Parallels

Parallels Business Automation Standard

Installation guide

Release 4.3



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Contents

Preface	4
Typographical Conventions Feedback About This Guide	5
Terms and Abbreviations	
About Parallels Business Automation - Standard	8
Parallels Business Automation - Standard Deployment Licensing Issues	
Installation Requirements	11
Hardware And Software Requirements Network Pre-Requisites	
Installation Instructions	15
Parallels Business Automation - Standard Distribution	
Preparing for Installation	
Disk Partitioning	
Services/Daemons to be Enabled	
Time Synchronization.	
Installing Parallels Business Automation - Standard	
Start Working	27
Browsers Compatible with Parallels Business Automation - Standard	27
Connecting to Parallels Business Automation - Standard Browser-Based Tools	27
Initial Settings	29
Installing Parallels Business Automation - Standard in Parallels Virtuozzo Container	32
Getting Technical Support	34
How to Send Support Questions	34
Index	35

Preface

In This Chapter

Typographical Conventions	4
Feedback	5
About This Guide	5

Typographical Conventions

Before you start using this guide, it is important to understand the documentation conventions used in it.

The following kinds of formatting in the text identify special information.

Formatting convention	Type of Information	Example
Special Bold	Items you must select, such as menu options, command buttons, or items in a list.	Go to the System tab.
	Titles of chapters, sections, and subsections.	Read the Basic Administration chapter.
Italics	_	The system supports the so called wildcard character search.
Monospace	The names of commands, files, directories, and domain names.	The license file is located in the http://docs/common/licenses directory.

Preformatted On-screen computer output in # ls -al /files total 14470

your command-line sessions; source code in XML, C++, or other programming

languages.

Preformatted Bold What you type

What you type, contrasted # cd /root/rpms/php with on-screen computer

output.

CAPITALS Names of keys on the SHIFT, CTRL, ALT

keyboard.

KEY+KEY Key combinations for which CTRL+P, ALT+F4

the user must press and hold down one key and then press

another.

Feedback

If you have found a mistake in this guide, or if you have suggestions or ideas on how to improve this guide, please send your feedback using the online form at http://www.parallels.com/en/support/usersdoc/. Please include in your report the guide's title, chapter and section titles, and the fragment of text in which you have found an error.

About This Guide

This Guide includes useful information from installation preparation (system requirements and compatibility issues) and step-by-step installation procedure, to the most general recommendations on working with Parallels Business Automation - Standard.

Preface

Terms and Abbreviations

Apache Web Server - A public-domain open source web server (often referred to as simply Apache).

Browser - GUI-based hypertext client application, such as Internet Explorer, Mozilla, and Chrome, used to access hypertext documents and other services located on innumerable remote servers throughout the WWW and Internet.

Container, CT - Parallels Virtuozzo Container that behaves just like a standalone physical server.

FQDN - Fully Qualified Domain Name. A fully qualified domain name consists of a hostname and domain name, including top-level domain. For example, www.yourcompany.com is a fully qualified domain name. www is the hostname, yourcompany is the second-level domain, and .com is the top level domain. A FQDN always starts with a host name and continues all the way up to the top-level domain name, so www.affiliate.yourcompany.com is also a FQDN.

GUI - graphical user interface. User environment that uses pictorial as well as textual representations of the input and output of applications and the hierarchical or other data structure in which information is stored. Conventions such as buttons, icons, and windows are typical, and many actions are performed using a pointing device (such as a mouse).

Hardware Node - A sever that runs Parallels Virtuozzo Containers, Parallels Plesk Control Panel, or Parallels Plesk Sitebuilder, registered in Parallels Business Automation - Standard database, managed from Parallels Business Automation - Standard and used to provide services for customers. Servers that are not used for such services provisioning, but registered in Parallels Business Automation - Standard are also called Hardware Nodes, or just 'nodes'.

HN - Hardware Node.

Host - Computer system on a network. Similar to node, except that host usually implies a computer system, whereas node generally applies to any networked system, including access servers and routers.

Hostname - name given to a host (for example, to a Server). Example: hostname.company.com.

HSP - Hosting Service Provider.

IP address - 32-bit address assigned to hosts using TCP/IP. Each address consists of a network number, an optional subnetwork number, and a host number. The network and subnetwork numbers together are used for routing, while the host number is used to address an individual host within the network or subnetwork. A subnet mask is used to extract network and subnetwork information from the IP address.

Management Node - a server that runs Parallels Business Automation - Standard.

Node - The same as Hardware Node.

Preface

Password - A secret series of characters that enables a user to access a file, computer, or program. On multi-user systems, each user must enter his or her password before the computer will respond to commands. The password helps ensure that unauthorized users do not access the computer.

PHP - Hypertext Preprocessor, an open source, server-side, HTML embedded scripting language used to create dynamic Web pages.

Public-key encryption - A cryptographic system that uses two keys -- a public key known to everyone and a private or secret key known only to the recipient of the message.

Script - A list of commands that can be executed without user interaction.

SSL - Short for Secure Sockets Layer, a protocol transmitting private documents via Internet. SSL works by using a public key to encrypt data being transferred over the SSL connection.

Subscription - Hosting services provided for a certain period at a certain price.

Trial Period - A period of time you can use some services or goods for free, i.e., try them.

Trial Subscription - A subscription with trial period when you can use a Hosting Plan for free, i.e., try it.

Upload -Copy data from a local computer to a remote computer. The opposite of download.

URL - Short for Uniform Resource Locator, a way of specifying the location of publicly available information on the Internet in the form. The first part of the address indicates what protocol to use, and the second part specifies the IP address or the domain name where the resource is located. For example, the URL below points to a file at the domain www.yourcompany.com:

http://www.yourcompany.com/index.html

Container - Virtuozzo Container powered by Parallels Virtuozzo Containers technology.

