# Parallels

## Parallels Remote Application Server

Parallels Client for Windows User's Guide

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### Chapter 1

### **Getting Started**

Parallels Client for Windows is an app that allows you to connect to Parallels Remote Application Server from a Windows computer.

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### System Requirements

Before installing Parallels Client on your Windows computer, please make sure that your system meets the following requirements:

- Windows XP SP3, Vista, Windows 7, Windows 8, Windows 10.
- The same hardware requirements as specified by Microsoft for the above versions of Windows.
- Some features (high color graphics, sound, etc.) will only be available if your Windows computer has the appropriate hardware installed and is properly configured.

### Installing Parallels Client Using an Invitation Email

Your Parallels RAS administrator will send you an invitation email with the instructions on how to install Parallels Client for Windows and configure a Parallels RAS connection. The invitation email will contain the following information and action links:

- A message from your system administrator.
- A link to download Parallels Client for Windows (links to Parallels Client for other platforms may also be included if you are using other devices in addition to a Windows computer).
- A link to automatically configure Parallels Client on your computer, so you can connect to the Parallels Remote Application Server.
- Parallels Remote Application Server connection properties. You can use this information to manually create a Parallels Remote Application Server connection. The automatic configuration via the link (see above) is the preferred and the easiest method, but you can use this information to create a connection manually if needed for any reason.

#### **Install Parallels Client for Windows**

To install Parallels Client for Windows using an invitation email:

- 1 Make sure you are logged into your computer as a user with administrative privileges.
- **2** In the invitation email, click the Windows thumbnail to download Parallels Client for Windows installer.
- 3 When the download is complete, go to your download folder and run the ClientDownloader.exe file that you just downloaded. This is actually a small utility that detects the version of Windows that you are running and then downloads the appropriate Parallels Client for Windows installer.
- 4 When the download is complete, the Parallels Client installation wizard will automatically start.
- 5 On the Welcome page of the installation wizard, click Next.
- 6 Accept the License Agreement and click Next.
- 7 Select the folder where you want to install Parallels Client and click Next.
- 8 The SSO Installation page will be skipped when installing Parallels Client on a Windows Server operating system. On all other supported versions of Windows, it will be shown. Use the page to specify whether you want to install the **Single Sign-On** component. The component will automatically use your credentials to connect to Parallels Remote Application Server. Please note that for the component to work, you will need to reboot your computer (or log off and then log on again) after the installation.
- 9 Click Next.
- 10 On the Ready to Install page, click Install.
- **11** Once the installation is complete, click **Finish** to close the wizard.

You now need to configure Parallels Client, so it can connect to Parallels Remote Application Server. The invitation email that you received from your system administrator includes a link that can accomplish this task automatically. Please follow the instructions below to configure Parallels Client.

### **Configure Parallels Client for Windows**

To configure Parallels Client:

1 In the invitation email, find the **Configure** section and click the **Click Here to auto configure the downloaded client** link.

2 The link will open in a web browser after which you should see the following dialog:

This link needs to be opened with an application. Send to:
TSClient Application
Choose an Application <u>C</u> hoose
Remember my choice for tuxclient links.
OK Cancel

**3** Make sure the **TSClient Application** item is selected and click **OK**. This will configure Parallels Client for Windows and then will display the **Logon** screen.

🗊 Logon - 10.211.55.4	4 (My RAS Connection) X
	Parallels"
Authentication Type: User Name: Password:	Credentials  usernane  Save Password
	Connect Cancel Options >>

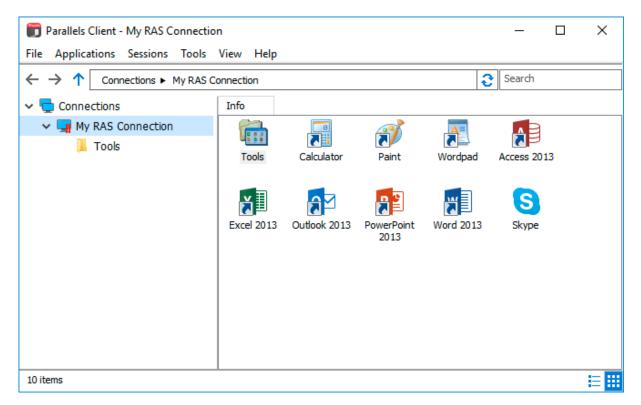
- 4 Select the Authentication Type from the following:
  - **Credentials**. Select this option to connect to Parallels Remote Application Server by supplying your credentials, such as your domain user name and password.
  - **Smart card**. Select this option to connect to Parallels Remote Application Server using a smart card.
  - **Single Sign-On**. This option will be included in the list only if the Single Sign-On module is installed during Parallels Client installation. Select this option to use local system credentials to connect to the remote server.

**Note for Administrators:** The allowed authentication type(s) must be specified in the RAS Console in **Connection** / **Authentication**.

**5** Depending on the authentication type selected, type your user name and password or insert a smart card into a reader. If using a smart card, enter a PIN when prompted.

#### 6 Click Connect.

You should now see the main **Parallels Client** window. The left pane of the window displays the connection that was automatically configured for you. The right pane displays published resources that you can use.



Double-click a resource to open it. The resource will open in a separate window on your local computer as if it was a local application or a document (or a remote desktop if one is available as a published resource).

### Installing Parallels Client Manually

The preferred method of downloading and installing Parallels Client for Windows is via an invitation email as described in the previous section. If you would like to download and run the installer manually, please use the following URLs:

- 32 bit version: http://download.parallels.com/ras/v15.5/RASClient.msi
- 64 bit version: http://download.parallels.com/ras/v15.5/RASClient-x64.msi

To install Parallels Client for Windows:

- 1 Make sure you are logged into your computer as a user with administrative privileges.
- 2 Run the Parallels Client installer that you've downloaded from the Parallels website.
- 3 On the Welcome page of the installation wizard, click Next.
- 4 Accept the License Agreement and click Next.
- 5 Select the folder where you want to install Parallels Client and click Next.
- 6 The **SSO Installation** page will be skipped when installing Parallels Client on a Windows Server operating system. On all other supported versions of Windows, it will be shown. Use the page to specify whether you want to install the **Single Sign-On** component. The component will automatically use your credentials to connect to Parallels Remote Application Server. Please note that for the component to work, you will need to reboot your computer (or log off and then log on again) after the installation.
- 7 Click Next.
- 8 On the Ready to Install page, click Install.
- **9** When the installation is complete, click **Finish** to close the wizard and start Parallels Client for Windows.

