Parallels® Plesk Panel

Parallels Plesk Panel 9.5 for Linux/Unix

Installation and Upgrade Guide

Revision 1.0

Parallels™

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Preface

In this section:

Typographical Conventions

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 **QoS** tab.
	Titles of chapters, sections, and subsections.	Read the **Basic Administration** chapter.
Italics	Used to emphasize the importance of a point, to introduce a term or to designate a command line placeholder, which is to be replaced with a real name or value.	The system supports the so called *wildcard character* search.
`Monospace`	The names of style sheet selectors, files and directories, and CSS fragments.	The license file is called `license.key`.

Preformatted Bold	What you type, contrasted with on-screen computer output.	Unix/Linux: **# cd /root/rpms/php** Windows: **>cd %myfolder%**
Preformatted	On-screen computer output in your command-line sessions; source code in XML, C++, or other programming languages.	Unix/Linux: **# ls -al /files** total 14470 Windows: **>ping localhost** Reply from 127.0.0.1: bytes=32 time<1ms TTL=128

Feedback

If you have found an error 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.

CHAPTER 1

Meeting Installation Requirements

It is recommended that you install Parallels Plesk Panel on a clean operating system. Parallels Plesk Panel 9.5 for Linux/Unix requires one of the following operating systems installed on the server:

- Red Hat® Enterprise Linux 4.0 (AS/ES) i586 and 64bit
- Red Hat® Enterprise Linux 5.0 (AS/ES) i586 and 64bit
- FreeBSD® 6.x i586
- SuSE® Linux 9.3 i586 and 64bit
- SuSE® Enterprise Server 9.0 64bit
- SuSE® Enterprise Server 10.0 i586 and 64bit
- SuSE® Linux 10.0 i586 and 64bit
- SuSE® Linux 10.1 i586 and 64bit
- SuSE® Linux 10.2 i586 and 64bit
- SuSE® Linux 10.3 i586 and 64bit
- SuSE® Linux 11.0 i586 and 64bit
- openSuSE 10.3
- Fedora 4 i586 and 64bit
- Fedora 5 i586 and 64bit
- Fedora 6 i586 and 64bit
- Fedora 7 i586 and 64bit
- Fedora 8 i586 and 64bit
- Fedora 11 i586 and 64bit
- CentOS 4.x i586 and 64bit
- CentOS 5.x i586 and 64bit
- Debian 3.1 x86
- Debian 4.0 x86 and 64bit
- Debian 5.0 x86 and 64bit
- Ubuntu 6.06 i586 and 64bit
- Ubuntu 7.10 i586 and 64bit
- Ubuntu 8.04 i586 and 64bit
- CloudLinux 5.4 x86 and 64bit

CHAPTER 2

Installing Parallels Plesk Panel on Linux and FreeBSD

If you have one or few servers to which you want to install Parallels Plesk Panel, you should follow the instructions provided below in this section. If you need to install Parallels Plesk Panel on numerous servers, please refer to the chapter Installing Parallels Plesk Panel on Numerous Servers (on page 22).

If you have not partitioned your hard drive yet, see the article at http://kb.parallels.com/en/819 on partitioning tips.

Before installing Parallels Plesk Panel on FreeBSD, you should add the 'kern_securelevel_enable="NO"' entry to the `/etc/rc.conf` file on your server's file system, and then restart your server.

Before installing Parallels Plesk Panel on CloudLinux, make sure that the CloudLinux repository is accessible and you are able to install some packages from there.

➢ *To install Parallels Plesk Panel software on a server:*

1. Download the Parallels Products Installer utility that suits your operating system from http://www.parallels.com/en/download/plesk9/ and save it on your server's hard drive.
2. Change your working directory to the directory where the Parallels Products Installer utility resides, for example:

   ```
   # cd /root/plesk
   ```
3. Set the execution permission for Parallels Products Installer:

   ```
   # chmod +x parallels_products_installer_file_name
   ```
4. Run the Parallels Products Installer:

   ```
   # ./parallels_products_installer_file_name
   ```
5. Read installation notes displayed on the screen and type 'n' to proceed to the next screen. Press ENTER.
6. Specify the source of Parallels Plesk Panel distribution package.

   You can choose to install from a local medium, the official Parallels Plesk Panel Update server, or another site. By default, the official Parallels Plesk Panel Update server is selected.

   If you wish to retrieve installation files from a local medium or network storage:

   a Type 's' and press ENTER.

   b To choose a local medium, type 1. To choose a network storage device, type 3. Press ENTER.

c If you chose a local medium, specify the location of psa.inf configuration file. If you chose a network storage, specify the address. For example, http://example.com, http://192.168.10.10, ftp://192.168.10.10.

d When finished selecting the source, type 'n' to proceed to the next step and press ENTER.

7. If you use a proxy server, specify the following settings:

a **Proxy host name and port number**. To specify them, type 's', type the host name, type the port number, press ENTER to continue.

b **User name and password**. If this proxy server requires authentication, type 'a', press ENTER, type user name and press ENTER, type password and press ENTER.

c When finished with specifying proxy settings, type 'n' and press ENTER to continue with installation.

8. Select the product versions that you want to install: type the number corresponding to the product version you need and press ENTER, then type 'n' and press ENTER to continue. By default, the latest versions of Parallels Plesk Panel, Sitebuilder Web site creation and management system, and Single Sign-on support components are selected.

9. On a FreeBSD system, specify FreeBSD Ports Collection tarball URL, distfiles master site URL and Ports updating source, if required. It is recommended that you use the default settings. Press ENTER to continue.

10. Select the components that you wish to install. Specify the required parameters for the selected components, when prompted.

By default, typical installation is selected. It includes a minimal number of packages required for Parallels Plesk Panel to work.

- To install all components of Parallels Plesk Panel including all Parallels Plesk Panel modules and Web applications, select **Full installation**: type the corresponding number and press ENTER.
- To install only selected components, select **Custom installation**: type the corresponding number and press ENTER.
- To review the components that will be installed, type L and then press ENTER. The selected packages are marked with [*] symbols. The packages that are already installed and do not require updating are marked with [=] symbols. To select or deselect a package, type the corresponding number and press ENTER.

Note: When there are several versions of a component available for installing, for example, PHP v. 4 and PHP v.5, then you can choose the version that you want to install.

11. To continue with installation, type 'n' and press ENTER. When prompted, confirm installing: type 'n' and press ENTER again.

The packages will be downloaded and installed. When the installation is finished, Parallels Plesk Panel will start automatically.

12. Now to complete the initial configuration, log in to the Parallels Plesk Panel running on your host at https://machine.domain.name:8443/ or https://IP-address:8443/. Use the username 'admin' and password 'setup' (both are case sensitive). For security reasons, change the password upon initial login.

Note: In Parallels Plesk Panel there is a port not protected by a secure SSL connection at `http://machine.domain.name:8880/` or `http://IP-address:8880/`. This port is also used for RSS news feeds and Parallels Power Panel.

➢ *To install Parallels Plesk Panel software on a server through Parallels Products Installer Web interface (available starting from Parallels Products Installer 3.4.0):*

1. Download the Parallels Products Installer utility that suits your operating system from http://www.parallels.com/en/download/plesk9/ and save it on your server's hard drive.
2. Change your working directory to the directory where the Parallels Products Installer utility resides, for example:

   ```
   # cd /root/plesk
   ```

3. Set the execution permission for Parallels Products Installer:

   ```
   # chmod +x parallels_products_installer_file_name
   ```

4. Run the Parallels Products Installer with the following option:

   ```
   # ./parallels_products_installer_file_name–web-interface
   ```

5. Open your browser and enter `https://machine.domain.name:8447/` or `https://IP-address:8447/` in the address bar. The Parallels Product Installer Web interface opens. Log in as root.
6. Click **Updates source and installation settings** and specify the source of Parallels Plesk Panel distribution package:
   - By default, the **Official Parallels Updates server** is selected. Specify the location where the installation files will be stored. By default, the installation files are stored in the `/root/parallels` directory.
   - If you select a **Mirror server**, specify the .inf3 file location in the **URL to the directory with .inf3 file** field. Specify the location where the installation files will be stored. By default, the installation files are stored in the `/root/parallels` directory.
   - If you select a **Local media**, specify the .inf3 file location in the **Absolute path to the .inf3 file** field.
7. If you use a proxy server, select the **Connect using a proxy** check box and specify the following settings:
   - Specify proxy host name and port number in the **Proxy address and port** fields.

- If this proxy server requires authentication, select the **Require authentication** check box and specify user name and password.

8. Select the installation language and click **Save** to save the installation preferences and proceed to installation.
9. Click **Install or Upgrade Product**. You are taken to the products list.
10. Select the check box corresponding to Parallels Plesk Panel and the Parallels Plesk Panel product versions that you want to install. By default, the latest products versions are selected. You can also select Sitebuilder Web site creation and management system, Single Sign-on support, and Parallels Workstation components to be installed with Parallels Plesk Panel.
11. Select the installation type:
    - By default, **Typical** installation is selected. It includes a minimal number of packages required for Parallels Plesk Panel to work.
    - To install all components of Parallels Plesk Panel including all Parallels Plesk Panel modules and Web applications, select **Full** installation.
    - To install only selected components, select **Custom** installation.
12. To review the components that will be installed, select the **Preview components selection** check box.
13. To continue with installation, click **Continue**.
14. If you selected to review components, you can see the list of available components. To select or deselect a component, select or clear the corresponding check box. To select or deselect all the components, click **Select all** or **None** respectively. To start installation, click **Continue**.

    The packages will be downloaded and installed. When the installation is finished, you will see a notification saying "All products and components have been successfully installed and upgraded." Click **OK**. Parallels Plesk Panel will start automatically.
15. Now to complete the initial configuration, log in to the Parallels Plesk Panel running on your host at https://machine.domain.name:8443/ or https://IP-address:8443/. Use the username "admin" and password "setup" (both are case sensitive). For security reasons, change the password upon initial login.

Note: In Parallels Plesk Panel there is a port not protected by a secure SSL connection at `http://machine.domain.name:8880/` or `http://IP-address:8880/`. This port is also used for RSS news feeds and Parallels Power Panel.

Once the installation is completed, a trial license key is installed for evaluation purposes. See the chapter Installing License Keys (on page 48) to learn how to obtain and install a new fully functional license key for your Parallels Plesk Panel.

To install a license key for Sitebuilder, refer to the Parallels Plesk Panel Administrator's Guide, section "Enabling Integration with Sitebuilder".