Web Server - A computer that delivers (serves up) Web pages.

About Parallels Business Automation - Standard

Parallels Business Automation - Standard is an end-to-end solution for hosting service providers (HSPs) and Internet Data Centers covering full life-cycle of HSP/IDC operations. Based on the patent-pending VirtuozzoTM virtualization, resource management and clustering technologies, Parallels Business Automation - Standard allows HSPs to drastically decrease the cost of operating hosting business while increasing revenues, developing new reseller channels, and improving utilization of hardware and personnel resources.

The Parallels Business Automation - Standard allows provisioning the wide range of hosting services:

Dedicated (physical server):

- Virtuozzo Node physical server with Parallels Virtuozzo Containers installed and ability to create virtual private servers and sell them to customers. Virtuozzo dedicated hosting can be provided for Resellers. Provider can manage a Hardware Node on the system level plus fully automated billing is provided.
- Node physical server with an arbitrary software installed. In this case, a Provider can bill the customer that have purchased the server and manage the dedicated subscription. It is not possible to manage the server on the system level using the Provider Control Center tools.
- Plesk Node physical server with Parallels Plesk Control Panel installed and ability to provide the shared hosting.

Container (Virtuozzo Container):

- Generic (with root access or without root access), Parallels Virtuozzo Container that behaves just like a standalone physical server.
- MS Hosted Exchange (by Parallels Operations Automation).
- Virtual Machine (by Parallels Server).
- SSL Certificate.

Shared:

 Plesk Shared (Plesk Domain) with ability to create website, upload filed and images, manage database.

- Plesk Client with ability to manage Plesk Domains.
- Domain Registration.
- Miscellaneous (custom and non-hosting services).
- One-time fee items (custom and non-hosting service without subscription).

More information about Parallels Business Automation - Standard and its many features is available in the Parallels Business Automation - Standard Provider's Guide.

In This Chapter

Parallels Business Automation - Standard Deployment	9
Licensing Issues	10

Parallels Business Automation - Standard Deployment

Parallels Business Automation - Standard's modular design consists of several subsystems:

- Provider Control Center (HSP GUI). Browser-based tool for the Hosting Service Provider. Includes the customizable online store and front-end website. Provider Control Center allows managing all the Parallels Business Automation - Standard tools and supervising Resellers' online stores. In addition a Provider can log in to any Reseller Control Center or any of Provider's customers' Control Panels.
- Reseller Control Center (Reseller GUI). Browser-based tool for the reseller. Provides
 access to the functionality of Parallels Business Automation Standard components
 (directors and managers) available for the reseller plus customizable online store and frontend website.

Note: Each Control Center allows hosting services provisioning with access to the Parallels Business Automation - Standard Control Panels.

- Customer Control Panel. Browser-based tool for customers. Allows managing customer account, pay orders and invoices, upgrade subscriptions, buy new hosting plans. For Virtuozzo Container subscriptions, three additional tools are available. Each of these tools can be installed in a Container as an application, and since these tools provide a kind of a Control Panel superstructure, these applications are also called Control Panels. Each Panel Application is intended for different users with different level of the system administration knowledge, with different privileges (end-users receive the My Control Panel):
 - Workgroup Administrator Control Panel (WACP). The set of tools for small company administrator or workgroup administrator (or workgroup users without the dedicated administrator). It hides from the user the complexity of server administration and allows users without deep system administration knowledge to perform simple tasks like mail management and website deployment.
 - System Administrator Control Panel (SACP). The set of tools for the system administrator that allows managing Container. Users should have the basic system administration knowledge. SACP allows a customer to configure Container services and users, configure mail, manage databases.

My Control Panel (MyCP). Browser-based end-user self-management tool that allows
managing user personal information, configuring e-mail autoresponders, configuring
mail forwarding to an external address, both uploading and managing files in user home
directory.

Note: It is possible to integrate the custom e-commerce solutions with Parallels Business Automation - Standard using the API provided. For more details on customization, please refer to the Parallels Business Automation - Standard SDK.

The following Account types exist within Parallels Business Automation - Standard system:

- Provider Account (only one Account of such type can exist within your Parallels Business Automation Standard system). This Account is being registered during installation; procedure. All persons associated with Provider Account are considered as Provider staff members with particular access permissions to Parallels Business Automation Standard Provider Control Center. The number of Provider staff members that can concurrently log in to the Provider Control Center is defined by the Parallels Business Automation Standard license.
- Reseller Account. Reseller Accounts are being registered using the Business Director Channel Manager. The number of Reseller Accounts is defined in the Parallels Business Automation Standard License. All persons associated with Reseller Account are considered as Reseller staff members with particular access permissions to Parallels Business Automation Standard Reseller Control Center.
- Customer Account. Customer Accounts are being registered using the Business Director Accounts Manager. Customer Accounts can be of two types: personal or business. All persons associated with Customer Account have access (login and password) to Parallels Business Automation Standard Control Panels.

Licensing Issues

In respect to Parallels Business Automation - Standard, a License should be considered as a file that contains specific data. This data defines the overall number of accounts (Reseller, and Customer ones) a Provider can create and the set of applications installable inside Virtuozzo Containers (Application templates).

License certificate is issued by Parallels. It can be installed via Parallels Business Automation - Standard web-based interface. For Licenses management purposes (install, track usage, and order new license), the special component – License Manager is provided within the Parallels Business Automation - Standard under the Configuration Director.

If you are planning to sell Plesk domains in your HSPstore, please install the Plesk licenses on each of Plesk nodes.

Please, refer to the Parallels Business Automation - Standard Provider's Guide for detailed instructions on how to order and install License certificates.