### Connecting to Parallels Remote Application Server

After you manually install Parallels Client and run it for the first time, you'll be asked if you would like to configure a new connection. Click **Yes**. This will open the **New connection** dialog.

New connection		?	×
	Parallels"		
Server:	192.168.1.10		
Connection mode:	Gateway SSL Mode		~
Friendly Name:	My RAS Connection		
Advanced settings >			ОК

Your system administrator should give you the connection information that must be specified in this dialog. If you received an invitation email from your administrator, you can find this information at the bottom of the message. The information will look similar to the following:

To manually configure the RAS Connection, use the following settings:

Server: 192.168.1.10 Port: 443 Connection Mode: Gateway SSL Mode

To specify the connection properties:

- 1 In the **Server** field, enter the Parallels Remote Application Server IP address or hostname (this should be the server where the RAS Secure Client Gateway resides).
- 2 In the **Connection mode** field, select one of the following options (note that you should use the mode that your system administrator has asked you to use):
  - **Direct Mode**. Parallels Client first connects to the RAS Secure Client Gateway for the best available terminal server and then connects directly to that server. This is best used when the Parallels Client and the terminal server reside on the same network.
  - Direct SSL Mode. Same as the direct mode above, but uses encryption to secure the data.
  - **Gateway Mode**. Parallels Client connects to the RAS Secure Client Gateway and the session connection is tunneled through the first available connection. This mode is ideal for servers that are only reachable via the gateway and do not require a high level of security.
  - Gateway SSL Mode. Same as the gateway mode above, but uses encryption to secure the data.
- 3 In the **Friendly name** field, choose and type a friendly name for this connection.
- 4 If your system administrator told you to specify the port number, do the following:
  - a Click the Advanced settings link. The Connection Properties dialog opens (see the screenshot below).
  - **b** Specify the port number in the **Port** field.
  - **c** You can also review and modify other properties if you wish. More on these later in this guide.

**d** The **[...]** button next to the **Primary Connection** field allows you to select a Parallels RAS server (this will only work if the **Broadcast RAS Secure Client Gateway Address** option has been enabled on the server side).

Connection P	rope	erties - My R/	AS Cor	nectio	n		?		×
Experience	e	Network		Authen	tication	Adv	anced S	etting	s
Connection	۱	Display	Prin	ting	Scanning		Local Re	source	es
Connectio	on Se	ettings							
	Prir	nary Connecti	ion:	192.1	68.1.10				
	Cor	nnection Mode	2:	Gatew	ay SSL Mod	e		$\sim$	
	Por	t:		443					
				S	econdary C	onnect	ions		
	Frie	endly Name:		My RA	AS Connecti	on			
Logon		Auto Logon							
	Aut	thentication T	ype:	Crede	ntials			$\sim$	
	Use	ername:							
	Pas	sword:							
				🗹 Sav	e Password				
	Dor	main:							
				ОК	С	ancel		Help	

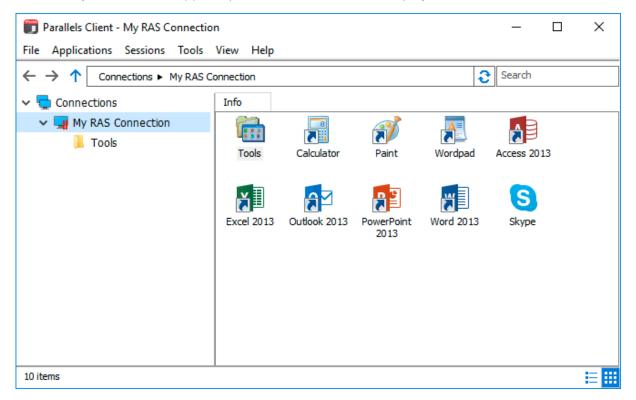
5 Click OK. The Logon dialog opens.

👕 Logon - 10.211.55.4	4 (My RAS Connection) X
	Parallels"
Authentication Type: User Name:	Credentials ~
Password:	Save Password
	Connect Cancel Options >>

- 6 In the Authentication type drop-down list, select the desired method of authentication:
  - **Credentials**. Select this option and then enter your username and password. You will be authenticated on the remote server using the specified credentials.
  - Smart Card. Select this option to authenticate using a smart card. When connecting to the remote server, insert a smart card into the card reader and then enter a PIN when prompted.
  - Single Sign-On. This option will be included in the list only if the Single Sign-On module is installed during Parallels Client installation. Select this option to use local system credentials to connect to the remote server

**Note for Administrators:** The allowed authentication type(s) must be specified in the RAS Console in Connection / Authentication.

7 Click **Connect**. If the connection is successful, you'll see the main **Parallels Client** window where your connection(s) and published resources are displayed.



### Advanced Parallels Client Installation

**Note:** This section is intended for IT Administrators. If you are not an IT administrator in your organization, you may skip it.

The Parallels Client for Windows installer uses the MSI format. This enables you to deploy it remotely using Group Policies or any other deployment tool that can work with MSI installers.

There are two ways to modify the client installation settings:

- Modify the original file using Orca.exe.
- Run the installer from the command line: msiexec.exe /i RASClient.msi (or RASClient-x64.msi if using a 64 bit version)

#### Silent Install

To perform a silent install, run the following command:

```
msiexec.exe /qn /i RASClient.msi
```

In the command above, specify RASClient-x64.msi if using a 64 bit version of Parallels Client for Windows.

#### **General Settings**

When running an installation command specified above, you can pass the following properties to msiexec.exe using the PROPERTY=VALUE notation:

DEFSETTINGS: To use when Parallels Client installer reads 2xsetting.2xc (the file containing all settings to be used by the client) as default settings.

DEFSETTXML: To use when XML settings are entered manually.

OVERRIDEUSERSETTINGS: To override the user settings with client MSI settings.

- 0 Client settings are not overridden
- 1 Client settings are overridden with the new settings of the Client MSI setup.

DISABLEOPTIONS: To disable the **Options** button and hide the options to configure the client settings. This option can be applied to users without administrative rights.

- 0 Options are enabled
- 1 Options are disabled

DISABLEOPTIONSADMIN: To disable the **Options** button and hide the options to configure the client settings. This option can be applied to users with administrative rights.

DISABLESAVEPASSWORDADMIN: To disable the clients from saving the password even if they have administrative rights.

- 0 Option to save password is enabled
- 1 Option to save Password is disabled

DISABLESAVEPASSWORD: To disable the clients from saving the password. This option is ignored with users with administrative rights.