If the server is protected by a firewall, be sure to configure the firewall as described in the Parallels Plesk Panel Administrator's Guide, chapter "Configuring and Maintaining Your Server", section "Configuring Parallels Plesk Panel to Run Behind a Router with Firewall and Network Address Translation".

CHAPTER 3

Upgrading Parallels Plesk Panel on Linux and FreeBSD

You can upgrade Parallels Plesk Panel in any of the following ways:

- Using the Parallels Plesk Panel's Web interface. You log in to your Parallels Plesk Panel as the administrator, go to the **Home** > **Updates** section of the Parallels Plesk Panel, choose the product version and the components to install, and simply wait until the installation is completed. This is recommended for most users.
- Using the Parallels Products Installer console utility. You can find it in your Parallels Plesk Panel distribution or download from the Parallels download site. After you run it, you are taken through the upgrade procedure step by step. This will take more time as you will be prompted to choose the options and packages to install at each step.
- Using the Parallels Products Installer utility's Web interface.

Important: Make sure you upgrade all installed components when upgrading to a newer version of Parallels Plesk Panel. This is required to avoid conflicts caused by outdated components.

Note: If you use Qmail mail server with Parallels Plesk Panel and want to use Postfix mail server instead, you can easily switch to Postfix while upgrading to Parallels Plesk Panel 9.5. To do this, during Parallels Plesk Panel upgrade, select Postfix in the list of components to be installed. Please note, that when Parallels Plesk Panel is switched from using Qmail mail server to using Postfix mail server, the `max_letter_size` parameter is changed to the default value for this mail server.

➢ *To update or upgrade your Parallels Plesk Panel software from the control panel:*

1. Log in to Parallels Plesk Panel as administrator, on the Home page, click **Updates**.

   Parallels Plesk Panel connects to the Parallels Plesk Panel Update server, retrieves information on the available releases, then analyses the components installed in your system, and displays the lists of available releases and component updates. For each Parallels Plesk Panel version released a brief description of available operations is displayed.

   Note: If you want to update/upgrade from a locally stored Parallels Plesk Panel distribution or Parallels Plesk Panel update server mirror inside your network, click **Preferences**, select the **Parallels Plesk Panel Update Source** tab, select the **Network storage** source type, specify the URL and click **OK**.

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2. Select the Parallels Plesk Panel version that you want to update, or upgrade to. A list of available components appears.

3. Select the check boxes corresponding to the components you want to install and click **Install**.
4. Specify your e-mail address. You will be sent a notice by e-mail once update is completed.
5. To confirm installation of the selected components, select the check box and click **OK**. The components or updates you selected will be downloaded and automatically installed in the background mode.

➢ *To update or upgrade your Parallels Plesk Panel software using the command line of the Parallels Products Installer utility:*

1. Run the `parallels_installer` binary file, which is located in the directory `/usr/local/psa/admin/bin/` on RPM-based Linux, FreeBSD and Mac OS systems, and `/opt/psa/admin/bin/` on deb-based Linux systems.
2. Read the installation instructions displayed on the screen, and then type 'n' and press ENTER to continue. The Parallels Products Installer will detect your existing installation of Parallels Plesk Panel and ask if you want to upgrade it.
3. To confirm upgrade, type 'y' and press ENTER.
4. Specify the source of Parallels Plesk Panel distribution package.

   You can choose to upgrade from a local medium, the official Parallels Plesk Panel update server, or another site. By default, the official Parallels Plesk Panel update server is selected. If you wish to retrieve installation files from a local medium or network storage:

   a. Type 's' and press ENTER.
   b. To choose a local medium, type 1. To choose a network storage device, type 3. Press ENTER.
   c. If you chose a local medium, specify the location of psa.inf configuration file. If you chose a network storage, specify the address. For example, http://example.com, http://192.168.10.10, ftp://192.168.10.10.
5. If you use a proxy server, specify the following settings:

   a. **Proxy host name and port number**. To specify them, type 's', type the host name, type the port number, and press ENTER to continue.
   b. **User name and password**. If this proxy server requires authentication, type 'a', press ENTER, type user name and press ENTER, type password and press ENTER.
   c. When finished with specifying proxy settings, type 'n' and press ENTER to continue with installation.

6. Select the product version that you wish to upgrade to: type the number corresponding to the product version you need and press ENTER, then type ‘n’ and press ENTER to continue.
7. On a FreeBSD system, specify FreeBSD Ports Collection tarball URL, distfiles master site URL and Ports updating source, if required. It is recommended that you use the default settings. Press ENTER to continue.
8. Select the components that you wish to install or upgrade. Specify the required parameters for the selected components, when prompted.

   Type ‘L’ and press ENTER. The selected packages are marked with [*] symbols. The packages that are already installed and do not require updating are marked with [=] symbols. To select or deselect a package, type the respective number and press ENTER.
9. To continue with the upgrade, type ‘n’ and press ENTER. When prompted, confirm upgrading: type ‘n’ and press ENTER again.

   The packages will be downloaded and installed.

➢ ***To upgrade Parallels Plesk Panel software on your server through Parallels Products Installer’s Web interface (available starting from Parallels Products Installer 3.4.0):***

1. Run the `parallels_installer` binary file with the—`web-interface` option. The `parallels_installer` file is located in the directory `/usr/local/psa/admin/bin/` on RPM-based Linux, FreeBSD and Mac OS systems, and `/opt/psa/admin/bin/` on deb-based Linux systems.
2. Open your browser and enter `https://machine.domain.name:8447/` or `https://IP-address:8447/` in the address bar. The Parallels Product Installer Web interface opens. Log in as root.
3. Click **Updates source and installation settings** and specify the source of Parallels Plesk Panel distribution package:
   - By default, the **Official Parallels Updates server** is selected. Specify the location where the installation files will be stored. By default, the installation files are stored in the `/root/parallels` directory.
   - If you select a **Mirror server**, specify the .inf3 file location in the **URL to the directory with .inf3 file** field. Specify the location where the installation files will be stored. By default, the installation files are stored in the `/root/parallels` directory.
   - If you select a **Local media**, specify the .inf3 file location in the **Absolute path to the .inf3 file** field.
4. If you use a proxy server, select the **Connect using a proxy** check box and specify the following settings:
   - Specify proxy host name and port number in the **Proxy address and port** fields.

- If this proxy server requires authentication, select the **Require authentication** check box and specify user name and password.

5. Select the installation language and click **Save** to save the installation preferences and proceed to installation.
6. Click **Install or Upgrade Product**. You are taken to the products list.
7. Select the check box corresponding to Parallels Plesk Panel and the Parallels Plesk Panel product versions that you want to upgrade to. By default, the latest products versions are selected. You can also select Sitebuilder Web site creation and management system, Single Sign-on support, and Parallels Workstation components to be installed with Parallels Plesk Panel.
8. To review the components that will be installed, select the **Preview components selection** check box and click **Continue**. You can see the list of available components. To select or deselect a component, select or clear the corresponding check box. To select or deselect all the components, click **Select all** or **None** respectively.
9. To start installation, click **Continue**.

   The packages will be downloaded and installed. When the installation is finished, you will see a notification saying "All products and components have been successfully installed and upgraded." Click **OK**.

➢ *To add components to the installed Parallels Plesk Panel through Parallels Products Installer's Web interface (available starting from Parallels Products Installer 3.4.0):*

1. Run the `parallels_installer` binary file, which is located in the directory `/usr/local/psa/admin/bin/` on RPM-based Linux, FreeBSD and Mac OS systems, and `/opt/psa/admin/bin/` on deb-based Linux systems, with the—`web-interface` option.
2. Open your browser and enter `https://machine.domain.name:8447/` or `https://IP-address:8447/` in the address bar. The Parallels Product Installer's Web interface opens. Log in as root.
3. Click **Updates source and installation settings** and specify the source of Parallels Plesk Panel distribution package:
   - By default, the **Official Parallels Updates server** is selected. Specify the location where the installation files will be stored. By default, the installation files are stored in the `/root/parallels` directory.
   - If you select a **Mirror server**, specify the .inf3 file location in the **URL to the directory with .inf3 file** field. Specify the location where the installation files will be stored. By default, the installation files are stored in the `/root/parallels` directory.
   - If you select a **Local media**, specify the .inf3 file location in the **Absolute path to the .inf3 file** field.

4. If you use a proxy server, select the **Connect using a proxy** check box and specify the following settings:
   - Specify proxy host name and port number in the **Proxy address and port** fields.
   - If this proxy server requires authentication, select the **Require authentication** check box and specify user name and password.
5. Select the installation language and click **Save** to save the installation preferences and proceed to installation.
6. Click **Add Components**. You are taken to the list of Parallels Plesk Panel components, installed and available for installation.
7. Select the components that you want to install. To select or deselect a component, select or clear the corresponding check box. To view only not installed components, select the **Show only not installed components** check box.
8. To start the components update, click **Continue**.

   The packages will be downloaded and installed. When the installation is finished, you will see a notification saying "All products and components have been successfully installed and upgraded." Click **OK**.

➢ ***To update installed Parallels Plesk Panel components for which updates are available through Parallels Products Installer's Web interface (available starting from Parallels Products Installer 3.4.0):***

1. Run the `parallels_installer` binary file, which is located in the directory `/usr/local/psa/admin/bin/` on RPM-based Linux, FreeBSD and Mac OS systems, and `/opt/psa/admin/bin/` on deb-based Linux systems, with the—`web-interface` option.
2. Open your browser and enter `https://machine.domain.name:8447/` or `https://IP-address:8447/` in the address bar. The Parallels Product Installer's Web interface opens. Log in as root.
3. Click **Updates source and installation settings** and specify the source of Parallels Plesk Panel distribution package:
   - By default, the **Official Parallels Updates server** is selected. Specify the location where the installation files will be stored. By default, the installation files are stored in the `/root/parallels` directory.
   - If you select a **Mirror server**, specify the .inf3 file location in the **URL to the directory with .inf3 file** field. Specify the location where the installation files will be stored. By default, the installation files are stored in the `/root/parallels` directory.
   - If you select a **Local media**, specify the .inf3 file location in the **Absolute path to the .inf3 file** field.
4. If you use a proxy server, select the **Connect using a proxy** check box and specify the following settings:

- Specify proxy host name and port number in the **Proxy address and port** fields.
- If this proxy server requires authentication, select the **Require authentication** check box and specify user name and password.