Note: If you are installing Parallels Business Automation - Standard inside Virtuozzo Container, you will need to install Parallels Virtuozzo Containers License on the node that hosts this Container using the command line control tools.

Installation Requirements

Hardware, software, and network requirements for Parallels Business Automation - Standard are outlined in this chapter.

In This Chapter

Hardware And Software Requirements	12	2
Network Pre-Requisites	1.	3

Hardware And Software Requirements

Parallels Business Automation - Standard supports the following operating systems:

- Centos 5
- Redhat Enterprise Linux AS5

Note1: At present PBAS is only supported by 32 bit Operating Systems.

Note 2: MySQL 5.x is used beginning with PBAS 4.3. If earlier versions of MySQL have been used before upgrading to PBAS 4.3, then during the upgrade installation, MySQL will be automatically upgraded to 5.x version.

Hardware requirements for the server that runs Parallels Business Automation - Standard (Management Node)

- IBM PC-compatible computer with 2 GHz (or higher) Intel Celeron, Pentium, or AMD Athlon CPU;
- At least 2 GB of RAM:
- At least 40 GB of total disk space;
- Network card:

Note: If you use Parallels Virtuozzo Containers technology, you can install Parallels Business Automation - Standard in Virtuozzo Container. Configuration file for Virtuozzo Container is shipped together with Parallels Business Automation - Standard (on page 16). The specific features of Parallels Business Automation - Standard installation in Virtuozzo Container are outlined later in this guide (on page 32).

Important: PBAS can be installed on Parallels Virtuozzo Container only. Other virtualization solutions are not supported.

Virtuozzo Hardware Node Requirements

Please refer to PVC documentation (http://www.parallels.com/products/pvc46/resources/docs/), Installation guides >> Installation Requirements.

Plesk Hardware Node requirements

Please refer to Parallels Plesk system requirements (http://www.parallels.com/products/plesk/requirements/).

Network Pre-Requisites

Network pre-requisites enlisted in this section will help you avoid delays and problems with making Parallels Business Automation - Standard up and running.

Regarding network issues, you should take care in advance of the following:

- Local Area Network (LAN) for Parallels Business Automation Standard server (Management Node) and Hardware Nodes (that run Parallels Virtuozzo Containers or Plesk) at your Data Center.
- Internet connectivity for Hardware Nodes.
- Internet connectivity for Management Node to allow end-users to subscribe for services online, to manage their Containers through web-based tools.
- Important: The server or Virtuozzo Container that runs Parallels Business Automation Standard (i.e. the Management Node) MUST have an external IP address assigned. At the same time, in case of Container-based Parallels Business Automation Standard installation, the service Container can have an internal IP address.
- External IP address for Management and Hardware Nodes as well as other IP parameters.
- External IP addresses that may be allocated in different IP networks.
- IP pools, since the IP addresses assets assigned to the Parallels Business Automation Standard cluster are managed by groups (IP pools). **Important**: If you are going to sell different types of hosting (for example, Plesk and Parallels Virtuozzo Containers), you must allocate special IP ranges for each hosting type, as this required in Parallels Business Automation Standard.
- If a firewall is deployed, check that IP addresses allocated for Virtuozzo Containers or Plesk Domains are opened for access from outside. The IP address 1.1.1.1 should be opened for outside access as well. Check that HTTP, HTTPS and DNS ports on the server that runs Parallels Business Automation Standard are opened for outside access. In addition, SSH port shall be opened.
- If you intend to register domains online, port 43 for whois queries should be opened for outside connection (whois.nsiregistry.com).
- To use plug-ins for online payments and domain registration, please refer to each particular plug-in settings to open the corresponding ports for outside connection.
- Registered domain name, like yourcompany.com. When you first time log in to the Parallels Business Automation Standard, you are to pass through the Initial Setup Wizard. Together with the other data, you will need to enter a domain name and specify two name servers. By this moment, it does not matter, whether a domain is actually registered or not, because a domain entered during the Initial Setup will be added to Parallels Business Automation Standard DNS without a notation to a Registrar that keeps it.
- Name servers. At least two are needed: primary and secondary. During installation, the two default name servers are created as your Management Node aliases. If you do not have name servers, then during Initial Setup, you can leave the default ones, and this will be enough to test Parallels Business Automation Standard. But default name servers are so-called non-manageable ones, i.e., you cannot connect to a name server and configure it manually. Thus we recommend to prepare two name servers in advance and specify them during the Initial Setup Wizard.

- DNS registration of Management Node IP address as the address for www.yourcompany.com.
- DNS delegation of a domain for Virtuozzo Container names (for example, v.yourcompany.com) to Management Node (i.e. creation NS-type DNS record for v.yourcompany.com pointing to the Management Node).
- If you intend to synchronize time on Management Node and Hardware Nodes using third-party time server, then port 123 should be open for both TCP and UDP protocols on the host to be synchronized.
- To provide the ability of online licenses update, port 5224 should be opened for outside connection.

Note: In respect to the overall firewall configuration for the Management Node, please, refer to Linux user documentation.

Table of ports required in firewall configuration:

Service	Port	Protocols
HTTP	80	TCP
HTTPS	443	ТСР
DNS	53	TCP, UDP
SSH	22	TCP
NTP	123	TCP, UDP

Installation Instructions

This Chapter includes step-by-step instructions on Parallels Business Automation - Standard installation.

Parallels Business Automation - Standard can be successfully installed both on the physical server and Virtuozzo Container. In this guide we describe the physical server based installation as the main one. However, we recommend to install PBAS in Parallels Virtuozzo Container.

If you want to install Parallels Business Automation - Standard on the physical server

Regardless of the configuration selected the Parallels Business Automation - Standard installation includes the following basic steps:

- preparing your hardware for installation
- installing Operating System
- installing Parallels Business Automation Standard

In respect to OS installation, this chapter focuses on Parallels Business Automation - Standard-specific issues.

