**
- 1 — Enabled
 - 0 — Disabled

Default 0 — Disabled

cfgChassisEPPEnable

Description Enables the Extended Power Performance (EPP).

Legal Values

- 1 – Enabled
- 0 – Disabled

Default 0 – Disabled



NOTE: For chassis with 3000W AC six PSU configuration (configured for Grid Redundancy policy), the default value is 1-Enabled.

cfgChassisInPower (Read Only)

Description Indicates the cumulative input power consumption data (in watts and BTU/hr) captured from all healthy and functional PSUs in the chassis.

Legal Values None

Default None

cfgChassisPeakPower (Read Only)

Description Since the user has cleared last value, the system power consumption (in watts) is maximum.

Legal Values

Default

cfgChassisPeakPowerTimestamp (Read Only)

Description The timestamp recorded when the peak input power consumption value occurred.

Legal Values

Default

cfgChassisMinPower (Read Only)

Description Since the user has cleared last value, the system power consumption (in watts) is maximum.

Legal Values None

Default None

cfgChassisMinPowerTimestamp (Read Only)

Description The timestamp recorded when the minimum system power occurred.

Legal Values None

Default None

cfgChassisPowerStatus (Read Only)

Description Indicates the power status of the chassis.

- Legal Values**
- 1 — (other)
 - 2 — (unknown)
 - 3 — (OK)
 - 4 — (noncritical)
 - 5 — (critical)
 - 6 — (nonrecoverable)

Default None

cfgChassisRedundantState (Read Only)

Description Enables or disables power redundancy for the chassis.

- Legal Values**
- 0 — (none)
 - 1 — (full)

Default None

cfgChassisPowerCap (Read or Write)

Description Indicates the maximum power consumption limit (in watts) for the entire chassis. The command generates an error if server throttling is necessary to achieve the power goal based on the value for this setting.

Legal Values 2715–16685 watts

Default 16685 watts

cfgChassisPowerCapF (Read or Write)

Description Indicates the maximum power consumption limit (in watts) for the entire chassis. Use `cfgChassisPowerCapF` when power consumption changes regardless of whether server throttling is required. This command generates an error if the value for this setting is lower than the minimum power required for the chassis configuration.

Legal Values 271–16685 watts

Default 16685 watts

cfgChassisPowerCapBTU (Read or Write)

Description Indicates the maximum power consumption limit (in BTU/hr) for the entire chassis. The command generates an error if server throttling is necessary to achieve the power goal based on the value for this setting.

Legal Values 9264–56931 BTU/hr

Default 43221 BTU/hr

cfgChassisPowerCapFBTU (Read or Write)

Description Indicates the maximum power consumption limit (in BTU/hr) for the entire chassis. Use `cfgChassisPowerCapFBTU` when power consumption changes regardless of whether server throttling is required. The command generates an error if the value for this setting is lower than the minimum power required for the chassis configuration.

Legal Values 9264–56931 BTU/hr

Default 56931 BTU/hr

cfgChassisPowerCapPercent (Read or Write)

Description Indicates the power consumption limit as a percentage. The percentage is computed mathematically as the minimum power + (percent * (maximum power — minimum power)). The command generates an error if server throttling is necessary to achieve the power goal based on the value for this setting.

Legal Values 16–100

Default 100

cfgChassisPowerCapFPercent (Read or Write)

Description Indicates the power consumption limit as a percentage. The percentage is computed mathematically as the minimum power + (percent * (maximum power — minimum power)). Use `cfgChassisPowerCapFPercent` when power consumption is changes regardless of whether server throttling is required.

Legal Values 16–100

Default 100

cfgChassisRedundancyPolicy (Read or Write)

Description Sets the redundancy policy of the chassis.

Legal Values

- 0 — No redundancy
- 1 — Grid redundancy
- 2 — Power supply redundancy

Default 0 — No redundancy

cfgChassisDynamicPSUEngagementEnable (Read/Write)

Description Enables or disables dynamic engagement.

Legal Values

- 0 — (disabled)
- 1 — (enabled)

Default 0 — (disabled)

cfgChassisAllow110VACOperation (Read or Write)

Description Enables or disables normal chassis power allocations when any PSU is connected to 110 V AC service. If disabled and 110 V power supplies are detected, all subsequent server power allocation requests are denied. In this mode more servers cannot be powered on, regardless of server priority.

- Legal Values**
- 0 (disabled)
 - 1 (enabled)

Default 0 (disabled)

—

cfgChassisMaxPowerConservationMode (Read or Write)

Description Enables or disables maximum power conservation mode. When enabled, all servers are immediately reduced to their minimum power levels, and all subsequent server power allocation requests are denied. In this mode, performance of powered on servers may be degraded and more servers cannot be powered on, regardless of server priority.

- Legal Values**
- 0 (disabled)
 - 1 (enabled)

Default 0 (disabled)

cfgChassisPerformanceOverRedundancy (Read or Write)

Description Enables or disables server performance over power redundancy. When enabled, this option favors server performance and server power-up over maintenance of power redundancy. When disabled, the system favors power redundancy over server performance. If the power supplies in the chassis do not provide sufficient power, both for redundancy, as well as full performance, then some servers may not grant sufficient power for full performance. In order to maintain redundancy, it may not be powered on.

- Legal Values**
- 0 (disabled)
 - 1 (enabled)

Default 1 (enabled)

cfgChassisInMaxPowerCapacity (Read Only)

Description Indicates the total chassis power budget (in watts) available for chassis operation.

Legal Values None

Default None

cfgChassisInRedundancyReserve (Read Only)

Description	Indicates the amount of redundant power (in watts) in reserve that can be utilized in the event if an AC grid or PSU is unsuccessful. This value is 0 if the Redundancy Policy is set to 0 (no redundancy).
Legal Values	0 (disabled) 1 (enabled)
Default	None

cfgChassisInPowerServerAllocation (Read Only)

Description	Indicates (in watts) the cumulative power allocated to servers. There is no default as this parameter is specific to the particular customer configuration.
Legal Values	None
Default	None

cfgChassisInfrastructureInPowerAllocation (Read Only)

Description	Indicates the estimated cumulative DC output power consumption (in watts), determined from a field replaceable unit (FRU) on the hardware modules in the chassis.
Legal Values	None
Default	None

cfgChassisTotalInPowerAvailable (Read Only)

Description	Indicates the amount of power (in watts) available for use by the chassis.
Legal Values	None
Default	None

cfgChassisStandbyInPowerCapacity (Read Only)

Description	Indicates the amount of power (in watts) available for powering up any hardware modules that are either added to the chassis or powered up (if they are already present in the chassis).
Legal Values	None
Default	None

cfgChassisPowerClear (Write Only)

Description	Resets <code>cfgChassisMinPower</code> and <code>cfgChassisMaxPowerCapacity</code> , when set to 1.
Legal Values	None
Default	None

cfgChassisPowerClearTimestamp (Read Only)

Description	Time stamp when <code>cfgChassisMinPower</code> and <code>cfgChassisMaxPowerCapacity</code> were reset.
Legal Values	None
Default	None

cfgChassisPowerButtonEnable (Read or Write)

Description	Indicates if the chassis power button is enabled or disabled.
Legal Values	<ul style="list-style-type: none">• 0(disabled)• 1(enabled)
Default	None

cfgSystemEnergyConsumptionClear (Write Only)

Description	Resets energy statistics when set to 1.
Legal Values	None
Default	None

Examples

- ```
racadm getconfig -g cfgChassisPower
cfgChassisInPower=0 W | 0 BTU/hr
cfgChassisPeakPower=0 W
cfgChassisPeakPowerTimestamp=06:32:55 01/26/2009
cfgChassisMinPower=0 W
cfgChassisMinPowerTimestamp=06:32:55 01/26/2009
cfgChassisPowerStatus=5
cfgChassisRedundantState=0
cfgChassisPowerCap=16685 W
cfgChassisPowerCapF=16685 W
cfgChassisPowerCapBTU=56931 BTU/hr
cfgChassisPowerCapFBTU=56931 BTU/hr
cfgChassisPowerCapPercent =100%
cfgChassisPowerCapFPercent =100%
cfgChassisRedundancyPolicy=0
cfgChassisDynamicPSUEngagementEnable=0
cfgChassisInMaxPowerCapacity=0 W
cfgChassisInRedundancyReserve=0 W
cfgChassisInPowerServerAllocation=0 W
cfgChassisInfrastructureInPowerAllocation=51 W
cfgChassisTotalInPowerAvailable=0 W
cfgChassisStandbyInPowerCapacity=0 W
cfgChassisPowerClear=***** (Write-Only)
cfgChassisPowerClearTimestamp=18:00:00 12/31/1969
cfgChassisServerBasedPowerMgmtMode=0
cfgChassisPowerButtonEnable=1
cfgChassisAllow110VACOperation=0
cfgChassisMaxPowerConservationMode=0
cfgChassisPerformanceOverRedundancy=1
```

- ```
# cfgSystemEnergyConsumptionClear = ****(Write-Only)
cfgChassisServerBasedPowerMgmtMode=0
```
- `racadm config -g cfgChassisPower -o cfgChassisPowerClear 1`
Clears **cfgChassisMinPower** and **cfgChassisPeakPower**.

cfgThermal

This group displays and configures the thermal settings. Use this object with the **config** or **getconfig** subcommands. This group is applicable only for CMC.

To set the configurations, you must have the **Chassis Configuration Administrator** privileges.

cfgThermalEnhancedCoolingMode

Description	Configures the enhanced cooling mode.
Legal Values	<ul style="list-style-type: none"> • 1 — Enabled • 0 — Disabled
Default	0 — Disabled

cfgIpmiSol

This group is used to configure the Serial Over LAN (SOL) capabilities of the system. It is applicable only for iDRAC. The following sections provide information about the objects in the **cfgIpmiSol** group.

cfgIpmiSolEnable (Read or Write)

Description	Enables or disables SOL.
Legal Values	<ul style="list-style-type: none"> • 1(TRUE) • 0(FALSE)
Default	1

cfgIpmiSolBaudRate (Read or Write)

Description	Specifies baud rate for serial communication over LAN.
Legal Values	9600, 19200, 57600, 115200
Default	115200

cfgIpmiSolMinPrivilege (Read or Write)

Description	Specifies the minimum privilege level required for SOL access.
Legal Values	<ul style="list-style-type: none"> • 2(User) • 3(Operator)

- 4(Administrator)

Default 4

cfgIpmiSolAccumulateInterval (Read or Write)

Description Specifies the typical amount of time that iDRAC waits before transmitting a partial SOL character data packet. This value is *1-based 5ms* increments.

Legal Values 1–255

Default 10

cfgIpmiSolSendThreshold (Read or Write)

Description To buffer before sending an SOL data packet, specify the SOL threshold limit value and the maximum number of bytes.

Legal Values 1–255

Default 255

cfgIpmiLan

This group is used to configure the IPMI over LAN capabilities of the system. It is applicable only for iDRAC. The following sections provide information about the objects in the **cfgIpmiLan** group.

cfgIpmiLanEnable (Read or Write)

Description Enables or disables the IPMI over LAN interface.

Legal Values

- 1(TRUE)
- 0(FALSE)

Default 0

cfgIpmiLanPrivLimit (Read or Write)

Description Specifies the maximum privilege level allowed for IPMI over LAN access.

Legal Values

- 2(User)
- 3(Operator)
- 4(Administrator)

\Default 4

cfgIpmiLanAlertEnable (Read or Write)

Description	Enables or disables global email alerting. This property overrides all individual email alerting enable or disable properties.
Legal Values	<ul style="list-style-type: none">• 1(TRUE)• 0(FALSE)
Default	0

cfgIpmiLanEncryptionKey (Read or Write)

Description	Specifies the IPMI encryption key.
Legal Values	A string of hexadecimal digits from 0 to 40 characters with no spaces. Only an even number of digits is allowed.
Default	00

cfgIpmiLanPetCommunityName (Read or Write)

Description	Specifies the SNMP community name for traps.
Legal Values	A string of up to 18 characters.
Default	public

cfgIpmiPetIpv6

This group is applicable only for iDRAC and is used to configure IPv6 platform event traps on the managed server. The following sections provide information about the objects in the **cfgIpmiPetIpv6** group.

cfgIpmiPetIv6Index (Read Only)

Description	Unique identifier for the index corresponding to the trap.
Legal Values	1–4
Default	<index Values>

cfgIpmiPetIv6AlertDestIpAddr

Description	Configures the IPv6 alert destination IP address for the trap.
Legal Values	IPv6 address
Default	<blank>

cfgIpmiPetIPv6AlertEnable (Read or Write)

Description	Enables or disables the IPv6 alert destination for the trap.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgIpmiPef

This group is used to configure the platform event filters available on the managed server. It is applicable only for iDRAC. The event filters can be used to control policy related to actions that are triggered when critical events occur on the managed server.

The following sections provide information about the objects in the **cfgIpmiPef** group.


cfgIpmiPefName (Read Only)

Description	Specifies the name of the platform event filter.
Legal Values	A string of up to 255 characters.
Default	The name of the index filter.

cfgIpmiPefIndex (Read or Write)

Description	Specifies the index of a specific platform event filter.
Legal Values	<ul style="list-style-type: none">• For iDRAC on Rack and Tower Servers: 1–22• For iDRAC Enterprise on Blade Servers: 1–9
Default	The index value of a platform event filter object.

cfgIpmiPefAction (Read or Write)

Description	Specifies the action that is performed on the managed server when the alert is triggered.  NOTE: For iDRAC on Rack and Tower servers, this object is read-only for indexes 20, 21, and 22.
Legal Values	<ul style="list-style-type: none">• 0 (None)• 1 (Power Down)• 2 (Reset)• 3 (Power Cycle)
Default	0

cfgIpmiPefEnable (Read or Write)

Description	Enables or disables a specific platform event filter.
Legal Values	<ul style="list-style-type: none">• 1(TRUE)• 0(FALSE)
Default	1

cfgIpmiPet

This group is applicable only for iDRAC and is used to configure platform event traps on the managed server. The following sections provide information about the objects in the **cfgIpmiPet** group.

cfgIpmiPetIndex (Read Only)

Description	Unique identifier for the index corresponding to the trap.
Legal Values	1–4
Default	The index value of a specific platform event trap.

cfgIpmiPetAlertDestIpAddr (Read/Write)

Description	Specifies the destination IPv4 address for the trap receiver on the network. The trap receiver receives an SNMP trap when an event is triggered on the managed server.
Legal Values	A string representing a valid IPv4 address. For example, 192.168.0.67.
Default	0.0.0.0

cfgIpmiPetAlertEnable (Read or Write)

Description	Enables or disables a specific trap.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgUserDomain

This group is used to configure the Active Directory user domain names. A maximum of 40 domain names can be configured at any given time. This group is applicable only for iDRAC.

The following sections provide information about the objects in the **cfgUserDomain** group.

cfgUserDomainIndex (Read Only)

Description Represents a specific domain.

Legal Values 1–40

Default The index value.

cfguserdomainname (Read Only)

Description Specifies the Active Directory user domain name.

Legal Values A string of up to 254 ASCII characters

Default <blank>

cfgServerPower

This group provides several power management features. It is applicable only for iDRAC.

The following sections provide information about the objects in the **cfgServerPower** group.

cfgServerPowerStatus (Read Only)

Description Represents the server power state, either ON or OFF.
This object is applicable only for iDRAC.

Legal Values

- 1 (ON)
- 0 (OFF)

Default 0

cfgServerPowerAllocation (Read Only)

Description Represents the available allocated power supply for server usage.



NOTE: If there is more than one power supply, this object represents the minimum capacity power supply.



NOTE: This object is applicable only for iDRAC Enterprise on Rack and Tower Servers and not for iDRAC on Blade Servers or CMC.

Legal Values A string of up to 32 characters

Default <blank>

cfgServerActualPowerConsumption (Read Only)

Description Represents the power consumption by the server at the current time.

	This object is applicable only for iDRAC.
Legal Values	Not applicable
Default	<blank>

cfgServerPowerCapEnable (Read or Write)

Description	Enables or disables the user specified power budget threshold. This object is Read only for iDRAC Enterprise on Blade Servers.
Legal Values	<ul style="list-style-type: none"> • 0 — Disables the user specified power budget threshold • 1 — Enables the user specified power budget threshold
Default	1

cfgServerMinPowerCapacity (Read Only)

Description	Represents the minimum server power capacity on a blade based on the current component inventory. This object is applicable only for iDRAC.
Legal Values	Not applicable
Default	<blank>

cfgServerMaxPowerCapacity (Read Only)

Description	Represents the maximum server power capacity based on the current component consumption. This object is applicable only for iDRAC.
Legal Values	Not applicable
Default	<blank>

cfgServerPeakPowerConsumption (Read Only)

Description	Represents the servers maximum power consumption until the current time. This object is applicable only for iDRAC.
Legal Values	Not applicable
Default	Peak power consumption of the server


cfgServerPeakPowerConsumptionTimestamp (Read Only)

Description	Specifies time when the maximum power consumption was recorded. This object is applicable only for iDRAC.
Legal Values	A string of up to 32 characters.
Default	Timestamp of the peak power consumption of the server.


cfgServerPowerConsumptionClear (Write Only)

Description	Clears the current recorded power statistics. This object is applicable only for iDRAC.
Legal Values	1 — Clears the Power Consumption Statistics
Default	None


cfgServerPowerCapWatts (Read or Write)

Description	Represents the server power threshold in Watts. This object is applicable only for iDRAC.  NOTE: This value is applicable only if the <code>cfgServerPowerCapEnable</code> is set to 1.
Legal Values	None
Default	Server power threshold in Watts.

cfgServerPowerCapBtuhr (Read or Write)

Description	Represents the server power threshold in BTU/hr. This object is applicable only for iDRAC.  NOTE: This value is applicable only if <code>cfgServerPowerCapEnable</code> is set to 1.
Legal Values	None
Default	Server power threshold in BTU/hr.

cfgServerPowerCapPercent (Read or Write)

Description	Represents the server power threshold in percentage. This object is applicable only for iDRAC.  NOTE: This value is applicable only if <code>cfgServerPowerCapEnable</code> is set to 1.
Legal Values	None
Default	Server power threshold in percentage.

cfgServerPowerLastHourAvg (Read Only)

Description	Displays the average power value during the last hour. This object is applicable only for iDRAC.
Legal Values	None
Default	Average power value during the last hour.

cfgServerPowerLastDayAvg (Read Only)

Description	Displays the average power value during the last day. This object is applicable only for iDRAC.
Legal Values	None
Default	Average power value during the last day.

cfgServerPowerLastWeekAvg (Read Only)

Description	Displays the average power value during the last week. This object is applicable only for iDRAC.
Legal Values	None
Default	Average power value during the last week.

cfgServerPowerLastHourMinPower (Read Only)

Description	Displays the minimum power value during the last hour. This object is applicable only for iDRAC.
Legal Values	Not applicable
Default	Minimum power value during the last hour.

cfgServerPowerLastHourMinTime (Read Only)

Description	Displays the timestamp of minimum power value during the last minute. This object is applicable only for iDRAC.
Legal Values	Time in the format: DD MM Date HH:MM:SS YYYY cfgServerPowerLastHourMinTime=Mon Sep 26 19:10:56 2011 where, <ul style="list-style-type: none">• DD= Day of the week• MM= Month• Date=Date• YYYY = Year• HH = hour• MM=Minutes• SS = Seconds
Default	Minimum power value during the last minute.

cfgServerPowerLastHourMaxPower (Read Only)

Description	Displays the maximum power value during the last hour.
--------------------	--

	This object is applicable only for iDRAC.
Legal Values	Not applicable
Default	Maximum power value during the last hour.

cfgServerPowerLastHourMaxTime (Read Only)

Description	Displays the timestamp of maximum power value during the last hour. This object is applicable only for iDRAC.
Legal Values	Time in the format: DD MM Date HH:MM:SS YYYY where, <ul style="list-style-type: none"> • DD= Day of the week • MM= Month • Date=Date • YYYY = Year • HH = hour • MM=Minutes • SS = Seconds
Default	Maximum power value during the last hour.

cfgServerPowerLastDayMinPower (Read Only)

Description	Displays the minimum power value during the last day. This object is applicable only for iDRAC.
Legal Values	Not applicable
Default	Minimum power value during the last day.

cfgServerPowerLastDayMinTime (Read Only)

Description	Displays the timestamp of minimum power value during the last day. This object is applicable only for iDRAC.
Legal Values	Time in the format: DD MM Date HH:MM:SS YYYY where, <ul style="list-style-type: none"> • DD = Day of the week • MM = Month • Date = Date • YYYY = Year • HH = hour • MM = Minutes • SS = Seconds
Default	Timestamp of the minimum power value during the last day.

cfgServerPowerLastDayMaxPower (Read Only)

Description	Displays the maximum power value during the last day. This object is applicable only for iDRAC.
Legal Values	Not applicable
Default	Maximum power value during the last day.

cfgServerPowerLastDayMaxTime (Read Only)

Description	Displays the timestamp of maximum power value during the last day. This object is applicable only for iDRAC.
Legal Values	Time in the format: DD MM Date HH:MM:SS YYYY where, <ul style="list-style-type: none">• DD = Day of the week• MM = Month• Date = Date• YYYY = Year• HH = hour• MM = Minutes• SS = Seconds
Default	Timestamp of the maximum power value during the last day.

cfgServerPowerLastWeekMinPower (Read Only)

Description	Displays the minimum power value during the last week. This object is applicable only for iDRAC.
Legal Values	Not applicable
Default	Minimum power value during the last week.

cfgServerPowerLastWeekMinTime (Read Only)

Description	Displays the timestamp of minimum power value during the last week. This object is applicable only for iDRAC.
Legal Values	A string of up to 32 characters. Time in the format: DD MM Date HH:MM:SS YYYY where, <ul style="list-style-type: none">• DD = Day of the week• MM = Month• Date = Date• YYYY = Year• HH = hour• MM = Minutes

- SS = Seconds

Default Timestamp of the minimum power value during the last week.

cfgServerPowerLastWeekMaxPower (Read Only)

Description Displays the maximum power value during the last week.
This object is applicable only for iDRAC.

Legal Values None

Default Maximum power value during the last week.

cfgServerPowerLastWeekMaxTime (Read Only)

Description Displays the timestamp of maximum power value during the last week.
This object is applicable only for iDRAC.

Legal Values A string of up to 32 characters.
Time in the format: DD MM Date HH:MM:SS YYYY
where,

- DD = Day of the week
- MM= Month
- Date = Date
- YYYY = Year
- HH = hour
- MM = Minutes
- SS = Seconds

Default Timestamp of the maximum power value during the last week.

cfgServerPowerInstHeadroom (Read Only)

Description Displays the difference between the available power and the current power consumption.
This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers.

Legal Values Not applicable

Default Difference between the available power and the current power consumption.

cfgServerPowerPeakHeadroom (Read Only)

Description Displays the difference between the available power and the peak power consumption.
This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers or CMC.

Legal Values None

Default Difference between the available power and the peak power consumption.

cfgServerActualAmperageConsumption (Read Only)

Description	Displays the current power consumption. This object is applicable only for iDRAC.
Legal Values	Not applicable
Default	Current power consumption.

cfgServerPeakAmperage (Read Only)

Description	Displays the current peak power consumption.
Legal Values	Not applicable
Default	Current peak power consumption.

cfgServerPeakAmperageTimeStamp (Read Only)

Description	Displays the timestamp of the current peak power consumption. This object is applicable only for iDRAC.
Legal Values	A string of up to 32 characters. Time in the format: DD MM Date HH:MM:SS YYYY where, <ul style="list-style-type: none">• DD = Day of the week• MM = Month• Date = Date• YYYY = Year• HH = hour• MM = Minutes• SS = Seconds
Default	Timestamp of the current peak power consumption.

cfgServerCumulativePowerConsumption (Read Only)

Description	Displays the cumulative power consumption. This object is applicable only for iDRAC.
Legal Values	Not applicable
Default	Cumulative power consumption.

cfgServerCumulativePowerConsumptionTimeStamp (Read Only)

Description	Displays the timestamp of the cumulative power consumption. This object is applicable only for iDRAC.
Legal Values	A string of up to 32 characters.