- 0 Option to save password is enabled
- 1 Option to save Password is disabled

TUXGINA: Exclude/Include SSO during a silent installation

- 0 Install SSO
- 1 Exclude SSO
- 2 Prompt during installation [Default]

TUXGINASRV: Install SSO on both Client and Server

• 0 - Install SSO only on the Client

• 1 – Install SSO on both Client and Server

#### **Using Active Directory**

There are two different ways that you can deploy an application through Active Directory. You can either publish the application or you can assign the application.

You can publish applications to users only, but you can assign applications to either users or computers. The applications are deployed in different ways, depending on which method you decide to use.

Parallels recommends that administrators assign the applications to COMPUTERS. The main reason is that the application is actually installed the next time the computer reboots.

When assigning to users, the application is not installed until the user actually clicks on the icons created for the application.

To assign an application to certain computers, simply do the following in Active Directory:

- **1** Open the Group Policy Editor.
- 2 To assign an application to a computer, navigate through the group policy console to Computer Configuration / Software Settings / Software Installation. Right-click the Software Installation container and click New > Package in the context menu. Select the appropriate MSI file and click Open. You are now asked whether you want to publish or assign the application. Select Assign and click OK.

Please note that when doing a silent installation, the MSI can be deployed using the following syntax (for the 64 bit version, use RASClient-x64.msi):

msiexec /qn /i RASClient.msi

The following sample command installs Parallels Client using the DISABLESAVEPASSWORD=0 option (enable the ability to save the password) while skipping the SSO installation:

msiexec /qn /i 2XClient.msi DISABLESAVEPASSWORD=0 TUXGINA=1

### CHAPTER 2

### Using Parallels Client for Windows

Read this chapter to learn how to set up Parallels RAS connections, configure preferences, and use Parallels Client to launch remote applications and desktops.

### **In This Chapter**

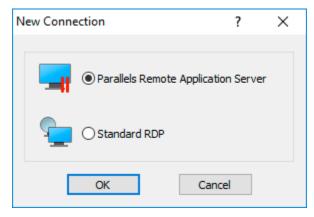
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### Adding a New Connection

Parallels Client for Windows allows you to have more than one connection, so you could easily connect to different servers or using different connection properties, etc.

To add a connection:

- 1 Open Parallels Client by clicking Start > All Apps > Parallels > Parallels Client (or doubleclick the Parallels Client icon on your desktop).
- 2 In the main Parallels Client window, click the File > New Connection menu item. The New Connection dialog opens.



- **3** Specify a connection type that you want to create:
  - Remote Application Server. Create a Parallels Remote Application Server connection.
  - **Standard RDP**. Create a standard Remote Desktop connection. This option allows you to connect to a computer on your network that accepts standard Remote Desktop connections.
- 4 Click OK.
- **5** On the next dialog, specify connection properties:

New connection		?	×
	Parallels®		
Samueru	192, 168, 1, 10		
Server:			
Connection mode:	Gateway SSL Mode		~
Friendly Name:	My RAS Connection		
Advanced settings >			ОК

When creating a Remote Application Server connection, your system administrator should give you the connection information that must be specified in this dialog. If you received an invitation email from your administrator, you can find this information at the bottom of the message. The information will look similar to the following:

To manually configure the RAS Connection, use the following settings:

Server: 192.168.1.10 Port: 443 Connection Mode: Gateway SSL Mode

When creating a Standard RDP connection, you need to know the IP address or hostname of the remote computer you want to connect to.

- 6 In the **Server** field, enter the Parallels Remote Application Server IP address or hostname (this should be the server where the RAS Secure Client Gateway resides). If creating a Standard RDP connection, specify the remote computer IP address or hostname.
- 7 The **Connection mode** drop-down list is enabled only when creating a Remote Application Server connection. Select one of the following options (note that you should use the mode that your system administrator has asked you to use):
  - **Direct Mode**. Parallels Client first connects to the RAS Secure Client Gateway for the best available terminal server and then connects directly to that server. This is best used when the Parallels Client and the terminal server reside on the same network.

- Direct SSL Mode. Same as the direct mode above, but uses encryption to secure the data.
- **Gateway Mode**. Parallels Client connects to the RAS Secure Client Gateway and the session connection is tunneled through the first available connection. This mode is ideal for servers that are only reachable via the gateway and do not require a high level of security.
- Gateway SSL Mode. Same as the gateway mode above, but uses encryption to secure the data.
- 8 In the **Friendly name** field, choose and type a friendly name for this connection.
- **9** The Advanced settings link opens the Connection Properties dialog where you can specify additional connection properties. For more information, please see Configuring a RAS Connection (p. 18) or Configuring an RDP Connection (p. 29).
- 10 Click OK to create a connection.

### Configuring a RAS Connection

To view and modify the properties of an existing Remote Application Server connection, right-click it in the main Parallels Client window and then click **Connection Properties** in the context menu. This will open the **Connection Properties** dialog. Properties are grouped in the dialog by functionality using tab pages. The following subsections describe each tab page in detail.

### Connection

The **Connection** tab page allows you specify connection properties and logon information.

		erties - My R/	43 COI				1	•	2
Experience		Network		Authen	tication	Ad	vanced	Settir	ngs
Connectio	n	Display	Prin	ting	Scanning		Local R	esour	ces
Connect	ion Se	ettings							
	Prin	nary Connecti	ion:	192.1	.68.1.10				
	Cor	nnection Mode	2:	Gatev	vay SSL Mod	le		~	
	Por	t:		443					
				S	econdary C	onnect	tions		
	Frie	endly Name:		My R/	AS Connecti	on			
Logon									
<b>A</b>		Auto Logon							
- 🏅	Aut	thentication T	ype:	Crede	ntials			$\sim$	
	Use	ername:							
	Pas	sword:							
				🗹 Sav	e Password				
	Dor	nain:							
				ОК		ancel		He	

### **Configuring the Primary Connection**

On the **Connection** tab page, you can define a primary connection and one or more secondary connections.

The primary connection is what Parallels Client will use first to connect to the specified server. This should be the server where the primary RAS Secure Client Gateway is running.

To specify the primary connection information:

1 In the **Primary Connection** field, specify the server name or IP address. You can click the [...] button and select a server from the list. If the server is not listed, it means that the system administrator disabled this functionality on the server side. In such a case, specify the server by typing its name or IP address in the **Primary Connection** field.

Note for Administrators: The Broadcast RAS Secure Client Gateway Address option must be enabled on the server side for the [...] button to display the server.

