

# Parallels<sup>®</sup> Plesk Panel

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## **Parallels Plesk Panel 9.5 for Linux/Unix Firewall Module Administrator's Guide**

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# Preface

## In this section:

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## Typographical Conventions

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

| Formatting convention | Type of Information                                                                                                                                             | Example                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>Special Bold</b>   | Items you must select, such as menu options, command buttons, or items in a list.                                                                               | Go to the <b>QoS</b> tab.                                           |
|                       | Titles of chapters, sections, and subsections.                                                                                                                  | Read the <b>Basic Administration</b> chapter.                       |
| <i>Italics</i>        | 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 <i>wildcard character</i> search. |
| Monospace             | The names of style sheet selectors, files and directories, and CSS fragments.                                                                                   | The license file is called <code>license.key</code> .               |

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

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## 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

# About Parallels Plesk Panel Firewall Module

Parallels Plesk Panel Firewall is a module that protects your Parallels Plesk Panel-enabled server and private network from unauthorized access. With this module, you can easily set firewall rules and fine tune them through a user-friendly interface.

# Installing Parallels Plesk Panel Firewall Module

You can install the Parallels Plesk Panel Firewall module to the Parallels Plesk Panel server in two ways: from the Parallels Plesk Panel interface (recommended), and from the command line.

➤ ***To install the Parallels Plesk Panel Firewall module through the Parallels Plesk Panel interface:***

1. Login as administrator to the Parallels Plesk Panel.
2. Click the **Modules** shortcut in the navigation pane > **Manage Modules** > **Add New Module**.
3. Select a module package file, and click **OK**.

➤ ***To install the Parallels Plesk Panel Firewall module through the command line:***

1. Login as root to the server, where Parallels Plesk Panel is installed.
2. Run the command  
`/plesk_installation_directory/admin/bin/modulemng--install--file=<plesk_firewall_module_filename>`, where 'plesk\_installation\_directory' is the directory you installed Parallels Plesk Panel to.

Example:

```
/usr/local/psa/admin/bin/modulemng--install--file=/opt/modules/firewall.rpm
```

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**Note:** Parallels Plesk Panel Firewall module and other modules that come with Parallels Plesk Panel are located in the directory `/opt/modules` of Parallels Plesk Panel distribution.

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# Setting Up Firewall

After you installed the module, you can do the following:

- View and change the predefined rules that control connections to the following system services: Administrative control panel; Web server; FTP server; SSH server; SMTP server; POP3 server; IMAP server; mail password change service; MySQL server; PostgreSQL server; Samba file sharing server for Windows clients; VPN; domain name server; ICMP echo requests. By default, these rules allow all incoming connections to these services.
- View and change the predefined system policies that define what to do with all incoming, outgoing and transit communications that do not match the explicitly defined rules.
- Add, change, and remove custom rules. For example, you may want to add a rule that will allow access to FTP accounts on the server in passive mode.

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## Managing Access to System Services

For each system service, you can choose whether to allow or deny all incoming communications, or allow only communications coming from specific IP/network addresses.

➤ ***To allow or restrict access to a service on your Parallels Plesk Panel server:***

1. Go to **Modules > Firewall > Edit Firewall Configuration**.
2. Click the service name.
3. Do any of the following:
  - To allow all incoming connections, select the **Allow** option and click **OK**.
  - To deny all incoming connections, select the **Deny** option and click **OK**.
  - To deny access to a service from specific IP/network addresses, select the **Allow from selected sources, deny from others** option, specify the IP address or network address from which access to the selected service is allowed, and click **Add**. After you specify the required addresses, click **OK**.
4. To apply all changes to the firewall configuration, click **Activate**, and then click **Activate** again.

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## Managing System Policies

System policies define what to do with all incoming, outgoing and transit communications that do not match the explicitly defined rules. The system policies are usually displayed at the bottom of the list of rules.

➤ ***To allow or deny communications of specific type:***

1. Go to **Modules > Firewall > Edit Firewall Configuration**.
2. Click the icon to the left of the policy name you want to change. If the policy currently allows all connections, clicking this icon will prohibit all connections and vice versa.
3. To apply the changes, click **Activate**, and then click **Activate** again.

## Managing Custom Rules

This section describes how to add, modify, remove custom rules, and change the order in which the rules are applied. This section also covers the steps required for enabling passive mode for FTP connections.

➤ **To add a custom rule:**

1. Go to **Modules > Firewall > Edit Firewall Configuration**.
2. Click **Add Custom Rule**.
3. Enter the name of the new rule in the **Name of the rule** field.
4. Select one of the following communication directions: **Incoming** for the communications inbound to the server, **Outgoing** for communications outbound from this server, or **Forwarding** for communications transiting through your server in any direction.