5. Select the installation language and click **Save** to save the installation preferences and proceed to installation.
6. Click **Update Components**. You are taken to the list of components for which updates are available.
7. Select the components that you want to update. To select or deselect a component, select or clear the corresponding check box. To select or deselect all the components, click **Select all** or **None** respectively.
8. To start the components update, click **Continue**.

   The packages will be downloaded and installed. When the installation is finished, you will see a notification saying "All products and components have been successfully installed and upgraded." Click **OK**.

➢ *To correctly get the latest OS updates for servers based on CentOS:*

1. Upgrade Parallels Plesk Panel to the version that supports the corresponding OS update.
2. Use standard means (`vzpkg update CTID` or `yum update`) to update the OS.

CHAPTER 4

Switching Between Mail Servers

It is strongly recommended that you select the mail server you want to use during installation or upgrade of Parallels Plesk Panel. However, if you already installed or upgraded your Parallels Plesk Panel, and then decided to switch to another mail server, you can do it with the help of Parallels Products Installer utility.

Note: Please note, that when Parallels Plesk Panel is switched from using Qmail mail server to using Postfix mail server, the `max_letter_size` parameter is changed to the default value for this mail server.

➢ *To switch your Parallels Plesk Panel from Qmail mail server to Postfix mail server:*

1. Run the `parallels_installer` binary file, which is located in the directory `/usr/local/psa/admin/bin/` on RPM-based Linux, FreeBSD and Mac OS systems, and `/opt/psa/admin/bin/` on deb-based Linux systems.
2. Read the instructions displayed on the screen, and then type 'n' and press ENTER to continue. The Parallels Products Installer will detect your existing installation of Parallels Plesk Panel and ask if you want to upgrade it.
3. To confirm upgrade, type 'y' and press ENTER.
4. Specify the source of Parallels Plesk Panel distribution package.

   You can choose to upgrade from a local medium, the official Parallels Plesk Panel update server, or another site. By default, the official Parallels Plesk Panel update server is selected. If you wish to retrieve installation files from a local medium or network storage:

   a. Type 's' and press ENTER.

   b. To choose a local medium, type 1. To choose a network storage device, type 3. Press ENTER.

   c. If you chose a local medium, specify the location of psa.inf configuration file. If you chose a network storage, specify the address. For example, http://example.com, http://192.168.10.10, ftp://192.168.10.10.
5. If you use a proxy server, specify the following settings:

   a. **Proxy host name and port number**. To specify them, type 's', type the host name, type the port number, and press ENTER to continue.

   b. **User name and password**. If this proxy server requires authentication, type 'a', press ENTER, type user name and press ENTER, type password and press ENTER.

c When finished with specifying proxy settings, type ‘n’ and press ENTER to continue with installation.

6. Leave the installed product version unchanged, type ‘n’ and press ENTER to continue.
7. On a FreeBSD system, specify FreeBSD Ports Collection tarball URL, distfiles master site URL and Ports updating source, if required. It is recommended that you use the default settings. Press ENTER to continue.
8. In the components list, specify the Postfix mail server by typing is number in the list and pressing ENTER.

   The selected packages are marked with [*] symbols. The packages that are already installed and do not require updating are marked with [=] symbols. To select or deselect a package, type the respective number and press ENTER.
9. To continue with the upgrade, type ‘n’ and press ENTER. When prompted, confirm upgrading: type ‘n’ and press ENTER again.

   The packages will be downloaded and installed.

➢ *To switch your Parallels Plesk Panel from Postfix mail server to Qmail mail server:*

1. Run the `parallels_installer` binary file, which is located in the directory `/usr/local/psa/admin/bin/` on RPM-based Linux, FreeBSD and Mac OS systems, and `/opt/psa/admin/bin/` on deb-based Linux systems.
2. Read the instructions displayed on the screen, and then type ‘n’ and press ENTER to continue. The Parallels Products Installer will detect your existing installation of Parallels Plesk Panel and ask if you want to upgrade it.
3. To confirm upgrade, type ‘y’ and press ENTER.
4. Specify the source of Parallels Plesk Panel distribution package.

   You can choose to upgrade from a local medium, the official Parallels Plesk Panel update server, or another site. By default, the official Parallels Plesk Panel update server is selected. If you wish to retrieve installation files from a local medium or network storage:

   a Type ‘s’ and press ENTER.

   b To choose a local medium, type 1. To choose a network storage device, type 3. Press ENTER.

   c If you chose a local medium, specify the location of psa.inf configuration file. If you chose a network storage, specify the address. For example, http://example.com, http://192.168.10.10, ftp://192.168.10.10.
5. If you use a proxy server, specify the following settings:

   a **Proxy host name and port number**. To specify them, type ‘s’, type the host name, type the port number, and press ENTER to continue.

b **User name and password**. If this proxy server requires authentication, type ‘a’, press ENTER, type user name and press ENTER, type password and press ENTER.

c When finished with specifying proxy settings, type ‘n’ and press ENTER to continue with installation.

6. Leave the installed product version unchanged, type ‘n’ and press ENTER to continue.

7. On a FreeBSD system, specify FreeBSD Ports Collection tarball URL, distfiles master site URL and Ports updating source, if required. It is recommended that you use the default settings. Press ENTER to continue.

8. In the components list, specify the Qmail mail server by typing is number in the list and pressing ENTER.

The selected packages are marked with [*] symbols. The packages that are already installed and do not require updating are marked with [=] symbols. To select or deselect a package, type the respective number and press ENTER.

9. To continue with the upgrade, type ‘n’ and press ENTER. When prompted, confirm upgrading: type ‘n’ and press ENTER again.

The packages will be downloaded and installed.

CHAPTER 5

Installing Parallels Plesk Panel on Numerous Servers

To install Parallels Plesk Panel on a number of servers, you may want to set up a mirror of the official Parallels Plesk Panel update server (http://autoinstall.plesk.com) inside your network so as not to download the distribution files through the Internet each time, and then install Parallels Plesk Panel as described in the Installing Parallels Plesk Panel Remotely on a Number of Servers (on page 33) section.

If you do not want to set up a mirror, you can skip the Setting Up Mirrors (on page 24) section and go on to the Installing Parallels Plesk Panel Remotely on a Number of Servers (on page 33) section.

In this chapter:

Setting Up Mirrors

This section provides the instructions on setting up mirrors with Parallels Products Installer and Rsync utilities.

If you have a relatively small number of Parallels Plesk Panel servers and you need to mirror only a few versions of Parallels Plesk Panel software, you should use Parallels Products Installer utility as described in the Setting Up Mirrors with Parallels Products Installer Utility (on page 24) section of this guide. The utility is easy-to-use and does not require advanced server administration skills.

If you have numerous Parallels Plesk Panel servers and you need to mirror all versions of Parallels Plesk Panel including Parallels Plesk Panel distributions for Parallels Virtuozzo Containers, you should use the Rsync open source utility as described in the Setting Up Mirrors with Rsync Utility (see page 28) section of this guide.

In this section:

Setting Up Mirrors with Parallels Products Installer Utility

➢ ***To set up a mirror with Parallels Products Installer:***

1. Download the Parallels Products Installer utility that suits your operating system from http://www.parallels.com/en/download/plesk9/ and save it on your server's hard drive.

   The utility is a binary file named as follows: `parallels_installer_v<parallels installer version>_os_<operating system version>_<platform>`. If you have Parallels Plesk Panel installed on the server, you can use the `parallels_installer` binary file, which is stored in the directory `/usr/local/psa/admin/bin/` on RPM-based Linux, FreeBSD and Mac OS systems, and `/opt/psa/admin/bin/` on deb-based Linux systems.

2. Choose a host where you want to set up a mirror.

   You can use any of your existing domains, or create a new domain specifically for that purpose. Let's assume you will use the domain updates.example.com.

   a. Choose the directory within the virtual host where the Parallels Products Installer will store packages and other required files. Let's assume this will be the root directory of the virtual host.

   b. Find out the absolute path to this directory.

      Look up the value of the 'HTTPD_VHOSTS_D' variable in the `/etc/psa/psa.conf` file. This variable stores the path to the location of virtual hosts. Let's assume that this will be the `/var/www/vhosts/` directory.

      Within the `/var/www/vhosts/` directory, there are subdirectories for each domain. The names of those subdirectories coincide with names of existing domains. In our example we will have the following path to the virtual host: `/var/www/vhosts/updates.example.com/`.

      All documents available via HTTP protocol are stored in the `httpdocs` subdirectory within the virtual host.

      Therefore, the absolute path to the directory where the updates will reside will be `/var/www/vhosts/updates.example.com/httpdocs/`.

3. Set up the mirror.

   As you probably will not need a copy of all contents of the official Parallels Plesk Panel update server, you should choose what Parallels Plesk Panel versions for what operating systems you want to mirror. To obtain a list of available product versions:

   a. Run the Parallels Products Installer with the following options:

      `parallels_installer—show-all-releases`

      A list of product versions will be displayed:

      plesk PLESK_9_5_0 (Parallels Plesk Panel 9.5.0)

      plesk PLESK_8_6_0 (Plesk 8.6.0)

      plesk PLESK_8_4_1 (Plesk 8.4.1)

plesk PLESK_8_4_0 (Plesk 8.4.0)

plesk PLESK_8_3_0 (Plesk 8.3.0)

plesk PLESK_8_2_1 (Plesk 8.2.1)

plesk PLESK_8_2_0 (Plesk 8.2.0)

plesk PLESK_8_1_1 (Plesk 8.1.1)

plesk PLESK_8_1_0 (Plesk 8.1.0)

plesk PLESK_8_0_1 (Plesk 8.0.1)

plesk PLESK_8_0_0 (Plesk 8.0.0)

plesk PLESK_7_5_4 (Plesk 7.5.4)

plesk PLESK_7_1_7 (Plesk 7.1.7)

sitebuilder SB_4_2_0 (Sitebuilder 4.2.0)

sitebuilder SB_4_1_0 (Sitebuilder 4.1.0)

sitebuilder SB_4_0_0 (Sitebuilder 4.0.0)

sitebuilder SB_3_0_2 (Sitebuilder 3.0.2)

sitebuilder SB_3_0_1 (Sitebuilder 3.0.1)

sitebuilder SB_3_0_0 (Sitebuilder 3.0.0)

sso SSO_2_0 (SSO 2.0)

sso SSO_2_1 (SSO 2.1)

parallels PARALLELS_2_2 (Parallels Workstation 2.2)