Note: For physical server based installation, we assume that server is designated for Parallels Business Automation - Standard. Additional applications and services are not recommended.

If you want to install Parallels Business Automation - Standard in Virtuozzo Container

If you use the Parallels Virtuozzo Containers technology, it is much better to install Parallels Business Automation - Standard in the Virtuozzo Container. Please note that PBAS is installed in Virtuozzo Container only; other virtualization solutions are not supported.

The benefits of Container-based installation are:

- It is much easier to back up and restore your Management Node.
- If you have several Hardware Nodes running Parallels Virtuozzo Containers, you can easily migrate your Parallels Business Automation - Standard Container from one Hardware Node to an alternate Hardware Node.
- It's much easier to monitor resource usage on your Management Node.

If you want to install Parallels Business Automation - Standard in Virtuozzo Container, please read the guidelines offered (on page 32). The configuration file for Container you can install Parallels Business Automation - Standard is shipped together with Parallels Business Automation - Standard tarball (on page 16).

In This Chapter

Parallels Business Automation - Standard Distribution	16
Preparing for Installation	16
Installing Parallels Business Automation - Standard	

Parallels Business Automation - Standard Distribution

Parallels Business Automation - Standard is shipped as a tarball.

The unpacked tarball contains the following files and directories:

/packages - the directory containing all the packages necessary for Parallels Business Automation - Standard installation.

install.sh - the Parallels Business Automation - Standard installer.

vps.hspc.conf - the configuration file for Virtuozzo Container to install Parallels Business Automation - Standard. In case you use the Virtuozzo servers, you can create the Container with configuration defined by the vps.hspc.conf and install Parallels Business Automation - Standard in this Container, i.e., use the Container as the Parallels Business Automation - Standard Management Node.

Preparing for Installation

This section outlines specific features of OS installation and certain post-configuration desired for Parallels Business Automation - Standard.

Following the OS Installation Wizard, please choose custom installation and manual disk partitioning. While selecting packages, chose the "server" set (without graphic subsystem).

Important: the same time zones should be selected for Parallels Business Automation - Standard Management Node and Hardware Node(s).

Disk Partitioning

This Section focuses on important peculiarities of disk partitioning while you install OS on the server designated for Parallels Business Automation - Standard. Please, follow the OS installation wizard, and when you come to the disk partitioning, we recommend you to take into account the following:

1. At least root ("/") partition should be created on Management Node.

You can create only root ("/") partition if you do not like lots of slices at your disk, and you also can create dedicated partition for every standard partition.

However, it is recommended to create three partitions ("/", "/var" and swap). It does not matter which type of partition - primary or logical - will be used.

For root ("/") partition at least 10 GB is recommended.

Note: If you are planning to sell Virtuozzo Containers, you will need to install some OS and Application templates on your Management Node. Approximate size of OS template is about 300 MB. Size of Application templates may differ. Thus, if you are planning to have considerable number of different Application templates, you should take care of additional disk space and allocate at least 15 GB for the root ("/") partition.

- 2. The var ("/var") partition will contain all the logs as well as user information, payments, and configuration data in MySQL tables, so at least 8 GB is recommended.
- 3. Size of the swap partition is calculated as double amount of physical memory (not lower than this for computers which suit minimum hardware requirements mentioned above). In general, not greater than 2 GB for swap partition is recommended.

Note: Currently swap size on single partition has 2GB limit. You still able to create 10 GB swap partition, but only 2 GB of it will be really used. So if you need swap bigger than 2 GB, create extra swap partitions."Double RAM" rule for size of swap partition is common rule for Linux OS family. If you have 2 -- 4 GB of physical memory on your computer, there is no need in swap partitions of total size more than 4 GB.

Caution: After disk partitioning it shall be possible to install Operating System on your computer, with at least 1GB free space under "/var" directory.

- 4. It is recommended to use 'ext3fs' as a file system for the Management Node.
- 5. It is quite possible that in future you will have an opportunity to update software. So, it is reasonable to have some spare disk space after installation.

Security and Network Settings

Currently Parallels Business Automation - Standard does not support Security-Enhanced Linux (SELinux). Thus, for OSes that support SELinux, please disable this feature. For more information about SELinux, please refer to the corresponding man pages.

Please, do not forget to select No Firewall on Firewall Configuration screen of OS installation wizard.

In addition, it is recommended to choose static IP address in Network Configuration dialog box.

After this, wait until installation is finished, then reboot the computer.

Services/Daemons to be Enabled

We recommend to disable all the unnecessary services/daemons on the computer that will run Parallels Business Automation - Standard. Otherwise, it will be problematical to ensure appropriate security level to the system. In addition, this will save system resources. The following services shall be up and running:

- crond
- iptables
- network
- ntpd
- sendmail
- sshd
- syslog

Other daemons could be safely disabled. Please use /usr/sbin/ntsysv utility to prevent unnecessary daemons from starting during system startup.

Note: The ports to be opened on the Management Node are enlisted earlier in this guide. In respect to the overall firewall configuration for the Management Node, please, refer to the Linux user documentation.

Time Synchronization

To get the correct time for the purpose of logging and to synchronize clocks between Management Node and Hardware Node(s) that will be managed via Parallels Business Automation - Standard, the ntp daemon shall be up and running on the Management Node.

1. Check if the ntp daemon is installed at your system by executing

rpm -q ntp

If it is not, please install *ntp* daemon either from distribution CD or from any ftp mirror (http://www.ntp.org).