Time in the format: DD MM Date HH:MM:SS YYYY
where,

- DD = Day of the week
- MM= Month
- Date=Date
- YYYY = Year
- HH = hour
- MM=Minutes
- SS = Seconds

Default Timestamp of the cumulative power consumption.

cfgServerCumulativePowerClear (Write Only)

Description Clears the `cfgServerCumulativePowerConsumption` and `cfgServerCumulativePowerConsumptionTimeStamp` values.
This object is applicable only for iDRAC.

Legal Values 1

Default None

cfgServerPowerPCleAllocation (Read or Write)

Description Amount of power allocated to the PCIe cards.
This object is applicable for iDRAC Enterprise only for specific Blade Servers and not for iDRAC on Rack and Tower Servers or CMC.
You must have the Administrator privileges to modify the value for this object.

Legal Values 0 W: For platforms that do not support PCIe cards.
100 W — 500 W: For platforms that support PCIe cards.

Default 0: For platforms that do not support PCIe cards.
500 W: For platforms that support PCIe cards.

cfgKVMInfo

This group is used to display information for and configure the iKVM.

Use this object with the **config** or **getconfig** subcommands.

This group is applicable only for CMC.

To use this object property, you must have Chassis Configuration Administrator privilege.

cfgKVMAccessToCMCEnable

Description Enables or disables the Dell CMC Console access on the iKVM.

Legal Values

- 1 (Enable)
- 0 (Disable)

Default None

cfgKVMFrontPanelEnable

Description Enables or disables front panel access on the iKVM.

Legal Values • 1 (enable)
 • 0 (disable)

Default None

Example

```
racadm getconfig -g cfgKVMInfo  
  
cfgKVMAccessToCMCEnable=1  
cfgKVMFrontPanelEnable=1
```

cfgAlerting

This group enables or disables SNMP event trap alerting and sets the event filter.

This group is applicable only for CMC.

Use this object with the **config** or **getconfig** subcommands.

To use this object property, you must have Chassis Configuration Administrator privilege.

cfgAlertingEnable

Description Enables or disables event traps on the CMC.

Legal Values • 1 (true)
 • 0 (false)

Default None

cfgAlertingFilterMask

Description Sets the event filter.

Legal Values Hex values 0x0 — 0xffffffff

Default 0x17ff8db

cfgAlertingSourceEmailName

Description Specifies the email address used to send email notifications when an event occurs.

Legal Values None

Default None

Examples

```
racadm getconfig -g cfgAlerting -o cfgAlertingSourceEmailName
```

```
racadm config -g cfgAlerting -o cfgAlertingSourceEmailName user@home.com
```

Object value modified successfully.

cfgLcdLocale

Description Specifies the Language (locale) for the Blade Chassis LCD interface.

Legal Values de, fr, en, es, ja, zh-cn.

Default en

Example


```
racadm config -g cfgLcdInfo -o cfgLcdLocale en
```


Object value modified successfully.

cfgServerPowerSupply

This group contains information related to the power supplies.


The **cfgServerPowerSupply** object group is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers.

 **NOTE:** The **getconfig** subcommand always shows eight **cfgServerPowerSupply** indexes, even if two power supplies are installed in the system or the system supports a maximum of two PSUs. For the uninstalled and unsupported units, all the objects in the **cfgServerPowerSupply** group displays a value of 0.

The following sections provide information about the objects in the **cfgServerPowerSupply** group.

cfgServerPowerSupplyIndex

Description Specifies index of the PSU.

 **NOTE:** Indexes 1–8 are supported to support up to 8 PSUs. If any PSU is not present then **cfgServerPowerSupplyOnlineStatus** does not exist and for all the other properties, it is 0.

Legal Values Integer 1–8

Default None

cfgServerPowerSupplyMaxInputPower (Read Only)

Description Displays the AC input rated power in Watts.

Legal Values A string of up to 32 characters.

Default 0

cfgServerPowerSupplyMaxOutputPower (Read Only)

Description Displays the AC output rated power in Watts.

Legal Values A string of up to 32 characters.

Default 0

cfgServerPowerSupplyOnlineStatus (Read Only)

Description Displays the status of the PSU.

Legal Values

- 0 — Present
- 1 — Absent
- 2 — Failure
- 3 — Predictive failure

Default 0 — Present

cfgServerPowerSupplyFwVer (Read Only)

Description Displays the firmware version of the PSU, in the format x.xx.xxx.

Legal Values A string up to 8 characters.

Default Null

cfgServerPowerSupplyCurrentDraw (Read Only)

Description Displays the instantaneous current consumption in 0.1 amps.

Legal Values A string of up to 32 characters.

Default 0

cfgServerPowerSupplyType

Description Displays whether the power supply is AC or DC.

Legal Values A string of up to 32 characters.


Default 0

cfgIPv6LanNetworking

This group is used to configure the IPv6 over LAN networking capabilities.

Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have Chassis Configuration Administrator privilege.


 **NOTE:** To apply this setting to iDRAC, use the `-m` option.

The following sections provide information about the objects in the **cfgIPv6LanNetworking** group.

cfgIPv6Enable (Read or Write)

Description	Enables or disables iDRAC or CMC IPv6 stack.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0


cfgIPv6Address

Description	Assigns a static IPv6 address to the CMC. This property is used only if <code>cfgIPv6AutoConfig</code> is set to 0 (false).
	 NOTE: This object is applicable only for CMC.
Legal Values	A string representing a valid IPv6 address. For example, 2001:DB8:1234:5678:9ABC:DE11:C00C:BEEF
Default	:


cfgIPv6Address1 (Read or Write)

Description	Specifies iDRAC or CMC IPv6 address.
Legal Values	String representing a valid IPv6 entry.
Default	:



cfgIPv6Gateway (Read or Write)

Description	iDRAC or CMC gateway IPv6 address.
	 NOTE: For CMC, this property is used only if <code>cfgIPv6AutoConfig</code> is set to 0 (false).
Legal Values	Specifies string representing a valid IPv6 entry.
Default	:

cfgIPv6PrefixLength (Read or Write)

Description	Specifies the prefix length for iDRAC or CMC IPv6 address.
	 NOTE: <ul style="list-style-type: none">• For CMC, this property is used only if <code>cfgIPv6AutoConfig</code> is set to 0(false)• For iDRAC, this property can be configured even when <code>cfgIPv6AutoConfig</code> is enabled.
Legal Values	For iDRAC: 1–128 For CMC: 0–128
Default	64

cfgIPv6AutoConfig (Read or Write)

Description	Enables or disables the IPv6 Auto Configuration option.  NOTE: If this value is set to 0, the CMC disables auto configuration and statically assigns IPv6 addresses. If this value is set to 1, the CMC obtains address and route information using <code>stateless auto configuration</code> and DHCPv6.  NOTE: The CMC uses its MAC address for its DUID (DUID-LL) when communicating with a DHCPv6 server.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	<ul style="list-style-type: none">• For iDRAC: 0• For CMC: 1

cfgIPv6LinkLocalAddress (Read Only)

Description	The iDRAC IPv6 link local address. This object is applicable only for iDRAC.
Legal Values	Specifies a string representing a valid IPv6 entry.
Default	:

cfgIPv6Address2 (Read Only)

Description	The iDRAC IPv6-second address. This object is applicable only for iDRAC.
Legal Values	A string representing a valid IPv6 entry.
Default	:

cfgIPv6Address3 (Read Only)

Description	The iDRAC IPv6 third address. This object is applicable only for iDRAC.
Legal Values	String representing a valid IPv6 entry.
Default	:

cfgIPv6Address4 (Read Only)

Description	The iDRAC IPv6 fourth address. This object is applicable only for iDRAC.
Legal Values	String representing a valid IPv6 entry.

Default :

cfgIPv6Address5 (Read Only)

Description The iDRAC IPv6 fifth address.
This object is applicable only for iDRAC.

Legal Values String representing a valid IPv6 entry.

Default :

cfgIPv6Address6 (Read Only)

Description The iDRAC IPv6 sixth address.
This object is applicable only for iDRAC.

Legal Values String representing a valid IPv6 entry.

Default :

cfgIPv6Address7 (Read Only)

Description The iDRAC IPv6 seventh address.
This object is applicable only for iDRAC.

Legal Values String representing a valid IPv6 entry.

Default :

cfgIPv6Address8 (Read Only)

Description The iDRAC IPv6 eighth address.
This object is applicable only for iDRAC.

Legal Values String representing a valid IPv6 entry.

Default :

cfgIPv6Address9 (Read Only)

Description The iDRAC IPv6 ninth address.
This object is applicable only for iDRAC.

Legal Values String representing a valid IPv6 entry.

Default :

cfgIPv6Address10 (Read Only)

Description The iDRAC IPv6 tenth address.
This object is applicable only for iDRAC.

Legal Values String representing a valid IPv6 entry.

Default :

cfgIPv6Address11 (Read Only)

Description The iDRAC IPv6 eleventh address.
This object is applicable only for iDRAC.

Legal Values String representing a valid IPv6 entry.

Default :

cfgIPv6Address12 (Read Only)

Description The iDRAC IPv6 twelfth address.
This object is applicable only for iDRAC.

Legal Values String representing a valid IPv6 entry.

Default :

cfgIPv6Address13 (Read Only)

Description The iDRAC IPv6 thirteenth address.
This object is applicable only for iDRAC.

Legal Values String representing a valid IPv6 entry.

Default :

cfgIPv6Address14 (Read Only)

Description The iDRAC IPv6 fourteenth address.
This object is applicable only for iDRAC.

Legal Values String representing a valid IPv6 entry.

Default :

cfgIPv6Address15 (Read Only)


Description The iDRAC IPv6 fifteenth address.
This object is applicable only for iDRAC.

Legal Values String representing a valid IPv6 entry.

Default :

cfgIPv6DNSServersFromDHCP6 (Read or Write)

Description Specifies whether `cfgIPv6DNSServer1` and `cfgIPv6DNSServer2` are static or DHCP IPv6 addresses.


 **NOTE:** This property is used only if `cfgIPv6AutoConfig` is set to 1 (true).

Legal Values 1 (TRUE)
0 (FALSE)

Default For iDRAC:0 For CMC: 1

cfgIPv6DNSServer1 (Read/Write)

Description Specifies the IPv6 DNS server address.


 **NOTE:** This property is used only if `cfgIPv6DNSServersFromDHCP6` is set to 0 (false).

Legal Values A string representing a valid IPv6 entry. For example,
2001:DB8:1234:5678:9ABC:DE11:C00C:BEEF

Default :

cfgIPv6DNSServer2 (Read or Write)

Description Specifies the IPv6 DNS server address.

 **NOTE:** This property is only valid if `cfgIPv6DNSServersFromDHCP6` is set to 0 (false).

Legal Values A string representing a valid IPv6 entry. For example,
2001:DB8:1234:5678:9ABC:DE11:C00C:BEEF

Default :

Example

```
$ racadm getconfig -g cfgIPv6LanNetworking
cfgIPv6Enable=1
cfgIPv6AutoConfig=1
cfgIPv6Address=:
cfgIPv6PrefixLength=64
cfgIPv6Gateway=:
cfgIPv6DNSServersFromDHCP6=1
cfgIPv6DNSServer1=:
cfgIPv6DNSServer2=:
```

If both IPv4 and IPv6 are enabled on the CMC, IPv6 DNS servers take priority. The order of preference for DNS servers is:


- `cfgIPv6DNSServer1`
- `cfgIPv6DNSServer2`
- `cfgDNSServer1`
- `cfgDNSServer2`

cfgIPv6StaticLanNetworking


This group is used to configure the IPv6 Static over LAN networking capabilities. This group is applicable only for iDRAC.

cfgIPv6StaticEnable (Read or Write)

Description	Enables or disables the static IPv6 stack.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default	0 — Disabled

 **NOTE:** If this object is modified, then the object **cfgIPv6Enable** is also modified.

cfgIPv6StaticAddress1 (Read or Write)

Description	Returns or sets the static IPv6 address1.  NOTE: Only set the current IPv4 address if cfgNicUseDhcp is set to 0 (false).
Legal Values	Any IPv6 address
Default	

cfgIPv6StaticGateway (Read or Write)


Description	Returns or sets gateway static IPv6 address.
Legal Values	Any IPv6 address
Default	

cfgIPv6StaticPrefixLength (Read or Write)

Description	The prefix length for static IPv6 address 1.
Legal Values	0–128
Default	64

cfgIPv6StaticAutoConfig (Read/Write)

Description	Enables or disables the static IPv6 AutoConfig option.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default	1 — Enabled

 **NOTE:** If this object is modified, then the object `cfgIPv6Autoconfig` is also modified.

cfgIPv6StaticDNSServersFromDHCP6 (Read or Write)

Description	Specifies the DNS server static IP addresses.
Legal Values	<ul style="list-style-type: none">• 0 — DNS Server must be configured as static.• 1 — The device will get the DNS servers from DHCPv6.
Default	0 — Disabled

cfgIPv6StaticDNSServer1 (Read or Write)

Description	Specifies the DNS server 1 static IPv6 address.
Legal Values	Any IPv6 Address
Default	

cfgIPv6StaticDNSServer2 (Read or Write)

Description	Specifies the DNS server 2 static IPv6 address.
Legal Values	Any IPv6 address
Default	

cfgCurrentLanNetworking (Read Only)

This group displays the current CMC NIC properties.

This group is applicable only for CMC. Use this object with the `getconfig` subcommand.

To use this object property, you must have the CMC Login User privilege.

Synopsis

```
racadm getconfig -g cfgCurrentLanNetworking
```

cfgNicCurrentIpAddress

Description	Displays the static IP address to the CMC.
Legal Values	
Default	

cfgNicCurrentNetmask

Description	Displays the static subnet mask for the CMC IP address
Legal Values	
Default	

cfgNicCurrentGateway

Displays the static gateway for the CMC IP address.

Description Displays the static gateway for the CMC IP address.

Legal Values

Default

cfgNicCurrentDhcpWasUsed

Description Indicates whether DHCP is used to configure the NIC.

Legal Values 0 — address is static.
0 — address was obtained from the DHCP server.

Default None

cfgNicCurrentVlanEnable (Read Only)

Description Indicates whether the VLAN is enabled.

Legal Values 0 — VLAN is disabled
1 — VLAN is enabled

Default None

cfgNicCurrentVlanID (Read Only)

Description Indicates the Current Virtual Lan ID

Legal Values Integer

Default None

cfgNicCurrentVlanPriority (Read Only)

Description Indicates the Current Virtual Lan Priority.

Legal Values Integer

Default None

cfgDNSCurrentServer1

Description Displays the IP address for DNS server 1.

Legal Values A Valid IPv4 DNS IP

Default None

cfgDNSCurrentServer2

Description Displays the IP address for DNS server 2.

Legal Values

Default

cfgDNSCurrentDomainName

Description Displays the DNS domain name.

Legal Values

Default

cfgNicCurrentIPv4Enabled

Description Indicates whether IPv4 is enabled on the CMC. If the current property value is set to 0(false), the remote network interfaces to the CMC are not accessible over IPv4.

Legal Values

Default

Example

```
racadm getconfig -g cfgCurrentLanNetworking
# cfgNicCurrentIPv4Enabled=1
# cfgNicCurrentIpAddress=143.166.152.116
# cfgNicCurrentNetmask=255.255.255.0
# cfgNicCurrentGateway=143.166.152.1
# cfgNicCurrentDhcpWasUsed=0
# cfgNicCurrentVlanEnable=0
# cfgNicCurrentVlanID=1
# cfgNicCurrentVlanPriority=0
# cfgDNSCurrentServer1=192.168.0.5
# cfgDNSCurrentServer2=192.168.0.6
# cfgDNSCurrentDomainName=MYDOMAIN
```

cfgCurrentIPv6LanNetworking (Read Only)

This group displays the current CMC IPv6 properties.

This group is applicable only for CMC. Use this object with the **getconfig** subcommand.

To use this object property, you must have the CMC Login User privilege.

cfgCurrentIPv6Enabled

Description Indicates whether IPv6 is enabled on the CMC. If the current property value is set to 0 (false), the remote network interfaces to the CMC are not accessible over IPv6.

Legal Values

Default

cfgCurrentIPv6AutoConfigWasUsed

Description	Indicates whether auto configuration is used to obtain IPv6 settings, including stateless IPv6 addresses and gateway.
Legal Values	0 (static addressing is used) 1 (address is obtained from the DHCPv6 server and/or stateless auto configuration)
Default	None

cfgCurrentLinkLocalAddress

Description	Displays the current IPv6 link-local address of the CMC.
Legal Values	
Default	

cfgCurrentIPv6Address1

Description	Displays the current IPv6 addresses. This property displays up to 15 global IPv6 addresses, including stateful and stateless addresses.
Legal Values	
Default	

cfgCurrentIPv6Gateway

Description	Displays the current IPv6 gateway.
Legal Values	
Default	

cfgCurrentIPv6DNSServersFromDHCP6

Description	Indicates whether the DNS server addresses are assigned from the DHCPv6 server.
Legal Values	
Default	

cfgCurrentIPv6DNSServer1

Description	Displays the IPv6 address for DNS server 1.
Legal Values	
Default	

cfgCurrentIPv6DNSServer2

Description	Displays the IPv6 address for DNS server 2.
Legal Values	None
Default	None

Example

```
racadm getconfig -g cfgCurrentIPv6LanNetworking
# cfgCurrentIPv6Enabled=1
# cfgCurrentIPv6AutoConfigWasUsed=1
# cfgCurrentLinkLocalAddress=fe80::21e:4fff:fe1f:5371/64
# cfgCurrentIPv6Address1=2009:123::e48f:9dd8:6f51:a669/64
# cfgCurrentIPv6Address2=fd88:1::21e:4fff:fe1f:5371/64
# cfgCurrentIPv6Address3=fd88:2::21e:4fff:fe1f:5371/64
# cfgCurrentIPv6Gateway=fe80::21c:23ff:fe77:6215
# cfgCurrentIPv6DNSServersFromDHCP6=1
# cfgCurrentIPv6DNSServer1=2009:123::1
# cfgCurrentIPv6DNSServer2=::
```

cfgIPv6URL

This group specifies properties used to configure iDRAC IPv6 URL.

This group is applicable only for iDRAC.

The following sections provide information about the objects in the **cfgIPv6URL** group.

cfgIPv6URLstring (Read Only)

Description	The iDRAC IPv6 URL.
Legal Values	A string of up to 80 characters.
Default	<blank>

cfgIpmiSerial

This group specifies properties used to configure the IPMI serial interface of the BMC.

It is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers or CMC.

cfgIpmiSerialBaudRate (Read or Write)

Description	Specifies the baud rate for a serial connection over IPMI.
Legal Values	9600, 19200, 57600, 115200
Default	57600

cfgIpmiSerialChanPrivLimit (Read or Write)

Description	Specifies the maximum privilege level allowed on the IPMI serial channel.
Legal Values	<ul style="list-style-type: none">• 2 (User)• 3 (Operator)• 4 (Administrator)
Default	4

cfgIpmiSerialConnectionMode (Read or Write)

Description	When the iDRAC <code>cfgSerialConsoleEnable</code> property is set to 0(disabled), the iDRAC serial port becomes the IPMI serial port. This property determines the IPMI defined mode of the serial port. In Basic mode, the port uses binary data with the intent of communicating with an application program on the serial client. In Terminal mode, the port assumes that a dumb ASCII terminal is connected and allows simple commands to be entered.
Legal Values	<ul style="list-style-type: none">• 0(Terminal)• 1(Basic)
Default	1

cfgIpmiSerialDeleteControl (Read or Write)

Description	Enables or disables delete control on the IPMI serial interface.
Legal Values	<ul style="list-style-type: none">• 0 (FALSE)• 1 (TRUE)
Default	0

cfgIpmiSerialEchoControl (Read or Write)

Description	Enables or disables echo control on the IPMI serial interface.
Legal Values	<ul style="list-style-type: none">• 0(FALSE)• 1 (TRUE)
Default	1

cfgIpmiSerialFlowControl (Read or Write)

Description	Specifies the flow control setting for the IPMI serial port.
Legal Values	<ul style="list-style-type: none">• 0 (None)• 1 (CTS or RTS)

Default 1

cfgIpmiSerialHandshakeControl (Read or Write)

Description Enables or disables the IPMI terminal mode handshake control.

- Legal Values**
- 0(FALSE)
 - 1 (TRUE)

Default 1

cfgIpmiSerialNewLineSequence (Read or Write)

Description Specifies the new line sequence specification for the IPMI serial interface.

- Legal Values**
- 0 — None
 - 1 — CR-LF
 - 2 — NULL
 - 3 — CR
 - 4 — LF-CR
 - 5 — LF

Default 1

cfgIpmiSerialLineEdit (Read or Write)

Description Enables or disables line editing on the IPMI serial interface.

- Legal Values**
- 0(FALSE)
 - 1(TRUE)

Default 1

cfgIpmiSerialInputNewLineSequence (Read or Write)

Description Specifies the input new line sequence specification for the IPMI serial interface.

- Legal Values**
- 1 — ENTER
 - 2 — NULL


Default 1

cfgSmartCard

This group specifies properties used to support access to iDRAC using a smart card. This group is applicable only for iDRAC.

The following sections provide information about the objects in the **cfgSmartCard** group.

cfgSmartCardLogonEnable (Read or Write)


Description	To iDRAC using a smart card, enable or disable with Remote RACADM support for access.  NOTE: Enabling with remote RACADM is only applicable for iDRAC on Rack and Tower Servers.
Legal Values	<ul style="list-style-type: none">• 0 (Disabled)• 1 (Enabled)• 2 (Enabled with Remote RACADM) — It is not applicable for iDRAC Enterprise on Blade Servers.
Default	0

cfgSmartCardCRLEnable (Read or Write)

Description	Enables or disables the Certificate Revocation List (CRL). This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers.
Legal Values	<ul style="list-style-type: none">• 1 (TRUE)• 0 (FALSE)
Default	0

cfgNetTuning

This group enables users to configure the advanced network interface parameters for the RAC NIC or CMC. When configured, the updated settings may take up to a minute to become active.

 **NOTE:** For iDRAC only: This group is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers.

 **CAUTION:** Use extra precaution when modifying properties in this group. Inappropriate modification of the properties in this group can result in your RAC NIC become inoperable.

The following sections provide information about the objects in the **cfgNetTuning** group.

cfgNetTuningNicSpeed

Description	Specifies the speed for the CMC NIC. This property is used only if cfgNetTuningNicAutoNeg is set to 0.
Legal Values	10, 100, or 1000
Default	100

cfgNetTuningNicAutoneg (Read or Write)

Description	Enables autonegotiation of physical link speed and duplex. If enabled, autonegotiation takes priority over other values set in this group.
Legal Values	<ul style="list-style-type: none">• 0 = Auto Negotiation is Disabled

- 1 = Auto Negotiation is Enabled

Default 1

Example

```
racadm getconfig -g cfgNetTuning
```

```
cfgNetTuningNicSpeed=100
cfgNetTuningNicFullDuplex=1
cfgNetTuningNicMtu=1500
cfgNetTuningNicAutoneg=1
```

cfgNetTuningNic100MB (Read or Write)

Description To use for the RAC NIC, specify the speed. This property is not used if `cfgNetTuningNicAutoNeg` is set to 0 (disabled).

- Legal Values**
- 0 (10 MBit)
 - 1 (100 MBit)
 - 2 (1000 MBit)

Default 1

cfgNetTuningNicFullDuplex (Read or Write)

Description Specifies the duplex setting for the RAC or CMC NIC. This property is used only if `cfgNetTuningNicAutoNeg` is set to 0 (disabled).