Release identifiers are shown on the left, and release names are given in brackets. You will need to use these identifiers when working with the Parallels Products Installer through command line.

b. Once you have decided which Parallels Plesk Panel version to mirror, you need to choose the operating systems for which you want to obtain packages. To retrieve a list of operating systems supported by the Parallels Plesk Panel version of your choice, for example, Parallels Plesk Panel 9.5.0, you should run the Parallels Products Installer with the following options:

```
parallels_installer—select-release-id PLESK_9_5_0 --show-os-list
```

A list of operating systems will show operating system names, their versions and identifiers:

```
CentOS4.2: plesk-9.5.0-cos4.2-i386.inf3
CentOS4.3: plesk-9.5.0-cos4.3-x86_64.inf3
CentOS5: plesk-9.5.0-cos5-i386.inf3
CentOS5: plesk-9.5.0-cos5-x86_64.inf3
FedoraCore4: plesk-9.5.0-fc4-i386.inf3
FedoraCore4: plesk-9.5.0-fc4-x86_64.inf3
FedoraCore5: plesk-9.5.0-fc5-x86_64.inf3
```

```
FedoraCore5: plesk-9.0.0-fc5-i386.inf3
FedoraCore6: plesk-9.5.0-fc6-x86_64.inf3
FedoraCore6: plesk-9.5.0-fc6-i386.inf3
FedoraCore7: plesk-9.5.0-fc7-x86_64.inf3
FedoraCore7: plesk-9.5.0-fc7-i386.inf3
FedoraCore8: plesk-9.5.0-fc8-x86_64.inf3
FedoraCore8: plesk-9.5.0-fc8-i386.inf3
RedHatel4: plesk-9.5.0-rhel4-i386.inf3
RedHatel4: plesk-9.5.0-rhel4-x86_64.inf3
RedHatel5: plesk-9.5.0-rhel5-i386.inf3
RedHatel5: plesk-9.5.0-rhel5-x86_64.inf3
SuSEes9: plesk-9.5.0-susees9-x86_64.inf3
SuSE9.3: plesk-9.5.0-suse9.3-x86_64.inf3
SuSE9.3: plesk-9.5.0-suse9.3-i386.inf3
SuSE10.1: plesk-9.5.0-suse10.1-i386.inf3
SuSE10.1: plesk-9.5.0-suse10.1-x86_64.inf3
SuSE10.2: plesk-9.5.0-suse10.2-i386.inf3
SuSE10.2: plesk-9.5.0-suse10.2-x86_64.inf3
SuSE10.3: plesk-9.5.0-suse10.3-i386.inf3
SuSE10.3: plesk-9.5.0-suse10.3-x86_64.inf3
SuSE10.0: plesk-9.5.0-suse10.0-i386.inf3
SuSE10.0: plesk-9.0.0-suse10.0-x86_64.inf3
SuSEes10: plesk-9.5.0-susees10-i386.inf3
SuSEes10: plesk-9.5.0-susees10-x86_64.inf3
Debian3.1: plesk-9.5.0-deb3.1-i386.inf3
Debian4.0: plesk-9.5.0-deb4.0-i386.inf3
Debian4.0: plesk-9.5.0-deb4.0-x86_64.inf3
Ubuntu6.06: plesk-9.5.0-ubt6.06-i386.inf3
Ubuntu6.06: plesk-9.5.0-ubt6.06-x86_64.inf3
Ubuntu7.10: plesk-9.5.0-ubt7.10-i386.inf3
Ubuntu7.10: plesk-9.5.0-ubt7.10-x86_64.inf3
Ubuntu8.04: plesk-9.5.0-ubt8.04-i386.inf3
Ubuntu8.04: plesk-9.5.0-ubt8.04-x86_64.inf3
FreeBSD6.1: plesk-9.5.0-fr6.1-i386.inf3
```

For instance, `plesk-9.5.0-cos4.2-i386.inf3` is the identifier of CentOS 4.2 operating system. You will need to use these identifiers when you run Parallels Products Installer for downloading packages to the local mirror.

c. Now that you have decided which Parallels Plesk Panel versions to mirror, run the Parallels Products Installer in order to download packages.

For instance, if you want to set up a mirror for Parallels Plesk Panel 9.5.0 for CentOS 4.2 and CentOS 5, run the following command:

```
parallels_installer—select-release-id PLESK_9_5_0 --mirror-os
plesk_9.5.0_cos4.2-i386.inf—mirror-os plesk_9.5.0_cos5-
i386.inf3 --target
/var/www/vhosts/updates.example.com/httpdocs/
```

The '—target' option points to the directory where package files are stored. This is the directory within a virtual host that you selected at the step 2.

Note: All releases and operating systems should be specified in a single command line.

d. To have the contents of the mirror site automatically updated, you should create a scheduled task in the Parallels Plesk Panel and specify the Parallels Products Installer execution command there. The scheduled task should be created on behalf of the respective FTP user (see the respective section of Parallels Plesk Panel Administrator's Guide).

e. Now, to use this mirror during installation or upgrade, you should configure automatic updates through Parallels Plesk Panel or command line: select the '**Network Server**' option, and specify the URL of the mirror. In our example, this would be http://updates.example.com/.

Setting Up Mirrors with the Rsync Utility

Before setting up mirrors with rsync, you should familiarize yourself with the directory structure of the official Parallels Plesk Panel Updates server.

The Parallels Plesk Panel Updates server, available at rsync://rsync.autoinstall.plesk.com/autoinstall, contains the following files and directories:

- Several subdirectories named in accordance with Parallels Plesk Panel versions, for example, PSA_8.6.0, PSA_9.5.0. Each of these subdirectories contains the following files:
  - dist-<type>-<os-name>-<version>-<architecture> - Parallels Plesk Panel distribution packages.
  - update-<type>-<os-name>-<version>-<architecture> - system updates for the server's operating system; <type> is the package type: rpm, deb, pkg.
  - thirdparty-<type>-<os-name>-<version>-<architecture> - additional third-party packages.
  - plesk-<plesk-version>-<os-name>-<architecture>.inf3 - Parallels Products Installer configuration files.
  - backup-agent-<plesk-version>.tar - a standalone backup agent for backing up and transferring data from Parallels Plesk Panel servers.
  - plesk_getkeinfo.sh - a script used by Parallels Products Installer for detection of Parallels Plesk Panel license key version.
- Parallels Products Installer configuration files: products.inf3 describing Parallels Plesk Panel and Sitebuilder products; plesk.inf3 and versions.inf3 describing different versions of Parallels Plesk Panel.
- PSA8 - Parallels Plesk Panel 8 metadata used for installing Parallels Plesk Panel inside Parallels Virtuozzo Containers using EZ templates.
- debian and ubuntu directories used as apt-get repositories for installing Parallels products using EZ templates and Parallels Products Installer.

➢ *To set up a mirror for a single version of Parallels Plesk Panel, for example, 9.5:*

1. Log in to the server where you are going to set up a mirror.
2. Create a directory where the files should reside. For illustration purposes, we will call this directory `destination_directory/`.
3. In this directory, create two subdirectories: `debian/` and `ubuntu/`.
4. To set up a mirror, issue the following commands:

```
rsync -au—delete
rsync://rsync.autoinstall.plesk.com/autoinstall/PSA_9.5.0
destination_directory
```

```
rsync -au—delete
rsync://rsync.autoinstall.plesk.com/autoinstall/debian/PSA_9.5.0
destination_directory/debian
```

```
rsync -au—delete
rsync://rsync.autoinstall.plesk.com/autoinstall/unbuntu/PSA_9.5.0
destination_directory/ubuntu
```

```
rsync -au—delete
rsync://rsync.autoinstall.plesk.com/autoinstall/debian/PSA_9.5.0/
destination_directory/debian/PSA9
```

```
rsync -au—delete
rsync://rsync.autoinstall.plesk.com/autoinstall/ubuntu/PSA_9.5.0/
destination_directory/ubuntu/PSA9
```

```
cd destination_directory; ln -s PSA_9.5.0 PSA9
```

```
rsync -auv—delete
rsync://rsync.autoinstall.plesk.com/'autoinstall/products.inf3
autoinstall/versions.inf3 autoinstall/plesk.inf3'
destination_directory
```

5. Edit the files `versions.inf3` and `products.inf3`: remove all entries related to the products and versions that your mirror does not provide.

➢ ***To set up a mirror for all versions of Parallels Plesk Panel and Sitebuilder available from rsync.autoinstall.plesk.com (requires transfer of 150 gigabytes of data and the same amount of free disk space on the server):***

1. Log in to the server where you are going to set up a mirror.
2. Issue the command `rsync -au—delete rsync://rsync.autoinstall.plesk.com/autoinstall /destination_directory`.

Note: For more information about the Rsync utility, visit http://samba.anu.edu.au/rsync/

Simplifying Installation and Upgrade of Parallels Plesk Panel on Numerous Servers with Parallels Products Installer Configuration File

➢ ***To simplify installation and upgrade of Parallels Plesk Panel on numerous servers:***

1. Create a configuration file that will tell the Parallels Products Installer where to get updates, which temporary directory on the server to use during deployment, and what components installed on the system the installer must not overwrite, upgrade, or otherwise modify. The file must be in the text format. Refer to the table below for the list of options and syntax you can use.
2. Save the configuration file under name `.autoinstallerrc` and copy it to the `/root/` directory on each server where Parallels Plesk Panel should be installed or upgraded. During installation or upgrade initiated through the Parallels Plesk Panel or command line, the installer will read the configuration file and use the options you specified as default.

Table. The options you can specify in the `.autoinstallerrc` file.

Option	Description and possible arguments
SOURCE_TYPE=”local”, “network”, “plesk”	Specify the location of Parallels Plesk Panel packages: type “local” for local file system, “plesk” for the official Parallels Plesk Panel update server at http://autoinstall.plesk.com (the URL is hardcoded in the installer binary), and “network” for any network server (ftp, http and https protocols are supported). Example: SOURCE_TYPE=”plesk”
SOURCE=”path”, “url”	When retrieving Parallels Plesk Panel packages from a local file system, specify the local path to the file that contains the information on the Parallels Plesk Panel build you want to install. When retrieving Parallels Plesk Panel packages from a network server, specify the URL of the directory where the mirror of Parallels Plesk Panel update server resides.