- 2. After ntp daemon installation, edit its default configuration file /etc/ntp.conf.
- 3. Start the ntp daemon:

service ntpd start

4. Add the ntp daemon to automatically started services by executing:

```
chkconfig --level 345 ntpd on
```

5. Make sure that the ntp daemon is running by executing the following commands:

```
ntptrace your_host_name
ntpq -p your_host_name
```

Where your_host_name should be replaced with the hostname of the computer you are installing ntp daemon.

Note: A daemon needs some time to synchronize itself, so do not be anxious about not synchronized message in the output of ntp trace. Try to check it again after installing the rest of RPMs.

Installing Parallels Business Automation - Standard

During installation, the Parallels Business Automation - Standard installer attempts to enable firewall for a server you are installing Parallels Business Automation - Standard. Any previous firewall configurations are rewritten. The default firewall configuration allows connection for the following ports only: SSH, POP3(S), HTTP(S), SMTP, BIND.

To successfully enable firewall, the installer needs both the iptable_filter and the ipt_state modules loaded. If these modules are not loaded, the installer finishes the installation and displays the error message saying: WARNING: Error enabling firewall. Firewall cannot be enabled. Probably you have no 'ipt_state' and/or 'iptable_filter' modules loaded.

To load the necessary iptables modules, you should provide their names as the value of the IPTABLES_MODULES parameter in the /etc/sysconfig/iptables-config file: The default value of this parameter is the following:

The iptable_filter module is loaded by default, thus, add the ipt_state module and save changes.

All the modules indicated will be loaded on the server startup after you reboot it.

Note: If PBAS is installed remotely, it is highly recommended to use Linux Screen for SSH session. This will guarantee the correct work in case of interrupted SSH connection.

Installer log is saved as /tmp/product_installer.log. If installer does not work, look into this log.

The Parallels Business Automation - Standard installer can be ran in two modes:

- Unattended, when you just run installer and wait for installation completion. Unattended installation mode supposes installation of the typical Parallels Business Automation Standard configuration (dummy plug-ins and one language pack English). When installation is finished the default login and password will be shown on the screen.
- Interactive mode that includes the following steps:
 - Installer greeting screen:

Welcome to Parallels Business Automation - Standard Inst...

Parallels has developed this installer to assist you with installing or upgrading the Parallels Business Automation -Standard software at your server. Parallels Business Automation - Standard is the most comprehensive hosting automation solution that covers a full business life cycle and allows managing hardware, OSs, applications, backups, IP pools, customers, resellers, e-commerce storefronts and customer payments, - all from a single system. Parallels Business Automation - Standard provides a very powerful and extremely flexible billing system fully integrated with automated account provisioning capable of managing tens of thousands accounts. In addition, Parallels Automation - Standard allows managing the industry's leading Virtuozzo Container (Parallels Virtuozzo Containers) and Shared Hosting (Parallels Plesk Control Panel) platforms.

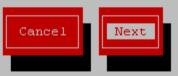
IMPORTANT NOTES:

New installations of Parallels Business Automation - Standard are to be performed on clean servers only, that is, only the Operating System with the Networking option is to be installed for new installations.

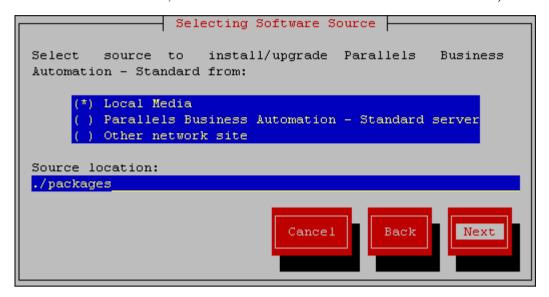
This installer can also be used to upgrade existing product installations to the latest versions. We strongly recommend that the system must be backed up before upgrading your software.

Parallels, Inc. will not be held liable for damages resulted from installing Parallels Business Automation - Standard on a server running any other software than a fresh installation of the Operating System prepared for Parallels Business Automation - Standard. By using this installer you accept the Terms and Conditions declared at http://www.parallels.com/en/company/terms/ and the Parallels Business Automation - Standard End Users License Agreement.

Installation process is logged to /tmp/product installer.log.



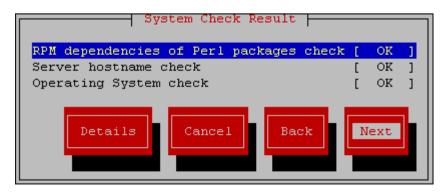
Selecting the Parallels Business Automation - Standard RPMs source (install from your local computer, download the Parallels Business Automation - Standard RPMs from the remote server via FTP, or download the needed RPMs from other network site).



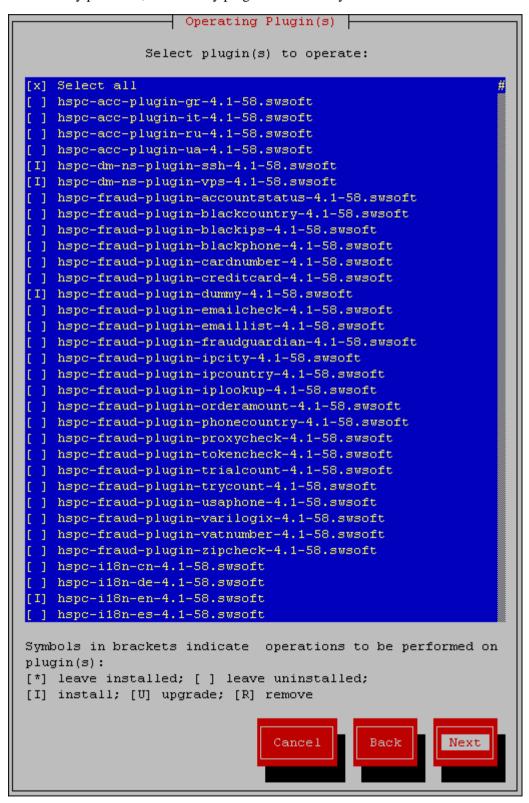
- After this, the Installer downloads the distribution files. It will take some time, the progress bar shows the files download process.
- Select the Parallels Business Automation Standard version (if several versions are available in the given distribution you will be prompted and offered to select a version).