For incoming communications you can specify the destination ports on your server, the protocol used for this communication, and the IP address the communications come from.

For outgoing communications you can specify the destination ports, destination IP address, and the protocol used for the communication.

For transit communications going through the server, you can specify the destination ports and source / destination IP addresses.
5. To specify the port number, type it into the **Add port** input box, and click **Add**. To remove a port number from an existing rule, select it from the list and click **Remove**. If the list of ports is empty, this rule will be applied to all TCP and UDP ports.
6. To specify the IP address or network address, type it into the **Add IP address or network** input box, and click **Add**. To remove an IP address or network from the list, select it in the list and click **Remove**. If the list of IP addresses is empty, this rule will be valid for all IP addresses.
7. Specify the action that will be applied to the communications that match the defined criteria: **allow** or **deny**.
8. Click **OK** to submit the rule.
9. After you have defined the required rules, click **Activate** to apply them to your system. A confirmation screen will open, in which you can preview the shell script generated to apply your rules (this might be of interest only to advanced users). Click **Activate** to apply the new configuration.

When the new configuration is being applied, the module will check for connection with the Parallels Plesk Panel. If there are some connection problems, the Firewall module will automatically revert to the previous active configuration in 60 seconds. Thus, if you misconfigure your firewall in such a way that access to your Parallels Plesk Panel is prohibited even for you, this wrong configuration will be automatically discarded and you will be able to access your server in any case.

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**Note:** Unless your configuration is activated, you have a chance to discard all the rules you configured. To do this, click the **Revert to Active Configuration** button.

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Under FreeBSD, all currently established TCP connections will drop when the new configuration is activated!

➤ ***To edit a custom rule:***

1. Go to **Modules > Firewall > Edit Firewall Configuration**.
2. Click the rule name in the list of existing rules. Make necessary changes (the options are the same as when creating a new rule).

➤ ***To remove a custom rule:***

1. Go to **Modules > Firewall > Edit Firewall Configuration**.
2. Select the check box corresponding to the rule you want to remove and click **Remove Selected**.

➤ ***To change the order in which your custom rules are applied:***

1. Go to **Modules > Firewall > Edit Firewall Configuration**.
2. Click the icons **Up** or **Down** in the **Order** column. This will move the rule relatively to other rules covering the same direction (incoming communications, outgoing communications, or data forwarding).

➤ ***To enable passive mode for FTP connections on your server:***

1. Log in as “root” to the server shell over SSH.
2. Edit your ProFTPD configuration file.
  - a Issue the command `vi /etc/proftpd.conf`
  - b Add the following lines anywhere within the <Global> section:

```
PassivePorts 49152 65534
```
  - c Save the file
3. Log in to Parallels Plesk Panel as “admin”, go to **Modules > Firewall**, and click **Edit Firewall Configuration**.

4. Click **Add Custom Rule**.
5. Specify the following:
  - a Rule name
  - b Direction: select Incoming.
  - c Action: select Allow.
  - d Ports: in the Add port input box, enter the value 49152-65534. Leave the **TCP** option selected, and click **Add**.
6. Click **OK**.
7. Click **Activate**, and then click **Activate** again.

# Appendix A. Predefined Firewall Rules Specifications

The following table lists the system services to which you can restrict access using the Firewall's predefined rules.

| <b>Service name</b>                            | <b>Ports used by service</b>       |
|------------------------------------------------|------------------------------------|
| Parallels Plesk Panel administrative interface | TCP 8443                           |
| Samba (file sharing on Windows networks)       | UDP 137, UDP 138, TCP 139, TCP 445 |
| Parallels Plesk Panel VPN                      | UDP 1194                           |
| WWW server                                     | TCP 80, TCP 443                    |
| FTP server                                     | TCP 21                             |
| SSH (secure shell) server                      | TCP 22                             |
| SMTP (mail sending) server                     | TCP 25, TCP 465                    |
| POP3 (mail retrieval) server                   | TCP 110, TCP 995                   |
| IMAP (mail retrieval) server                   | TCP 143, TCP 993                   |
| Mail password change service                   | TCP 106                            |
| MySQL server                                   | TCP 3306                           |
| PostgreSQL server                              | TCP 5432                           |
| Tomcat administrative interface                | TCP 9008, TCP 9080                 |
| Domain name server                             | UDP 53, TCP 53                     |
| Ping service                                   | <ICMP echo request>                |