USE_PLESK_UPDATES=”yes”, “no”	To retrieve only Parallels Plesk Panel distribution files from the Parallels Plesk Panel Update server, specify USE_PLESK_UPDATES=”no”. If you also wish to retrieve the updates for your operating system, specify USE_PLESK_UPDATES=”yes”.
ADDITIONAL_SOURCE=”<type>, <priority>, <url>, <username>, <password>”	To retrieve updates for server’s operating system from vendor sites, specify the following option with arguments: ADDITIONAL_SOURCE=”<type>, <priority>, <url>, <username>, <password>” Replace <type> with repomd value, priority with a number from 1 to 999 (999 is the highest priority), and <url> with a URL of the vendor updates source. The values <username> and <password> are required only if your vendor’s site requires authentication.
TARGET	By default, the installer saves the retrieved files in the directory `/<current user name>/psa`. For instance, if the installer was executed by user root, the `/root/psa` directory will be created and used. If you want to use a custom directory for storing the retrieved files, use the TARGET option. Example: TARGET= “/opt/storage/plesk”
PROXY_HOST=”network address”	When using a proxy server or firewall, use this option to specify proxy server domain name or IP address. Example: PROXY_HOST=”proxy.example.com”
PROXY_PORT=”port number”	Default port for connecting to proxy server is 3128. If your proxy server uses different port number, you should specify it using this option. Example: PROXY_PORT=”5741”
Proxy authentication options: PROXY_USER=”user name” PROXY_PASSWORD= “password”	If your proxy server requires authentication, you should use these options to authenticate the installer at the proxy server. Example: PROXY_USER=”doe” PROXY_PASSWORD= “f1sZ9AnQ4EnO52”
ALLOW_KERNEL_INSTALL=”yes”, “no”	Use the option ALLOW_KERNEL_INSTALL=”yes” if you want to allow kernel upgrade. By default, the installer does not make any kernel upgrades. Note that the installer installs new kernels to the system, leaving the older kernel aside so that you can revert to it at any time.
IGNORE_KEY_ERRORS=”yes”, “no”	To be able to upgrade to a newer version of the Parallels Plesk Panel that requires a license key that you may or may not have at the moment, specify IGNORE_KEY_ERRORS=”yes”. For example, if you had Parallels Plesk Panel 8.6 installed with a valid license key, and decided to upgrade to Parallels Plesk Panel 9.5, having the IGNORE_KEY_ERRORS=”yes” directive in the configuration file will make the installer retrieve a license key for Parallels Plesk Panel 9.5 that you previously ordered, otherwise it will retrieve and install a trial license key. Specifying IGNORE_KEY_ERRORS=”no”, you will not be able to upgrade Parallels Plesk Panel until you obtain the appropriate license key.

NOTIFY_EMAIL=”e-mail address”	Use this option to have the installer send you status reports by e-mail. A successful completion report includes a list of installed/upgraded packages with a detailed log.
HOLD_PACKAGES=”package name1”, “package name2”	Specify the packages that the installer should not upgrade, modify or delete from the system. Example: HOLD_PACKAGES=”apache2.*”, “mysql*.*”
NO_CLEAR_SCREEN=”yes”, “no”	Specify whether the installer should clear the screen after each performed operation.
TRUNCATE_LOG=”yes”, “no”	By default, the installer keeps a single log file (“no” option is used) and adds the information on each installation or upgrade process to the end of this file. Specifying TRUNCATE_LOG= “yes” will clear the log file before each installation or upgrade.
SEPARATE_LOGS=”yes”, “no”	If you wish to have separate log files for each installation or upgrade, specify SEPARATE_LOGS=”yes”, otherwise, the installer will use one log file for all installations and upgrades.
DEBUG=”yes”, “no”	Specifying DEBUG=”yes” will make the installer write detailed information on installation or upgrade progress to the log file. Specifying DEBUG=”no”, will make the installer write only general information to the log file.
OVERRIDE_OS_NAME=”Linux”, “FreeBSD”, or “MacOS”	If the installer detects your operating system incorrectly, you can work around this by explicitly specifying your operating system.
OVERRIDE_OS_VENDOR=”Fedora”, “RedHat”, “Debian”, “SuSE”, “CentOS”, “Apple”	If the installer detects your operating system distribution incorrectly, you can explicitly specify it.
OVERRIDE_OS_VERSION=”version number”	If the installer detects your operating system version incorrectly, you can explicitly specify it.
OVERRIDE_OS_ARCH=”i386”, “x86_64”	If the installer detects your operating system’s architecture incorrectly, you can explicitly specify it.
OVERRIDE_ENVIRONMENT=””, “vz”	If the installer does not detect that you are operating within a Parallels Virtuozzo Container, you can explicitly specify it: OVERRIDE_ENVIRONMENT=”vz”.

Installing Parallels Plesk Panel Remotely on a Number of Servers

➢ ***To install Parallels Plesk Panel on a number of servers:***

1. If you have not obtained the Parallels Products Installer utility yet, download a distribution that suits your operating system from the URL http://www.parallels.com/en/download/plesk9/ and save it on your server's hard drive.

   The utility is a binary file named as follows: `parallels_installer_v<installer version>_os_<operating system version>_<platform>`. If you have Parallels Plesk Panel installed on the server, you can use the parallels_installer binary file, which is stored in the directory `/usr/local/psa/admin/bin/` on RPM-based Linux, FreeBSD and Mac OS systems, and `/opt/psa/admin/bin/` on deb-based Linux systems.

2. Copy the Parallels Products Installer binary file to the server where you need to install Parallels Plesk Panel.

3. Set the executable bit in file permissions by running the command:

   ```
   chmod 755 parallels_installer
   ```

4. Compile a list of Parallels Products Installer options and arguments. Further (at the step 5) you will need to add these options to the installation script we have prepared for you.

   a. To specify what Parallels Plesk Panel version to install, you will need to know its release ID. To get a list of versions and their identifiers, run the Parallels Products Installer with the following options:

      ```
      parallels_installer—show-all-releases
      ```

      A list of product versions will be displayed:

      plesk PLESK_9_5_0 (Parallels Plesk Panel 9.5.0)

      plesk PLESK_8_6_0 (Plesk 8.6.0)

      plesk PLESK_8_4_1 (Plesk 8.4.1)

      plesk PLESK_8_4_0 (Plesk 8.4.0)

      plesk PLESK_8_3_0 (Plesk 8.3.0)

      plesk PLESK_8_2_1 (Plesk 8.2.1)

      plesk PLESK_8_2_0 (Plesk 8.2.0)

      plesk PLESK_8_1_1 (Plesk 8.1.1)

      plesk PLESK_8_1_0 (Plesk 8.1.0)

      plesk PLESK_8_0_1 (Plesk 8.0.1)

      plesk PLESK_8_0_0 (Plesk 8.0.0)

plesk PLESK_7_5_4 (Plesk 7.5.4)

plesk PLESK_7_1_7 (Plesk 7.1.7)

sitebuilder SB_4_2_0 (Sitebuilder 4.2.0)

sitebuilder SB_4_1_0 (Sitebuilder 4.1.0)

sitebuilder SB_4_0_0 (Sitebuilder 4.0.0)

sitebuilder SB_3_0_2 (Sitebuilder 3.0.2)

sitebuilder SB_3_0_1 (Sitebuilder 3.0.1)

sitebuilder SB_3_0_0 (Sitebuilder 3.0.0)

sso SSO_2_0 (SSO 2.0)

sso SSO_2_1 (SSO 2.1)

parallels PARALLELS_2_2 (Parallels Workstation 2.2)

Release identifiers are shown on the left, and release names are given in brackets. You will need to use these identifiers when working with the Parallels Products Installer through command line. For instance, if you want to install Parallels Plesk Panel 9.5, you will need to specify the release ID 'PLESK_9_5_0'.

b. Decide on the components that you want to install. To retrieve a list of components for the selected product version, use the—show-components option. For Parallels Plesk Panel 9.5 you should type:

```
parallels_installer—select-release-id PLESK_9_5_0 --show-components
```

A list of components will open displaying component identifiers in the left part, and brief descriptions in the right part:

base	[install] - Base packages of Parallels Plesk Panel
parallels_installer	[install] - Parallels Products Installer
php4	[install] - PHP4 support
postgresql	[install] - PostgreSQL server support
vault	[install] - Application vault packages
docs	[install] - Additional Parallels Plesk Panel users' guides
ppwse	[install] - Parallels Plesk Panel Professional Web Site Editor
api	[install] - Parallels Plesk Panel API [former Plesk Agent]
pmm	[install] - Parallels Plesk Panel migration manager
sb-publish	[install] - Sitebuilder publishing support for Parallels Plesk Panel
sbm	[install] - Sitebuilder module migration suite
cf-support	[install] - ColdFusion support for Parallels Plesk Panel
miva	[install] - MIVA Empresa support
mod-bw	[install] - Bandwidth Limiter For Apache support (mod_bw)
asp	[install] - Apache ASP support
java	[install] - Tomcat Java Servlets support

mod_python [up2date] - Apache mod_python module
ruby [install] - Ruby on Rails support
fcgi [install] - FastCGI support (mod_fcgid)
qmail [install] - Qmail mail server
postfix [install] - Postfix mail server
psa-firewall [install] - Parallels Plesk Panel Firewall module
psa-vpn [install] - Parallels Plesk Panel VPN module
psa-fileserver [install] - Parallels Plesk Panel File server module and SMB file server package
sshterm [install] - SSHTerm - SSH Terminal Java applet
watchdog [install] - Watchdog (System monitoring module)
cs-gs [install] - Parallels Plesk Panel Counter-Strike game server module
battlefield [install] - Parallels Plesk Panel Battlefield 1942 game server module
bf2 [install] - Parallels Plesk Panel Battlefield 2 game server module
mailman [install] - Mailman mailing list manager support
kav [install] - Kaspersky antivirus module
drweb [install] - Parallels Premium Antivirus by Dr. Web
spamassassin [install] - SpamAssassin support
rblsmtpd [install] - Real-time Blackhole List client for qmail
backup-ded [install] - Parallels Plesk Panel Backup Manager
atis [install] - Acronis True Image module
de-DE-locale [install] - German language pack
es-ES-locale [install] - Spanish language pack
fr-FR-locale [install] - French language pack

Therefore, for Parallels Plesk Panel 9.5 installation comprising the components ‘base’, ‘postgresql’ and ‘asp’, you will need to use the following string of options and arguments: ‘`—select-release-id PLESK_9_5_0 --install-component base—install-component postgresql—install-component asp`’.

c. If you have set up a local mirror of Parallels Plesk Panel updates server (as described in the Setting up mirrors (on page 24) section of this guide), you will need to include the following option into the installation script: `--source-type network—source <mirror URL>`.

d. By default all downloaded packages are stored in the `/root/psa` directory. If you wish to use another directory, you should use the option '`—target /<directory name>`'.

e. If you wish to receive installation progress reports by e-mail, you should include the '—notify-email <your e-mail address>' option.

f. To avoid being prompted for password each time you connect via SSH to the servers where Parallels Plesk Panel should be installed, place your public key to the list of authorized keys of user root on each server (see SSH documentation for details on the procedure).