- Legal Values**
- 0 (Half Duplex)
 - 1 (Full Duplex)

Default 1

cfgNetTuningNicMtu (Read or Write)

Description iDRAC or CMC NIC transmits maximum size of units in bytes.

Legal Values 576–1500

Default 1500



NOTE: IPv6 requires a minimum MTU of 1280. If IPv6 is enabled, and `cfgNetTuningMtu` is set to a lower value, the CMC uses an MTU of 1280.

cfgSensorRedundancy

This group is used to set the power supply redundancy. This group is applicable only for iDRAC.

The following sections provide information about the objects in the `cfgSensorRedundancy` group.

This group is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers.

cfgSensorRedundancyIndex (Read Only)

Description	Specifies index for the sensor redundancy group being read. Only power supply redundancy is supported.
Legal Values	1
Default	None

cfgSensorRedundancyPolicy (Read or Write)

Description	Sets the power supply redundancy policy.
Legal Values	<ul style="list-style-type: none">• 2 — N/A, for systems that are not supported• 3 — Non Redundant• 4-1+1 Redundant• 4-2+1 Redundant• 16-2+2 Redundant
Default	Any legal value at that particular execution instance.

cfgSensorRedundancyCapabilities (Read Only)


Description	Returns the redundancy capabilities in the form of a bitmask. This bitmask allows the user to know which values can be set for cfgSensorRedundancyPolicy .
Legal Values	A bit mask. More than 1 bit can be set at a time to indicate multiple redundancy support. <ul style="list-style-type: none">• 0- N/A, for systems that are not supported• 1- Non-Redundant• 2- 1+1 — Redundant• 4- 2+1 — Redundant• 8- 2+2 — Redundant
Default	0

cfgSensorRedundancyStatus (Read Only)

Description	Indicates the redundancy status. The status is N/A on platforms that do not support the power supply sensor redundancy.
Legal Values	String: <ul style="list-style-type: none">• N/A• Full• Lost• Degraded
Default	None

cfgVFlashSD

This group is used to configure the properties for the Virtual Flash SD card. This group is applicable only for iDRAC.

 **NOTE:** If the vFlash card is present but is not enabled, the query for any property under this group displays:

```
ERROR: vFlash is not enabled.
```

To view the properties of this group, enable the vFlash using the command:


```
racadm config -g cfgvFlashSD -o cfgvFlashSDEnable 1
```

The following sections provide information about the objects in the **cfgVFlashSD** group.

cfgVFlashSDInitialized (Read Only)

Description	Displays whether an SD card is initialized.
Legal Values	<ul style="list-style-type: none">• 0• 1
Default	None

cfgVFlashSDEnable (Read or Write)

Description	Enables or disables the vFlash SD card.  NOTE: Disabling vFlashPartition by setting cfgVFlashSDEnable to 0 does not require a license.
Legal Values	<ul style="list-style-type: none">• 0 (Disable)• 1 (Enable)
Default	1

cfgVFlashSDSize (Read Only)

Description	Displays the size of the vFlash SD card in megabytes (MB).
Legal Values	A string of upto 64 characters.
Default	<card size>

cfgVFlashSDLicensed (Read Only)

Description	Displays whether an SD card or vFlash SD card is inserted. The vFlash SD card supports the new enhanced vFlash features and the SD card supports only the limited vFlash features.
Legal Values	<ul style="list-style-type: none">• 0(SD card is inserted)• 1(vFlash SD card is inserted)
Default	None

cfgVFlashSDAvailableSize (Read Only)

Description	Displays the available memory (in MB) on the vFlash SD card that can be used to create new partitions.
Legal Values	A string of up to 64 characters.
Default	If the card is not initialized, default is 0. If initialized, displays the unused memory on the card.

cfgVFlashSDHealth (Read Only)


Description	Displays the current health status of the vFlash SD card.
Legal Values	String: <ul style="list-style-type: none">• OK• Warning• Critical• Unknown
Default	OK

cfgVFlashSDWriteProtect (Read Only)

Description	Displays whether the physical WriteProtect latch on the vFlash SD card is enabled or disabled.
Legal Values	<ul style="list-style-type: none">• 0 (vFlash is not write-protected)• 1 (vFlash is write-protected)
Default	None

cfgVFlashPartition

This group is used to configure properties for individual partitions on the vFlash SD Card. Up to 16 partitions are supported, indexed from 1 to 16. This group is applicable only for iDRAC.

 **NOTE:** For SD cards, the index value is limited to 1 because only a single partition of size 256MB is allowed.

The following sections provide information about the objects in the **cfgVFlashPartition** group.

cfgVFlashPartitionIndex (Read Only)

Description	The index value of the partition.
Legal Values	Integer 1–16
Default	None

cfgVFlashPartitionSize (Read Only)

Description	Displays the size of the partition.
Legal Values	1 MB to 4 GB
Default	None

cfgVFlashPartitionEmulationType (Read or Write)

Description	View or modify the emulation type for the partition.
Legal Values	String: <ul style="list-style-type: none">• HDD• Floppy• CD-DVD
Default	None

cfgVFlashPartitionFlashOSVolLabel (Read Only)

Description	Displays the label for the partition that is visible to the operating system.
Legal Values	An alphanumeric string of up to six characters.
Default	None

cfgVFlashPartitionFormatType (ReadOnly)

Description	Displays the format type of the partition.
Legal Values	String: <ul style="list-style-type: none">• FAT16• FAT32• EXT2• EXT3• CD• RAW
Default	None

cfgVFlashPartitionAccessType (Read or Write)

Description	Indicates the partition access permissions. It configures the access type to read-write.
Legal Values	<ul style="list-style-type: none">• 0 (ReadOnly)• 1 (ReadWrite)
Default	0

cfgVFlashPartitionAttachState (Read or Write)

Description View or modify the partition to attached or detached.



NOTE: Detaching the vFlashPartition by setting the `cfgVFlashPartitionAttachState` to 0 does not require a license.

Legal Values

- 1 — Attached
- 0 — Detached

Default 0 — Detached

cfgLogging

This group contains parameters to enable or disable the OEM event log filtering. This group is applicable only for iDRAC. The following section provide information about the objects in the **cfgLogging** group:

cfgLoggingSELOEMEventFilterEnable (Read or Write)

Description Enables or disables the SEL Log filtering.

Legal Values

- 0 (Disable)
- 1(Enable)

Default 0

cfgRacSecurity

This group is used to configure settings related to CMC SSL certificate signing request (CSR) feature. The properties in this group must be configured before generating a CSR from CMC.

Use this object with the **config** or **getconfig** subcommands.

To use this object property, you must have the Chassis Configuration Administrator privilege. This object property is specific to CMC only.

For iDRAC this group is replaced with **cfgRacSecurityData**.

For more information about generating certificate signing requests, see the subcommand **sslcsrgen**.

For the country code, go to the link http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm

The following sections provide information about the objects in the **cfgRacSecurity** group.

cfgRacSecCsrCommonName (Read or Write)

Description Specifies the CSR Common Name (CN) that must be an IP or CMC name as given in the certificate.

Legal Values A string of up to 254 characters.

Default <blank>

cfgRacSecCsrOrganizationName (Read or Write)

Description Specifies the CSR Organization Name (O).

Legal Values A string of up to 254 characters.

Default <blank>

cfgRacSecCsrOrganizationUnit (Read or Write)

Description Specifies the CSR Organization Unit (OU).

Legal Values A string of up to 254 characters.

Default <blank>

cfgRacSecCsrLocalityName (Read or Write)

Description Specifies the CSR Locality (L).

Legal Values A string of up to 254 characters.

Default <blank>

cfgRacSecCsrStateName (Read/Write)

Description Specifies the CSR State Name (S).

Legal Values A string of up to 254 characters.

Default <blank>

cfgRacSecCsrCountryCode (Read/Write)

Description Specifies the CSR Country Code (CC).

Legal Values A string of 2 alphabet country code.

Default US

cfgRacSecCsrEmailAddr (Read/Write)

Description Specifies the CSR email address.

Legal Values A string of up to 254 characters.

Default <blank>

Example

```
racadm config -g cfgRacSecurity
```

```
cfgRacSecCsrKeySize=1024  
cfgRacSecCommonName=  
cfgRacSecOrganizationName=
```

```
cfgRacSecOrganizationUnit=  
cfgRacSecLocalityName=  
cfgRacSecStateName=  
cfgRacSecCountryCode=  
cfgRacSecEmailAddr=
```

cfgRacSecCsrKeySize (Read or Write)

Description	Specifies the SSL asymmetric key size for the CSRs.
Legal Values	1024, 2048
Default	1024


cfgRacSecCsrKeySize (Read or Write)

Description	Specifies the SSL asymmetric key size for the CSRs.
Legal Values	512, 1024, 2048
Default	1024

Database Objects With Get and Set Commands

This chapter provides the database groups and objects that must be used with the `get` or `set` subcommands. The groups and objects are applicable only for iDRAC7. When using the objects, they must begin with FQDD or FQDD alias.

The set operations for iDRAC, Lifecycle Controller and system objects do not require server restart. However, the set operations for NIC and BIOS objects are staged and job creation and server restart is required to apply and commit the pending values.

 **NOTE:** The staged configuration has the associated pending value in the output of the `get` operation, after it is configured successfully.

 **NOTE:**

- The object values in the BIOS and NIC groups are case-sensitive.
- For NIC objects, the definition of the key format is: `Key = <Device Class>.<Locator>.<Device Number>[-<Port Number>[-<Partition Number>]#GroupName"`

Where,

- Device Class: NIC
- Locator: Integrated, Slot, Mezzanine or Embedded

Example:

```
$racadm get NIC.NICConfig
NIC.NICConfig.1 [Key=NIC.Integrated.1-1#NICConfig]
NIC.NICConfig.2 [Key=NIC.Integrated.1-2#NICConfig]
NIC.NICConfig.3 [Key=NIC.Integrated.1-3#NICConfig]
NIC.NICConfig.4 [Key=NIC.Integrated.1-4#NICConfig]
```

System.ChassisInfo

The objects in this group are applicable only to modular chassis such as Dell PowerEdge M100e. To obtain the chassis-specific information, use this group.

System.ChassisInfo.Model (Read)

Description	Indicates the LCD string the user modifies.
Legal Values	String of up to 62 ASCII characters
Default Value	None
Dependency	None

System.ChassisInfo.Name (Read)

Description	Provides the name of the chassis. For example: CMC-nobel01.
Legal Values	String of up to 62 ASCII characters
Default Value	None
Dependency	None


System.ChassisInfo.ServiceTag (Read)

Description	Provides the Service Tag of the chassis.
Legal Values	String of up to 62 ASCII characters
Default Value	None
Dependency	None

System.LCD

This group enables you to manage the front panel LCD user string settings.

The following section provides information about the objects in the System.LCD group.

 **NOTE:** The System.LCD `get` and `set` command works on iDRAC on Blade Server, even if the LCD is not present on the server.

System.LCD.Configuration (Read or Write)

Description	Current LCD configuration.
Legal Values	<ul style="list-style-type: none">• 0 — User Defined• 1 — Model Name• 2 — None• 4 — iDRAC IPv4Address• 8 — iDRAC MAC Address• 16 — OS System Name• 32 — Service Tag• 64 — IPv6Address• 128 — Ambient Temperature• 256 — System Watts• 512 — Asset Tag
Default Value	32 — Service Tag
Write Privilege	Configure iDRAC and Configure User
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.LCD.CurrentDisplay (Read Only)

Description	The string currently displayed on the LCD.
Legal Values	None
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.LCD.LCDUserString (Read or Write)

Description	Indicates the LCD string set.
Legal Values	String of up to 62 ASCII characters
Default Value	0

System.Location

This group enables you to manage the server's physical location characteristics.

The following section provides information about the objects in the <System>.Location group.

System.Location.Aisle (Read or Write)

Description	Indicates aisle where server is located.
Legal Values	String of up to 128 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Location.DataCenter (Read or Write)

Description	Indicates name of the data center where the system is located.
Legal Values	String of up to 128 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Location.DeviceSize (Read Only)

Description	Indicates server chassis size.
Legal Values	Values: 1–255
Default Value	Depends on the server form factor
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Location.Rack.Name (Read or Write)

Description	Indicates rack where the system is located.
Legal Values	String of up to 128 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Location.Rack.Slot (Read or Write)

Description	Indicates the slot where system is located.
Legal Values	Values: 1–255
Default Value	0
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Default	None

System.Location.RoomName (Read or Write)

Description	Room name where the system is located.
Legal Values	String of up to 128 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Default	None

System.Location.Chassis.Name (Read Only)

Description	Indicates the chassis name.
Legal Values	String of up to 128 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Location.Chassis.Slot (Read or Write)

Description	Indicates chassis slot.
Legal Values	Values: 1–255
Write Privilege	Configure iDRAC
Dependency	None

System.Power

This group provides power management features for iDRAC.

The following section provides information about the objects in this group.

System.Power.Status (Read Only)

Description	Represents the device power state, either ON or OFF.
Legal Values	<ul style="list-style-type: none">• 0 — Server is off• 1 — Server is on.
Default Value	0 — Server is off

System.Power.ServerAllocation (Read Only)

Description	Indicates the power allocated to running blades. This value is displayed in both watts and BTU/h units.
Legal Values	0–7928
Default	None

System.Power.Avg.LastDay (Read Only)

Description	Indicates the average power value during the last day.
Legal Values	Values: 1–65535

Default Value Average power value during the last day.
Write Privilege Configure iDRAC
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

System.Power.Avg.LastHour (Read Only)

Description Displays the average power value during the last hour.
Legal Values Values: 1–65535
Default Value Average power value during the last hour.
Write Privilege Configure iDRAC
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

System.Power.Avg.LastWeek (Read Only)

Description Indicates the average power value during the last week.
Legal Values Values: 1–65535
Default Value Average power value during the last week.
Write Privilege Configure iDRAC
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

System.Power.Cap.ActivePolicy.Btuhr (Read Only)

Description Represents the active power in BTU/Hr a device is allowed to consume.
Legal Values Values: 1–65535
Write Privilege Configure iDRAC
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

System.Power.Cap.ActivePolicy.Name (Read Only)



Description Displays the Active Power Cap Policy Name
Legal Values String of up to 128 ASCII characters

Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None


System.Power.Cap.ActivePolicy.Watts (Read Only)

Description	Displays the Active Power Capacity in Watts
Legal Values	Values: 1–65535
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.Cap.Btuhr (Read or Write)

Description	Represents the maximum power in BTU/Hr a device is allowed to consume . To meet this capacity, throttle the device in order
	 NOTE: This value is read only on Modular servers.
	 NOTE: This value is applicable only if <code>System.Power.Cap.Enable</code> is set to 1.
Legal Values	Values 1–65535
Default Value	Server power threshold in BTU/hr.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Enable <code>System.Power.Cap.Enable</code>

System.Power.Cap.Enable (Read or Write)

Description	Enables or disables user specified power budget threshold configuration.
	 NOTE: This value is read only on Modular servers because CMC controls the capping.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None



System.Power.Cap.MaxThreshold (Read Only)

Description	Because it is based on the current component inventory, it has maximum server power capacity.
Legal Values	Values: 1–65535
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.Cap.MinThreshold (Read Only)

Description	Because it is based on the current component inventory, it is the lowest calculated power consumption of the device.
Legal Values	Values: 1–65535
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.Cap.Percent (Read or Write)


Description	Represents the maximum power as a percentage of total power that a server is allowed to consume. To meet this cap, throttle the device.  NOTE: This value is read only for Modular servers.  NOTE: This value is applicable only if <code>System.Power.Cap.Enable</code> is set to 1.
Legal Values	Values: 0–100
Default Value	Server power threshold in percentage.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	<code>EnableSystem.Power.Cap.Enable</code>

System.Power.Redundancypolicy

Description	Selects the redundancy policy.
Legal Values	<ul style="list-style-type: none">• N/A• Not Redundant — In this mode, even if one PSU stops functioning, the server is automatically turned off.


- A/C Input Redundant — In this mode, the system is functional even if one PSU input circuit stops functioning, provided the PSUs are connected to different input circuits. This is also called AC redundancy.
- PSU Redundant — Available only on systems with four PSUs. This is also called DC redundancy. This is only valid in a 2+1 PSU configuration. In this mode, the system is functional even if one PSU stops functioning.


Default Value	N/A
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

 **NOTE:** In a two PSU system, you must set the primary PSU (that must be ON). In a four PSU system, you must set the pair of PSUs (1+3 or 2+4) that must be ON.

System.Power.Cap.Watts (Read or Write)

Description Represents the Maximum Power in Watts a device is allowed to consume. To meet this capacity , throttle the device.

 **NOTE:** This value is read only for Modular servers.

 **NOTE:** This value is applicable only if `System.Power.Cap.Enable` is set to 1.

Legal Values	Values 0–100
Default Value	Server power threshold in watts
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Enable <code>System.Power.Cap.Enable</code>

System.Power.EnergyConsumption (Read Only)

Description	Represents the Cumulative power consumption by the blade or system.
Legal Values	Values: 1–65535
Default Value	Cumulative power consumption
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None


System.Power.EnergyConsumption.Clear (Read or Write)

Description	Clears the cumulative power consumption timestamps.
Legal Values	1
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None


System.Power.EnergyConsumption.StarttimeStamp (ReadOnly)

Description	Displays the Timestamp of the cumulative power consumption.
Legal Values	String of up to 254 ASCII characters
Default Value	Timestamp of the cumulative power consumption.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Write Privilege	None

System.Power.Hotspare.Enable (Read or Write)

Description	Enables hot-spare functionality for the primary PSU selection. For more information about hot-spare, see the iDRAC7 User's Guide available at www.dell.com/esmanuals .
	 NOTE: This object is supported only for iDRAC on Rack and Tower servers.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.Hotspare.PrimaryPSU (Read or Write)

Description	Represents the primary PSU selection.
	 NOTE: This object is supported only for iDRAC on Rack and Tower servers.
Legal Values	<ul style="list-style-type: none">• 1 — PSU1• 2 — PSU2

- 5 — PSU1 and PSU3
- 10 — PSU2 and PSU4

Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None


System.Power.Max.Amps (Read Only)

Description	Specifies the device Peak Power Consumption since this value was last cleared.
Legal Values	Values: 1–65535.
Default Value	Current peak power consumption
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.Max.Amps.TimeStamp (Read Only)

Description	Specifies the timestamp recorded for the Peak Power Consumption since this value was last cleared.
Legal Values	String up to 254 ASCII characters.
Default Value	Timestamp of the current peak power consumption
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.Max.Headroom (Read Only)

Description	Displays the difference between the available power and the peak power consumption.  NOTE: This object is not applicable on iDRAC on Modular servers.
Legal Values	Values: 1–65535
Default Value	Difference between the available power and the peak power consumption.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.Max.LastDay (Read Only)

Description	Displays the maximum power value during the last day.
Legal Values	Values: 1–65535
Default Value	Maximum power value during the last day.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.Max.LastDay.TimeStamp (Read Only)

Description	Displays the timestamp of maximum power value during the last day.
Legal Values	String of up to 254 ASCII characters
Default Value	Timestamp of the maximum power value during the last day.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.Max.LastHour (Read Only)

Description	Displays the maximum power value during the last hour.
Legal Values	Values: 1–65535
Default Value	Maximum power value during the last hour.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.Max.LastHour.TimeStamp (Read Only)

Description	Displays the timestamp of maximum power value during the last hour.
Legal Values	String of up to 254 ASCII characters
Default Value	Timestamp of the maximum power value during the last hour.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise

Dependency None

System.Power.Max.LastWeek (Read Only)

Description Displays the maximum power value during the last week.

Legal Values Values: 1–65535

Default Value Maximum power value during the last week.

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

System.Power.Max.LastWeek.TimeStamp (Read Only)

Description Displays the timestamp of maximum power value during the last week.

Legal Values String of up to 254 ASCII characters

Default Value Timestamp of the maximum power value during the last week.

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

System.Power.Max. Power (Read Only)

Description The server consumes maximum power, because the last value was cleared.

Legal Values Values: 1–65535

Default Value Peak power consumption of the server.

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

System.Power.Max.Power.Timestamp (Read Only)

Description Displays time of maximum power consumption.

Legal Values String of up to 254 ASCII characters

Default Value Timestamp of the peak power consumption of the server.

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

System.Power.Max.PowerClear (Read Only)

Description Clears the Maximum Power Consumption timestamps.
Legal Values 1 — Clear the Power Consumption Statistics
Write Privilege Configure iDRAC
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

System.Power.Min.LastDay (Read Only)

Description Displays the minimum power during the last day.
Legal Values Values: 1–65535
Default Value Minimum power value during the last day.
Write Privilege Configure iDRAC
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

System.Power.Min.LastDay.TimeStamp (Read Only)

Description Displays the minimum power value during the last day.
Legal Values String of up to 254 ASCII characters
Default Value Timestamp of the minimum power value during the last day.
Write Privilege Configure iDRAC
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

System.Power.Min.LastHour (Read Only)

Description Indicates the minimum power value during the last hour.
Legal Values Values: 1–65535
Default Value Minimum power value during the last hour.
Write Privilege Configure iDRAC

License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.Min.LastHour.Timestamp (Read Only)

Description	Indicates the timestamp of minimum power during the last hour.
Legal Values	String of up to 254 ASCII characters
Default Value	Timestamp of the minimum power value during the last hour.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None


System.Power.Min.LastWeek (Read Only)

Description	Indicates the minimum power during the last week.
Legal Values	Values: 1–65535
Default Value	Minimum power value during the last week.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.Min.LastWeek.TimeStamp (Read Only)


Description	Displays the timestamp of minimum power value during the last week.
Legal Values	String of up to 254 ASCII characters
Default Value	Timestamp of the minimum power value during the last week.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.PCIAllocation (Read or Write)


Description	Specifies PCIe power allocation for blade servers. It is applicable only for PowerEdge M610x.  NOTE: This object only applies to servers that support PCIe Card.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled

	<ul style="list-style-type: none"> • 1 — Enabled
Default Value	<ul style="list-style-type: none"> • 0 — For platforms that do not support PCIe cards. • 500 W — For platforms that support PCIe cards.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.PFCEnable (Read or Write)

Description	Enables the power factor correction enable.
	 NOTE: <ul style="list-style-type: none"> • This object is supported only for iDRAC on Rack and Tower servers. • This object is applicable only if <code>System.Power.Cap.Enable</code> is set to 1.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.Power.RedundancyCapabilities (Read Only)

Description	Returns the redundancy capabilities in the form of a bitmask. This bitmask indicates the values that are set to <code>cfgSensorRedundancyPolicy</code> .
	 NOTE: This object is not applicable on iDRAC on Blade servers.
Legal Values	<p>A Bit Mask.</p> <p>More than 1 bit can be set at a time to indicate multiple redundancy support.</p> <ul style="list-style-type: none"> • 0 — not applicable • 1 — Non-Redundant • 2 — 1+1 Redundant • 4 — 2+1 Redundant • 8 — 2+2 Redundant • 16 — 3+x Redundant • 32 — 4+x Redundant • 64 — 5+x Redundant

Default Value 0 — not applicable

System.Power.RedundantState (Read Only)

Description Retrieves the redundancy state for the chassis.

Legal Values

- 0 — None
- 1 — Full

Default 0 — None

System.Power.Supply

This group provides information relating to the Power Supplies.

This group is indexed from 1 to 4. If there are less than four power supplies on the server, then some of the last indexes of this group are not applicable. This group is not applicable for iDRAC on Rack and Tower servers.

The following section provides information about the objects in this group.

System.Power.Supply.CurrentDraw (Read Only)

Description Displays the instantaneous current consumption in 0.1 amps.

Legal Values String of up to 254 ASCII characters

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

System.Power.Supply.FwVer (Read Only)

Description Displays the firmware version of the PSU.

Legal Values String up to 254 ASCII characters.

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

System.Power.Supply.[i].MaxInputPower (Read Only)

Description Displays the AC input rated power in Watts.