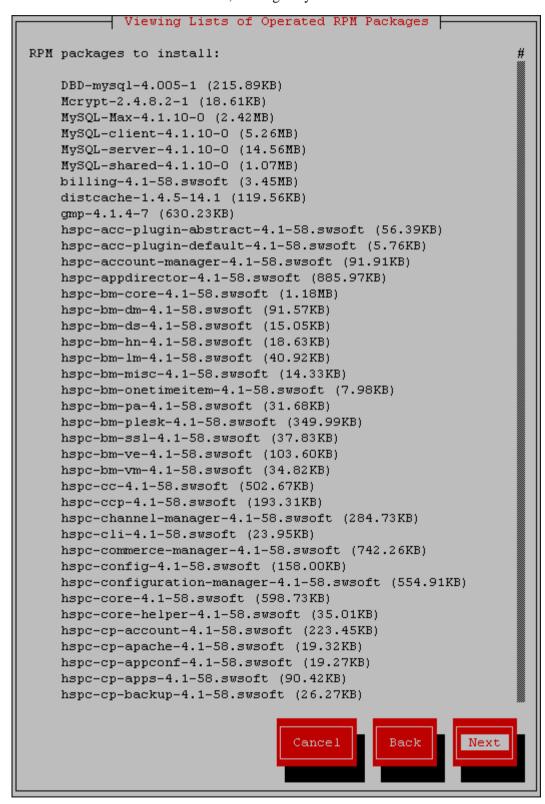
 As you have selected the version, the Installer checks the server the Parallels Business Automation - Standard is to be installed. To view additional information, press the Details button:



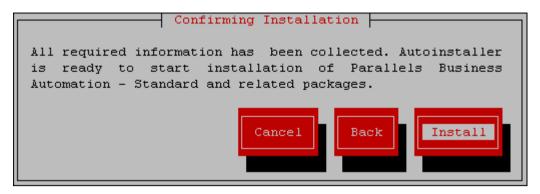
• Select which plug-ins to install. If you miss some of the desirable plug-ins, this does not make any problems, because any plug-in can be easily installed later:



• The Installer checks dependencies for the selected RPMs and in case no errors detected, shows the list of RPMs selected., waiting for your confirmation:



Confirm RPMs selection and start installation:



• Wait till installation is finished. View the message about successful installation and get default login credentials. The e-mail is to be used as login. Please carefully read the instructions and notes at the Installation Result screen before you press the Finish button.

To install the Parallels Business Automation - Standard:

- 1. Upload the Parallels Business Automation Standard tarball to the computer designated for your Management Node.
- 2. Unpack the archive:

Note: In the actual command, below and later in this step-by-step procedure the X should be replaced with a build number.

tar -xvf hspc-4.1-X.tar

3. Change the working directory into the default installer location:

cd hspc-4.1-X

- 4. Start the Parallels Business Automation Standard installation in one of the two modes:
 - For unattended mode (no additional participation from your side is needed, the Parallels Business Automation Standard installer will do everything by itself) run the command:

./install -C

• For interactive mode (the Parallels Business Automation - Standard installer will ask some questions you should answer to proceed with installation), run the command:

./install

5. Wait until installation is finished and clean up the installer:

rm -rf hspc-4.1-X

The Parallels Business Automation - Standard installer automatically sets the default login and password for you to log in to the Provider Control Center. Your login and password appear on the screen after installation is finished and, in addition, are sent to the default e-mail address shown at the Installation Result screen. Default login and password are also saved in installer log /tmp/product_installer.log.

After the necessary modules are loaded you can continue the firewall configuration process by running the following command:

/usr/sbin/hspc-config --firewall

If it is needed to change the Parallels Business Automation - Standard Management Node hostname after the installation, you can also do this using the hspc-config utility. However before this it is necessary to change the hostname using the Unix command hostname. The hspc-config utility only updates the hostname you have set in the Parallels Business Automation - Standard and Apache configuration files.

The hspc-config utility can be used for the following operations:

Usage: hspc-config OPTION [OPTION1]...

Options:

Option	Description

admin-create	Create administrator
admin-passwd password	Set administrator password
admin-email email	Set administrator e-mail address
apache-conf	Create apache configuration files
hspc-conf	Create Parallels Business Automation - Standard configuration file
firewall	(Re)enable firewall using iptables
sql-password	Generate new MySQL root password
reset-hostname	Reset the Parallels Business Automation - Standard Management Node hostname. Actually, the Management Node hostname is changed using the Unix command hostname. And this parameter works in the same way ashspc-conf andapache-conf, i.e., resets the Management Node hostname in Parallels Business Automation - Standard and Apache configuration files.
help	Get manual on hspc-config.

Start Working

This Chapter describes how to start the first Parallels Business Automation - Standard session. To get started, log in to the Provider Control Center first.

In This Chapter

Browsers Compatible with Parallels Business Automation - Standard	. 27
Connecting to Parallels Business Automation - Standard Browser-Based Tools	
Initial Settings	. 29

Browsers Compatible with Parallels Business Automation - Standard

The following browsers are fully compatible with Parallels Business Automation - Standard web-based tools:

- Firefox 3.6 and above
- Microsoft Internet Explorer 7 and above
- Safari 5.0 and above for Mac
- Google Chrome 8.0 and above

Note 1: Pop-up blocking in your browser should be disabled.