5. Prepare the installation script based on the example below. Replace the options in the example script with the ones you prepared, and specify server names in the 'SERVERS_LIST=' string separated by white spaces:

```
#!/bin/sh

SERVERS_LIST="node1.example.com node2.example.com"

for current_server in $SERVERS_LIST; do
scp parallels_installer root@current_server:
ssh -f root@current_server "parallels_installer—source-type
network—source http://updates.example.com/ --target /tmp/plesk—
select-release-id PLESK_9_5_0 --install-component base—install-
component postgresql—install-component asp—notify-email
admin@example.com"
done
```

6. Run the script. It will copy the Parallels Products Installer to the specified servers and install Parallels Plesk Panel. Keep the passwords for access to the servers at hand, as you may be required to specify them.

Installing Parallels Plesk Panel in Parallels Containers Environment

The section covers only the essential steps that must be performed using Parallels Containers CLI to deploy Parallels Plesk Panel, focused on creating a Container with Parallels Plesk Panel. For further details on Parallels Container CLI, or the Parallels Containers API (XML or SOAP) functionality, refer to the Parallels Containers developer documentation (http://www.parallels.com/ptn/documentation/virtuozzo/).

Deploying Parallels Plesk Panel in a Parallels Containers environment implies the following two stages:

1. Installing Parallels Plesk Panel application template on a hardware node.
2. Creating a Container and deploying the application from the template.

The first stage is performed on each hardware node only once: As soon as an application template is installed on a hardware node, it can be deployed to as many Containers as required. Instead of creating a new Container every time you need to deploy a Container with the Panel, there is always an option of cloning an existing Container where the Panel is installed, which acts as a sort of Template Container.

When the template is being installed on a hardware node, the core set of files is deployed, which includes definition of the application packages repository. Then, when the application is installed in a container, Parallels Containers communicates with the repository (default repository for Parallels Plesk Panel for Linux/Unix is Parallels Updates server at http://autoinstall.plesk.com) and retrieves the application packages and installs them in the container. The packages are stored in the node cache until it is cleaned up, and then the packages are retrieved form the repository again when the application is installed in the Container. To save up traffic and time, you may want to use a custom mirror of the Panel repository.

➢ *To install the Parallels Plesk Panel template on a Parallels Containers hardware node using the vzup2date utility:*

1. Connect to the target Parallels Containers hardware node over SSH.
2. Install the application template by issuing a command of the following format:

   for EZ templates:

   ```
   vzup2date -z
   ```

   for standard templates:

   ```
   vzup2date -t
   ```

3. Select the required OS and application templates and click **Next** to start installation.

➢ *To install the Parallels Plesk Panel templates on a Parallels Containers hardware node manually:*

1. Obtain a Parallels Plesk Panel template from the Parallels Web site (http://www.parallels.com) and upload it to the target Parallels Containers hardware node.
2. Install the application template by issuing a command of the following format:

```
rpm -Uvh <path_to_package>
```

For example, the following command installs Parallels Plesk Panel and Qmail templates:

```
# rpm -Uvh plesk9.5-redhat-el5-x86-ez-3.0.0-35.prl.289645.noarch.rpm
plesk9.5-qmail-redhat-el5-x86-ez-3.0.0-35.prl.289645.noarch.rpm
```

➢ *To use a custom mirror:*

1. Set up a mirror as explained in the Setting Up Mirrors (on page 24) section.
2. On the hardware node, edit the file declaring the repository URL:
   a. Open for editing file `/vz/template/Linux/<os-version>/<platform>/config/app/<app-template-name>/default/repositories`.

      For example: `/vz/template/Linux/<os-version>/<platform>/config/app/plesk9.5/default/repositories`.

   b. Replace the Parallels Updates server URLs with the corresponding ones of your mirror and save the file.
3. Clean or re-fetch the packages metadata.

   You can do this, for example, with the `vzpkg clean` command. For details, refer to the *Parallels Containers for Linux Reference Guide* located at the Parallels Technology Network (http://www.parallels.com/ptn/documentation/virtuozzo/).

➢ *To create a new Container and install Parallels Plesk Panel in it:*

1. Create a container and, optionally, configure it according to your needs.

   Issue the following commands:

```
vzctl create <CTID> [options]
vzctl set <CTID> <setting_name> <value> [--save]
```

   where

   - *<CTID>* defines an arbitrary container ID number higher than 100, which is unique on the hardware node
   - `--save` switch tells `vzctl` whether to save changes into the Container configuration file

---

Note: For details on the Container creation and configuration options, refer to the *Parallels Containers for Linux Reference Guide* located at the Parallels Technology Network (http://www.parallels.com/ptn/documentation/virtuozzo/).

For example, the commands below do the following:

1. create a Container with ID 444 with IP 10.100.1.2, based on the default OS template defined in the global Parallels Containers configuration file
2. set barrier and limit for unswappable kernel memory, private (or potentially private) memory, number of files opened by all Container processes, disk space and a total number of disk inodes (files, directories, symbolic links) a Container can allocate
3. save the barrier/limit values to the Container configuration file
4. enable managing the Container using Web browser (by prohibiting offline management with the "`–offline_management no`" option)

Note: It is very important that you set this option exactly as in the example. Otherwise, the panel might be inaccessible through a Web browser.

```
# vzctl create 444 --pkgset suse-9.3 --config vps.plesk7.rh9 --
skip_app_templates
# vzctl set 444 --ipadd 10.100.1.2 --hostname test.my.com—save
# vzctl set 444 --save—kmemsize 24299200:26429120 --privvmpages
362144:392912 --numfile 12000:12000 --diskspace 5117880:5242880 --
diskinodes 350000:370000 --offline_management no
```

2. Start the newly created Container:

```
# vzctl start <CTID>
```

3. Install Parallels Plesk Panel template into the container:

   - with EZ templates:

```
vzpkg install <CTID> <ppp_template_name> ...
```

   For example, the following command installs Parallels Plesk Panel Suite:

```
# vzpkg install 444 plesk9.5 plesk9.5-billing plesk9.5-sb-publish
sitebuilder4
```

   - with Standard templates:

   Prior to Parallels Plesk Panel installation, install the templates for PHP, MySQL, AWStats, PostgreSQL and Mod Perl into the container:

```
# vzpkgadd 444 php-suse93 mysql-suse93 awstats-suse93 postgresql-
suse93 mod_perl-suse93
```

   Install Parallels Plesk Panel template into the container:

```
vzpkgadd <CTID> <ppp_template_name>/<timestamp> ...
```

   Note: To install Parallels Plesk Panel versions 9.0 or higher with the `psa-suse93` template, you must always install the `psa-bu-suse93` template.
   To install the latest available versions of the templates, use templates names without timestamps. To install specific versions of templates, use templates names with timestamps.

   For example, the following command installs the latest versions of Parallels Plesk Panel and SpamAssassin:

```
# vzpkg install 444 psa-suse93 psa-spamassassin-suse93 psa-bu-
suse93
```

   This command installs Parallels Plesk Panel and SpamAssassin for version 9.5.0:

```
# vzpkg install 444 psa-suse93/20100217 psa-spamassassin-
suse93/20100217 psa-bu-suse93/20100217
```

➢ *To clone a Container:*

Issue command of the following format:

vzmlocal -C {CT List}

{CT List} = <source_CTID>:<dst_CTID>[:[<dstCT_private>][:<dstCT_root>]] [...]

You should specify the source Container ID (*<source_CTID>*) and the destination Container ID (*<dst_CTID>*). Specifying the destination Container private area path (*<dstCT_private>*) and root path (*<dstCT_root>*) is optional; it allows you to override the default paths - /vz/private/*<dst_CTID>* and /vz/root/*<dst_CTID>*, correspondingly. For details on the command options, refer to the *Parallels Containers for Linux Reference Guide* located at the Parallels Technology Network (http://www.parallels.com/ptn/documentation/virtuozzo/).

Upgrading Parallels Plesk Panel in Parallels Containers Environment

For example, to clone the Container with Parallels Plesk Panel created during the previous procedure, run the following command:

```
# vzmlocal -C 444:445
```

Upgrading Parallels Plesk Panel with Standard Templates

➢ *To upgrade Parallels Plesk Panel installed with Standard templates in Parallels Containers environment:*

- install new versions of all previously installed templates

  Exception: psa-fcgid-suse93 template was dropped since Parallels Plesk Panel 9.x, so you must not specify this template for upgrade to Parallels Plesk Panel 9.x.
- add new templates if required.

```
# vzpkgadd <CTID> <list of all templates>
```

To install the latest available versions of the templates, use templates names without timestamps. To install specific versions of templates, use templates names with timestamps.

For example, if you have o upgrade to the latest available version, run the following command:

vzpkgadd 2345 psa-suse93 psa-spamassassin-suse93 psa-bu-suse93

If you have Parallels Plesk Panel 9.5.0 and SpamAssassin installed with templates timestamp 20100217, to upgrade to the next version with timestamp 20100317, run the following command:

vzpkgadd 2345 psa-suse93/20100317 psa-spamassassin-suse93/20100317 psa-bu-suse93/20100317

Major upgrade from previous Parallels Plesk Panel versions with EZ Templates

➢ *To upgrade Parallels Plesk Panel 8.x or 9.x to 9.5 installed with EZ templates in Parallels Containers environment:*

1. Install the latest versions of Parallels Plesk Panel templates on the hardware node with the following command:

```
rmp -Uvh <list of vztemplates>
```

2. Do not remove templates for previous versions of Parallels Plesk Panel and install the latest versions of Parallels Plesk Panel templates in the container with the following command:

```
vzpkg install <CTID> <list of selected plesk9.5* templates>
```

   For example,

```
# vzpkg install <CTID> plesk9.5 plesk9.5-antivirus ...
```

Important: Do not remove templates of previous Parallels Plesk Panel versions from the VPS prior to upgrade.