- 2 In the **Connection Mode** drop-down list, select one of the following options:
  - Gateway Mode: Parallels Client connects to the RAS Secure Client Gateway and the session connection is tunneled through the first available connection. This mode is ideal for servers which are only reachable via the gateway and do not require a high level of security.
  - Gateway SSL Mode: Same as the gateway mode above, but uses encryption to secure the data.
  - **Direct Mode:** Parallels Client first connects to the RAS Secure Client Gateway for the best available terminal server and then connects directly to that particular server. This is best used when the Parallels Client and the terminal server are on the same network.
  - Direct SSL Mode: Same as the direct mode above, but uses encryption to secure the data.
- 3 In the **Port** field, specify the port on which the gateway listens for incoming connections. If the default value has been modified on the server side, you have to replace the default value here as well. Otherwise, leave the default value intact.
- 4 In the **Friendly Name** field, choose and type a name of your choice, so you could easily identify the server in Parallels Client later.

### **Configuring a Secondary Connection**

If the server you are connecting to has more than one RAS Secure Client Gateway, you can define a secondary connection, which will be used as a backup connection in case the primary connection fails.

To add a secondary connection:

- 1 Click the **Secondary Connections** button.
- 2 In the Secondary Connections dialog, click the Add button and specify a server name or IP address. This should be a server hosting a secondary RAS Secure Client Gateway (the primary gateway is used by the primary connection). You can click the [...] button and select a server from the list. If none are available (or if the desired server is not in the list), type the server info in the field provided.
- 3 Select the connection mode and modify the port number if necessary. Click OK.
- **4** Back in the **Secondary Connections** dialog, you can move connections up or down the list if you have more than one. If the primary connection cannot be established, Parallels Client will use secondary connections in the order listed.
- 5 Click OK.

### Configuring the Logon Information

In the Logon section, specify the following properties:

- 1 Select the **Auto Logon** option to enable Parallels Client to connect automatically (using this connection) on startup.
- 2 In the Authentication type drop-down list, select the desired method of authentication:
  - **Credentials:** Select this option and then enter the username, password, and domain information. You will be authenticated on the remote server using the specified credentials.
  - Smart Card: Select this option to authenticate using a smart card. When connecting to the remote server, insert a smart card into the card reader and then enter a PIN when prompted.
  - **Single Sign-On:** This option will be included in the list only if the Single Sign-On module is installed during Parallels Client installation. Select this option to use local system credentials to connect to the remote server.

**Note for Administrators:** The allowed authentication type(s) must be specified in the RAS Console in **Connection** / **Authentication**.

**3** Specify your username, password, and the domain name. The **Save Password** option allows you to save your password, so you don't have to enter it every time you connect to the server.

### Display

The **Display** tab page allows you to configure display options.

Experience	Network	Auther	ntication	Advanced S	Settings
Connection	Display	Printing	Scanning	Local Re	sources
General Option	IS				
Color Depth:	High C	Color(16 bit)		~	
Size:	Full Sc	reen		~	
	Width:		Height	:	
🗹 Use all m	onitors for De	sktop session	(if applicable)	)	
Published Appli	ary monitor or	nly			
Desktop Optior	ns				
Smart-siz	ing				
Embed de	esktop in laun	cher			
Span des	ktop across a	ll monitors			
	onnection bar		mode		

### **General Options**

- Color Depth: Specify the desired color depth.
- Size: This option is available for standard RDP connections only.

#### **Published Applications**

**Use primary monitor only:** Display a published resource on the primary monitor only. Other monitors connected to the computer will not be used.

### **Desktop Options**

- Smart-sizing. Desktop smart sizing will scale a remote desktop to fit the connection window.
- **Embed desktop in launcher**. Enable this option to open a remote desktop inside the Parallels Client window (launcher).
- Span desktop across all monitors. Enable this option to span published desktops across all connected monitors.
- **Display connection bar in full screen mode**. Enable this option to show the connection bar when connecting in full screen mode.

### Printing

The **Printing** tab page allows you to configure printing options.

Connection Prope	rties - My RA	S Connectior	n	?	×		
Experience	Network	Authent	ication	Advanced S	ettings		
Connection	Display	Printing	Scanning	Local Re	sources		
Technology	Technology						
Use: RAS	Use: RAS Universal Printing technology $\qquad \lor$						
RAS Universal	Printing						
Redirect print	ers: All				$\sim$		
	t XPS Documer t Print to PDF	nt Writer					
Default Printer							
The default printer Microsoft Print to PDF redirected using RAS Universal Printing technology will be set as default on the remote host.							
Change De	Change Default Printer settings						
		OK	Can	cel	Help		

In the **Technology** drop-down list, select the technology to use when redirecting printers to a remote computer:

- **None**. Don't redirect printers.
- **RAS Universal Printing technology**. Select this option if you want to use RAS Universal Printing technology.
- **Microsoft Basic Printing Redirection technology**. Select this option if you want to use Microsoft Basic printing technology.
- **RAS Universal Printing and Microsoft Basic redirection technologies.** Select this option to use both Parallels RAS and Microsoft technologies.

### **RAS Universal Printing**

If you selected **RAS Universal Printing technology**, select printers to redirect in the **Redirect Printers** drop-down list:

- All. All printers on the client side will be redirected.
- Default only. Only the Windows default printer will be redirected.
- **Specific only**. Select the printers to redirect from the provided list. The list becomes enabled only if you select this option.

Additional options can be configured by clicking the **Options** button, which will open the **RAS Universal Printing Options** dialog.

In this dialog, you can select the data format:

- Portable Document Format (PDF). Adobe PDF.
- Enhanced Meta File (EMF). Use vector format and embedded fonts.
- Bitmap (BMP). Bitmap images.

You can also choose to configure printer preferences before printing:

- Never show the preference window. The printer preferences window will never be shown before printing.
- Show Preference window for all printers. The printer preferences window will be shown for all printers before printing.
- Show the preferences window only for the following printers. The printer preferences window will be shown for all selected printers in the list box which becomes enabled when this setting is selected.

#### Default printer settings

To configure default printer settings, click the Change Default Printer settings button.

The default printer list shows printers that can be redirected. The list also includes the printing technology which the available printers will use. The technology reflects the setting selected in the **Technology** section. For example, if the technology was set to **RAS Universal Printing technology**, only the printers using RAS Universal Printing will be listed.

To disable the default printer, select **<none>**. To redirect the default local printer on the client side to the remote computer, select **<defaultlocalprinter>**. When **<custom printer>** is selected, you can specify a custom printer which might be installed on the remote computer. The first printer that matches the printer name inserted in the custom text box, will be set as the default printer on the remote computer.

Select **Match exact printer name** to match the name exactly as inserted in the custom text box. Please note that the remote printer name may be different than the original printer name. Also note that local printers may not redirect due to server settings or policies.