Note 2: Session and permanent cookies in your browser should be enabled.

Connecting to Parallels Business Automation - Standard Browser-Based Tools

To connect to the Parallels Business Automation - Standard tools, enter into your browser the Management Node hostname and append the tool index (http://hostname/index):

Tool	Tool index
Public Site	
Online Store	

Provider Control Center	pcc
Reseller Control Center	rcc
Customer Control Panel	ср

The SSL protocol can be enabled from Provider Control Center, separately for each of Parallels Business Automation - Standard web-based tools. The SSL configuration is available both in Provider and Reseller Control Centers.

Your first Parallels Business Automation - Standard session starts from the Provider Control Center. After you make some initial settings to Parallels Business Automation - Standard, you can log in to any of the other tools.

After you connect to the Parallels Business Automation - Standard Provider Control Center, you will be prompted for login and password. Enter the default login and password generated by the Parallels Business Automation - Standard installer. The default is an e-mail like root@your_management_node_hostname (in actual login your_management_node_hostname must be replaced with an actual hostname of the computer that runs Parallels Business Automation - Standard, i.e., the Management Node) and the password is generated in a random way by the Parallels Business Automation - Standard installer.

Initial Settings

When you log in to Parallels Business Automation - Standard Control Center for the first time, the Initial Setup Wizard will help you to make the settings required for Parallels Business Automation - Standard initial configuration.

The Wizard starts with the User Agreement approval and then step-by-step helps you to make the basic initial settings that form the working background for the Parallels Business Automation - Standard Control Center.

We shortly describe the basic steps of Initial Setup to help you understand how the settings made by you will be used, why they are important and how you can adjust these settings later.

Person & Account. Adjusting your Hosting Company Requisites and Making System-Wide Regional Settings

The correct and fully specified administrative account contacts are important, for example for successful domains registration requested for your own using the Parallels Business Automation - Standard domain registration plug-ins since this information is usually passed to domain registrars via plug-in interface. Later you can adjust your administrative account profile by clicking the topmost menu item in the left frame of Provider Control Center and selecting the Company Profile or Contacts tab.

The default language is used by default in your online store. Default time zone is applied to new accounts created in store by your customers. The first day of week used in billing reports. The default currency setup is important for billing. Later you can change these settings in Configuration Director > Miscellaneous Settings > Regional Settings.

License. Installing Parallels Business Automation - Standard License

The Parallels Business Automation - Standard Licence defines:

- The number of users registered in your administrative account (your staff members) that can concurrently log in to the Provider Control Center.
- The maximal number of reseller accounts you can register.
- The maximal number of customer accounts you can register.

Parallels Business Automation - Standard trial license is shipped together with Parallels Business Automation - Standard distribution. You can install the real license during Initial Setup or later, using the Configuration Director > License Manager.

Data Center. Setting Up Domains Registration

This step of Initial Setup allows you to configure the testing environment for domains registration and allocate IP addresses. More IP addresses (IP pools) can be registered in Service Director > IP Manager.

The default domain is allowed for subdomains registration in your online store.

Parallels Business Automation - Standard offers more than 20 domain registration plug-in templates and you can configure domain pug-ins later in Service Director > Domain Manager.

More name servers cane be registered later in Service Director > Domain Manager.

Allocate IP pools for the basic types of hosting plans. IP addresses allocation can be adjusted later under Service Director > IP Manager.

Billing. Setting Up Billing System

The initial billing settings include:

- Setting the default settlement conditions for customers. Settlement conditions are defined by credit terms. Credit terms are set per account. The default credit terms are assigned by default to accounts created by your customers from your online store. Later you can add more credit terms using the Account Director > Subscription Manager > Credit Terms. Settlement conditions for resellers are defined by a special complex setting called Partner Level. Partner level define both credit terms and a special reseller discount. Partner levels are assigned per reseller account and can be added later using the Billing Director > Discount Manager > Partner Levels.
- Business Automation Standard can be assigned either by a customer country or an account. Tax rates (one or more) are grouped by tax zones. Tax zone holds the information about a customer country (specified in a customer account profile) or account(s) to apply tax rates specified for this tax zone. The default tax zone matches all accounts/countries that do not have any special tax zone defined. Please note that for the fresh installation the default tax zone is already created and the initial setup offers you to set up to two tax rates for the default tax zone. Later you can add more tax rates and create more tax zones as well as set up tax exemption using the Billing Director > Taxation Manager.
- Setting up credit cards and bank accounts processing. To process delayed online payments, use recurring payments, and store bank accounts data (to generate batches) you must configure encryption, i.e., upload a key pair. The Initial setup allows generating a self-signed key pair, which is enough for testing. Later you can upload the signed keys using the Commerce Director > Payment Processing > Secure Storage.

Warning: If you are planning to use the self-signed keys for some time, it is strongly recommended to save the keys so you could upload them in case the keys will be unintentionally wiped out or corrupted. You can do this on the next step of Initial Setup.

Creating sample hosting plans of the basic types. Sample hosting plans creation allows you
to save time and start system testing immediately after completing the initial setup. You can
add new hosting plans in the Billing Director > Product Manager > Hosting Plans.

Store & Site. Making Basic Website Settings

- Interface Setup. Skin is palette and images used for interface. Select the default skin that will pre-fill the relevant field in the New user forms (a skins is a personal setting and is assigned per registered user) and will be applied to your online store and other website pages. Later you can upload more images and files you would like to publish at your website using the Marketing Director > Site Manager. In addition, the standard set of images used in the Parallels Business Automation Standard interface can be updated using the Marketing Director > Brand Manager > Skins. Files and images can be uploaded using the Images and Files option under the Brand Manager.
- Store Setup. You can open the online store right away. To this effect, check the Store is open box. Later you can open/close the store, adjust hosting plans listing, and enter a referral question using the Commerce Director > Store Manager > Configure Store. Later you can also upload files and images using the File Manager located under the Store Manager. Other store customization is done by editing store files (please refer to the Parallels Business Automation Standard SDK for details).