Note: Preferably the new version templates list contains all templates corresponding to the ones installed in the previous Parallels Plesk Panel version. Usually, only the prefix changes from plesk8 or plesk9 to plesk9.5 in the template name. For example, when you have the following list of installed templates:
plesk8 plesk8-antivirus plesk8-api plesk8-backup plesk8-sb-publish
the list will be changed in the following way:
plesk9.5 plesk9.5-antivirus plesk9.5-api plesk9.5-backup plesk9.5-sb-publish
The rule can be generalized as follows:
plesk8-X => plesk9.5-X
plesk9-X => plesk9.5-X
Though there are some exceptions:
plesk8 => plesk9.5 plesk9.5-qmail
plesk8-fcgid => plesk9.5

plesk8-modules => plesk9.5-battlefield plesk9.5-bf2 plesk9.5-psa-fileserver plesk9.5-psa-firewall plesk9.5-psa-vpn plesk9.5-watchdog plesk9.5-sbm

Note: plesk9.5-qmail and plesk9.5-postfix templates cannot be installed at the same time; plesk9.5-php4-sb-publish and plesk9.5-php5-sb-publish templates cannot be installed at the same time on SuSE 10 (x86 or x86_64);
plesk9.5-php4-sb-publish and plesk9.5-atmail templates cannot be installed at the same time on SuSE 10 (x86 or x86_64).

Note: It is highly recommended to specify the EZ template of the mail server which you want to use (plesk9.5-qmail or plesk9.5-postfix), when you install Parallels Plesk Panel using EZ templates.

Note: Atmail might not be installed when installing Parallels Plesk Panel through EZ templates since Atmail requires PHP5, while EZ templates might install only PHP4 depending on your operating system and system configuration. To resolve this issue, install Atmail before installing other Parallels Plesk Panel templates or together with them.

Minor upgrade of Parallels Plesk Panel 9.5 with EZ Templates

➢ *To upgrade Parallels Plesk Panel 9.5 installed with EZ templates templates to the latest available 9.5 version:*

- On deb-based Oses, run the following command:

```
vzpkg install -f <CTID> <list of all installed plesk9.5* templates>
```

For example,

```
# vzpkg install -f <CTID> plesk9.5 plesk9.5-antivirus
```

- On rpm-based OSes, run the following command:

```
vzpkg update <CTID> <list of all installed plesk9.5* templates>
```

For example,

```
# vzpkg update <CTID> plesk9.5 plesk9.5-antivirus
```

Installing a new component for Parallels Plesk Panel 9.5 with EZ Templates

To install an additional component in a Parallels Container with installed Parallels Plesk Panel templates, run the following command:

```
vzpkg install <CTID> <list of additional not installed yet
components>
```

For example,

```
# vzpkg install <CTID> plesk9.5-vault-next-popular plesk9.5-ppwse
```

Applying Micro-updates to Parallels Plesk Panel in Parallels Containers Environment

Note: Prior to installation of new components, it's highly recommended to update the container to the latest available version of Parallels Plesk Panel.

The ability to update Parallels Panel by micro-updates was implemented in Parallels Panel for Linux/Unix since version 9.2.3. The current implementation does not allow to install micro-updates automatically if Parallels Panel for Linux is deployed inside containers using Parallels Virtuozzo templates.

You can apply micro-updates to Parallels Plesk Panel deployed inside a Virtuozzo Containers with Virtuozzo templates in the following ways:

- Apply the latest micro-updates after provisioning of a container using a command-line utility;
- Create a script applying micro-updates to Parallels Plesk Panel after the Virtuozzo templates installation.

To apply the latest micro-updates to Parallels Plesk Panel after provisioning of a container, run this command inside the container:

$PRODUCT_ROOT_D/admin/sbin/autoinstaller—select-product-id plesk—select-release-current—reinstall-patch—install-component base

➢ *To create a script that applies micro-updates to Parallels Plesk Panel after VZ templates installation, do the following:*

1. Create a `post-install` file with the command in the plesk EZ template directory.

Example for Plesk 9.5 EZ template:

```
# cat /vz/template/centos/5/x86/config/app/plesk9.5/default/post-install
# !/bin/bash
echo "Microupdates applying"
/usr/local/psa/admin/sbin/autoinstaller—select-product-id plesk—select-release-current—reinstall-patch—install-component base—separate-logs 2>/dev/null &1>/dev/null || true
```

Note: The `/usr/local/psa` path should be changed according to the `$PRODUCT_ROOT_D` variable value. You can find out the exact value of the `$PRODUCT_ROOT_D` variable from the `/etc/psa/psa.conf` file on the Parallels Plesk Panel server. The `/usr/local/psa` value is suitable for the most RPM-based systems.

2. Set 755 permissions to the created file:

```
# chmod 755 /vz/template/centos/5/x86/config/app/plesk9.5/default/post-install
```

This script will be executed after all EZ templates installation if plesk9.5 template is in the list of templates.

Additionally, create a script for applying micro-updates to already existing containers with installed Parallels Plesk Panel.

➢ *To create a post-update script:*

1. Create a `post-update` script with the same content as the `post-install` file:

```
# cp /vz/template/centos/5/x86/config/app/plesk9.5/default/post-
install
/vz/template/centos/5/x86/config/app/plesk9.5/default/post-update
```

2. Check permissions of this file:

```
# ls -la
/vz/template/centos/5/x86/config/app/plesk9.5/default/post-update
•  rwxr-xr-x  1 root root 201 Mar 12 20:41
/vz/template/centos/5/x86/config/app/plesk9.5/default/post-update
```

3. To apply micro-updates to already existing containers with installed Parallels Panel, run the command of the following format:

```
# vzpkg update <CTID> <list of installed templates including
plesk9.5>
```

Example:

```
# vzpkg update 888 plesk9.5 plesk9.5-qmail postgresql
```

Upgrading Parallels Plesk Panel With EZ/STD Templates Under PBAs (HSPc)

Note: In PBAs (HSPc) the EZ templates are installed separately. To avoid rewriting files of micro-updates by packages files, add the `post-install` script into all plesk9-* VZ templates. It might critically affects installation time.

To upgrade Parallels Plesk Panel in a Parallels Virtuozzo Container created by a hosting plan such as Virtuozzo Container or Plesk Virtual Node, you need to upgrade this hosting plan. Upgrade of a hosting plan depends on whether a Parallels Plesk Panel license is included into it.

➢ *To upgrade Plesk Virtual Node or Virtuozzo Container hosting plan that doesn't include a Parallels Plesk Panel license:*

1. Go to **Top** > **Billing Director** > **Product Manager** > **Hosting Plans** and select the hosting plan which was used for creating the VPS you want to upgrade.
2. On the **General Settings** tab, click **Clone** to create a clone of the hosting plan.
3. On the **Applications** tab of the clone hosting plan, add templates for a new version of Parallels Plesk Panel. To upgrade the product during the hosting plan upgrade, switch on the core Parallels Plesk Panel template, to which you will upgrade.

   Important: Do not delete old Parallels Plesk Panel templates. If you delete the old templates and upgrade to this hosting plan, your previous version of Parallels Plesk Panel will be deleted.

   Note: If you use standard templates, in the new hosting plan switch on all the templates of the new version corresponding to switched on templates of the old version.
4. Update other hosting plan settings if required.
5. To upgrade the container, go to the subscription used for the VPS creation: **Top** > **Account Director** > **Subscription Manager** > **Subscriptions** > [Container Name] > **General Settings** > click **Change Hosting Plan** and select the newly created hosting plan.

➢ *To upgrade Plesk Virtual Node or Virtuozzo Container hosting plan that includes a Parallels Plesk Panel license:*

1. Go to **Top** > **Billing Director** > **Product Manager** > **Hosting Plans** and select the hosting plan which was used for creating the VPS you want to upgrade.
2. On the **General Settings** tab, click **Clone** to create a clone of the hosting plan.
3. On the **Applications** tab of the clone hosting plan, add templates for a new version of Parallels Plesk Panel. To upgrade the product during the hosting plan upgrade, switch on the core Parallels Plesk Panel template, to which you will upgrade.

   Important: Do not delete old Parallels Plesk Panel templates. If you delete the old templates and upgrade to this hosting plan, your previous version of Parallels Plesk Panel will be deleted.

   Note: If you use standard templates, in the new hosting plan switch on all the templates of the new version corresponding to switched on templates of the old version.

4. On the **Licenses** tab of the clone hosting plan, add a license for the new version of Parallels Plesk Panel and delete the license for the old product version.
5. Update other hosting plan settings if required.
6. To upgrade the container, go to the subscription used for the VPS creation: **Top** > **Account Director** > **Subscription Manager** > **Subscriptions** > [Container Name] > **Billable Items** > open the previous Parallels Plesk Panel version license settings and click **Terminate** to delete the license.
7. Go back to the container subscription and on the **General Settings** tab click **Change Hosting Plan** and select the newly created hosting plan.

   When the hosting plan is changed, Parallels Plesk Panel will automatically upgrade with the default license. To obtain a license for the new version of Parallels Plesk Panel, go to the Upgrade Center of PBAs control panel.

CHAPTER 6

Installing License Keys

Once the installation/upgrade is completed, a trial license key that unlocks a limited number of features is installed to your Parallels Plesk Panel. You should obtain a new license key that provides basic functionality to be able to fully use Parallels Plesk Panel to your advantage.

The license key is automatically updated every six months regardless of your Software Update Service subscription term. To allow proper license handling, be sure to leave the port 5224 open for outgoing connections.

In this chapter:

Upgrading the Trial License Key Through the Parallels Plesk Panel Interface

➢ ***To upgrade the trial license key through the Parallels Plesk Panel interface:***

1. Log in to Parallels Plesk Panel as administrator.
2. On your Home page, click **License Management**, and then click **Order Parallels Plesk Panel Upgrades**.
3. The Parallels online store will open in a separate browser window. In this window, select the items and features you want to include into your Parallels Plesk Panel license and click **Submit**. In the next steps, indicate the currency, number of license keys, provide contact details, billing address, and payment method, and submit the form. The new key will be sent to the specified e-mail address.
4. Save the new key to the hard drive on your local machine.
5. Open again the **License Management** screen in Parallels Plesk Panel (**Home** > **License Management**) and click **Upload Key**.
6. Enter the path to the key file that you saved on your local machine or click **Browse** to locate it.
7. Select the **Replace the currently installed license key with the selected one** check box to confirm that you really want to replace the current license key with the new one.