You can specify the time a printer will be forced as default. If the default printer is changed during this time after the connection is established, the printer is reset as default.

Select the **Update the remote default printer if the local default printer is changed** option to change the remote default printer automatically when the local default printer is changed. Please note that the new printer must have been previously redirected.

### Scanning

On the **Scanning** tab page, you can specify a specific scanner that should be used when one is required by a published resource:

- Use. Allows you to select a scanning technology. RAS Universal Scanning uses TWAIN and WIA redirection allowing an application to use either technology depending on the hardware type connected to the local computer. If you select **None**, scanning will disabled.
- Redirect Scanners. Select scanners attached to your computer for redirection. You can select
  All (all attached scanners will be redirected) or Specific only (only the scanners you select in
  the provided list will be redirected).

### Local Resources

Use the **Local Resources** tab page to configure how local resources are handled by a remote server.

Experience	Network	Auther	ntication	Advanced Setting	
Connection	Display	Printing	Scanning	Local Resource	
Remote Auc	dio				
	Configure rem	Configure remote audio settings.			
	Settings				
Keyboard					
	Apply Windows key combinations for desktops only (for example ALT+TAB)				
	On the remote computer $\qquad \checkmark$				
Local device	s				
A	Connect automatically to these local devices when logged on to the remote computer:				
27 P	Disk drives		Config	ure Drives	
	Devices		Configu	re Devices	
	Click this link to	configure pr	inters		
	Serial ports				
	Smart Card	s			

These are the same options that are available when using a standard Microsoft Remote Desktop Connection. The options are self-explanatory, so you can set them according to your preferences.

### Experience

The **Experience** tab page allows you to tweak the connection speed to optimize the performance of the connection with the remote server.

If you are connecting to a remote server on a local network that runs at 100 Mbps or higher, it is usually safe to have all of the experience options turned on. It is also recommended to enable compression to have a more efficient connection.

The **Universal printing** and **Universal scanning** options allow to select a compression level for redirected printer or scanner jobs:

- Compression disable. No compression will be used.
- Best speed (uses less CPU). Compression is optimized for speed.
- Best size (uses less network traffic). Compression is optimized to minimize the amount of data sent through the network.
- **Based on connection speed**. Compression is chosen automatically based on the connection speed.

### Network

Use the **Network** tab page to configure a proxy server if you have to use one to connect to Parallels Remote Application Server.

To configure a proxy server, select the **Use proxy server** option and then select the protocol from the following list:

- SOCKS4. Enable this option to transparently use the service of a network firewall.
- **SOCKS4A**. Enable this option to allow a client that cannot connect to resolve the destination host's name to specify it.
- **SOCKS5**. Enable this option to be able to connect using authentication.
- **HTTP 1.1**. Enable this option to connect using a standard HTTP 1.1 protocol connection.

Specify the proxy host domain name or IP address and the port number.

For SOCKS5 and HTTP 1.1 protocols, select **Proxy requires authentication** and enter user credentials.

### Authentication

Use the Authentication tab page to specify what happens if the server authentication fails.

In the If authentication fails drop-down list, select one of the following options:

- **Connect**. The user can ignore the certificate of the server and still connect.
- Warn. The user is alerted about the certificate and still has the ability to choose whether to connect or not.
- Do not connect. The user is not allowed to connect.

### **Advanced Settings**

The Advanced Settings tab page allows you to customize the default behavior or Parallels Client.

You can specify the following properties:

- Use client system colors. Enable this option to use the client system colors instead of those specified on the remote desktop.
- Use client system settings. Enable this option to use the client system settings instead of those specified on the terminal server.
- Create shortcuts configured on server. For each published application, the administrator can configure shortcuts that can be created on the client's desktop and the Start menu. Select this option to create the shortcuts, or clear the option if you don't want to create them.
- **Register file extensions associated from the server**. For each published application, the administrator can create file extension associations. Use this option to either register the associated file extensions or not.
- Redirect URLs to this computer. Enable this option to use the local web browser when opening 'http:" links.
- Redirect Mail to this computer. Enable this option to use the local mail client when opening 'mailto:' links.
- Always ask for credentials when starting applications. If this option is enabled, the user will be prompted to enter their credentials when starting applications.
- Allow Server to send commands to be executed by client. Enable this option to allow commands being received from the server to be executed by the client.
- **Confirm Server commands before executing them**. If this option is enabled, a message is displayed on the client to confirm any commands before they are executed from the server.
- **Network Level Authentication**. Check this option to enable network level authentication, which will require the client to authenticate before connecting to the server.
- **Redirect POS devices**. Enables the Point of Service (POS) devices such as bar code scanners or magnetic readers that are attached to the local computer to be used in the remote connection.
- Use Pre Windows 2000 login format. If this option is selected, it allows you to use legacy (pre-Windows 2000) login format.
- **Disable RDP-UDP for gateway connections**. Disable UDP transport when connecting through a gateway.

### **Connection Advanced Settings**

Click the **Connection Advanced Settings** button to configure the following settings:

- **Connection Timeout**. This is the amount of time the client will try to connect to the Parallels Remote Application Server until the connection is aborted. While the connection is being established, the connection banner will be shown.
- Show Connection Banner if connection is not established within. Specifies the time period in seconds after which the connection banner will be displayed.

- Show Desktop if published application does not start within. If a published application is not launched within the time period specified in this field, the server's desktop will be loaded. This is helpful if an error occurs on the server while launching an application. By loading the server's desktop, the error can be seen.
- Reconnect if connection is dropped. Select this option and set the number of Connection Retries. If a connection is dropped, the Parallels Client will automatically try to reconnect.
- **Override computer name**. Specifies the name that your computer will use during a remote desktop session. If set, this will override the default computer name. Any filtering set by the administrator on the server side will make use of the **Override computer name**.

### Configuring an RDP Connection

To modify the properties of an existing standard RDP connection, right-click it in the main Parallels Client window and then click **Connection Properties** in the context menu. This will open the **Connection Properties** dialog. Properties are grouped in the dialog by functionality using tab pages. The following subsections describe each tab page in detail.

### Connection

The **Connection** tab page allows you specify connection settings and logon information.