Legal Values Integer > 0

Default 0

System.Power.Supply.[i].MaxOutputPower (Read Only)

Description Displays the DC output rated power in Watts.

Legal Values Integer > 0

Default 0

System.Power.Supply.[i].Status (Read Only)

Description Displays the status of the PSU.

Legal Values

- 0 — absent
- 1 — present and OK
- 2 — failure
- 3 — predictive failure

Default 0 — absent

System.Power.Supply.[i].Type (Read Only)

Description Displays whether the power supply is AC or DC. Either of them are indexed group and the square brackets are only place-holders, and do not form a part of command syntax.

Legal Values String upto 32 characters.

Default None

System.Power.Supply.[i].LineStatus (Read Only)

Description Specifies if this power supply is powered off or on.

Legal Values Integer > 0

Default None

System.Power.Supply.[i].PMBusMonitoring (Read Only)

Description Specifies if this PMBus is present or not.

Legal Values Integer > 0

Default 0

System.ServerOS

Use the objects in this group to manage the host operating system's name and version details.

System.ServerOS.HostName (Read or Write)

Description	Displays the host name of the managed server.
Legal Values	String of up to 256 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.ServerOS.OSName (Read or Write)

Description	Displays the operating system name of the managed server.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.ServerOS.OSVersion (Read Only)

Description	Indicates the operating system version of the managed server.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

System.ThermalSettings

This group provides information about the thermal settings of the server.

To know more about the platforms supported for **AirExhaustTemp** and **FanSpeedOffset** settings, see the iDRAC7 User's Guide available at www.dell.com/esmanuals.

System.ThermalSettings.AirExhaustTemp (Read or Write)

Description	Displays the air exhaust temperature and sets the exhaust temperature to any appropriate value.
Legal Values	<ul style="list-style-type: none">• 0 — 40°C• 1 — 45°C• 2 — 50°C• 3 — 55°C

- 255 — None

Default value 255 — None

License Required iDRAC7 Express

Dependency None

System.ThermalSettings.BaseAlgorithm (Read or Write)

Description Specifies the thermal base algorithm.

Legal Values

- 0 — Auto
- 1 — Max Exhaust Temperature
- 2 — Min Power

Default values None

License Required iDRAC7 Express

Dependency None

System.ThermalSettings.FanSpeedOffset (Read or Write)

Description Specifies the fan speed offset.

Legal Values

- 0 — Low offset
- 1 — High offset
- 255 — None


Default value

License Required iDRAC7 Express

Dependency None

LifecycleController.LCAttributes

The following section provides information about the objects in the `LifecycleController.LCAttributes` group.

 **NOTE:** A job successfully configured using the autoupdate or autobackup feature settings can be deleted only if the job is currently not running or downloading.

LifecycleController.LCAttributes.autobackup (Read or Write)

Description Enables or disables the automatic backup scheduler.

Legal Values

- 0 — Disabled

- 1 — Enabled

Default Value	0 — Disabled
Write Privilege	Server Control
License Required	iDRAC7 Enterprise
Dependency	None

LifecycleController.LCAttributes.autoupdate (Read or Write)

Description	Enables or disables the automatic update scheduler.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Server Control
License Required	iDRAC7 Enterprise
Dependency	None

LifecycleController.LCAttributes.BiosRTDRequested (Read or Write)

Description	Allows to reset all the BIOS attributes to the default state. After enabled, restart the iDRAC to view the default values of BIOS.
Legal Values	<ul style="list-style-type: none"> • 0 — FALSE • 1 — TRUE
Default Value	0 — FALSE
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

LifecycleController.LCAttributes.CollectSystemInventoryOnRestart (Read or Write)

Description	Enables or disables collection of system inventory on host reboot.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Server Control

License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

LifecycleController.LCAttributes.LifecycleControllerState (Read or Write)

Description	Enables or disables lifecycle controller.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled • 2 — Recovery (Read Only Value)
Default Value	1 — Enabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

LifecycleController.LCAttributes.PartConfigurationUpdate (Read or Write)

Description	Apply hardware configuration to the replaced part on part replacement.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Apply Always • 2 — Apply only if Firmware Match
Default Value	0 — Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

LifecycleController.LCAttributes.PartFirmwareUpdate (Read or Write)

Description	Apply firmware changes to the replaced part on part replacement.
Legal Values	<ul style="list-style-type: none"> 0 — Disabled 1 — Allow version upgrade only 2 — Match firmware of replaced part
Default Value	2 — Match firmware of replaced part
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.ActiveDirectory

To manage the configuration of the iDRAC Active Directory features, use the objects in this group.

iDRAC.ActiveDirectory.AuthTimeout (Read or Write)

Description	To wait for ActiveDirectory authentication requests to complete before timing out, specify the time in seconds.
Legal Values	Integral values: 15–300
Default Value	120
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.ActiveDirectory.CertValidationEnable (Read or Write)

Description	Enables or disables Active Directory certificate validation as a part of the Active Directory configuration process.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.ActiveDirectory.DCLookupByUserDomain (Read or Write)

Description	To look up the user domain for Active Directory, enables the selection option.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	Cannot be disabled unless the DC Lookup Domain Name is set.

iDRAC.ActiveDirectory.DCLookupDomainName (Read or Write)

Description	The configured search domain is used when <code>DCLookupByUserDomain</code> is disabled.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.ActiveDirectory.DCLookupEnable (Read or Write)

Description	Configures iDRAC to use preconfigured domain controllers or to use DNS to find the domain controller
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	Cannot be enabled unless one of the following is configured: <ul style="list-style-type: none">• <code>IPv4.DNS1</code>• <code>IPv4.DNS2</code>• <code>IPv6.DNS1</code>• <code>IPv6.DNS2</code>

iDRAC.ActiveDirectory.DomainController1 (Read or Write)

Description	FQDN that stores the address of the active directory domain controller1.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.ActiveDirectory.DomainController2 (Read or Write)

Description	FQDN that stores the address of the active directory domain controller 2
Legal Values	String of up to 254 ASCII characters

Write Privilege Configure iDRAC
License Required iDRAC7 Enterprise
Dependency None

iDRAC.ActiveDirectory.DomainController3 (Read or Write)

Description FQDN that stores the address of the active directory domain controller 3
Legal Values String of up to 254 ASCII characters
Write Privilege Configure iDRAC
License Required iDRAC7 Enterprise
Dependency None

iDRAC.ActiveDirectory.Enable (Read or Write)

Description Enables or disables Active Directory user authentication on iDRAC.
Legal Values

- 0 — Disabled
- 1 — Enabled

Default Value 0 — Disabled
Write Privilege Configure iDRAC
License Required iDRAC7 Enterprise
Dependency None

iDRAC.ActiveDirectory.GCLookupEnable (Read or Write)

Description Determines how to look up the global catalog server.
Legal Values

- 0 — Disabled
- 1 — Enabled

Default Value 0 — Disabled
Write Privilege Configure iDRAC
License Required iDRAC7 Enterprise
Dependency Cannot be enabled unless one of the following is configured:

- IPv4.DNS1
- IPv4.DNS2
- IPv6.DNS1

- IPv6.DNS2

iDRAC.ActiveDirectory.GCRootDomain (Read or Write)

Description	The names of the Active Directory root domain used for DNS look up.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	None
Dependency	None

iDRAC.ActiveDirectory.GlobalCatalog1 (Read or Write)

Description	Specifies the Global Catalog server from which you want the iDRAC to obtain user names.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.ActiveDirectory.GlobalCatalog2 (Read or Write)

Description	To obtain user names, specifies the Global Catalog server from which you want the iDRAC.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.ActiveDirectory.GlobalCatalog3 (Read or Write)

Description	To obtain user names, specifies the Global Catalog server from which you want the iDRAC.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.ActiveDirectory.RacDomain (Read or Write)

Description	Active Directory Domain in which iDRAC resides.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.ActiveDirectory.RacName (Read or Write)

Description	Name of iDRAC as recorded in the Active Directory forest.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.ActiveDirectory.Schema (Read or Write)

Description	To use with Active Directory, determine the schema type.
Legal Values	<ul style="list-style-type: none">• 1 — Extended Schema• 2 — Standard Schema
Default Value	1 — Extended Schema
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.ActiveDirectory.SSOEnable (Read or Write)

Description	Enables or disables Active Directory single sign-on authentication on iDRAC.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC

License Required	iDRAC7 Enterprise
Dependency	Cannot be enabled unless SmartCard Logon Enable is disabled.

iDRAC.ADGroup

To manage the configuration of AD standard schema settings, use these objects in the group. This group is indexed from 1 to 5.

iDRAC.ADGroup.Domain (Read or Write)

Description	Active Directory Domain in which the Role Group resides.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.ADGroup.Name (Read or Write)

Description	Name of the Role Group as recorded in the Active Directory forest.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.ADGroup.Privilege (Read or Write)

Description	Role-based authority privileges for a Role Group.
Legal Values	Integral values: 0–511 (0x1FF)
Default Value	0
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.AutoOSLock

To manage the OS Auto lock feature, use these objects in this group.

iDRAC.AutoOSLock.AutoOSLockState (Read or Write)

Description	Enable or Disable OS Auto lock feature.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.EmailAlert

The objects in this group configure email alerting capabilities. This group is indexed from 1 to 4.

iDRAC.EmailAlert.Address (Read or Write)

Description	Specifies the destination email address for email alerts.
Legal Values	A valid IPv4 or IPv6 address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.EmailAlert.CustomMsg (Read or Write)

Description	Specifies the custom message that forms the subject of the alert.
Legal Values	A string of up to 32 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.EmailAlert.Enable (Read or Write)

Description	To receive alerts, enable or disable the destination.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled

Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Info

To manage information about iDRAC being queried, use these objects in the group.

iDRAC.Info.Build (Read Only)

Description	String containing the current product build version.
Legal Values	String of up to 16 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Info.Description (Read Only)

Description	Text description of the iDRAC.
Legal Values	String of up to 255 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Info.Name (Read Only)

Description	User assigned name identifying this controller.
Legal Values	String of up to 15 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Info.Product (Read Only)

Description	String identifying the Product.
Legal Values	String of up to 63 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Info.Type (Read Only)

Description	Identifies the remote access controller type
Legal Values	<ul style="list-style-type: none">• 16- 12G iDRAC Monolithic• 17- 12G iDRAC Modular
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Info.Version (Read Only)

Description	String containing the current product firmware version.
Legal Values	String of up to 63 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IOIDOpt

The objects in this group manage the IOIDOpt attributes.

iDRAC.IOIDOptEnable (Read or Write)

Description	Enables or disables Identity Optimization (IO).
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default values	0 — Disabled

Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPBlocking

To configure IP address blocking feature of iDRAC, Use the objects in this group.

iDRAC.IPBlocking.BlockEnable (Read or Write)

Description	Enables or disables the IPv4 address blocking feature of iDRAC.
Legal Values	<ul style="list-style-type: none"> 0 — Disabled 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPBlocking.FailCount (Read or Write)

Description	The maximum number of logins that are unsuccessful to occur within the window before logs in attempts from the IP address are rejected.
Legal Values	Integral values: 2–16
Default Value	3
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPBlocking.FailWindow (Read or Write)

Description	Defines the time span in seconds that the unsuccessful attempts are counted.
Legal Values	Integral values from 10 to 65535
Default Value	60
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPBlocking.PenaltyTime (Read or Write)

Description	Defines the time span in seconds that session requests from an IP address with excessive failures are rejected.
Legal Values	Integral values: 2–65535
Default Value	600
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPBlocking.RangeAddr (Read or Write)

Description	Specifies the acceptable IPv4 address bit pattern in positions determined by the 1s in the range mask.
Legal Values	Valid IPv4 Address
Default Value	192.168.1.1
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPBlocking.RangeEnable (Read or Write)

Description	Enables or disables the IPv4 Address Range validation feature of iDRAC.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPBlocking.RangeMask (Read or Write)

Description	Standard IP mask values with left-justified bits.
Legal Values	Valid IPv4 Address Mask
Default Value	255.255.255.0

Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMILan

To configure IPMI over LAN of the system, use the objects in this group.

iDRAC.IPMILan.AlertEnable (Read or Write)

Description	Enables or disables global email alerting.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMILan.CommunityName (Read or Write)

Description	Specifies the SNMP community name for traps.
Legal Values	String of up to 18 ASCII characters
Default Value	Public
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMILan.Enable (Read or Write)

Description	Enables or disables the IPMI over LAN interface.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.IPMILan.EncryptionKey (Read or Write)

Description Enables or disables the IPMI over LAN interface.

Legal Values String of up to 18 ASCII characters

Default Value 00

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.IPMILan.PrivLimit (Read or Write)

Description Specifies the maximum privilege level for IPMI over LAN access.

Legal Values

- 2 — User
- 3 — Operator
- 4 — Administrator

Default Value 4 — Administrator


Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.IPMISerial

To configure the IPMI serial interface, use this objects in this group.

 **NOTE:** This is supported only for rack and tower systems.

iDRAC.IPMISerial.BaudRate (Read or Write)

Description Specifies the baud rate for serial connection over IPMI.

Legal Values

- 9600
- 19200
- 38400
- 57600
- 115200

Default Value 115200

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

iDRAC.IPMISerial.ChanPrivLimit (Read or Write)

Description Specifies the maximum privilege limit allowed on the IPMI serial channel.

Legal Values

- 2 — User
- 3 — Operator
- 4 — Administrator

Default Value 4 — Administrator

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

iDRAC.IPMISerial.ConnectionMode (Read or Write)

Description Determines the IPMI defined mode of the serial port.

Legal Values

- 1 — Basic
- 0 — Terminal

Default Value 1 — Basic

Legal Values Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

iDRAC.IPMISerial.DeleteControl (Read or Write)

Description Enables or disables delete control on the IPMI serial interface.

Legal Values

- 0 — Disabled
- 1 — Enabled

Default Value 0 — Disabled

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

iDRAC.IPMISerial.EchoControl (Read or Write)

Description	Enables or disables echo control on the IPMI serial interface.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMISerial.FlowControl (Read or Write)

Description	Specifies the Flow Control setting for IPMI serial port.
Legal Values	<ul style="list-style-type: none">• 0 — None• 2 — RTS or CTS
Default Value	2 — RTS or CTS
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMISerial.HandshakeControl (Read or Write)

Description	Enables or disables the IPMI terminal mode handshake control.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMISerial.InputNewLineSeq (Read or Write)

Description	Specifies the input new line sequence for the IPMI serial interface.
Legal Values	<ul style="list-style-type: none">• 1 — Enter

- 2 — Null

Default Value	2 — Null
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMISerial.LineEdit (Read or Write)

Description	Enables or disables line editing on the IPMI serial interface.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMISerial.NewLineSeq (Read or Write)

Description	Specifies the new line sequence for the IPMI serial interface.
Legal Values	<ul style="list-style-type: none"> • 0 — None • 1 — CR-LF • 2 — Null • 3 — CR • 4 — LF-CR • 5 — LF
Default Value	1 — CR-LF
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMISOL

Use the objects in this group to configure the SOL capabilities of the system.

iDRAC.IPMISOL.AccumulateInterval (Read or Write)

Description	Specifies the typical amount of time that iDRAC waits before transmitting a partial SOL character data packet.
Legal Values	Integral values: 1–255
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMISOL.BaudRate (Read or Write)

Description	Specifies the Baud rate for serial communication over LAN.
Legal Values	<ul style="list-style-type: none">• 9600• 19200• 57600• 115200
Default Value	115200
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMISOL.Enable (Read or Write)

Description	Enables or disables SOL.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMISOL.MinPrivilege (Read or Write)

Description	Specifies the minimum privilege level required for serial access.
Legal Values	<ul style="list-style-type: none">• 2—User• 3—Operator

- 4—Administrator

Default Value	4—Administrator
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPMISOL.SendThreshold (Read or Write)

Description	To buffer before sending an SQL data packet, specifies the SQL threshold limit value and the maximum number of bytes
Legal Values	Integral values: 1–255
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv4

To manage the IPv4 configuration properties of iDRAC, use these objects in this group.

iDRAC.IPv4.Address (Read or Write)

Description	The current IPv4 address assigned to iDRAC.
Legal Values	Valid IPv4 Address ,
Default Value	192.168.0.120
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Cannot be set unless <code>IPv4.DHCPEnable</code> is disabled.

iDRAC.IPv4.DHCPEnable (Read or Write)

Description	Specifies if DHCP is used to assign the iDRAC IPv4 address.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Cannot be enabled unless `IPv4.Enable` is enabled.

iDRAC.IPv4.DNS1 (Read or Write)

Description IPv4 address for DNS server 1.

Legal Values Valid IPv4 Address

Default Value 0.0.0.0

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Cannot be set unless `IPv4.DNSFromDHCP` is disabled.

iDRAC.IPv4.DNS2 (Read or Write)

Description IPv4 address for DNS Server 2.

Legal Values Valid IPv4 Address

Default Value 0.0.0.0

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Cannot be set unless `IPv4.DNSFromDHCP` is disabled.

iDRAC.IPv4.DNSFromDHCP (Read or Write)

Description Specifies if the DNS server IPv4 addresses must be assigned from the DHCP server on the network.

Legal Values

- 0 — Disabled
- 1 — Enabled

Default Value 0 — Disabled

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Cannot be enabled unless `IPv4.DHCPEnable` is enabled.

iDRAC.IPv4.Enable (Read or Write)

Description	Enables or disables the iDRAC IPv4 stack.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv4.Gateway (Read or Write)

Description	The gateway for the iDRAC IPv4 address.
Legal Values	Valid IPv4 gateway
Default Value	192.168.0.1
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Cannot be set unless <code>IPv4.DHCPEnable</code> is disabled.

iDRAC.IPv4.Netmask (Read or Write)

Description	The subnet mask used for the iDRAC IPv4 address.
Legal Values	Valid IPv4 netmask
Default Value	255.255.255.0
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Cannot be set unless <code>IPv4.DHCPEnable</code> is disabled.

iDRAC.IPv4Static

Use the objects in this group to manage the IPv4 Static configuration properties of iDRAC.

iDRAC.IPv4Static.Address (Read or Write)

Description	iDRAC static IPv4 address. This address can be configured even when DHCP is enabled.
Legal Values	Valid IPv4 Address
Default Value	192.168.0.120
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv4Static.DNS1 (Read or Write)

Description	Statically configurable DNS Server 1.
Legal Values	Valid IPv4 Address
Default Value	0.0.0.0
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv4Static.DNS2 (Read or Write)

Description	Statically configurable DNS Server 2.
Legal Values	Valid IPv4 Address
Default Value	0.0.0.0
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv4Static.Gateway (Read or Write)

Description	iDRAC static IPv4 gateway. This address can be configured even when DHCP is enabled.
Legal Values	Valid IPv4 gateway
Default Value	192.168.0.1
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.IPv4Static.Netmask (Read or Write)

Description iDRAC static IPv4 subnet mask. This address can be configured even when DHCP is enabled.

Legal Values Valid IPv4 netmask

Default Value 255.255.255.0

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.IPv6

To manage the IPv6 configuration properties of iDRAC, use the objects in this group.

iDRAC.IPv6.Address 1 (Read or Write)

Description iDRAC IPv6 Address.

Legal Values Valid IPv6 Address

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Cannot be set unless `IPv6.AutoConfig` is disabled.

iDRAC.IPv6.Address 2 (Read Only)

Description iDRAC IPv6 second address.

Legal Values Valid IPv6 Address

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.IPv6.Address 3 (Read Only)

Description iDRAC IPv6 third address.

Legal Values Valid IPv6 Address

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

iDRAC.IPv6.Address 4 (Read Only)

Description iDRAC IPv6 fourth address.
Legal Values Valid IPv6 Address
Write Privilege Configure iDRAC
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

iDRAC.IPv6.Address 5 (Read Only)

Description iDRAC IPv6 fifth address.
Legal Values Valid IPv6 Address
Write Privilege Configure iDRAC
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

iDRAC.IPv6.Address 6 (Read Only)

Description iDRAC IPv6 sixth address.
Legal Values Valid IPv6 Address
Write Privilege Configure iDRAC
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

iDRAC.IPv6.Address 7 (Read Only)

Description iDRAC IPv6 seventh address.
Legal Values Valid IPv6 Address
Write Privilege Configure iDRAC
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

iDRAC.IPv6.Address 8 (Read Only)

Description	iDRAC IPv6 eighth address.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6.Address 9 (Read Only)

Description	iDRAC IPv6 ninth address.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6.Address10 (Read Only)

Description	iDRAC IPv6 tenth address.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6.Address11 (Read Only)

Description	iDRAC IPv6 eleventh address.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6.Address12 (Read Only)

Description	iDRAC IPv6 twelfth address.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6.Address13 (Read Only)

Description	iDRAC IPv6 thirteenth address.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6.Address14 (Read Only)

Description	iDRAC IPv6 fourteenth address.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6.Address15 (Read Only)

Description	iDRAC IPv6 fifteenth address.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6.AutoConfig (Read or Write)

Description	Enables or disables the iDRAC IPv6 auto configuration option.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6.DNS1 (Read or Write)

Description	IPv6 DNS Server 1 Address.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Cannot be set unless <code>IPv6.DNSFromDHCP6</code> is disabled.

iDRAC.IPv6.DNS2 (Read or Write)

Description	IPv6 DNS Server 2 Address.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Cannot be set unless <code>IPv6.DNSFromDHCP6</code> is disabled.

iDRAC.IPv6.DNSFromDHCP6 (Read or Write)

Description	Specifies if the DNS Server addresses are obtained from DHCP or not.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Cannot be Enabled unless `IPv6.AutoConfig` is enabled.

iDRAC.IPv6.Enable (Read or Write)

Description Enables or Disables iDRAC IPv6 stack.

Legal Values

- 0 — Disabled
- 1 — Enabled

Default Value 0 — Disabled

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.IPv6.Gateway (Read or Write)

Description iDRAC IPv6 Gateway

Legal Values Valid IPv6 gateway

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Cannot be set unless `IPv6.AutoConfig` is disabled.

iDRAC.IPv6.LinkLocalAddress (Read or Write)

Description iDRAC IPv6 Link Local Address.

Legal Values Valid IPv6 Address

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.IPv6.PrefixLength (Read or Write)

Description Prefix length for the iDRAC IPv6 Address.

Legal Values Integral values: 1–128

Default Value 64

Write Privilege Configure iDRAC

License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6Static

To manage the IPv6 static configuration properties of iDRAC, use the objects in this group

iDRAC.IPv6Static.Address1 (Read or Write)

Description	iDRAC static IPv6 address.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6Static.DNS1 (Read or Write)

Description	Statically configurable DNS Server 1.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6Static.DNS2 (Read or Write)

Description	Statically configurable DNS Server 2.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6Static.DNSFromDHCP6 (Read or Write)

Description	Specifies if the DNS server IPv6 addresses must be assigned from the DHCP server on the network.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled

Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6Static.Gateway (Read or Write)

Description	iDRAC static IPv6 gateway.
Legal Values	Valid IPv6 Address
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6Static.PrefixLength (Read or Write)

Description	Prefix length for the iDRAC IPv6 Address.
Legal Values	Integral values: 1–128
Default Value	64
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.IPv6URL

Use the objects in this group to manage the IPv6 static configuration properties of iDRAC.

iDRAC.IPv6URL.URL (Read Only)

Description	iDRAC IPv6 URL String of format ' https://[ipv6 address]:<port number> '
Legal Values	IPv6 URL String
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	iDRAC IPv6 has to be Enabled

iDRAC.LDAP

To configure properties for LDAP settings, use the objects in this group.

iDRAC.LDAP.BaseDN (Read or Write)

Description	The Domain Name of the branch of the directory where all searches must start.
Legal Values	String of up to 63 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.LDAP.BindDN (Read or Write)

Description	The domain name of the branch of the directory where all searches must start.
Legal Values	String of up to 255 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.LDAP.Bind Password (Write Only)

Description	A bind password to use along with the bindDN.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.LDAP.CertValidationEnable (Read or Write)

Description	Controls certificate validation during SSL handshake.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC

License Required iDRAC7 Enterprise
Dependency None

iDRAC.LDAP.Enable (Read or Write)

Description Turns LDAP service on or off.

