

How to Define Port Protocol Protection

<https://campus.barracuda.com/doc/41115998/>

Layer 7 Application Control is a legacy feature of the Barracuda NG Firewall. Barracuda Networks recommends using [Application Control 2.0](#) instead

Port Protocol Protection uses deep packet inspection to make sure that a port is only used by the protocols that you allow on it. It addresses the limitations of firewall rules in being able to detect if a port is being used by prohibited protocols.

You define Port Protocol Protection policies in a firewall service object. You can define a policy in an existing service object or after creating a new service object. For more information, see [How to Create Service Objects](#).

Note: A Port Protocol Protection policy for HTTP has already been configured in the **HTTP-Enforced** service object. To configure HTTP port policies, you can use this service object instead of creating a new one.

To enable and configure Port Protocol Protection policies, complete the steps in the following sections:

Enable Port Protocol Protection

1. Open the **General Firewall Configuration** page (**Config > Full Config > Box > Infrastructure Services**).
2. From the **Configuration** menu in the left navigation pane, select **Application Detection**.
3. From the **Enable Protocol Detection** list, select yes. Note: When you enable Port Protocol Protection, you also enable Layer 7 Application Control.
4. Click **Send Changes** and **Activate**.

Specify a Port Protocol Protection Policy

1. Open the **Forwarding Rules** page (**Config > Full Config > Box > your virtual server > Assigned Services > Firewall**).
2. In the left menu, select **Services**.
3. Double-click the required service object. The **Edit/Create Service Object** window opens.
4. Double-click the required protocol. The **Service Entry Parameters** window opens.
5. From the **Action for prohibited Protocols** list, select a Port Protocol Protection policy for

handling prohibited services. You can select any of the following policies:

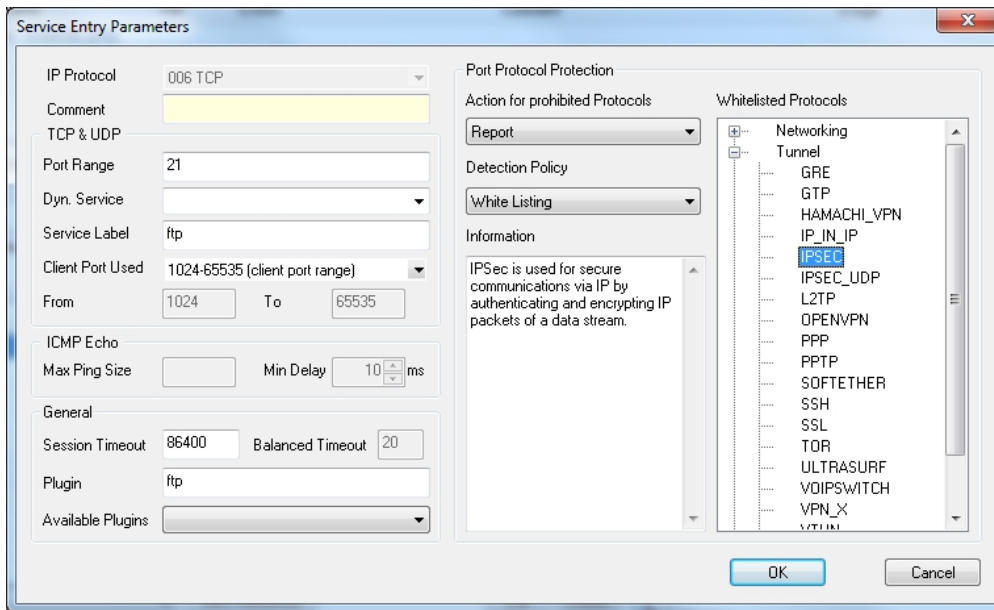
Policy	Description
<i>No Protocol Protection</i>	Disable Port Protocol Protection.
<i>Report</i>	Report prohibited protocols in the access cache.
<i>Reset</i>	Send a TCP RST packet to terminate the session with the prohibited protocol.
<i>Drop</i>	Drop the traffic but keep the session with the prohibited protocol.

Select the Detection Policy

You can configure Port Protocol Protection to inspect and compare traffic against a list of prohibited or allowed protocols. From the **Detection Policy** list in the **Service Entry Parameters** window, you can select *White Listing* or *Black Listing*.

- *White Listing* - Only allows the protocols that you specify. All other protocols are prohibited and will be handled according to the specified Port Protocol Protection policy.
 - From the **Detection Policy** list, select **White Listing**.
 - In the **Whitelisted Protocols** table, double-click the allowed protocols.
- *Black Listing* - Only prohibits the protocols that you specify. The selected protocols are handled according to the specified Port Protocol Protection policy. All other protocols are allowed.
 - From the **Detection Policy** list, select **Black Listing**.
 - In the **Blacklisted Protocols** table, double-click the prohibited protocols.

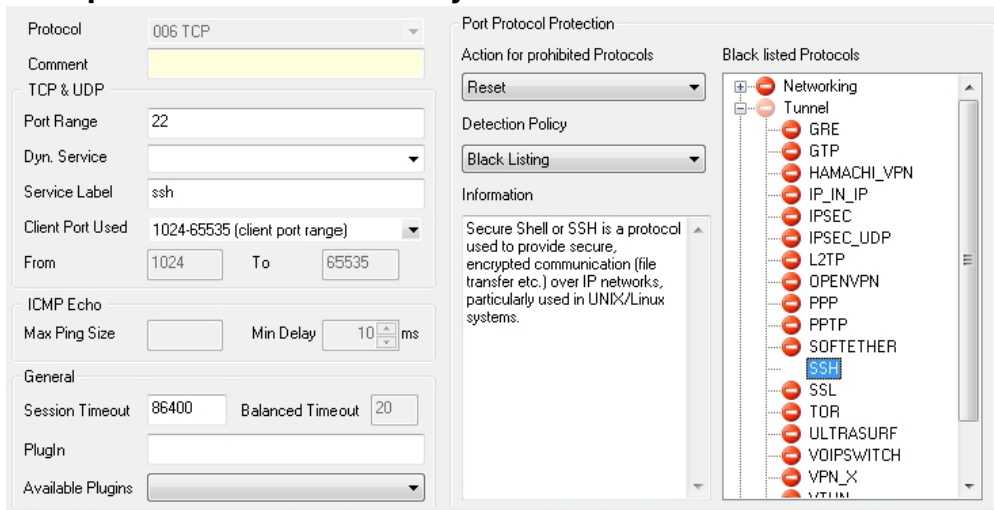
Port Protocol Protection in service object configuration:



Example: Port Protocol Protection Policy for the SSH Service

Figure 2 displays an example of a Port Protocol Protection Policy for the SSH service to avoid unwanted traffic that is forwarded by a firewall rule. This Port Protocol Protection Policy allows SSH Traffic but resets the session if any of the selected protocols are detected.

Example Port Protection Policy:



- After specifying the settings, don't forget to click **Send Changes** and **Activate**.

Figures

1. ppp.jpg
2. p_prot.jpg

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