Experien	ce	Network	Authentication	Advan	ced Settings
Connect	tion	Display	Local Resource	es	Programs
Connect	ion Setti	ings			
	Prima	ry Connection:	192.168.1.20		
1	Conne	ection Mode:			$\sim$
	Port:		3389		
			Secondary C	onnection	s
	Friend	dly Name:	My RDP Connecti	on	
Logon					
<u>_</u>	Au	ito Logon			
- 🍑	Authe	entication Type:	Credentials		~
	Usern	ame:	username		
	Passv	vord:	•••••		
			Save Password		
	Doma	in:			

In the Connection Settings section, specify the following properties:

- 1 In the **Primary Connection** field, specify the remote computer hostname or IP address.
- **2** The **Port** field contains the TCP port 3389 by default, which is the standard port for RDP connections. You can modify it if the port number was changed on the remote computer.
- **3** In the **Friendly Name** field, choose and type a name of your choice, so you could easily identify the server in Parallels Client later.

In the Logon section, specify the following properties:

- **1** Select the **Auto Logon** option to enable Parallels Client to connect automatically (using this connection) on startup.
- 2 In the Authentication type drop-down list, select the desired method of authentication:

- **Credentials**. Select this option and then enter the username, password, and domain information. You will be authenticated on the remote server using the specified credentials.
- Smart Card. Select this option to authenticate using a smart card. When connecting to the remote server, insert a smart card into the card reader and then enter a PIN when prompted.
- **Single Sign-On**. This option will be included in the list only if the Single Sign-On module is installed during Parallels Client installation. Select this option to use local system credentials to connect to the remote server.

**Note for Administrators:** The allowed authentication type(s) must be specified in the RAS Console in **Connection** / **Authentication**.

**3** Specify your username, password, and the domain name. The **Save Password** option allows you to save your password, so you don't have to enter it every time you connect to the server.

### Display

The **Display** tab page allows you to configure display options.

Connection Properti	es - My RDP Co	onnection		?	$\times$	
Experience	Network	Authentication	Adv	anced Sett	ings	
Connection	Display	Local Resource	s	Progra	ms	
General Options						
Color Depth:	High Color	(16 bit)		$\sim$		
Size:	Full Screen	I		$\sim$		
	Width:	Height	t:			
Use all mor	iitors for Desktop	o session (if applicable	e)			
Published Applications Use primary monitor only						
Desktop Options	g					
Embed desktop in launcher						
Span desktop across all monitors						
Display connection bar in full screen mode						
		OK Ca	ancel	He	elp	

In the **General Options** section, specify the general display properties, including color depth and screen size. If you would like to specify a custom screen size, select **Custom** in the drop-down list and then specify the size using the **Width** and **Height** fields.

If you have more than one monitor connected to your computer, select the **Use all monitors for Desktop session** option to use all of them to display the remote desktop.

Specify the **Desktop Options** as follows:

- **Smart-sizing**. Desktop smart sizing will scale the RDP desktop to fit the connection window.
- **Embed desktop in launcher**. Enable this option to access the published desktop inside Parallels Client.
- **Span desktop across all monitors**. Enable this option to span the published desktops across all connected monitors (if you have more than one).
- **Display connection bar in full screen mode**. Enable this option to show the connection bar when connecting in full screen mode.

### Local Resources

Use the **Local Resources** tab page to configure how local resources are handled by the remote desktop.

These are the same options that are available when using a standard Microsoft Remote Desktop Connection. The options are self-explanatory, so you can set them according to your preferences.

### Programs

The **Programs** tab page allows you to specify a program that will be started automatically on the remote computer when you establish a connection with it.

Connection Prop	erties - My RDP C	Connection		?	×
Experience Connection	Network Display	Authentication Local Reso		iced Settin Program	
Start a progr		Local Rest	Juices	, rogi al	
	Start the follow	ving program on c	onnection		
	Program path and	file name:			
	iexplorer.exe				
	Start in the follow	ing folder:			
		OK	Cancel	He	lp

Select the Start the following program on connection option and then specify the Program path and file name and Start in the following folder option, if needed.

### Experience

The **Experience** tab page allows you to tweak the connection speed to optimize the performance of the connection with the remote computer.

If you are connecting to a remote server on a local network that runs at 100 Mbps or higher, it is usually safe to have all of the experience options turned on. It is also recommended to enable compression to have a more efficient connection.

The **Universal printing** and **Universal scanning** options allow to select a compression level for redirected printer or scanner jobs:

- Compression disable. No compression will be used.
- Best speed (uses less CPU). Compression is optimized for speed.
- Best size (uses less network traffic). Compression is optimized to minimize the amount of data sent through the network.
- **Based on connection speed**. Compression is chosen automatically based on the connection speed.

### Network

Use the **Network** tab page to configure a proxy server if you have to use one to connect to the remote computer.

To configure a proxy server, select the **Use proxy server** option and then select the protocol from the following list:

- SOCKS4. Enable this option to transparently use the service of a network firewall.
- **SOCKS4A**. Enable this option to allow a client that cannot connect to resolve the destination host's name to specify it.
- **SOCKS5**. Enable this option to be able to connect using authentication.
- **HTTP 1.1**. Enable this option to connect using the standard HTTP 1.1 protocol connections.

Specify the proxy host domain name or IP address and the port number.

For SOCKS5 and HTTP 1.1 protocols, select **Proxy requires authentication** and enter user credentials.

### Authentication

Use the Authentication tab page to specify what happens if server authentication fails.

In the **If authentication fails** drop-down list, select one of the following options:

- **Connect**. The user can ignore the certificate of the server and still connect.
- Warn. The user is alerted about the certificate and still has the ability to choose whether to connect or not.
- **Do not connect**. The user is not allowed to connect.

### **Advanced Settings**

The Advanced Settings tab page allows you to customize the default behavior or Parallels Client.

You can specify the following properties:

- **Connect to console**. This option is used for administration of a Remote Desktop Session Host server. It acts as if a standard Remote Desktop connection is initiated from the command line with the /admin option.
- **Network Level Authentication**. Select this option to enable network level authentication, which will require the client to authenticate before connecting to the server.
- **Redirect POS devices**. Enables the Point of Service (POS) devices such as bar code scanners or magnetic readers that are attached to the local computer to be used in the remote connection.
- Use Pre Windows 2000 login format. If this option is selected, it allows you to use legacy (pre-Windows 2000) login format.

### **Connection Advanced Settings**

Click the **Connection Advanced Settings** button to open the **Connection Advanced Settings** dialog.

In the Connection section, specify the following properties:

- **Connection Timeout**. The amount of time Parallels Client will try to connect to the remote computer until the connection is aborted. While the connection is being established, the connection banner will be shown.
- Show Connection Banner if connection is not established within. Specifies the time period in seconds after which the connection banner will be displayed.

In the Reconnection section, specify the following properties:

- Reconnect if connection is dropped. Select this option and set the number of Connection Retries. If a connection is dropped, the Parallels Client will automatically try to reconnect.
- Show Connection Banner if reconnection is not established within. Specifies the time period in seconds after which the connection banner will be displayed.