   If this check box is not selected, the new license key will not be installed and installation will be aborted.
8. If your new license key allows hosting fewer sites than you already host on the server, Parallels Plesk Panel will stop working. However, to prevent the Parallels Plesk Panel from comparing the amount of the resources used and those covered by the new key, select the **Do not check the limits on resource usage defined by the key** check box.

   This might be helpful if you want to temporarily install a license key that covers less resources and then upgrade it through the Parallels Plesk Panel interface.
9. Click **OK** to install the new key to the Parallels Plesk Panel.

If you experience any problems, please contact sales@parallels.com.

Installing License Keys Through the Parallels Plesk Panel Interface

➢ ***To install a license key through the Parallels Plesk Panel interface:***

1. On your Home page, click **License Management**.
2. If you wish to upload a key for an additional Parallels Plesk Panel feature, select the **Additional License Keys** tab.
3. Click the **Upload Key** icon.
4. Specify the path to the license key file location: enter the path into the input box provided, or click **Browse** to browse for the desired location.
5. Click **OK** to submit. Parallels Plesk Panel will upload the given license key file to your Parallels Plesk Panel.

Installing License Keys Through the Command Line

Once you have the new license key stored on your local machine, you can install it from the command line.

➢ ***To install a new license key from the command line:***

1. Copy the license key from your local machine to the Parallels Plesk Panel host:

   ```
   scp license_key_file_name.sh root@your_plesk_host_name:~/
   ```

2. Connect to your Parallels Plesk Panel host over SSH:

   ```
   ssh root@your_plesk_host_name
   ```

3. To install the license key, run the following command:

   ```
   sh license_key_file_name.sh
   ```

CHAPTER 7

Configuring Access to Vendor Updates for Your Server's Operating System

To keep your server's operating system up-to-date, you may want to configure the Parallels Products Installer so as to notify you of new update packages available from your vendor. Note that the Parallels Products Installer will not install any packages without your confirmation, it will only notify you.

Note: This option is available only for RPM-based operating systems.

➢ ***To have the Parallels Products Installer check vendor sites for updates:***

1. Log in to your Parallels Plesk Panel as administrator (*admin* user).
2. Go to **Home** > **Updates** > **Preferences**.
3. Select the **Check for updates upon administrator's login to control panel** check box and click **OK**.
4. Create a text file with name `.autoinstallerrc` in the `/root/` directory on the server, or, if you previously created this file, modify it. Add the following line to the file:

   `ADDITIONAL_SOURCE="<type>, <priority>, <url>, <username>, <password>"`

   where you should replace `<type>` with repomd value, `<priority>` with a number from 1 to 999 (999 is the highest priority), and `<url>` with a URL of the vendor updates source. The values `<username>` and `<password>` are required only if your vendor's site requires authentication.
5. Save the file and exit from the text editor.

CHAPTER 8

Removing Parallels Plesk Panel from Linux Systems

Important: Following this procedure you will completely remove Parallels Plesk Panel and erase all user data.

It is recommended that you have a Parallels Plesk Panel distribution package at hand, because you will need to know the titles of RPM packages that your installation of Parallels Plesk Panel comprises.

To list the packages versions on RPM-based operating systems, issue the following command:

```
rpm -qa | grep psa-
```

To list versions of packages on Debian-based operating systems, issue the following command:

```
dpkg -l | grep psa-
```

➢ *To remove Parallels Plesk Panel from a Linux system:*

1. Log in to your Parallels Plesk Panel server as user root.
2. To remove all packages, issue the following command:

   on RPM-based operating systems: `rpm -e 'rpm -qa | grep psa- | xargs'`

   on Debian-based operating systems: `dpkg -r 'dpkg -l | grep psa- | awk '{print $2}''`
3. Delete all databases and database tables used by Parallels Plesk Panel:

   ```
   #mysql -uadmin -p'cat /etc/psa/.psa.shadow'
   drop database psa;
   drop database horde;
   ```
4. Find out in which directory virtual hosts reside. To do this, open `/etc/psa/psa.conf` file and look up the value assigned to the '`HTTPD_VHOSTS_D`' variable. Delete this directory by running the following command:

   ```
   rm -rf /directory_name/*
   ```
5. Erase all data related to mailboxes:

   ```
   #rm -rf /var/qmail/mailnames/*
   ```
6. Delete other directories used by Parallels Plesk Panel:

```
#rm -rf /usr/local/psa/
#rm -rf /etc/psa
#rm -rf /var/mailman
#rm -rf /var/drweb
#rm -rf /var/lib/webalizer
#rm -rf /var/tomcat4 (if you had Tomcat 5 installed, run rm -
rf /var/tomcat5)
```

7. Delete all references to DNS zones from the file `/var/named/conf/named.conf`, remove zone files from `/var/named/run-root/var/`, and modify the files in the directory `/var/qmail/control` appropriately.

CHAPTER 9

Removing Parallels Plesk Panel from FreeBSD Systems

➢ ***To remove Parallels Plesk Panel from your server, follow these steps:***

1. Log in to Parallels Plesk Panel server as root.
2. Run the command: `/usr/local/etc/rc.d/psa.sh stop`
3. Run the command: `pkg_delete 'pkg_info | grep psa | awk '{print $1}' | xargs -n100'`
4. Run the command: `rm -rf /usr/local/psa`
5. Run the command: rm -rf /usr/local/etc/psa
6. Run the command: rm -rf /usr/ports/swsoft
7. Run the command: rm -rf /etc/psaecho 'DROP DATABASE psa' | mysql -uadmin -p<password>
8. Delete all references to DNS zones from the file `/var/named/etc/namedb/named.conf`, remove zone files from `/var/named/etc/namedb/master/`, and modify the file `/etc/rc.conf` appropriately, then restart the `bind` service.
9. Run the command: `rm -rf /etc/psa`

CHAPTER 10

Appendix A. Parallels Products Installer's Command Line Options

Option	Description and possible arguments
--source-type <local | network | plesk>	Specify the location of Parallels Plesk Panel packages: type 'local' for local file system, 'plesk' for the official Parallels Plesk Panel Update server (the URL is hardcoded in the installer binary), and 'network' for any network server (ftp, http and https protocols are supported).
--source <path | url>	When retrieving Parallels Plesk Panel packages from a local file system, specify the '—source' option to point to the file that contains the information on the Parallels Plesk Panel build you want to install. When retrieving Parallels Plesk Panel packages from a network server, specify the '—source <URL>' option to point to the directory where the mirror of Parallels Plesk Panel update server resides.
--add-source <type, priority, url, username, environment variable with password>	To retrieve updates for server's operating system from vendor sites, specify this option with the arguments: --add-source="<type>, <priority>, <url>, <username>, <environment variable with password>" Replace <type> with repomd value, <priority> with a number from 1 to 999 (999 is the highest priority), and <url> with a URL of the vendor updates source. The values <username> and <environment variable with password> are required only if your vendor's site requires authentication. For security reasons, you cannot specify the password in plain text; you can only assign the password to an environment variable and then specify this variable name as password. Example: export PASSWORD="my password" --add-source repomd, 100, http://download.fedora.redhat.com/fedora/linux/core/updates/2/i386, username, PASSWORD
--target	By default, the installer saves the retrieved files in the directory `/<current user name>/psa`. For instance, if the installer was executed by user root, the `/root/psa` directory will be created and used. If you want to use a custom directory for storing the retrieved files, use the '—target' option. Example: --target /opt/storage/psa
--proxy-host <network address>	When using a proxy server or a firewall, use this option to specify proxy server domain name or IP address. Example: --proxy-host proxy.mydomain.org

--proxy-port <port number>	Default port for connecting to proxy server is 3128. If your proxy server uses different port number, you should specify it using this option. Example: --proxy-port 5741
Proxy authentication options: --proxy-user <user name> --proxy-password <password>	If your proxy server requires authentication, you should use these options to authenticate the installer at the proxy server. Example: --proxy-user smith—proxy-password f1sZ9AnQ4EnO52
--show-releases	Specify this option to retrieve a list of available releases for the operating system where the installer is executed. You will be given a list of release identifiers and release descriptions. The release identifiers are what you will need to deal with.
--show-all-releases	This option shows all releases available from the Parallels Plesk Panel updates server.
--select-release-id <release id>	Use this option to specify a release version that you want to install or view properties of.
--select-release-latest	Use this option to select the latest release available for your operating system.
--show-components	Specify this to obtain the information on the components available for the selected release. Components' descriptions and names will be displayed. The component names are what you need to specify when selecting additional components to install.
--install-component <component name>	Use this option to specify the components that you wish to install. If you want to install two or more components at once, repeat this option for each component.
--install-everything	Use this option to install all components of the selected release.
--allow-kernel-install	Use this option if you want to allow kernel upgrade. By default, the installer does not make any kernel upgrades. Note that installer installs new kernels to the system, leaving the older kernel aside so that you can revert to it at any time.
--show-os-list	Use this option to find out what operating systems are supported by the Parallels Plesk Panel version you selected.
--mirror-os <OS name from OS list>	This option activates the mirroring feature in the installer. If you want to mirror releases for different operating systems, you should specify this option per each operating system.
--notify-email <e-mail address>	Use this option to have the installer send you status reports by e-mail. A successful completion report includes a list of installed/upgraded packages with a detailed log.
--enable-xml-output	This option is designed for communicating with the Parallels Plesk Panel, and it may be used for interaction with other applications. When you specify this option, all output of the installer is XML-wrapped. Note that this option disallows the installer to report errors by exit code. Exit code is always zero and all errors are reported inside XML output.

--query-status	Because RPM database does not allow multiple accesses, the installer makes a lock on its functionality. Run this option to find out if the installer is active. This will check for a lock, and will return either an exit code (0 - the installer is idle, 1 - the installer is running and busy), or XML-formatted output.
--check-updates	Specify this option to check the updates server for updates applicable to your Parallels Plesk Panel version. A list of releases that you can update or upgrade to will be shown.
--web-interface	Use this option to start the Parallels Products Installer's Web interface. Note that this option is available only starting from Parallels Products Installer version 3.4.0.
--ssl-cert <file.pem>	Use this option to specify the path to the SSL certificate file that should be used for securing connections to the Parallels Products Installer's Web interface.
--without-ssl	Use this option to specify that connections to the Web-based installation wizard will not be secured.