Legal Values

- 0 — Disabled
- 1 — Enabled

Write Privilege Configure iDRAC

License Required iDRAC7 Enterprise

Dependency None

iDRAC.LDAP.GroupAttribute (Read or Write)

Description Specifies which LDAP attribute is used to check for group membership.

Legal Values String of up to 128 ASCII characters

Write Privilege Configure iDRAC

License Required iDRAC7 Enterprise

Dependency None

iDRAC.LDAP.GroupAttributeIsDN (Read or Write)

Description Specifies whether the user domain name must be used from the LDAP server or from the user that provides login.

Legal Values String of up to 128 ASCII characters

Default Value 1 — Enabled

Write Privilege Configure iDRAC

License Required iDRAC7 Enterprise

Dependency None

iDRAC.LDAP.Port (Read or Write)

Description Port of LDAP over SSL.

Legal Values Integer values: 1–65535

Default Value 636

Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.LDAP.SearchFilter (Read or Write)

Description	A valid LDAP search filter to be used if the user attribute cannot uniquely identify the login user within the chosen baseDN.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.LDAP.Server (Read or Write)

Description	Configures the address of the LDAP Server.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.LDAP.UserAttribute (Read or Write)

Description	To search, specify the user attribute.
Legal Values	String of up to 128 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.LDAPRoleGroup

The objects in this group enable configuration of role groups for LDAP. This group is indexed from 1 to 5.

iDRAC.LDAPRoleGroup.DN (Read or Write)

Description	The Domain Name of this group.
Legal Values	String of up to 1024 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.LDAPRoleGroup.Privilege (Read or Write)

Description	A bit-mask defining the privileges associated with this particular group.
Legal Values	Integral values: 0–511 (0x1FF)
Default Value	0
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.LocalSecurity

To manage the ability to configure iDRAC, use the objects in this group.

iDRAC.LocalSecurity.LocalConfig (Read or Write)

Description	To configure iDRAC from Local RACADM, enable or disable the ability of the local user.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.LocalSecurity.PrebootConfig (Read or Write)

Description	To configure iDRAC from the BIOS POST option-ROM, enable or disable the ability of the local user.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled

- 1 — Enabled

Default Value 0 — Disabled

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.Logging

iDRAC. Logging Manages the ability to configure iDRAC

iDRAC.Logging.SELOEMEventFilterEnable (Read or Write)

Description Enables or disables the ability of Logging SEL Records with OEM.

Legal Values

- 0 — Disabled
- 1 — Enabled

Default Value 0 — Disabled

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None




iDRAC.NIC

To configure the iDRAC NIC, use the object in this group.

iDRAC.NIC.Autoconfig (Read or Write)

Description Sets the DHCP auto configuration operation.

Legal Values

- 0 — Disabled
 -  **NOTE:**
iDRAC does not perform DHCP configuration.
- 1 — Enable Once
 -  **NOTE:**
iDRAC performs DHCP configuration once.
- 2 — Enable Once After Reset
 -  **NOTE:**
Configures after iDRAC reset.
- 3 — Enable Always

**NOTE:**

Always configures the DHCP.

Default Values	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.NIC.AutoDetect (Read or Write)

Description	Enables or disables auto detection feature of iDRAC.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express (for Blades) or iDRAC7 Enterprise
Dependency	This object is writable only when NIC Selection is in shared mode.

iDRAC.NIC.Autoneg (Read or Write)

Description	Enables autonegotiation of physical link speed and duplex.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.NIC.DedicatedNICScanTime (Read or Write)

Description	Wait time for the iDRAC to switch from dedicated mode to shared mode.
Legal Values	Integral values: 5–255
Default Value	5
Write Privilege	Configure iDRAC

License Required	iDRAC7 Express (for Blades) or iDRAC7 Enterprise
Dependency	None

iDRAC.NIC.DNSDomainFromDHCP (Read or Write)

Description	Specifies that the iDRAC DNS domain name must be assigned from the network DHCP server.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Can be Enabled only if the following are enabled: <ul style="list-style-type: none"> • IPv4.Enable and IPv4.DHCPEnable • IPv6.Enable and IPv6.AutoConfig

iDRAC.NIC.DNSDomainName (Read or Write)

Description	The DNS Domain Name.
Legal Values	A string of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Can be set only if NIC.DNSDomainFromDHCP is disabled.

iDRAC.NIC.DNSDomainNameFromDHCP (Read or Write)

Description	Specifies that the iDRAC DNS domain name must be assigned from the network DHCP server.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.NIC.DNSRacName (Read or Write)

Description	The iDRAC name.
Legal Values	String of up to 63 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.NIC.DNSRegister (Read or Write)

Description	Registers the iDRAC name with the DNS server.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Can be Enabled only if <code>DNSRacName</code> is set.

iDRAC.NIC.Duplex (Read or Write)

Description	Specifies the duplex setting for the iDRAC NIC.
Legal Values	<ul style="list-style-type: none">• 0 — Half• 1 — Full
Default value	1 — Full
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Cannot change NIC Duplex unless <code>AutoNeg</code> is set to disabled.

iDRAC.NIC.Enable (Read or Write)

Description	Enables or Disables the iDRAC network interface controller.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled

Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.NIC.Failover (Read or Write)

Description	Enables or disables failover for iDRAC to switch from shared to dedicated.
Legal Values	<ul style="list-style-type: none"> • 0 — None • 2 — LOM1 • 3 — LOM2 • 4 — LOM3 • 5 — LOM4 • 6 — All
Default Value	0 — None
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Possible Values depend on current <code>NICSelection</code> settings.

iDRAC.NIC.MACAddress (Read Only)

Description	The MAC Address of the iDRAC.
Legal Values	String of up to 17 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.NIC.MTU (Read or Write)

Description	The size in bytes of the maximum transmission unit uses the iDRAC NIC.
Legal Values	Integral values: 576–1500
Default Value	1500
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.NIC.Selection (Read or Write)

Description	Specifies the current mode of operation for the iDRAC network interface controller.
Legal Values	<ul style="list-style-type: none">• 1 — Dedicated• 2 — LOM1• 3 — LOM2• 4 — LOM3• 5 — LOM4
Default Value	1 — Dedicated
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express (for Blades) or iDRAC7 Enterprise
Dependency	None


iDRAC.NIC.SharedNICScanTime (Read or Write)

Description	Wait time for the iDRAC to switch from shared mode to dedicated mode.
Legal Values	Integral values: 5–255
Default Value	30
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express (for Blades) or iDRAC7 Enterprise
Dependency	None


iDRAC.NIC.Speed (Read or Write)

Description	Specifies the speed for the iDRAC NIC.
Legal Values	<ul style="list-style-type: none">• 0 — 10• 1 — 100• 2 — 1000
Default Value	1 — 100
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Cannot change NIC Speed unless AutoNeg is set to disabled.


iDRAC.NIC.VLanEnable (Read Only)

Description	Enables or disables the VLAN capabilities of the iDRAC.  NOTE: This object is applicable only to iDRAC on Racks and Towers.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.NIC.VLanID (Read Only)

Description	Specifies the VLAN ID for the network VLAN configuration.  NOTE: This object is applicable only to iDRAC on Racks and Towers.
Legal Values	Integral values: 1–4069
Default Value	1
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Cannot be changed unless <code>VlanEnable</code> is enabled.

iDRAC.NIC.VLanPriority (Read Only)

Description	Specifies the VLAN priority for the network VLAN configuration.  NOTE: This object is applicable only to iDRAC on Racks and Towers.
Legal Values	Integral values: 0–7
Default Value	0
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Cannot be changed unless <code>VlanEnable</code> is enabled.

iDRAC.NICStatic

To manage DNS-related properties of iDRAC, use the objects in this group.

iDRAC.NICStatic.DNSDomainFromDHCP (Read or Write)

Description	Specifies that the iDRAC DNS domain name must be assigned from the network DHCP server.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.NICStatic.DNSDomainName (Read or Write)

Description	The DNS Domain Name.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.NTPConfigGroup

To configure the properties of NTP server, use the objects in this group.

iDRAC.NTPConfigGroup.NTP1 (Read or Write)

Description	Configure NTP Server 1 Address.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.NTPConfigGroup.NTP2 (Read or Write)

Description	Configure NTP Server 2 Address.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.NTPConfigGroup.NTP3 (Read or Write)

Description Configure NTP Server 3 Address.

Legal Values String of up to 254 ASCII characters.

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.NTPConfigGroup.NTPEnable (Read or Write)

Description On iDRAC, enable or disable NTP server access to iDRAC.

Legal Values

- 0 — Disabled
- 1 — Enabled

Default Value 0 — Disabled

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.NTPConfigGroup.NTPMaxDist (Read or Write)

Description NTP Maximum Distance

Legal Values Integral values: 1–128

Default Value 16

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.OS-BMC

To manage OS-BMC pass-through feature, use the object in this group.

iDRAC.OS-BMC.AdminState (Read or Write)

Description	On iDRAC pass through, enable or disable administrative state of OS.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.OS-BMC.OSIpAddress (Read or Write)

Description	IPv4 address of the host Operating System.
Legal Values	Valid IPv4 Address
Default Value	0.0.0.0
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.OS-BMC.PTCapability (Read or Write)

Description	Operating System to iDRAC Pass Through Capability status.
Legal Values	<ul style="list-style-type: none">• 0 — Capable• 1 — Not Capable or Unknown
Default Value	Depends on the server capability.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Racadm

To manage Remote RACADM connection settings, use the object in this group.

iDRAC.Racadm.Enable (Read or Write)

Description	Enables or disables Remote RACADM interface.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Racadm.Timeout (Read or Write)

Description	Defines the idle timeout in seconds of the Remote RACADM interface.
Legal Values	<ul style="list-style-type: none">• 0 — No timeout• Integral values: 60–10800
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.RemoteHosts

Use the objects in this group to manage the properties for configuration of the SMTP server.

iDRAC.RemoteHost.SMTPPort (Read or Write)

Description	Specifies the destination port for email alerts.
Legal Values	Integral values: 1–65535
Default Value	25
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express
Dependency	None

iDRAC.RemoteHosts.SMTPServerIPAddress (Read or Write)

Description	IPv4 or IPv6 address of the network SMTP server.
Legal Values	String representing a valid SMTP server IPv4 or IPv6 address
Default Value	0.0.0.0

Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.RFS

To configure Remote file share access to iDRAC, use the object in this group

iDRAC.RFS.AttachMode (Read or Write)

Description	RFS Media attach mode.
Legal Values	<ul style="list-style-type: none"> • 0 — Attach • 1 — Auto Attach
Default Value	1 — Auto Attach
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.RFS.MediaAttachState (Read Only)

Description	RFS Media attach state.
Legal Values	<ul style="list-style-type: none"> • 0 — Attached • 1 — Detached
Default Value	1 — Detached
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Security

Use the objects in this group to configure SSL certificate signing request settings.

For the country code, go to the link: http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm.

iDRAC.Security.CsrCommonName (Read or Write)

Description	Specifies the CSR Common Name (CN) that must be an IP as given in the certificate.
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Security.CsrCountryCode (Read or Write)

Description	Specifies the CSR Country Code (CC).
Legal Values	String of a 2 Alphabet Country Code. For example: US
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Security.CsrEmailAddr (Read or Write)

Description	Specifies the CSR email address.
Legal Values	Valid email address string of up to 254 ASCII characters.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Security.CsrKeySize (Read or Write)

Description	Specifies the SSL asymmetric key size for the CSRs.
Legal Values	<ul style="list-style-type: none">• 1024• 2048
Default Value	1024
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Security.CsrLocalityName (Read or Write)

Description	Specifies the CSR Locality (L).
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Security.CsrOrganizationName (Read or Write)

Description	Specifies the CSR Organization Name (O).
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Security.CsrOrganizationUnit (Read or Write)


Description	Specifies the CSR Organization Unit (OU).
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Security.CsrStateName (Read or Write)

Description	Specifies the CSR State Name (S).
Legal Values	String of up to 254 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Serial

The objects in this group provide configuration parameters for the serial interface of iDRAC.

 **NOTE:** This is supported only for rack and tower systems.

iDRAC.Serial.BaudRate (Read or Write)

Description	Sets the Baud rate on the iDRAC serial port.
Legal Values	<ul style="list-style-type: none">• 9600• 19200• 38400• 57600• 115200
Default Value	115200
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Serial.Command (Read or Write)

Description	Specifies a serial command that is executed after the user logs in to the serial console interface.
Legal Values	String of up to 128 ASCII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Serial.Enable (Read or Write)

Description	Enables or disables the iDRAC serial console interface.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Serial.HistorySize (Read or Write)

Description	Specifies the maximum size of the serial history buffer.
Legal Values	Integral values from 0 to 8192.
Default Value	8192
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Serial.IdleTimeout (Read or Write)


Description	The maximum number of seconds to wait before an idle serial console session is disconnected.
Legal Values	<ul style="list-style-type: none">• 0 — No timeout• Integral values: 60–10800
Default Value	300
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Serial.NoAuth (Read or Write)

Description	Enables or disables iDRAC serial console login authentication.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.SerialRedirection

The objects in this group manage Serial Redirection properties of iDRAC.

 **NOTE:** It supports only rack and tower systems.

iDRAC.SerialRedirection.Enable (Read or Write)

Description	Enables or disables the console for COM2 port redirection.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.SerialRedirection.QuitKey (Read or Write)

Description	This key or key combination terminates the Virtual Console when using the console COM2 command.
Legal Values	String of up to 4 ASCII characters.
Default Value	^\
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.serverboot

The objects in this group manages the server boot options.

iDRAC.serverboot.BootOnce

Description	Enables or disables <code>BootOnce</code> option for the configured device.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default values	1 — Enabled
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read only if iDRAC.ServerBoot.FirstBootDevice is set to either BIOS (BIOS Setup), F10 (Lifecycle Controller), or F11 (BIOS Boot Manager).

iDRAC.serverboot.FirstBootDevice

Description	Configures the first boot device.
Legal Values	<ul style="list-style-type: none">• Normal• PXE• HDD (Hard Disk Drive)• CD-DVD (Local CD/DVD)• BIOS (BIOS Setup)• vFDD (Virtual Floppy)• VCD-DVD (Virtual CD/DVD/ISO)• FDD (Local Floppy/Primary Removable Media)• SD (Local SD Card)• F10 (Lifecycle Controller)• F11 (BIOS Boot Manager)• Attached vFlash Partition Label
Default value	Normal
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.ServiceModule

The objects in this group manages the properties of the ISM modules.

iDRAC.ServiceModule.LCLReplication (Read or Write)

Description	Enables Lifecycle log in operating system log Baud rate on the iDRAC serial port.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	If OpenManage Server Administrator is available, then the attribute is automatically set to 'Disabled'.

iDRAC.ServiceModule.OSInfo (Read or Write)

Description	Provides information about operating system through iDRAC Service Module.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled

- 1 — Enabled

Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.ServiceModule.ServiceModuleEnable (Read or Write)

Description	Disables the Service Module process on host operating system.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.ServiceModule.ServiceModuleState (Read or Write)

Description	Indicates the status of Service Module process on the host operating system.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.ServiceModule.ServiceModuleVersion (Read)

Description	Displays the installed version of iDRAC Service Module.
Legal Values	None
Default Value	None
Write Privilege	
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.ServiceModule.WatchdogRecoveryAction (Read and Write)

Description	Configures recovery action on watchdog alert.
Legal Values	<ul style="list-style-type: none">• 0 — None• 1 — Reboot• 2 — Poweroff• 3 — Powercycle
Default Value	0 — None
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	If the iDRAC.ServiceModule.WatchdogState object is 'Disabled', then the value cannot be set.

iDRAC.ServiceModule.WatchdogResetTime (Read and Write)

Description	Configures the system reset time (unit in seconds) on watchdog alert.
Legal Values	Values in range 60–720
Default Value	480
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	If the iDRAC.ServiceModule.WatchdogState object is 'Disabled', then the value cannot be set.

iDRAC.ServiceModule.WatchdogState (Read and Write)

Description	Enables or disables the watchdog timer through iDRAC Service Module.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	The value is disabled if OpenManage Server Administrator is detected or operating system Watchdog is enabled.

iDRAC.SmartCard

The objects in this group enable you to access iDRAC using a smart card.

iDRAC.SmartCard.SmartCardCRLEnable (Read or Write)

Description	Enables or disables the Certificate Revocation List (CRL).
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	To log on, enable Smart Card.

iDRAC.SmartCard.SmartCardLogonEnable (Read or Write)

Description	Enables or disables Smart card login support.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled• 2 — Enabled with Remote RACADM
Write Privilege	Configure iDRAC and Configure User
License Required	iDRAC7 Enterprise
Dependency	Disable <code>ActiveDirectory.SSOEnable</code>

iDRAC.SNMP

The objects in this group enable you to configure the SNMP agent and trap capabilities.

iDRAC.SNMP.AgentCommunity (Read or Write)

Description	Specifies the SNMP community name for SNMP traps.
Legal Values	String of up to 31 ACSII characters
Default value	Public
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.SNMP.AgentEnable (Read or Write)

Description	Enables or disables the SNMP Agent on the iDRAC.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.SNMP.AlertPort (Read or Write)

Description	Specifies the SNMP alert port for traps.
Legal Values	Integral values: 1–65535
Default Value	162
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express
Dependency	None

iDRAC.SNMP.DiscoveryPort (Read or Write)

Description	Specifies the SNMP agent port on iDRAC.
Legal Values	Integral values: 1–65535
Default Value	161
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express
Dependency	None

iDRAC.SNMP.SNMPProtocol (Read or Write)

Description	Specifies the SNMP protocol.
Legal Values	<ul style="list-style-type: none">• 0 — All• 1 — SNMPv3
Default Value	0 — All
Write Privilege	Configure iDRAC

License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.SNMP.TrapFormat (Read or Write)

Description	Specifies the SNMP format.
Legal Values	<ul style="list-style-type: none"> • 0 — SNMPv1 • 1 — SNMPv2
Default Value	0 — SNMPv1
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.SNMP.Alert

The objects in this group configures the SNMP alert settings.
This group is indexed from 1 to 8.

iDRAC.SNMP.Alert.DestAddr (Read or Write)

Description	IPv4, IPv6 or FQDN address of the target destination to receive alters.
Legal Values	Valid IPv4 or IPv6 or FQDN address
Default Value	<ul style="list-style-type: none"> • Index 1–4 — 0.0.0.0 • Index 5–8 — ::
Write Privilege	Configure iDRAC
License Required	None
Dependency	None

iDRAC.SNMP.Alert.Enable (Read or Write)

Description	Enables or disables SNMP alert for the given index.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Write Privilege	Configure iDRAC

License Required	None
Dependency	None

iDRAC.SSH

The objects in this group provide configuration parameters for the SSH interface to iDRAC.

iDRAC.SSH.Enable (Read or Write)

Description	Enables or disables SSH.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.SSH.Port (Read or Write)

Description	Specifies the port number for the iDRAC SSH interface.
Legal Values	Integral values: 10–65535
Default Value	22
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.SSH.Timeout (Read or Write)

Description	Defines the secure shell idle timeout.
Legal Values	Integral values: 0–10800
Default Value	1800
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.SysLog

The objects in this group provide the properties for configuration of the SMTP server.

iDRAC.SysLog.Port (Read or Write)

Description	Remote syslog port number.
Legal Values	Integral values: 1–65535
Default Value	514
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.SysLog.PowerLogEnable (Read or Write)

Description	Enables or disables the Power Log feature.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.SysLog.PowerLogInterval (Read or Write)

Description	Configure time delay for power logging.
Legal Values	Integral values: 1–1440
Default Value	5
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.SysLog.Server1 (Read or Write)

Description	Name of remote syslog server 1.
Legal Values	String of up to 63 ACSII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.SysLog.Server2 (Read or Write)

Description	Name of remote syslog server 2.
Legal Values	String of up to 63 ACSII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.SysLog.Server3 (Read or Write)

Description	Name of remote syslog server 3.
Legal Values	String of up to 63 ACSII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.SysLog.SysLogEnable (Read or Write)

Description	Enables or disables remote syslog.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.Telnet

The objects in this group provide configuration parameters for the Telnet interface to iDRAC.

iDRAC.Telnet.Enable (Read or Write)

Description	Enables or disables Telnet.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Telnet.Port (Read or Write)

Description	Specifies the port number for the iDRAC Telnet interface.
Legal Values	Integral values: 10–65535
Default Value	23
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Telnet.Timeout (Read or Write)

Description	Defines the Telnet idle timeout.
Legal Values	Integral values: 0–10800
Default Value	1800
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Time

The objects in this group enable you to manage timezone setting for iDRAC.

iDRAC.Time.Timezone (Read or Write)

Description	Configure the time zone.
Legal Values	Valid time zone string of up to 32 ASCII characters For example: US/Central
Default Value	CST6CDT
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Tuning

The objects in this group enable you to manage iDRAC tuning and configuration parameters.

iDRAC.Tuning.DefaultCredentialWarning (Read or Write)

Description	Enables or disables the default credentials warning.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Update

The objects in this group enable you to manage configuration parameters for iDRAC firmware update.

iDRAC.Update.FwUpdateIPAddr (Read or Write)

Description	Specifies the TFTP server address to be used for iDRAC firmware update operations.
Legal Values	Valid IPv4, IPv6, or FQDN address of the TFTP server
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Update.FwUpdatePath (Read or Write)

Description	Specifies TFTP path where iDRAC firmware image resides on TFTP server. Path is relative to TFTP root folder.
Legal Values	String of up to 255 ACSII characters. For example: /images/12G/
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Update.FwUpdateTFTPEnable (Read or Write)

Description	Enables or disables iDRAC firmware updates from a TFTP server.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.UserDomain

The objects in this group enable you to manage the Active Directory user domain names. This group is indexed from 1 to 40.

iDRAC.UserDomain.Name (Read or Write)

Description	Specifies the Active Directory user domain name for a given index.
Legal Values	String of up to 255 ACSII characters
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Users

The objects in this group enable you to manage information about all iDRAC users. This group is indexed from 1 to 16.

iDRAC.Users.Enable (Read or Write)

Description	Enables or disables an individual user.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	0 — Disabled. However, <code>Root user</code> is Enabled.
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Both username and password must be configured prior to enabling the user.

iDRAC.Users.IpmiLanPrivilege (Read or Write)

Description	Specifies the maximum privilege on the IPMI LAN channel.
Legal Values	Integral values: <ul style="list-style-type: none">• 2 — User• 3 — Operator• 4 — Administrator• 15 — No access
Default Value	15 — No access
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Both user name and password must be configured prior to setting this object.

iDRAC.Users.IpmiSerialPrivilege (Read or Write)

Description	Specifies the maximum IPMI Serial privilege.
Legal Values	Integral values: <ul style="list-style-type: none">• 2 — User• 3 — Operator• 4 — Administrator• 15 — No access
Default Value	15 — No access
Write Privilege	Configure iDRAC and user
License Required	iDRAC7 Express or iDRAC7 Enterprise

Dependency Both username and password must be configured prior to setting this object.

iDRAC.Users.Password (Write Only)

Description Configuring the iDRAC user password.

Legal Values String of up to 254 characters

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Cannot be set without first setting the user name.

iDRAC.Users.Privilege (Read or Write)

Description Specifies the role-based authority privileges allowed for the user.

Legal Values Integral values: 0–511 (0x1FF)

Default Value 0

Write Privilege Configure iDRAC and Configure User

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Both user name and password must be configured prior to setting this object.

iDRAC.Users.SNMPv3AuthenticationType (Read or Write)

Description Configure SNMPv3 authentication protocol type.

Legal Values

- 0 — None
- 1 — MD5
- 2 — SHA

Default Value 2 — SHA

Write Privilege Configure iDRAC and Configure User

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

iDRAC.Users.SNMPv3Enable (Read or Write)

Description Enables or disables SNMPv3 support for an iDRAC User.

