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## How to Set Up a Reverse Proxy

<https://campus.barracuda.com/doc/41116046/>

In **Reverse Proxy** mode, the proxy directs incoming requests from other servers to the client without providing the origin details. To set up a reverse proxy using the Barracuda NG Firewall, configure the listening port and reverse proxy settings.

### In this article:

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## Before You Begin

To set up a reverse proxy, first complete the following:

1. Install the Barracuda NG Firewall hotfix 521 on your system.
2. Verify that you activated the HTTP Proxy service in reverse proxy mode. For instructions, see [How to Set Up and Configure the HTTP Proxy](#).

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## Configure the Listening Port

In the settings for the HTTP Proxy, use TCP listening port 80.

1. Open the **HTTP Proxy Settings** page (**Config > Full Config > Virtual Servers > your virtual server > Assigned Services > HTTP-Proxy**).
2. Click **Lock**.
3. In the left menu, select **IP Configuration**.
4. In the **TCP Listening Port** field, enter 80. Verify that you have port 80 available for your reverse proxy.
5. When you change the listening port, you must also change the port used in host firewall rule **OP-SRV-PX**. By default, the rule uses TCP 3128. If you want to use HTTP, change TCP 3128 to HTTP. If you want to use HTTP and HTTPS, change TCP 3128 to HTTP+S. For more information on configuring host firewall rules, see [Host Firewall](#).
6. Click **Send Changes** and **Activate**.

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## Configure Reverse Proxy Settings

To configure the reverse proxy settings:

1. Open the **HTTP Proxy Settings** page (**Config > Full Config > Virtual Servers > your virtual server > Assigned Services > HTTP-Proxy**).
2. From the **Configuration** menu in the left navigation pane, select **Reverse Proxy Settings**.
3. Click **Lock**.
4. Specify your **Reverse Proxy Settings**. For more information on these settings, see the following [Reverse Proxy Settings](#) section.
5. Click **Send Changes** and **Activate**.

## Reverse Proxy Settings

The following table provides more detailed descriptions of the **Reverse Proxy Settings**:

Setting	Description
<b>Backend Web Site</b>	The website that should be reversed respectively accelerated. If there is no host header, enter your primary domain (for example, <i>mydomain.com</i> ).
<b>Use SSL</b>	Select <b>yes</b> from the <b>Use SSL</b> list to provide HTTPS and HTTP support for the reverse proxy. Import your certificate and key by clicking <b>Ex/Import</b> for <b>SSL Certificate</b> and <b>SSL Private Key</b> . <b>Switch to Advanced View</b> and click on <b>SSL Settings</b> in the left menu to configure SSL cipher settings. When set to <b>Disallow Weak Ciphers</b> (default), the following cipherstring is used: !aNULL:ALL:!EXPORT:!LOW:!MEDIUM:!RC2:!3DES:!DSS:!SEED:!RC4:!PSK:@STRENGTH
<b>Backend IP Addresses</b>	In this table, add the IP addresses of your back-end servers. You must add the IP address of at least one back-end server.
<b>Round Robin</b>	Unless you want to use domain or URL-based mapping, you can enable round robin load balancing between multiple back-end servers by selecting yes from the <b>Round Robin</b> list. Load balancing is not available if traffic shaping is enabled on the device to which the web server is attached. For more information, see <a href="#">Traffic Shaping</a> .
<b>Additional Backend Domains</b>	In this table, you can add additional domains for domain-based virtual hosts.
<b>Domain to Backend Mapping</b>	Note that the <b>Name</b> field of entries in this table must not exceed 21 characters. If you have not installed Barracuda NG Firewall hotfix 521, the <b>ACL-based reverse mapping</b> table is provided. In this table, you can add ACLs for the back-end server that should be used. To map either a domain or a specific URL to a back-end server, click <b>+</b> , enter a descriptive name for the map (for example, <i>DOMA04</i> ), and click <b>OK</b> . <ul style="list-style-type: none"> <li>• In the <b>Backend Mappings</b> configuration window, map either a domain or a specific URL to a back-end server.</li> <li>• From the <b>Mapping Type</b> list, select <i>Domain</i> for domain to backend mapping. If you are using url-regex to back-end mapping, select <i>Url-Regex</i>.</li> <li>• From the Domain list, select a domain that is specified in the Additional Backend Domains table. If you are using url-regex to back-end mapping, enter the regular expression to match an URL against (for example, <i>http://example.com/foo/*</i>).</li> <li>• From the <b>Backend</b> list, select the back-end server that should handle the requests that match the above configuration. This list includes the back-end servers that you entered in the <b>Backend IP Addresses</b> table.</li> </ul>

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