**Override computer name**. Specifies the name that your computer will use during a remote desktop session. If set, this will override the default computer name. Any filtering set by the administrator on the server side will make use of the **Override computer name**.

### **Configuring Global Options**

To configure Parallels Client global options, click **Tools** > **Options** in the main menu.

Options	?	×
General Single Sign-On Advanced Settings		
Connection		
Connection Banner: Splash Window	~	
Automatically refresh connected RAS connections every		
Logging View Log Clear Log File		
Update Check for updates on startup Check for updates now		
OK Cancel	He	lp

#### General

On the General tab page, specify the following options:

- **Connection Banner**. Connection banner is shown when the Parallels Client is connecting to a server or a desktop. You can choose to have a Splash Window, a Taskbar Toast Window icon, or you can choose to hide the connection banner.
- Automatically refresh connected RAS connection every. Specifies the auto refresh time frame for each connection.
- Logging. Enables or disables logging and allows you to view the log file.

• Check for updates on startup. This option is available only with administrative rights. If this option is selected, Parallels Client will check for available Parallels Client updates on startup. You can also click the button to check for updates.

#### Single Sign-On

Options	? ×
General Single Sign-On Advanced Set	ings
Single Sign-On	
Single Sign-On is enabled.	
Disable	
Force to wrap third party SSO co	mponent
Third-party credentials provider GUI	):
GenericProvider	~
	Copy GUID to Clipboard
	W Cancel Hele
	K Cancel Help

On the Single Sign-On page, specify the SSO settings if your organization is using it.

- 1 Click the **Enable** button to enable SSO.
- 2 If your organization is using a third-party SSO component (other than the one provided by Parallels RAS), select the **Force to wrap third party SSO component** option and then select the provider.
- **3** The **Copy GUID to Clipboard** button is used to copy the ID of the SSO component to the clipboard.

#### **Advanced Settings**

The Advanced Settings tab page allows you to configure advanced options.

The following advanced options are available:

- **Hide Launcher when application is launched**. If this option is enabled, the launcher will be minimized to the system tray after an application is launched.
- Always on Top. With this feature enabled, other applications will no longer mask the launcher.
- Do not warn if server certificate is not verified. When connected over SSL, and the certificate is not verified, a warning message will be displayed. You can disable this warning message by enabling this option.
- **Show folders page.** Enabling this option will show the available folders while showing the hierarchy of the application groups as configured on the server.
- Minimize to tray on close or escape. Enable this feature to place the Parallels Client into the System Tray when you click on the Close button or hit escape.
- Launch automatically at Windows startup. This option will place a shortcut in the start menu folder of the client and the Parallels Client will launch automatically on Windows startup.
- Add RAS Connection automatically when starting web or shortcuts items. This option will
  add the connection preferences in the Parallels Client when starting an item contained in a
  connection that is not yet listed.
- **Don't show prompt message for auto add RAS Connections.** Enable this option to disable prompt messages when adding auto connections.
- Clear session cookies on exit. When a user logs on, a Parallels Remote Application Server logon cookie is kept on the client side. This will allow the user to connect again with Remote Application Server without re-authenticating. Check this option to delete any cookies when the user closes the Parallels Client.
- Close error messages automatically. When a session disconnects because of an error, the error is automatically dismissed after 15 seconds.
- Show SSL icon indicator on taskbar tray. When a session connects using SSL, an icon is added on the taskbar tray. Double-click on the icon and you will see your certificate information.
- Automatic fonts installed (administrators only). If automatic fonts are installed on the server, they will be available when a session connects.
- Swap Mouse Buttons. When enabling this setting, the mouse buttons will be swapped on the remote computer.
- Redirect vendor paper sizes for RAS Universal Printing. When enabling this setting, nonstandard paper sizes which are not included in the standard options will be redirected to the client. Sizes may vary depending on the vendor.
- **Raw printing support.** When enabling this setting, printing will still work for applications sending data in RAW format.
- **Convert non distributable fonts data to images**. During RAS Universal Printing, if a document includes non-distributable fonts, each page is converted to an image.

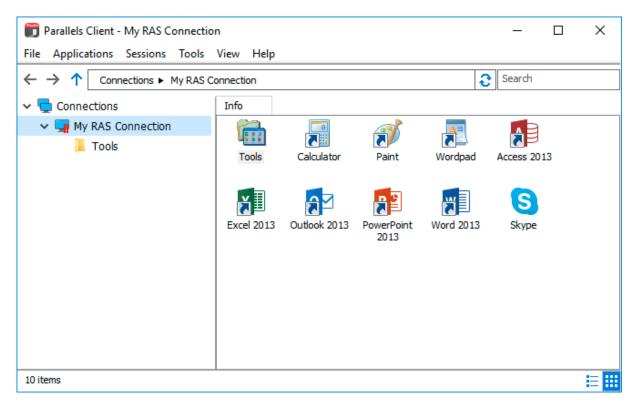
- Cache printers hardware information. Caching of printer hardware information locally to speed-up RAS universal printer redirection.
- Cache RAS Universal Printing embedded fonts. Caching of embedded fonts locally to speed-up RAS universal printing process time.
- **DPI aware**. This will force a published application to be DPI-aware depending on the client's DPI settings. This feature works on Windows 8.1 or higher.

### Using a RAS Connection

To connect to Parallels Remote Application Server, double-click a connection in the **Connections** list (or right-click > **Connect**). You can have multiple active connections at the same time. To switch between active connections, click a connection in the left or the right pane.

### Launching Published Resources

After you connect to a remote server, the connection node is populated with published folders. When you select a folder in the left pane, the resources that it contains are displayed in the right pane. If your administrator hasn't published any folders, then the available resources are displayed when you select the connection itself.



To launch a resource, double-click it in the right pane. The resource will open on your Windows desktop.

By default, Parallels Client is configured to minimize to the system tray when you launch a resource.

To bring it back up, open the system tray, then right-click the Parallels Client icon **Restore**. To change this default behavior, click **Tools** > **Options** in the main menu, then select the **Advanced Settings** tab and clear the **Hide Launcher when application is launched** option.

You can navigate and customize the published resources view as follows:

- Use the arrows at the top of the left pane to navigate the **Connections** tree left, right, or up.
- Expand an active connection node to view published folders (when they are available).
- Click a part of the navigation string (e.g. Connections > My RAS Connection > Applications) to display the corresponding tree node.
- Click the recycle icon to refresh the published resources view. If there were changes on the server side, they will be reflected in Parallels Client.
- Use the **Search** box to search for a resource. The list will be filtered as you type. To remove the filter, clear the box.
- Use the **View** menu item to display published resources as icons, tiles, list, etc. To quickly switch between icons and a detailed list, click one of the two icons in the lower right corner of the main window.