Legal Values

- 0 — Disabled
- 1 — Enabled

Default Value	0 — Disabled
Write Privilege	Configure iDRAC and Configure User
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Users.SNMPv3PrivacyType (Read or Write)

Description	Configure SNMPv3 privacy protocol type.
Legal Values	<ul style="list-style-type: none"> • 0 — None • 1 — DES • 2 — AES
Default Value	2 — AES
Write Privilege	Configure iDRAC and Configure User
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Users.SolEnable (Read or Write)

Description	Enables or Disables SOL for the user.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Configure iDRAC and Configure User
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Both username and password must be configured prior to sets.

iDRAC.Users.UserName (Read or Write)

Description	iDRAC User Name.
Legal Values	String of up to 16 ASCII characters
Write Privilege	Configure iDRAC and Configure User
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.vflashpartition

The objects in this group manage vFlash SD partitions on iDRAC.

This group supports the following objects. Up to 16 partitions are supported, indexed from 1 to 16.

iDRAC.vflashpartition.AccessType (Read or Write)

Description	Specifies if the access type of the vFlash SD partition is Read-Only or Read-Write.
Legal Values	<ul style="list-style-type: none">• 1 — Read Only• 0 — Read Write
Default value	1 — Read Only
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled. Partition at the specified index must be created.

iDRAC.vflashpartition.AttachState (Read or Write)

Description	Specifies if the vFlash SD partition is attached or detached.
Legal Values	<ul style="list-style-type: none">• 1 — Attached• 0 — Detached
Default value	0 — Detached
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled. Partition at the specified index must be created.

iDRAC.vflashpartition.EmulationType (Read or Write)

Description	Specifies the emulation type of the vFlash SD partition.
Legal Values	<ul style="list-style-type: none">• HDD• FLOPPY• CD-DVD
Default value	None
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled. Partition at the specified index must be created.

iDRAC.vflashpartition.FormatType (Read Only)

Description	Specifies the file system format type of the vFlash SD partition.
Legal Values	<ul style="list-style-type: none">• FAT16• FAT32• EXT2• EXT3• RAW
Default value	None
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled. Partition at the specified index must be created.

iDRAC.vflashpartition.Size (Read Only)

Description	Specifies the Size of the vFlash SD partition.
Legal Values	Integer value in MB
Default value	None
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled. Partition at the specified index must be created.

iDRAC.vflashpartition.VolumeLabel (Read Only)

Description	Specifies the label assigned to the partition during the vFlash SD partition creation.
Legal Values	String of up to six characters.
Default value	None
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled. Partition at the specified index must be created.

iDRAC.vflashsd

The objects in this group manage vFlash SD properties on iDRAC.

iDRAC.vflashsd.AvailableSize (Read Only)

Description	Displays the available memory (in MB) on the vFlash SD card that is used to create new partitions.
Legal Values	Integer value in MB.
Default value	If the card is not initialized, then the default value is 0. If initialized, then it displays the unused memory on the card.
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled.

iDRAC.vflashsd.Enable (Read or Write)

Description	Enables or disables the vFlash SD card on iDRAC.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default value	0 — Disabled
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled.

iDRAC.vflashsd.Health (Read Only)

Description	Specifies current health status of the vFlash SD Card.
Legal Values	<ul style="list-style-type: none">• OK• Warning• Critical• Unknown
Default value	OK
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled.

iDRAC.vflashsd.Initialized (Read Only)

Description	Specifies if the vFlash SD card is initialized or not.
Legal Values	<ul style="list-style-type: none">• 0 — Not Initialized

- 1 — Initialized

Default value	None
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled.

iDRAC.vflashsd.Licensed (Read Only)

Description	Specifies if the SD card or vFlash SD card is inserted or not.
Legal Values	<ul style="list-style-type: none"> • 0 — Not Licensed • 1 — Licensed
Default value	None
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled.

iDRAC.vflashsd.Size (Read Only)

Description	Specifies the remaining size of the vFlash SD card for usage.
Legal Values	Integer value in MB.
Default value	None
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled.

iDRAC.vflashsd.WriteProtect (Read Only)

Description	Displays if the physical write protect is enabled or disabled on the vFlash SD card.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default value	None
Write Privilege	Login and configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	vFlash SD card must be enabled.

iDRAC.VirtualConsole

The objects in this group enable you to manage virtual console configuration parameters of iDRAC.

iDRAC.VirtualConsole.AccessPrivilege (Read or Write)

Description	Default action upon session sharing request timeout.
Legal Values	<ul style="list-style-type: none">• 0 — Deny Access• 1 — Read Only Access• 2 — Full Access
Default Value	0 — Deny Access
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express (For Blades) or iDRAC7 Enterprise
Dependency	None

iDRAC.VirtualConsole.Enable (Read or Write)

Description	Enables or disables the Virtual Console.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express (For Blades) or iDRAC7 Enterprise
Dependency	None

iDRAC.VirtualConsole.EncryptEnable (Read or Write)

Description	Encrypts the video in a Virtual Console session.
Legal Values	<ul style="list-style-type: none">• None• AES
Default Value	AES
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express (For Blades) or iDRAC7 Enterprise
Dependency	None

iDRAC.VirtualConsole.LocalVideo (Read or Write)

Description	Enables or disables the local server video.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express (For Blades) or iDRAC7 Enterprise
Dependency	None

iDRAC.VirtualConsole.MaxSessions (Read or Write)

Description	Specifies maximum number of virtual console sessions.
Legal Values	Integral values: 1–4
Default Value	4
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express (For Blades) or iDRAC7 Enterprise
Dependency	None

iDRAC.VirtualConsole.PluginType (Read or Write)

Description	To use virtual console, when running from the browser specify the plugin type.
Legal Values	<ul style="list-style-type: none">• 0 — Active X• 1 — Java
Default Value	0 — Active X
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express (For Blades) or iDRAC7 Enterprise
Dependency	None

iDRAC.VirtualConsole.Port (Read or Write)

Description	Specifies the virtual KVM port.
Legal Values	Integral values: 10–65535
Default Value	5900

Write Privilege	Configure iDRAC
License Required	iDRAC7 Express (For Blades) or iDRAC7 Enterprise
Dependency	None

iDRAC.VirtualConsole.Timeout (Read or Write)

Description	Defines the idle timeout in seconds for the virtual console.
Legal Values	Integral values: 60–10800
Default Value	1800
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express (For Blades) or iDRAC7 Enterprise
Dependency	None

iDRAC.VirtualMedia

The objects in this group enable you to manage virtual media configuration parameters of iDRAC.

iDRAC.VirtualMedia.Attached (Read or Write)

Description	Used to attach virtual devices to the system using the USB bus.
Legal Values	<ul style="list-style-type: none"> • 0 — Detached • 1 — Attached • 2 — AutoAttach
Default Value	2 — AutoAttach
Write Privilege	Virtual Media
License Required	iDRAC7 Express (For Blades) or iDRAC7 Enterprise
Dependency	None

iDRAC.VirtualMedia.BootOnce (Read or Write)

Description	Enables or disables the virtual media boot once feature of the iDRAC.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default Value	0 — Disabled
Write Privilege	Virtual Media

License Required	iDRAC7 Express (For Blades) or iDRAC7 Enterprise
Dependency	None

iDRAC.VirtualMedia.FloppyEmulation (Read or Write)

Description	Enables or disables floppy emulation of the attached virtual media.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default value	0 — Disabled
Write Privilege	Virtual Media
License Required	iDRAC7 Express (For Blades) or iDRAC7 Enterprise
Dependency	None

iDRAC.VNCServer

The objects in this group manages configuration of the VNC Server on iDRAC.

iDRAC.VNCServer.Enable (Read or Write)

Description	Enables or disables VNC server on iDRAC.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — Enabled
Default value	0 — Disabled
Write Privilege	Login or configure iDRAC
License Required	iDRAC7 Enterprise
Dependency	None

iDRAC.VNCServer.LowerEncryptionBitLength (Read or Write)

Description	Lower encryption bit length.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled (Auto Negotiate) • 1 — Enabled (128-Bit or Higher)
Default Value	0 — Disabled (Auto Negotiate)
Write Privilege	Login or configure iDRAC
License Required	iDRAC7 Enterprise

Dependency None

iDRAC.VNCServer.Password (Read or Write)

Description Password for logging into VNC session.

Legal Values String of up to 8 characters

Default Value None

Write Privilege Login or configure iDRAC

License Required iDRAC7 Enterprise

Dependency None

iDRAC.VNCServer.Port (Read or Write)

Description Port number for VNC session

Legal Values Integer values from 1024 to 65535

Default Value 5901

Write Privilege Login or configure iDRAC

License Required iDRAC7 Enterprise

Dependency None

iDRAC.VNCServer.Timeout (Read or Write)

Description VNC server idle timeout period in seconds.

Legal Values Integer values from 60 to 10800

Default Value 300

Write Privilege Login or configure iDRAC

License Required iDRAC7 Enterprise

Dependency None

iDRAC.WebServer

The objects in this group provide configuration parameters for iDRACs' Webserver.

iDRAC.WebServer.Enable (Read or Write)

Description Enables or disables iDRAC WebServer.

Legal Values

- 0 — Disabled
- 1 — Enabled

Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.WebServer.HttpPort (Read or Write)

Description	Specifies the port number for HTTP communication with the iDRAC.
Legal Values	Integral values: 10–65535
Default Value	80
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.WebServer.HttpsPort (Read or Write)

Description	Specifies the port number for HTTPs communication with the iDRAC.
Legal Values	Integral values: 1–65535
Default Value	443
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.Webserver.Httpsredirection (Read or Write)

Description	Enables or disables redirection from the http port (default — 80) to https (default — 443).
Legal Values	<ul style="list-style-type: none"> • 1 — Enabled • 0 — Disabled
Default Value	1 — Enabled
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.WebServer.LowerEncryptionBitLength (Read or Write)

Description	Lower Encryption Bit Length.
Legal Values	<ul style="list-style-type: none">• 0 — Disabled (Auto Negotiate)• 1 — Enabled (12 Bit or Higher)
Default Value	1 — Enabled (128 Bit or Higher)
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

iDRAC.WebServer.Timeout (Read or Write)

Description	Defines the webserver timeout.
Legal Values	Integral values: 60–10800
Default Value	1800
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.BiosBootSettings

You can manage the BIOS start settings using the objects in this group.

BIOS.BiosBootSettings.BootSeq (Read or Write)

Description	Determines the Bios start sequence of the system.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if BootMode is set to UEFI

BIOS.BiosBootSettings.BootMode (Read or Write)

Description	Determines the start mode of the system.
Legal Values	BIOS UEFI

Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.BiosBootSettings.BootSeqRetry (Read or Write)

Description	Enables or disables the boot sequence retry feature.
Legal Values	Enabled Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.BiosBootSettings.HddSeq (Read or Write)

Description	HDD boot sequence
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if Boot mode is set to UEFI

BIOS.BiosBootSettings.UefiBootSeq (Read or Write)

Description	UEFI boot sequence
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if Boot mode is set to BIOS

BIOS.IntegratedDevices

You can use the objects in this group to manage the integrated devices such as internal NIC and integrated USB.

BIOS.IntegratedDevices.EmbNic1 (Read or Write)

Description	Enables or disables the operating system interface of the embedded NIC1.
Legal Values	<ul style="list-style-type: none"> • Enabled • EnabledPxe

- EnablediScsi
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.IntegratedDevices.EmbNic1Nic2 (Read or Write)

Description Enables or disables the operating system interface of the embedded NIC1 and NIC2 controllers.

Legal Values

- Enabled
- Disabled OS
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.IntegratedDevices.EmbNic2 (Read or Write)

Description Enables or disables the operating system interface of the embedded NIC2.

Legal Values

- Enabled
- EnabledPxe
- EnablediScsi
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.IntegratedDevices.EmbNic3 (Read or Write)

Description Enables or disables the operating system interface of the embedded NIC3.

Legal Values

- Enabled
- EnabledPxe
- EnablediScsi
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.IntegratedDevices.EmbNic3Nic4 (Read or Write)

Description Enables or disables the operating system interface of the embedded NIC3 and NIC4 controllers.

Legal Values

- Enabled
- Disabled OS
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.IntegratedDevices.EmbNic4 (Read or Write)

Description Enables or disables the operating system interface of the embedded NIC4.

Legal Values

- Enabled
- EnabledPxe
- EnablediScsi
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.IntegratedDevices.EmbVideo (Read or Write)

Description Enables or disables the BIOS support for the embedded video controller.

Legal Values

- Enabled
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.IntegratedDevices.IntegratedNetwork1 (Read or Write)

Description	Enables or disables the Integrated Network Card 1.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled OS
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.IntegratedDevices.IntegratedNetwork2 (Read or Write)

Description	Enables or disables the integrated network card 2.
Legal Values	<ul style="list-style-type: none">• Enabled• DisabledOS
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.IntegratedDevices.IntegratedRaid (Read or Write)

Description	Enables or disables the integrated RAID controller.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.IntegratedDevices.IntegratedSas (Read or Write)

Description	Enables or disables the integrated SAS controller.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.IntegratedDevices.InternalSdCard (Read or Write)

Description Enables or disables the internal SD Card port.

Legal Values

- On
- Off

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.IntegratedDevices.InternalSdCardRedundancy (Read or Write)

Description Sets the SD Card redundancy mode.

Legal Values

- Mirror
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Read Only if 'InternalSdCard' is set to 'Off'.

BIOS.IntegratedDevices.InternalUsb (Read or Write)

Description Enables or disables the internal USB port.

Legal Values

- On
- Off

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.IntegratedDevices.InternalUsb1 (Read or Write)

Description Enables or disables the internal USB port 1.

Legal Values

- On
- Off

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.IntegratedDevices.InternalUsb2 (Read or Write)

Description Enables or disables the internal USB port 2.
Legal Values

- On
- Off

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.IntegratedDevices.IoatEngine (Read/Write)

Description Enables or disables the I/O Acceleration technology (I/OAT) option.
Legal Values

- Enabled
- Disabled

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.IntegratedDevices.MmioAbove4GB (Read/Write)

Description Enables or disables support for PCIe devices that require large amount of memory. Enable this option only for 64-bit operating systems.
Legal Values

- Enabled
- Disabled

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.IntegratedDevices.OsWatchdogTimer (Read or Write)

Description Enables or disables timer initialization by the operating system.
Legal Values

- Enabled
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.IntegratedDevices.SriovGlobalEnable (Read or Write)

Description Enables or disables BIOS configuration of Single Root I/O Virtualization (SR-IOV) devices.
Legal Values

- Enabled
- Disabled

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.IntegratedDevices.UsbPorts (Read or Write)

Description Sets the user accessible USB ports.
Legal Values

- All on
- Only back ports on
- All off

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.MemSettings

To manage memory-related configuration settings, use the objects in this group.

BIOS.MemSettings.MemLowPower (Read or Write)

Description Enables or disables the low-power mode of the memory.
Legal Values

- Enabled
- Disabled

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.MemSettings.MemOpMode (Read Only)

Description	Current memory operating mode.
Legal Values	<ul style="list-style-type: none">• OptimizerMode• SpareMode• MirrorMode• AdvEccMode• SpareWithAdvEccMode
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MemSettings.MemOptimizer (Read or Write)

Description	Configure the memory optimizer setting.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MemSettings.MemOpVoltage (Read Only)

Description	Operating voltage of memory.
Legal Values	<ul style="list-style-type: none">• AutoVolt• Volt15V
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MemSettings.MemTest (Read or Write)

Description	Specifies whether BIOS software-based system memory tests are conducted during POST.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.MemSettings.NodeInterleave (Read or Write)

Description If the system is configured with matching memory this field enables node interleaving.

Legal Values

- Enabled
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.MemSettings.RedundantMem (Read or Write)

Description Enables or disables the redundant memory feature.

Legal Values

- Disabled
- Spare
- Mirror
- IntraNodeMirror
- DimmSpare
- Dddc

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.MemSettings.RedundantMemCfgValid (Read Only)

Description Redundant Memory Configuration Valid

Legal Values

- Invalid
- Valid

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.MemSettings.RedundantMemInUse (Read Only)

Description	Display the current redundant memory setting in BIOS.
Legal Values	<ul style="list-style-type: none">• NotInUse• InUse
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MemSettings.Serialdbgout (Read or Write)

Description	Enables or disables the Serial Debug Out option.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MemSettings.SnoopFilter (Read or Write)

Description	Enables or disables the snoop filter option.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MemSettings.SysMemSize (Read Only)

Description	Indicates the current amount of main memory in the system.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MemSettings.SysMemSpeed (Read Only)

Description	Indicates the current clock frequency of the main memory.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MemSettings.SysMemType (Read Only)

Description	Indicates the current type of main memory installed in the system.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MemSettings.SysMemVolt (Read Only)

Description	Displays the current operating voltage of main memory.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MemSettings.VideoMem (Read Only)

Description	Indicates the total amount of video memory available to the embedded video controller.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MiscSettings

To manage the miscellaneous objects settings, use the object in this group.

BIOS.MiscSettings.AssetTag (Read or Write)

Description	Displays the current asset tag and the asset tag can be modified.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MiscSettings.ErrPrompt (Read or Write)

Description	Enables or disables the F1 and F2 prompt on error.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MiscSettings.InSystemCharacterization (Read/Write)

Description	The ratio of power and performance of the system is optimized when enabled.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MiscSettings.NumLock (Read or Write)

Description	Enable or disable the system boots with Num locks, not applicable for 84-key keyboards
Legal Values	<ul style="list-style-type: none">• On• Off
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MiscSettings.ReportKbdErr (Read or Write)

Description	Enables or disables the keyboard-related error messages to be reported at system startup.
Legal Values	<ul style="list-style-type: none">• Report• No report
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.MiscSettings.SystemUefiShell (Read or Write)

Description	Enables or disables the System UEFI Shell as a UEFI boot option choice.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.OneTimeBoot

You can manage the one time boot settings using the objects in this group.

BIOS.OneTimeBoot.OneTimeBootMode (Read or Write)

Description	Configure the one time boot mode setting.
Legal Values	<ul style="list-style-type: none">• Disabled• OneTimeBootSeq• OneTimeHddSeq• OneTimeUefiBootSeq
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.OneTimeBoot.OneTimeBootSeqDev (Read or Write)

Description	Configure the one time boot sequence device in BIOS.
Legal Values	Hard Disk List

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency Read Only if OneTimeBootMode is not set to OneTimeBootSeq.

BIOS.OneTimeBoot.OneTimeCustomBootStr (Read or Write)

Description Configure the one time custom boot device.
Legal Values Custom device list
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency Read Only if OneTimeBootMode is set to Disabled or set to OneTimeBootSeq, OneTimeHddSeq, or OneTimeUefiBootSeq

BIOS.OneTimeBoot.OneTimeHddSeqDev (Read or Write)

Description Configure the one time Hard Disk Drive (HDD) sequence for BIOS.
Legal Values RAID FQDD
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency Read Only if OneTimeBootMode is not set to OneTimeHddSeq

BIOS.OneTimeBoot.OneTimeUefiBootSeqDev (Read or Write)

Description Configure the one time UEFI Boot Sequence device.
Legal Values NIC or Optical Device list
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency Read Only if OneTimeBootMode is not set to OneTimeUefiBootSeq

BIOS.ProcSettings

To configure the processor settings, use the objects in this group.

BIOS.ProcSettings.CorePerfBoost (Read or Write)

Description Enables or disables CPU core performance booster.
Legal Values

- Enabled
- Disabled

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.DataReuse (Read or Write)

Description Enables or disables data reuse in cache.
Legal Values

- Enabled
- Disabled

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.DcuiPrefetcher (Read or Write)

Description Enables or disables Data Cache Unit (DCU) IP Prefetcher.
Legal Values

- Enabled
- Disabled

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.DcuStreamerPrefetcher (Read or Write)

Description Enables or disables Data Cache Unit (DCU) Streamer Prefetcher.
Legal Values

- Enabled
- Disabled

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.DmaVirtualization (Read or Write)

Description Enables or disables hardware capabilities for DMA remapping and virtualization are available.
Legal Values

- Enabled
- Disabled

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.LogicalProc (Read or Write)

Description To enable report all logical processors and to disable report one logical processor per core.
Legal Values

- Enabled
- Disabled

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc1Brand (Read Only)

Description Provides the processor brand name.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc1Id (Read Only)

Description Provides the processor's family model and stepping values.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc1L2Cache (Read Only)

Description Amount of memory in the corresponding processor cache.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc1L3Cache (Read Only)

Description	Amount of memory in the corresponding processor cache.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.Proc1NumCores (Read Only)

Description	Number of cores in the processor package.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.Proc2Brand (Read Only)

Description	Provides the processor brand name.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.Proc2Id (Read Only)

Description	Processor's family model and stepping values.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.Proc2L2Cache (Read Only)

Description	AmountBIOS.ProcSettings.Proc2L2Cache (Read Only) of memory in the corresponding processor cache.
Legal Values	None

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc2L3Cache (Read Only)

Description Amount of memory in the corresponding processor cache.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc2NumCores (Read Only)

Description Number of cores in the processor package.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc3Brand (Read Only)

Description Brand text provided by the processor manufacturer.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc3Id (Read Only)

Description Processor's family model and stepping values.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc3L2Cache (Read Only)

Description	Amount of memory in the corresponding processor cache.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.Proc3L3Cache (Read Only)

Description	Amount of memory in the corresponding processor cache.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.Proc3NumCores (Read Only)

Description	Number of cores in the processor package.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.Proc4Brand (Read Only)

Description	The processor manufacturer provides brand text
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.Proc4Id (Read Only)

Description	Processor's family model and stepping values.
Legal Values	None
Write Privilege	Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc4L2Cache (Read Only)

Description Amount of memory in the corresponding processor cache.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc4L3Cache (Read Only)

Description Amount of memory in the corresponding processor cache.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc4NumCores (Read Only)

Description Number of cores in the processor package.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.Proc64bit (Read Only)

Description Specifies whether the installed processors support 64-bit extensions.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.ProcAdjCacheLine (Read or Write)

Description	Enables or disables the system optimization for applications that require high utilization of sequential memory access.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.ProcBusSpeed (Read Only)

Description	Bus speed of the processor.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.ProcCores (Read or Write)

Description	Controls the number of enabled cores in each processor.
Legal Values	<ul style="list-style-type: none">• Single• All• 1• 2• 4• 6• 8• 10• 12• 14• 16
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.ProcCoreSpeed (Read Only)

Description	Clock speed of the processor.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.ProcDramPrefetcher (Read or Write)

Description	Enable to turn on the DRAM prefetch unit in the Northbridge. Disable to prevent DRAM references from triggering DRAM prefetch requests.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.ProcExecuteDisable (Read or Write)

Description	Specifies whether Execute Disable Memory Protection Technology is enabled or disabled.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.ProcHpcMode (Read or Write)

Description	Configure processor's HPC mode.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.ProcHtAssist (Read or Write)

Description	When enabled it provides filtering of broadcast probes to improve HyperTransport I/O Link bandwidth and performance on multi-node systems.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.ProcHwPrefetcher (Read or Write)

Description	When enabled, the processor is able to prefetch extra cache lines for every memory request.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.ProcHyperTransport (Read or Write)

Description	Specifies the supported HyperTransport I/O Link Specification.
Legal Values	<ul style="list-style-type: none">• HT1• HT3
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.ProcSettings.ProcSoftwarePrefetcher (Read or Write)

Description	Enables or disables the hardware prefetcher for considering software prefetches when detecting strides for prefetch requests.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.ProcVirtualization (Read or Write)

Description When enabled, the additional hardware capabilities provided by virtualization technology are available for use.

Legal Values

- Enabled
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.QpiBandwidthPriority (Read or Write)

Description Sets the bandwidth priority to compute (default) or I/O.

Legal Values

- InputOutput
- Compute

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.QpiSpeed (Read or Write)

Description Controls QuickPath Interconnect data rate settings.