Trouble Ticketing

Parallels Business Automation - Standard provides an integrated trouble ticketing system that allows reporting and answering customers' problems directly through the interface and by email.

The Initial Setup Wizard allows configuring the built-in Trouble Ticket System.

If you do not want to use the built-in trouble ticket system or you need some additional helpdesk features not supported by the built-in system, you can use one of the external helpdesks integrated with Parallels Business Automation - Standard:

- Cerberus Helpdesk or
- Kayako SupportSuite.

The API provided (see the Parallels Business Automation - Standard SDK for details) allows you to integrate more external helpdesks.

Installing Parallels Business Automation - Standard in Parallels Virtuozzo Container

If you use the Parallels Virtuozzo Containers servers at your Data Center, you can successfully install Parallels Business Automation - Standard in one of Virtuozzo Containers. In this guide, we describe the installation only in general.

Note: Please, refer to the Parallels Virtuozzo Containers user documentation for detailed information about any aspects connected with Parallels Virtuozzo Containers installation and Containers creation.

During installation, the Parallels Business Automation - Standard installer attempts to enable firewall for a Container you are installing Parallels Business Automation - Standard on. Any previous firewall configurations are rewritten. The default firewall configuration allows connection for the following ports only: SSH, POP3(S), HTTP(S), SMTP, BIND. To successfully enable firewall, the installer needs the iptable_filter and ipt_state modules loaded.

The needed iptables modules will be loaded to Containers only in case they are also loaded on a PVC server that hosts a Container, for more details see KB Article 9630 (http://kb.parallels.com/en/9630) and KB Article 746 (http://kb.parallels.com/en/746).

To load the needed iptables modules the vzctl command can be used. Loading a new set of iptables modules does not happen on the fly. You should restart the Container for the changes to take effect.

To install Parallels Business Automation - Standard in Virtuozzo Container:

- 1. Install OS on the server (Hardware Node) intended to run Parallels Virtuozzo Containers.
- 2. Install Parallels Virtuozzo Containers on the Hardware Node as this described in the corresponding Parallels Virtuozzo Containers user documentation.
- 3. Create Virtuozzo Container where you will install Parallels Business Automation Standard. The configuration file that defines all the parameters for such Container is included in the Parallels Business Automation Standard tarball (on page 16). Please do not forget to set the root password, IP address, and hostname for the Management Node Container.

Note 1: You can select any numerical identifier for the Management Node Container. However, we recommend to select the ID within the so-called "service" range from 10 up to 99 (better 99 and lower) to avoid unintentional corruption of Management Node Container from Parallels Business Automation - Standard tools, since Containers with IDs within the service range are not visible from the Parallels Business Automation - Standard web-based interface.

Note 2: After you select the Management Container ID, and before you create Container for PBAS, please do not forget to rename the configuration file shipped with Parallels Business Automation - Standard into the VE_ID.conf where the VE_ID should be replaced with the actual numerical ID of the Management Node Container. For example, if Container ID will be 89, then configuration file will be 89.conf

- 4. Upload the Parallels Business Automation Standard tarball in the Container created on PVC server.
- 5. Unpack Parallels Business Automation Standard tarball.

Note: It is not recommended to run PBAS installer being logged in Container using vzctl enter command. Log in to Container via SSH and run installer from SSH session.

6. Run the Parallels Business Automation - Standard installer as this described earlier in this guide (on page 19).

Getting Technical Support

An Overview of Parallels Technical Support

Parallels provides installation assistance for Parallels Business Automation - Standard. Assistance with installation is offered via e-mail.

Parallels Support team will attempt to answer any relevant questions you may have before the installation process is initiated. This includes the following:

- Pre-requisites list;
- Hardware compatibility;
- Software compatibility.

Questions for Technical Support

In most cases, support team must rely on customer observations and communications with the customer in order to diagnose and solve the problem. Therefore, the detailed problem report is extremely important. Please, do mention the following:

- Symptoms of the problem;
- When the problem began including the circumstances of the failure;
- Any changes you made to your system;
- Other information that may be relevant to your situation, such as the installation method;
- Specific hardware devices that may be relevant to your problem.

In This Chapter

How to Send Support Questions

Please, send your questions to support team by http://www.parallels.com/support/request/.

If you need to contact us - information about phone numbers, contact persons and office addresses is available on the contact page at http://www.parallels.com/en/contact/.

Index

Network Pre-Requisites • 13

A	P
About Parallels Business Automation - Standard • 8 About This Guide • 5	Parallels Business Automation - Standard Deployment • 9 Parallels Business Automation - Standard Distribution • 16 Preface • 4
B	
Browsers Compatible with Parallels Business Automation - Standard • 27 Connecting to Parallels Business Automation - Standard Browser-Based Tools • 27 Copyright Notice • 2	Preparing for Installation • 16 S
	Security and Network Settings • 17 Services/Daemons to be Enabled • 18 Start Working • 27 T Terms and Abbreviations • 6
Disk Partitioning • 16	Time Synchronization • 18 Typographical Conventions • 4
Feedback • 5	
G	
Getting Technical Support • 34	
Н	
Hardware And Software Requirements • 12 How to Send Support Questions • 34	
Initial Settings • 29 Installation Instructions • 15 Installation Requirements • 11 Installing Parallels Business Automation - Standard • 19 Installing Parallels Business Automation - Standard in Parallels Virtuozzo Container • 32	
L	
Licensing Issues • 10	
N	