### **Managing Sessions**

When you connect to Parallels RAS from Parallels Client and launch a resource, a session is created for the connection. You can manage sessions by clicking **Sessions** > **Sessions Information** in the main menu. This opens the **Sessions** dialog where you can select a session in the list and do the following:

- Click Show Information to see the session information.
- Click **Disconnect** to disconnect from Parallels RAS. The resource (or resources) will be closed on your local desktop, but will continue to run on the remote server. If you open the resource after that, your work will be where you left it. If you had more than one instance of a resource opened before you disconnected from Parallels RAS, all of them will open on your desktop.
- Click **Logoff** to end the session. This will close all running resources on the remote server. You should save all your data before ending a session.
- Click **Close** to close the **Sessions** dialog.
- From the **Sessions** menu, you can also perform the following tasks:
- **Connect**. Connect to Parallels RAS using the selected connection settings. If the selected connection is active, this menu item is disabled.
- **Refresh**. Refresh the published resources view (the information is re-retrieved from Parallels RAS).
- Log Off. This menu item performs the same action as the Logoff button on the Session dialog described above it ends the session.

- **Disconnect All RAS Sessions**. This item is only enabled when you have active sessions (i.e. one or more published resources are running on your desktop). It kills all active connections, but keeps the corresponding sessions running on the remote server.
- Log Off All RAS Sessions. This item works similarly to Disconnect All RAS Sessions (above), but it ends all active sessions.

Another menu can be accessed by right-clicking an active connection in the **Connections** list. The menu has the following items:

- **Connect**. This item is disabled if the connection is currently active.
- Refresh. Refreshes the published resources view.
- **Connection Properties**. Opens the **Connection Properties** dialog where you can configure the connection.
- Change Domain Password. Allows you to change the current user's domain password. Opens the Logon dialog where you need to type your current domain password to be authenticated. Click OK to open the Change Password dialog and type a new password in both fields. Click OK to change the domain password.
- **Create Shortcuts for All Visible Applications**. Creates shortcuts on the local desktop for all published applications displayed in the right pane of the main window.
- Delete Shortcuts from Desktop. Deletes all existing shortcuts from the desktop.
- Log Off. Logs off Parallels Client from the session.
- Delete. Deletes the connection from the Parallels Client configuration.

### Managing Connection and Applications

Another menu can be accessed by right-clicking an active connection in the **Connections** list. The menu has the following items that allow you mange the connection and the corresponding published resources:

- **Connect**. This item is disabled if the connection is currently active.
- Refresh. Refreshes the published resources view.
- **Connection Properties**. Opens the **Connection Properties** dialog where you can configure the connection.
- Change Domain Password. Allows you to change the current user's domain password. Opens the Logon dialog where you need to type your current domain password to be authenticated. Click OK to open the Change Password dialog and type a new password in both fields. Click OK to change the domain password.
- Create Shortcuts for All Visible Applications. Creates shortcuts on the local desktop for all published applications displayed in the right pane of the main window.
- Delete Shortcuts from Desktop. Deletes all existing shortcuts from the desktop.
- Log Off. Logs off Parallels Client from the session.

• **Delete**. Deletes the connection from the Parallels Client configuration.

The application-related menu items from the list above can also be accessed by clicking **Applications** in the main menu.

### Using an RDP Connection

After adding a Standard Remote Desktop connection, double-click it (or right-click > **Connect**) to establish a connection with the remote computer.

You can have multiple active connections at the same time (both standard RDP and Remote Application Server). To switch between active connections in Parallels Client, click a connection in the left pane or click the corresponding tab page in the right pane.

Right-click an active RDP connection in the **Connections** list to perform the following actions:

- Connect. This item is disabled for an active connection.
- **Connection Properties**. Opens the Connection Properties dialog where you can configure the connection. See **Configuring an RDP Connection** for details (p. 29).
- Smart Sizing. If enabled, smart-sizing will resize the remote desktop so it fits the available area.
- **Embed in Launcher**. Click this item to move the remote desktop to a new window (it will float outside the main Parallels Client window). To return the remote desktop back to the Parallels Client window, click the menu item again.
- Create Shortcut on Desktop. Creates a shortcut for this connection on the local desktop.
- Delete Shortcut from Desktop. Removes the connection shortcut from the desktop.
- Disconnect. Disconnects the selected connection.
- Delete. Deletes the connection.

### Exporting and Importing Parallels Client Settings

You can export current Parallels Client settings to a file to have a backup or to import the settings into Parallels Client installed on a different computer. The following settings are exported:

- All existing connections including all individual connection properties.
- Parallels Client global options.

To export the current Parallels Client settings to a file, click **File** on the main menu and then click **Export Settings**. In the dialog that opens, specify a file name and a destination folder. Click **Save** to export the settings. The file is saved with the ".2xc" extension.

To import the settings, click **File** > **Import Settings**. In the dialog that opens, select the ".2xc" file and click **Open**. Please note that the Parallels Client settings stored in a file will override the current Parallels Client settings.

### Parallels Client Command Line Parameters

Parallels Client for Windows parameters are available when launching published application and published desktop from the command line.

Parameters	Note
s!='primary server'	Primary Server hostname or IP address.
b!='backup server'	Secondary Server hostname or IP address.
a!='application/desktop id'	Published Application/Desktop ID.
p!='override application params'	
t!='port'	Port of the RAS Remote Application Serverconnection.
u!='username'	Username for the user to connect with.
q!='password'	Password for the user.
d!='domain' ignored if user name is in UPN format	Domain name.
I!='0/1' 0 use primary server, 1 user backup server	Specify value in order to connect either to primary or backup server.
m!='connection mode' (gateway mode = 0, direct mode 1, gateway ssl mode = 2, direct ssl = 3, direct rdp=4)	Specify value for the connection mode.
o!='0/1' if set to 1 credentials are overwritten with SSO information if available	When set to 1, credentials are overwritten with SSO credentials.
i!='connection alias'	Specify a connection Alias.
c!	Always ask for credentials.
r!	Reconnect if connection is dropped .

### Example:

**1** In Command Prompt, go to the location were Parallels Client is installed and run the following command:

TSClient.exe s!='2008ad1.2x.testing' a!='#50' t!='80' d!='2x.testing' u!='testerjm'q!='123456' m!='0'

Running the above command will launch Published application with ID92, for user testerim.

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