Legal Values

- MaxDataRate
- 8 GTps
- 7 GTps
- 6 GTps

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.ProcSettings.RtidSetting (Read or Write)

Description	Allocates more RTIDs to the remote socket increasing cache performance between the sockets.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings

Use the objects in this group to configure the BIOS SATA settings.

BIOS.SataSettings.EmbSata (Read or Write)

Description	Allows the embedded SATA to be set to Off, ATA, AHCI or RAID Mode.
Legal Values	<ul style="list-style-type: none">• Off• AtaMode• RaidMode• AhciMode
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.eSataPort1 (Read or Write)

Description	Sets the drive type of the selected device.
Legal Values	<ul style="list-style-type: none">• Off• Auto
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.eSataPort1Capacity (Read Only)

Description	Displays the total capacity of a hard-disk drive.
Legal Values	None

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SataSettings.eSataPort1DriveType (Read Only)

Description Indicates type of device attached to this SATA port.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SataSettings.eSataPort1Model (Read Only)

Description Displays the drive model of the selected device.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SataSettings.SataPortA (Read or Write)

Description Sets the drive type of the selected device.
Legal Values

- Off
- Auto

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency Read Only if EmbSata is not set to `AtaMode`.

BIOS.SataSettings.SataPortACapacity (Read Only)

Description Displays the total capacity of a hard-disk drive.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SataSettings.SataPortADriveType (Read Only)

Description	Indicates type of device attached to this SATA port.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortAModel (Read Only)

Description	Displays the drive model of the selected device.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortB (Read or Write)

Description	Sets the drive type of the selected device.
Legal Values	<ul style="list-style-type: none">• Off• Auto
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if EmbSata is not set to <code>AtaMode</code> .

BIOS.SataSettings.SataPortBCapacity (Read Only)

Description	Displays the total capacity of a hard-disk drive.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortBDriveType (Read Only)

Description	Indicates type of device attached to this SATA port.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortBModel (Read Only)

Description	Displays the drive model of the selected device.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortC (Read or Write)

Description	Sets the drive type of the selected device.
Legal Values	<ul style="list-style-type: none">• Off• Auto
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if EmbSata is not set to <code>AtaMode</code> .

BIOS.SataSettings.SataPortCCapacity (Read Only)

Description	Displays the total capacity of a hard-disk drive.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortCDriveType (Read Only)

Description	Indicates type of device attached to this SATA port.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortCModel (Read Only)

Description	Displays the drive model of the selected device.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortD (Read or Write)

Description	Sets the drive type of the selected device.
Legal Values	<ul style="list-style-type: none">• Off• Auto
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if EmbSata is not set to <code>AtaMode</code> .

BIOS.SataSettings.SataPortDCapacity (Read Only)

Description	Displays the total capacity of a hard-disk drive.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortDDriveType (Read Only)

Description	Indicates type of device attached to this SATA port.
Legal Values	None

Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortDDriveType (Read Only)

Description	Indicates type of device attached to this SATA port.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortDModel (Read Only)

Description	Displays the drive model of the selected device.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortE (Read or Write)

Description	Sets the drive type of the selected device.
Legal Values	<ul style="list-style-type: none"> • Off • Auto
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if EmbSata is not set to <code>AtaMode</code> .

BIOS.SataSettings.SataPortECapacity (Read Only)

Description	Displays the total capacity of a hard-disk drive.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortEDriveType (Read Only)

Description	Indicates type of device attached to this SATA port.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortEModel (Read Only)

Description	Displays the drive model of the selected device.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortF (Read or Write)

Description	Sets the drive type of the selected device.
Legal Values	<ul style="list-style-type: none">• Off• Auto
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if EmbSata is not set to <code>AtaMode</code> .

BIOS.SataSettings.SataPortFCapacity (Read Only)

Description	Displays the total capacity of a hard-disk drive.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SataSettings.SataPortFDriveType (Read Only)

Description	Indicates type of device attached to this SATA port.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.SataSettings.SataPortFModel (Read Only)

Description Displays the drive model of the selected device.

Legal Values None

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.SataSettings.SataPortG (Read or Write)

Description Sets the drive type of the selected device.

Legal Values

- Off
- Auto

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Read Only if EmbSata is not set to `AtaMode`.

BIOS.SataSettings.SataPortGCapacity (Read Only)

Description Displays the total capacity of a hard-disk drive.

Legal Values None

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.SataSettings.SataPortGDriveType (Read Only)

Description Indicates type of device attached to this SATA port.

Legal Values None

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.SataSettings.SataPortGModel (Read Only)

Description Displays the drive model of the selected device.

Legal Values None

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SataSettings.SataPortH (Read or Write)

Description Sets the drive type of the selected device.
Legal Values

- Off
- Auto

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency Read Only if EmbSata is not set to AtaMode.

BIOS.SataSettings.SataPortHCapacity (Read Only)

Description Displays the total capacity of a hard disk drive.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SataSettings.SataPortHDriveType (Read Only)

Description Indicates type of device attached to this SATA port.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SataSettings.SataPortHModel (Read Only)

Description Displays the drive model of the selected device.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SerialCommSettings

To manage the serial port settings, use the objects in the group.

BIOS.SerialCommSettings.ConTermType (Read or Write)

Description Configures the remote console's terminal type.

Legal Values

- Vt100Vt220
- Ansi

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.SerialCommSettings.ExtSerialConnector (Read or Write)

Description Associate the External Serial Connector to Serial 1 or Serial 2 or Remote Access Device.

Legal Values

- Serial1
- Serial2
- RemoteAccDevice

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.SerialCommSettings.FailSafeBaud (Read or Write)

Description BIOS attempts to determine the baud rate automatically. This fail-safe baud rate is used only if the attempt is unsuccessful.

Legal Values

- 115200
- 57600
- 19200
- 9600

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.SerialCommSettings.RedirAfterBoot (Read or Write)

Description	Enables or disables the BIOS console redirection when the operating system is loaded.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SerialCommSettings.SerialComm (Read or Write)

Description	Controls the serial communication options.
Legal Values	<ul style="list-style-type: none">• Off• OnNoConRedir• OnConRedirCom1• OnConRedirCom2• OnConRedir
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SerialCommSettings.SerialPortAddress (Read or Write)

Description	Port address for the Serial Devices. (COM1=0x3F8 COM2=0x2F8)
Legal Values	<ul style="list-style-type: none">• Serial1Com1Serial2Com2• Serial1Com2Serial2Com1• Com1• Com2
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SlotDisablement

To manage the slot disablement settings, use the objects in this group.

BIOS.SlotDisablement.Slot1 (Read or Write)

Description	Control the configuration of the card installed in slot1.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled• BootDriverDisabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SlotDisablement.Slot2 (Read or Write)

Description	Control the configuration of the card installed in slot 2.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled• BootDriverDisabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SlotDisablement.Slot3 (Read or Write)

Description	Control the configuration of the card installed in slot 3.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled• BootDriverDisabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SlotDisablement.Slot4 (Read or Write)

Description	Control the configuration of the card installed in slot 4.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled• BootDriverDisabled

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SlotDisablement.Slot5 (Read or Write)

Description Control the configuration of the card installed in slot 5.
Legal Values

- Enabled
- Disabled
- BootDriverDisabled

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SlotDisablement.Slot6 (Read or Write)

Description Control the configuration of the card installed in slot 6.
Legal Values

- Enabled
- Disabled
- BootDriverDisabled

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SlotDisablement.Slot7 (Read or Write)

Description Control the configuration of the card installed in slot 7.
Legal Values

- Enabled
- Disabled
- BootDriverDisabled

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SysInformation

To view information about system configuration, use the objects in this group.

BIOS.SysInformation.SysMfrContactInfo (Read Only)

Description	Provides information about the Original Equipment Manufacturer of this system.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysInformation.SystemBiosVersion (Read Only)

Description	Provides the current revision of the system BIOS firmware.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysInformation.SystemCpldVersion (Read Only)

Description	Displays the current revision of the system CPLD firmware.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysInformation.SystemManufacturer (Read Only)

Description	Provides the name of the Original Equipment Manufacturer of this system.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysInformation.SystemModelName (Read Only)

Description	Provides the product name of the system.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysInformation.SystemServiceTag (Read Only)

Description	The Service Tag assigns the Original Equipment Manufacturer of this system.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysProfileSettings

To manage the system profile settings, use the objects in this group.

BIOS.SysProfileSettings.CollaborativeCpuPerfCtrl (Read/Write)

Description	Enables or disables the CPU power management control. When <code>ProcPwrPerf</code> is not set to <code>SysDbpm</code> in Custom mode, changing this setting does not affect system performance.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Enabled only when <code>SysProfileSettings.ProcPwrPerf</code> is set to <code>SysDbpm</code> in Custom mode.

BIOS.SysProfileSettings.MemFrequency (Read or Write)

Description	Set the speed of the system memory to maximum performance, maximum reliability or a specific speed.
Legal Values	<ul style="list-style-type: none">• MaxPerf• 1600MHz• 1333MHz• 1067MHz• 800MHz

- MaxReliability

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Read Only if `SysProfileSettings.SysProfile` is not set to Custom mode.

BIOS.SysProfileSettings.MemPatrolScrub (Read or Write)

Description Patrol scrubbing is a feature that searches the memory for errors and repairs correctable errors to prevent the accumulation of memory errors.

Legal Values

- Standard
- Extended
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Read Only if `SysProfileSettings.SysProfile` is not set to Custom mode.

BIOS.SysProfileSettings.MemPwrMgmt (Read or Write)

Description Enables or disables the memory to operate in power management mode.

Legal Values

- Enabled
- Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.SysProfileSettings.MemRefreshRate (Read or Write)

Description Frequency at which memory is normally refreshed.

Legal Values

- 1x
- 2x

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Read Only if `SysProfileSettings.SysProfile` is not set to Custom mode.

BIOS.SysProfileSettings.MemVolt (Read/Write)

Description	Sets the DIMM voltage selection.
Legal Values	<ul style="list-style-type: none">• AutoVolt• Volt135V• Volt15V
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if <code>SysProfileSettings.SysProfile</code> is set to Custom mode.

BIOS.SysProfileSettings.MonitorMwait (Read/Write)

Description	Enables or disables Monitor or Mwait instructions. When C state is enabled in Custom mode, changing this setting does not affect system performance
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Disabled only when <code>SysProfileSettings.ProcCStates</code> state is disabled in Custom mode.

BIOS.SysProfileSettings.PowerDelivery (Read or Write)

Description	Sets the power delivery mode.
Legal Values	<ul style="list-style-type: none">• MaxReliability• MinPwr
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysProfileSettings.ProcC1E (Read or Write)

Description	When enabled, the processor is allowed to switch to minimum performance state when idle.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if <code>SysProfileSettings.SysProfile</code> is not set to Custom mode.

BIOS.SysProfileSettings.ProcCStates (Read or Write)

Description	Enables or disables the processor C-States.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if <code>SysProfileSettings.SysProfile</code> is not set to Custom mode.

BIOS.SysProfileSettings.ProcPwrPerf (Read or Write)

Description	Sets CPU power management to maximum performance operating system DBPM or System DBPM (DAPC) mode.
Legal Values	<ul style="list-style-type: none">• MaxPerf• MinPwr• SysDbpm• OsDbpm
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if <code>SysProfileSettings.SysProfile</code> is not set to Custom mode.

BIOS.SysProfileSettings.ProcTurboMode (Read or Write)

Description	When enabled, the processor can operate in Turbo Boost Mode.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if <code>SysProfileSettings.SysProfile</code> is not set to Custom mode.

BIOS.SysProfileSettings.SysProfile (Read or Write)


Description	Sets the System Profile to Performance Per Watt (DAPC), Performance Per Watt (OS) Performance Dense Configuration, or Custom mode.
Legal Values	<ul style="list-style-type: none">• PerfPerWattOptimizedOs• PerfPerWattOptimizedDapc• PerfOptimized

- Custom
- DenseCfgOptimized

Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysSecurity

To manage the system security properties of the BIOS, use the objects in this group.

 **NOTE:** After modifying the IntelTxt attribute value, the pending flag is enabled for the dependent attributes such as TpmActivation, TpmClear, and TpmSecurity.

BIOS.SysSecurity.AcPwrRcvry (Read or Write)

Description	Specifies how the system responds after AC power is restored to the system. It is useful when the system is turned off with a power strip.
Legal Values	<ul style="list-style-type: none"> • On • Off • Last
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if <code>SysSecurity.AcPwrRcvry</code> is set to Off.

BIOS.SysSecurity.AcPwrRcvryDelay (Read or Write)

Description	Specifies how the system supports the staggering of power-up after AC power has been restored to the system.
Legal Values	<ul style="list-style-type: none"> • Immediate • User • Random
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysSecurity.AcPwrRcvryUserDelay (Read Only)

Description	Controls the user-defined AC Recovery Delay.
Legal Values	None

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SysSecurity.Aesni (Read or Write)

Description Displays the status of Intel(R) Processor AES-NI feature.
Legal Values

- Enabled
- Disabled

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None


BIOS.SysSecurity.BiosUpdateControl (Read or Write)

Description If this attribute is set to Unlocked, then all BIOS update is allowed. If set to Limited, then local BIOS updates from DOS or UEFI shell based flash utilities, or Lifecycle Controller user interface is disallowed.
Legal Values

- Unlocked
- Limited
- Locked

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

BIOS.SysSecurity.IntelTxt (Read or Write)

Description Enables or disables Trusted Execution technology.
 **NOTE:** When the IntelTxt value is set to 'on', then the following values are set: TpmActivation=NoChange (Pending Value=NoChange), TpmClear=No (Pending Value=No), TpmSecurity=OnPbm (Pending Value=OnPbm).

Legal Values

- On
- Off

Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency Read Only if:

- ProcSettings.ProcVirtualization is Disabled
- SysSecurity.TpmActivation is Deactivate
- SysSecurity.TpmActivation is Yes

- `SysSecurity.TpmSecurity` is not set to `OnPbm`

BIOS.SysSecurity.NmiButton (Read or Write)

Description	Enables or disables the NMI button on the front panel.
Legal Values	<ul style="list-style-type: none"> • Enabled • Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysSecurity.PasswordStatus (Read or Write)

Description	Locks the system password.
Legal Values	<ul style="list-style-type: none"> • Locked • Unlocked
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysSecurity.PwrButton (Read or Write)

Description	Enables or disables the power button on the front panel.
Legal Values	<ul style="list-style-type: none"> • Enabled • Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysSecurity.SetupPassword (Read or Write)

Description	<p>Set up the system password. Optional parameter <code>-o <string></code> is used with this object to provide old password as an authentication for changing the previously configured password to the new password.</p> <p>The password can include the following:</p> <ul style="list-style-type: none"> • Up to 32 characters including whitespace. • Contain numbers 0 through 9.
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- Only lower case alphabets are accepted.
- Special characters accepted are +, " ' _ - , . / ; : [\] , ` .

To enable password modification, **J_EN_PASSWD** must be installed.

To clear the already configured password, use the option available under F2 (system setup) during system start.

Legal Values String of up to 22 characters

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.SysSecurity.SysPassword (Read Only)

Description Provides the system password. Optional parameter `-o <string>` is used with this object to provide old password as an authentication for changing the previously configured password to the new password.

The password can include the following:

- Up to 32 characters including whitespace.
- Contain numbers 0 through 9.
- Only lower case alphabets are accepted.
- Special characters accepted are +, " ' _ - , . / ; : [\] , ` .

To enable password modification, **J_EN_PASSWD** must be installed.

To clear the already configured password, use the option available under F2 (system setup) during system start.

Legal Values String of up to 22 characters

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.SysSecurity.TcmActivation (Read or Write)

Description Set the operational state of the Trusted Cryptography Module (TCM).

Legal Values

- No change
- Activate
- Deactivate

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.SysSecurity.TcmClear (Read or Write)

Description	Warns that clearing the TPM causes loss of all keys in the TPM. It may affect starting the operating system.
Legal Values	<ul style="list-style-type: none">• Yes• No
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysSecurity.TcmSecurity (Read or Write)

Description	Controls the reporting of the Trusted Cryptography Module (TCM) in the system.
Legal Values	<ul style="list-style-type: none">• Off• On
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

BIOS.SysSecurity.TpmActivation (Read or Write)

Description	Specify the operational state of the Trusted Platform Module (TPM).
Legal Values	<ul style="list-style-type: none">• NoChange• Activate• Deactivate
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Read Only if <code>SysSecurity.TpmSecurity</code> is set to <code>Off</code> .

BIOS.SysSecurity.TpmClear (Read or Write)

Description	Warns that clearing the TPM causes loss of all keys in the TPM. It may affect starting the operating system.
Legal Values	<ul style="list-style-type: none">• Yes• No
Write Privilege	Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Read Only if `SysSecurity.TpmSecurity` is set to Off.

BIOS.SysSecurity.TpmSecurity (Read or Write)

Description Controls the reporting of the Trusted Platform Module (TPM) in the system.

Legal Values

- Off
- OnPbm
- OnNoPbm

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

BIOS.SysSecurity.TPMStatus (Read Only)

Description Displays the status of TPM.

Legal Values String of up to 64 ASCII characters.

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

NIC.DCBSettings

The following section provides information about the objects in the `NIC.DCBSettings` group.

NIC.DCBSettings.CongestionNotification (Read Only)

Description Indicates whether Congestion Notification capability is supported.

Legal Values

- Available
- Unavailable

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

NIC.DCBSettings.DCBExchangeProtocol (Read Only)

Description Indicates whether Data Center Bridging (DCB) Exchange Protocol capability is supported.

Legal Values

- Available

- Unavailable

Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.DCBSettings.EnhancedTransmissionSelection (Read Only)

Description	Indicates whether Enhanced Transmission Selection capability is supported.
Legal Values	<ul style="list-style-type: none"> • Available • Unavailable
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.DCBSettings.PriorityFlowControl (Read Only)

Description	Indicates whether Priority Flow Control capability is supported.
Legal Values	<ul style="list-style-type: none"> • Available • Unavailable
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.DeviceLevelConfig

To manage the device level configurations, use the objects in this group.

NIC.DeviceLevelConfig.EVBModesSupport (Read Only)

Description	Indicates the type of EVB Modes supported.
Legal Values	<ul style="list-style-type: none"> • VEB • VEPA • PE • Multichannel
Write Privilege	Server Control

License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.DeviceLevelConfig.FlowControlSetting (Read or Write)

Description	Configure type of Flow Control used.
Legal Values	<ul style="list-style-type: none"> • Auto • TX:Send Pause on RX Overflow • RX:Throttle TX on Pause Received • TX RX Flow Control
Default Value	Auto
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.DeviceLevelConfig.SRIOVSupport (Read Only)

Description	Indicates whether SR-IOV capability is supported.
Legal Values	<ul style="list-style-type: none"> • Available • Unavailable
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCOECapabilities

The following section provides information about the objects in the `NIC.FCOECapabilities` group.

NIC.FCOECapabilities.AddressingMode (Read Only)

Description	Indicates whether SPMA or FPMA addressing is used for FCoE transactions.
Legal Values	<ul style="list-style-type: none"> • SPMA • FPMA
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCOECapabilities.MaxFrameSize (Read Only)

Description	Indicates the maximum frame size for each FCoE frame.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCOECapabilities.MaxIOsPerSession (Read Only)

Description	Indicates the maximum number of IOs supported per session.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCOECapabilities.MaxNPIVPerPort (Read Only)

Description	Indicates the maximum number of NPIV WWN per port.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCOECapabilities.MaxNumberExchanges (Read Only)

Description	Indicates the maximum number of exchanges supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCOECapabilities.MaxNumberLogins (Read Only)

Description	Indicates the maximum number of logins supported per port.
Legal Values	None
Write Privilege	Server Control

License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCOECapabilities.MaxNumberOfFCTargets (Read Only)

Description	Indicates the maximum number of FC targets supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCOECapabilities.MaxNumberOutStandingCommands (Read Only)

Description	Indicates the maximum number of outstanding commands supported across all sessions.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCOECapabilities.MTUReconfigurationSupport (Read Only)

Description	Indicates whether the MTU reconfiguration capability is supported.
Legal Values	<ul style="list-style-type: none"> • Available • Unavailable
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCoEConfiguration

The following section provides information about the objects in the NIC.FCoEConfiguration group.

NIC.FCoEConfiguration.ConnectFirstFCoETarget (Read or Write)

Description	Specifies whether FCoE initiator is used to connect to the first FCoE storage target defined.
Legal Values	<ul style="list-style-type: none"> • Enabled • Disabled

Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCoEConfiguration.FirstFCoEBootTargetLUN (Read or Write)

Description	LUN of the first FCoE storage target that the FCoE initiator will start the system from when Connect attribute is enabled.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Enable <code>FCoEConfiguration.ConnectFirstFCoETarget</code>

NIC.FCoEConfiguration.FirstFCoEFCFVLANID (Read or Write)

Description	VLAN ID uses the first FC storage target to connect.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCoEConfiguration.FirstFCoEWWPNTarget (Read or Write)

Description	World Wide Port Name (WWPN) of the first FCoE storage target.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCoEConfiguration.MTUParams (Read or Write)

Description	Configure the MTU setting.
Legal Values	<ul style="list-style-type: none"> • Global • Per DCB Priority • Per VLAN
Write Privilege	Server Control

License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCoEGenParams

The following section provides information about the objects in the `NIC.FCoEGenParams` group.

NIC.FCoEGenParams.FCoEBootScanSelection (Read or Write)

Description	Represents the adaptor behavior for starting the system from specified FCoE storage target or fabric discovered target.
Legal Values	<ul style="list-style-type: none"> • 0 — Disabled • 1 — First LUN • 2 — First LUN 0 • 3 — First LUN Not LUN 0 • 4 — Fabric Discovered LUN • 5 — Specified LUN
Default Value	0 — Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCoEGenParams.FCoEFabricDiscoveryRetryCnt (Read or Write)

Description	Retry count for FCoE fabric discovery.
Legal Values	Values: 0–60
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCoEGenParams.FCoEFirstHddTarget (Read or Write)

Description	Specifies whether the FCoE target is represented as the first HDD to the system.
Legal Values	<ul style="list-style-type: none"> • Enabled • Disabled
Default Value	Disabled
Write Privilege	Server Control

License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCoEGenParams.FCoELnkUpDelayTime (Read or Write)

Description	Specifies the time FCoE Initiator waits after an Ethernet link is established before sending any data over the network. Units are in seconds.
Legal Values	Values: 0–255
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCoEGenParams.FCoELunBusyRetryCnt (Read or Write)

Description	Specifies the number of connection retries the FCoE boot initiator will attempt if the FCoE target LUN is busy.
Legal Values	Values: 0–60
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FCoEGenParams.FCoETgtBoot (Read or Write)

Description	Enables the FCoE initiator to start system to the FCoE target.
Legal Values	<ul style="list-style-type: none"> • Enabled • Disabled
Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FrmwImgMenu

The following section provides information about the objects in the `NIC.FrmwImgMenu` group.

NIC.FrmwlmngMenu.ControllerBIOSVersion (Read Only)

Description	Indicates the controller BIOS version information.
Legal Values	String of up to 8 ASCII characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FrmwlmngMenu.EFIVersion (Read Only)

Description	Indicates the EFI device driver version information.
Legal Values	String of up to 8 ASCII characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.FrmwlmngMenu.FamilyVersion (Read Only)

Description	Indicates the firmware family version information.
Legal Values	String of up to 8 ASCII characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.GlobalBandwidthAllocation

The following section provides information about the objects in the `NIC.GlobalBandwidthAllocation` group.

NIC.GlobalBandwidthAllocation.MaxBandwidth (Read or Write)

Description	Set the maximum percentage of port TX bandwidth allocated to partition.
Legal Values	Values from 0 to 100
Default Value	100
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.GlobalBandwidthAllocation.MinBandwidth (Read or Write)

Description	Set the minimum percentage of port TX bandwidth allocated to partition.
Legal Values	Values: 0–100
Default Value	25
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.IscsiFirstTgtParams

The following section provides information about the objects in the `NIC.IscsiFirstTgtParams` group.

NIC.IscsiFirstTgtParams.ConnectFirstTgt (Read or Write)

Description	Enables or disables connecting to the first iSCSI target.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiFirstTgtParams.FirstTgtBootLun (Read or Write)

Description	Set the first iSCSI storage target boot Logical Unit Number (LUN).
Legal Values	Values: 0–18446744073709551615
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiFirstTgtParams.FirstTgtChapId (Read or Write)

Description	Set the first iSCSI storage target Challenge-Handshake Authentication Protocol (CHAP) ID.
Legal Values	String of up to 128 ASCII characters
Write Privilege	Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Not Available if `VndrConfigGroup.iSCSIBootSupport` is Unavailable.

NIC.IscsiFirstTgtParams.FirstTgtChapPwd (Password)

Description Specifies the first iSCSI storage target Challenge-Handshake Authentication Protocol (CHAP) secret (target CHAP password).

Legal Values String of up to 16 characters

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Not Available if `VndrConfigGroup.iSCSIBootSupport` is Unavailable.

NIC.IscsiFirstTgtParams.FirstTgtIpAddress (Read or Write)

Description Set the IP address of the first iSCSI target.

Legal Values Valid IPv4 or IPv6 address

Write Privilege Server Control


License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Not Available if `VndrConfigGroup.iSCSIBootSupport` is Unavailable.

NIC.IscsiFirstTgtParams.FirstTgtIscsiName (Read or Write)

Description Set the iSCSI Qualified Name (IQN) of the first iSCSI storage target.

Legal Values String of upto 223 ASCII characters

 **NOTE:** The legal value range may be smaller than the maximum size of 223, based on the vendor configuration of the NIC cards.

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Not Available if `VndrConfigGroup.iSCSIBootSupport` is Unavailable.

NIC.IscsiFirstTgtParams.FirstTgtTcpPort (Read or Write)

Description Set the TCP Port number of the first iSCSI target.

Legal Values Values from 1 to 65535

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Not Available if `VndrConfigGroup.iSCSIBootSupport` is Unavailable.

NIC.IscsiGenParams

The following section provides information about the objects in the `NIC.IscsiGenParams` group.

NIC.IscsiGenParams.ChapAuthEnable (Read or Write)

Description	To use CHAP authentication when connecting to the iSCSI target, enable or disable the ability of the initiator.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiGenParams.ChapMutualAuth (Read or Write)

Description	Enables or disables mutual CHAP authentication between the iSCSI initiator and target.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.IscsiGenParams.DhcpVendId (Read or Write)

Description	Control what Vendor ID is presented to the DHCP service.
Legal Values	String of upto 255 ASCII characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiGenParams.FirstHddTarget (Read or Write)

Description	Enables or disables to check if the iSCSI target appears as the first hard disk drive (HDD) in the system.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiGenParams.IpAutoConfig (Read or Write)

Description	Controls the source of the initiator IP address DHCP or static assignment. This option is specific to IPv6.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>IscsiGenParams.IpVer</code> is set to 'IPv4' and <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiGenParams.IpVer (Read or Write)

Description	Controls whether IPv4 or IPv6 network addressing is used for iSCSI initiator and targets.
Legal Values	<ul style="list-style-type: none">• Ipv4• Ipv6• None
Default Value	Ipv4
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiGenParams.IscsiViaDHCP (Read or Write)

Description	Enables the acquisition of iSCSI target parameters from DHCP.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiGenParams.LnkUpDelayTime (Read or Write)

Description	Set the time to allow for link to establish before driver initialization.
Legal Values	Values from 0 to 255
Default Value	0
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiGenParams.LunBusyRetryCnt (Read or Write)

Description	Specifies the number of connection attempts the iSCSI boot initiator will attempt if the iSCSI target LUN is busy.
Legal Values	Values: 0–60
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiGenParams.TcpIpViaDHCP (Read or Write)

Description	Setting to enable acquisition of IPv4 TCP/IP parameters from DHCP.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Default Value	Disabled
Write Privilege	Server Control

License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>IscsiGenParams.IpVer</code> is set to 'IPv6' and <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiGenParams.TcpTimestmp (Read or Write)

Description	Enables or disables use of TCP timestamps in network packets as defined in RFC 1323.
Legal Values	<ul style="list-style-type: none"> • Enabled • Disabled
Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiGenParams.WinHbaBootMode (Read or Write)

Description	When enabled, it enables iSCSI Offload HBA start mode and disables iSCSI software initiator boot.
Legal Values	<ul style="list-style-type: none"> • Enabled • Disabled
Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.IscsiInitiatorParams

The following section provides information about the objects in the `NIC.IscsiInitiatorParams` group.

NIC.IscsiInitiatorParams.IscsiInitiatorChapId (Read or Write)

Description	Set the iSCSI initiator Challenge-Handshake Authentication Protocol (CHAP) ID.
Legal Values	String of up to 128 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiInitiatorParams.IscsiInitiatorChapPwd (Password)

Description	Set the iSCSI initiator Challenge-Handshake Authentication Protocol (CHAP) secret (password).
Legal Values	String of 12–16 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiInitiatorParams.IscsiInitiatorGateway (Read or Write)

Description	Specifies the Default Gateway of the iSCSI initiator.
Legal Values	String of 2-39 characters (Ipv4 or Ipv6 gateway)
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not Available if <code>VndrConfigGroup.iSCSIBootSupport</code> is Unavailable.

NIC.IscsiInitiatorParams.IscsiInitiatorIpAddr (Read or Write)

Description	Specifies the IP address of the iSCSI initiator.
Legal Values	String of 2–39 characters (Ipv4 or Ipv6 address)
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiInitiatorParams.IscsiInitiatorName (Read or Write)

Description	Specifies the initiator iSCSI Qualified Name (IQN).
Legal Values	String of upto 223 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiInitiatorParams.IscsiInitiatorPrimDns (Read or Write)

Description	Specifies the Primary DNS IP address of the iSCSI initiator.
Legal Values	String of 2–39 characters (Ipv4 or Ipv6 gateway)
Write Privilege	Server Control

License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiInitiatorParams.IscsiInitiatorSecDns (Read or Write)

Description	Specifies the Secondary DNS IP address of the iSCSI initiator.
Legal Values	String of 2–39 characters (Ipv4 or Ipv6 gateway)
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiInitiatorParams.IscsiInitiatorSubnet (Read or Write)

Description	Specifies the IPv4 Subnet Mask of the iSCSI initiator.
Legal Values	String of 7–15 characters (IPv4 Subnet)
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiInitiatorParams.IscsiInitiatorSubnetPrefix (Read or Write)

Description	Specifies the IPv6 Subnet Mask Prefix of the iSCSI initiator.
Legal Values	String of 2–39 characters (IPv6 Subnet)
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiSecondaryDeviceParams

The following section provides information about the objects in the `NIC.IscsiSecondaryDeviceParams` group.

NIC.IscsiSecondaryDeviceParams.SecondaryDeviceMacAddr (Read or Write)

Description	Specifies the MAC address of a secondary iSCSI boot adapter for redundancy in case if start is unsuccessful.
Legal Values	String of up to 17 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise

Dependency Not available if `VndrConfigGroup.iSCSIBootSupport` is unavailable.

NIC.IscsiSecondaryDeviceParams.UseIndTgtName (Read or Write)

Description Specifies whether to use Independent Target Name when multipath I/O is enabled.

Legal Values

- Enabled
- Disabled

Default Value Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Not available if `VndrConfigGroup.iSCSIBootSupport` is unavailable.

NIC.IscsiSecondaryDeviceParams.UseIndTgtPortal (Read or Write)

Description Specifies whether to use Independent Target Portal when multipath I/O is enabled.

Legal Values

- Enabled
- Disabled

Default Value Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Not available if `VndrConfigGroup.iSCSIBootSupport` is unavailable.

NIC.IscsiSecondTgtParams

To configure the `iSCSIsecond` storage, use the objects in this group.

NIC.IscsiSecondTgtParams.ConnectSecondTgt (Read or Write)

Description Enables connecting to the second iSCSI target.

Legal Values

- Enabled
- Disabled

Default Value Disabled

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency Not available if `VndrConfigGroup.iSCSIBootSupport` is unavailable.

NIC.IscsiSecondTgtParams.SecondTgtBootLun (Read or Write)

Description	Specifies the second iSCSI storage target boot Logical Unit Number (LUN).
Legal Values	Values: 0–18446744073709551615
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiSecondTgtParams.SecondTgtChapId (Read or Write)

Description	Specifies the second iSCSI storage target Challenge-Handshake Authentication Protocol (CHAP) ID
Legal Values	Values: 0–128.
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiSecondTgtParams.SecondTgtChapPwd (Password)

Description	Specifies the second iSCSI storage target Challenge-Handshake Authentication Protocol (CHAP) secret (target CHAP password).
Legal Values	String of 12–16 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiSecondTgtParams.SecondTgtIpAddress (Read or Write)

Description	Specifies the IP address of the second iSCSI target.
Legal Values	String of 2-39 characters (Ipv4 or Ipv6 address)
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiSecondTgtParams.SecondTgtIscsiName (Read or Write)

Description	Specifies the iSCSI Qualified Name (IQN) of the second iSCSI storage target.
Legal Values	String of up to 223 characters



NOTE: The legal value range may be smaller than the maximum size of 223, based on the vendor configuration of the NIC cards.

Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.IscsiSecondTgtParams.SecondTgtTcpPort (Read or Write)

Description	Specifies the TCP Port number of the second iSCSI target.
Legal Values	Values: 1–65535
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	Not available if <code>VndrConfigGroup.iSCSIBootSupport</code> is unavailable.

NIC.NICConfig

To configure the `NICConfig` properties, use the objects in this group.

NIC.NICConfig.LegacyBootProto (Read or Write)

Description	Select a non-UEFI network start protocol.
Legal Values	<ul style="list-style-type: none"> • PXE • iSCSI • FCoE • NONE • iSCSIPrimary • iSCSI Secondary
Default Value	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.NICConfig.LnkSpeed (Read or Write)

Description	Specifies the port speed used for the selected boot protocol.
Legal Values	<ul style="list-style-type: none"> • AutoNeg • 10 Mbps Half • 10 Mbps Full

- 100 Mbps Half
- 100 Mbps Full

Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.NICConfig.VLanId (Read or Write)

Description	Specifies the ID (tag) for the VLAN Mode.
Legal Values	Values: 1–4095
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	VLANMode must be enabled.

NIC.NICConfig.VLanMode (Read or Write)

Description	Virtual LAN mode enables use of a VLAN tag to use vendor-defined boot protocols.
Legal Values	<ul style="list-style-type: none"> • Enabled • Disabled
Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.NICConfig.WakeOnLan (Read or Write)

Description	Enables the server to be powered on using an in-band magic packet.
Legal Values	<ul style="list-style-type: none"> • Enabled • Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.NICConfig.WakeOnLanLnkSpeed (Read or Write)

Description	Select the port speed used for Wake on LAN mode.
Legal Values	<ul style="list-style-type: none">• AutoNeg• 10 Mbps Half• 10 Mbps Full• 100 Mbps Half• 100 Mbps Full
Default Value	AutoNeg
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.NICPartitioningConfig

To configure the `NICPartitioning` properties, use the objects in this group.

NIC.NICPartitioningConfig.NicPartitioning (Read or Write)

Description	Enables or disables NIC partitioning for all device ports.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.NICPartitioningConfig.NumberPCIEFunctionsEnabled (Read Only)

Description	Indicates the number of physical PCIe functions currently enabled on this port.
Legal Values	Values: 1–65535
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.NICPartitioningConfig.NumberPCIEFunctionsSupported (Read Only)

Description	Indicates the number of physical PCIe functions supported on this port.
Legal Values	Values: 1–65535
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup

The objects in this group manage the vendor configuration settings.

NIC.VndrConfigGroup.BusDeviceFunction (Read Only)

Description	Indicates the BIOS assigned PCIe.
Legal Values	String of up to 8 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.BlnkLeds (Read or Write)

Description	Identifies the physical network port by blinking the associated LED.
Legal Values	Values: 0–15
Default Value	15
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.ChipMdl (Read Only)

Description	Indicates the chip type or revision.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.EnergyEfficientEthernet (Read Only)

Description	Indicates whether Energy Efficient Ethernet capability is supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.DCBXSupport (Read Only)

Description	Indicates whether Data Center Bridging (DCB) capability is supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.FCoEBootSupport (Read Only)

Description	Indicates whether Fibre Channel over Ethernet Boot capability is supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.FCoEOffloadMode (Read or Write)

Description	Enables or disables FCoE personality on the port.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Default Value	Disabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.FCoEOffloadSupport (Read Only)

Description	Indicates whether FCoE Offload capability is supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.FeatureLicensingSupport (Read Only)

Description	Indicates whether Dell Feature Licensing capability is supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.FIPMacAddr (Read Only)

Description	Permanent FIP-MAC address for FCoE assigned during manufacturing.
Legal Values	String of up to 17 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.FlexAddressing (Read Only)

Description	Indicates whether Dell FlexAddressing feature is supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.iSCSIBootSupport (Read Only)

Description	Indicates whether iSCSI Boot capability is supported.
Legal Values	None
Write Privilege	Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

NIC.VndrConfigGroup.ISCSIMacAddr (Read Only)

Description Indicates the permanent MAC address for iSCSI offload assigned during manufacturing.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

NIC.VndrConfigGroup.iSCSIOffloadMode (Read or Write)

Description Enables or disables iSCSI offload personality on the port.
Legal Values

- Enabled
- Disabled

Default Value Disabled
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

NIC.VndrConfigGroup.iSCSIOffloadSupport (Read Only)

Description Indicates whether iSCSI Offload capability is supported.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

NIC.VndrConfigGroup.LinkStatus (Read Only)

Description Indicates the physical network link status that reports the controller.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

NIC.VndrConfigGroup.MacAddr (Read Only)

Description	Indicates the permanent MAC address assigned during manufacturing.
Legal Values	String of up to 17 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.NicMode (Read or Write)

Description	Enables or disables NIC personality on the port.
Legal Values	<ul style="list-style-type: none">• Enabled• Disabled
Default Value	Enabled
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.NicPartitioningSupport (Read Only)

Description	Indicates whether NIC Partitioning capability is supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.NWManagementPassThrough (Read Only)

Description	Indicates whether the Network Management Pass Through capability is supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.OnChipThermalSensor (Read Only)

Description	Indicates whether an on-chip thermal sensor is available.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.OSBMCMManagementPassThrough (Read Only)

Description	Indicates whether OS-BMC Management Pass Through capability is supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.PCIDeviceID (Read Only)

Description	Indicates the PCI Device ID of the port.
Legal Values	String of up to 4 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.PXEBootSupport (Read Only)

Description	Indicates whether PXE Boot capability is supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.RemotePHY (Read Only)

Description	Indicates whether RemotePHY capability is supported.
Legal Values	None
Write Privilege	Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

NIC.VndrConfigGroup.RXFlowControl (Read Only)

Description Indicates whether Receive (RX) Flow control capability is supported.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

NIC.VndrConfigGroup.TOESupport (Read Only)

Description Indicates whether TCP/IP Offload Engine capability is supported.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

NIC.VndrConfigGroup.TXBandwidthControlMaximum (Read Only)

Description Indicates whether Transmit (TX) Bandwidth Control Maximum capability is supported.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

NIC.VndrConfigGroup.TXBandwidthControlMinimum (Read Only)

Description Indicates whether Transmit (TX) Bandwidth Control Minimum capability is supported.
Legal Values None
Write Privilege Server Control
License Required iDRAC7 Express or iDRAC7 Enterprise
Dependency None

NIC.VndrConfigGroup.TXFlowControl (Read Only)

Description	Indicates whether Transmit (TX) Flow Control capability is supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.VirtFIPMacAddr (Read or Write)

Description	Programmatically assignable FIP-MAC address for FCoE. Programmatic write for support of I/O Identity feature.
Legal Values	String of up to 17 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.VirtIscsiMacAddr (Read or Write)

Description	Programmatically assignable MAC address for iSCSI offload. Programmatic write for support of I/O Identity feature.
Legal Values	String of up to 17 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.VirtMacAddr (Read or Write)

Description	Programmatically assignable MAC address. Programmatic write for support of I/O Identity feature.
Legal Values	String of up to 17 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.VirtualLinkControl (Read or Write)

Description	Indicates whether Virtual Link Control capability is supported.
Legal Values	None
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.VirtWWN (Read or Write)

Description	Programmatically assignable Fibre Channel World Wide Node Name identifier for FCoE.
Legal Values	String of up to 23 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.VirtWWPN (Read Only)

Description	Programmatically assignable Fibre Channel World Wide Port Name identifier for FCoE.
Legal Values	String of up to 23 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.WWN (Read Only)

Description	Fibre Channel World Wide Node Name identifier for FCoE.
Legal Values	String of up to 23 characters
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

NIC.VndrConfigGroup.WWPN (Read Only)

Description	Fibre Channel World Wide Port Name identifier for FCoE.
Legal Values	String of up to 23 characters
Write Privilege	Server Control

License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

Storage.Controller

The objects in this group manage storage controller attributes.

The following sections provide information about the objects in this group.

Storage.Controller.BackgroundInitializationRate (Read or Write)

Description	The Background Initialization (BGI) rate is the percentage of the system's resources dedicated to perform the background initialization of a virtual disk after it is created.
Legal Values	Values: 0–100
Default value	
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

Storage.Controller.BatteryLearnMode (Read or Write)

Description	Battery Learn Mode controls a RAID controller's Battery Learn Cycle.
Legal Values	<ul style="list-style-type: none"> • Automatic • Warn • Disabled
Default value	
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

Storage.Controller.CheckConsistencyMode (Read or Write)

Description	Check Consistency feature is used to verify the accuracy of the redundant (parity) information.
Legal Values	<ul style="list-style-type: none"> • Normal • Stop On Error
Default value	
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.Controller.CheckConsistencyRate (Read or Write)

Description The Check Consistency rate is the percentage of the system's resources dedicated to performing a check consistency on a redundant virtual disk.

Legal Values Values: 0–100

Default value

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.Controller.ControllerBootMode (Read or Write)

Description This property indicates the Controller Boot Mode setting on the controller.

Legal Values

- User Mode
- Continue Boot On Error
- Headless Mode Continue On Error
- Headless Safe Mode

Default value

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.Controller.CopybackMode (Read or Write)

Description This attribute represents the mode of restoring the configuration of a virtual disk when a failed physical disk drive is replaced in an array.

Legal Values

- On
- ON with SMART
- Off

Default value

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.Controller.EnhancedAutoImportForeignConfig (Read or Write)

Description	This property indicates the Enhanced Auto Import of Foreign Configuration setting on the controller.
Legal Values	<ul style="list-style-type: none">• Disabled• Enabled
Default value	
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

Storage.Controller.PatrolReadMode (Read or Write)

Description	Patrol Read is a feature for identifying disk errors to avoid disk failures and data loss or corruption. The Patrol Read only runs on the disks that are used in a virtual disk or that are hot-spare.
Legal Values	<ul style="list-style-type: none">• Automatic• Manual• Disabled
Default value	
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

Storage.Controller.PatrolReadRate (Read or Write)

Description	The Patrol Read Rate is the percentage of the system's resources dedicated to perform Patrol Read.
Legal Values	Values: 0–100
Default value	
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

Storage.Controller.PossibleloadBalancedMode (Read or Write)

Description	This attribute represents the ability to automatically use both controller ports connected to the same enclosure to route I/O requests.
Legal Values	<ul style="list-style-type: none">• Auto

- Disabled

Default value

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.Controller.RebuildRate (Read or Write)

Description The Rebuild Rate is the percentage of the system's resources dedicated to rebuilding a failed disk when a rebuild is necessary.

Legal Values Values: 0–100

Default value

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.Controller.ReconstructRate (Read or Write)

Description The Reconstruct Rate is the percentage of the system's resources dedicated to reconstructing a disk group after adding a physical disk drive or changing the RAID level of a virtual disk residing on the disk group.

Legal Values Values: 0–100

Default value

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.Controller.SupportControllerBootMode (Read Only)

Description This is readonly attribute. This property indicates if this controller supports setting of controller boot mode.

Legal Values

- Supported
- Not Supported

Default value

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.Controller.SupportEnhancedAutoForeignImport (Read Only)

Description This is readonly attribute. This property indicates if this controller supports enhanced auto import of foreign configurations.

Legal Values

- Supported
- Not Supported

Default value

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.Controller.SupportRAID10UnevenSpans (Read Only)

Description This is readonly attribute. This property indicates if this controller supports uneven spans for RAID 10.

Legal Values

- Supported
- Not Supported

Default value

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.Controller.T10PICapability (Read Only)

Description This is readonly attribute. This property indicates if this controller supports T10 PI.

Legal Values

- Incapable
- Capable

Default value

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.PhysicalDisk

The objects in this group manage storage physical disk drive attributes.

The following section provides information about the objects in this group.

Storage.PhysicalDisk.BlockSizeInBytes (Read Only)

Description	This is readonly attribute. This property indicates the logical block size of the physical drive that this virtual disk belongs to.
Legal Values	Values: 512 or 4096
Default value	
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

Storage.PhysicalDisk.MaxCapableSpeed (Read Only)

Description	This is readonly attribute. The property represents the data transfer speed that the disk is capable of.
Legal Values	<ul style="list-style-type: none">• Unknown• 1.5GBPS• 3GBPS• 6GBPS• 12GBPS
Default value	
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

Storage.PhysicalDisk.RaidNominalMediumRotationRate (Read Only)

Description	This is readonly attribute and represents the nominal medium rotation speed of a physical disk drive.
Legal Values	Values: 2–4294967295
Default value	
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

Storage.PhysicalDisk.T10PICapability (Read Only)

Description	This is readonly attribute. This property indicates if this physical disk drive supports T10 PI.
Legal Values	<ul style="list-style-type: none">• Incapable

- Capable

Default value

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.VirtualDisk

The objects in this group manage storage virtual disk attributes.

The following section provides information about the objects in this group.

Storage.VirtualDisk.BlockSizeInBytes (Read Only)

Description This is readonly attribute. This property indicates the logical block size of the physical drive that this virtual disk belongs to.

Legal Values Values: 512 or 4096

Default value

Write Privilege Configure iDRAC

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.VirtualDisk.DiskCachePolicy (Read or Write)

Description Set the physical disk drive caching policy of all members of a Virtual Disk by enabling the Disk Cache Policy. When this feature is enabled, the physical disk drive writes data to the physical disk drive cache before writing it to the physical disk drive. Because it is faster to write data to the cache than to a disk, enabling this feature can improve system performance.

- Legal Values**
- Default
 - Enabled
 - Disabled

Default value

Write Privilege Server Control

License Required iDRAC7 Express or iDRAC7 Enterprise

Dependency None

Storage.VirtualDisk.ReadPolicy (Read or Write)

Description	The read policies indicate whether or not the controller must read sequential sectors of the virtual disk when seeking data.
Legal Values	<ul style="list-style-type: none">• No Read Ahead• Read Ahead• Adaptive Read Ahead
Default value	
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

Storage.VirtualDisk.T10PIStatus (Read Only)

Description	This is readonly attribute. This property indicates if T10 PI is enabled or disabled on this virtual disk.
Legal Values	Values: <ul style="list-style-type: none">• 0 — Disabled• 1 — Enabled
Default value	
Write Privilege	Configure iDRAC
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None

Storage.VirtualDisk.WritePolicy (Read or Write)

Description	The write policies specify whether or not the controller sends a write-request completion signal as soon as the data is in the cache or after it has been written to disk.
Legal Values	<ul style="list-style-type: none">• Write Through• Write Back• Force Write Back
Default value	
Write Privilege	Server Control
License Required	iDRAC7 Express or iDRAC7 Enterprise
Dependency	None