



How to Configure Basic Traffic Shaping

When deploying traffic shaping, consider the CPU resources of the system. Especially on low-end machines, shaping on highly used links may cause performance degradation, resulting in high CPU loads and reduced network connectivity. Depending on the system configuration, Barracuda Networks recommends a maximum interface shaping bandwidth of 10 MB/s on systems with a CPU clock of 800MHz or lower.

There are different ways to configure traffic shaping on the Barracuda NextGen Firewall F-Series. You can use the predefined **Basic profile** template or configure all settings manually (see [How to Create a QoS Profile](#)). The step-by-step instructions provided in this article explain how to configure basic traffic shaping. The basic traffic shaping scheme employs a simple virtual tree named *Default* with a single virtual interface named **NoDelay** attached to it.

Step 1. Apply the Basic Profile Template

1. Go to **CONFIGURATION > Configuration Tree > Box > Traffic Shaping**.
2. Click **Lock**.
3. From the **Predefined Profiles** list at top of the page, select **Basic profile**.
4. Click **Yes** to apply the template.
5. From the **Select Interface** list, select the interface to which you want to apply the basic profile.
6. Click **OK**. This assigns the virtual tree to the interface.
7. From the **Interfaces** table, double-click an interface to configure its bandwidth limit.
8. In the **Rate** section of the **Interface Tree Mapping** window, select **Enable Shaping** and enter a limit for the inbound and outbound bandwidth.
9. Click **OK**.
10. Click **Send Changes** and **Activate**.

Step 2. Apply Traffic Shaping to Access Rules

Select the QoS Band in the **Policy** settings of an access or application rule.

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > your virtual server > Assigned Services > Firewall > Forwarding Rules**.
2. Click **Lock**.
3. Create or double-click the access or application rule to which you are applying the QoS Band.
 - To apply the QoS Band to an access rule:
 - Select the QoS Band from the **QoS Band (Fwd)** and **QoS Band (Reply)** list in the **Policy** section. For more information, see [How to Create and Apply QoS Bands](#).

The outbound and inbound rate of a virtual interface is ignored when the **QoS Band** policy in the corresponding access rule is set to **No-Shaping**.

- To not use the QoS To apply a different QoS Band to an application rule
 - Select the **Change QoS Band (Fwd)** check box in the **Policy** section and select the QoS Band from the list.
4. Click **OK**.
5. Click **Send Changes** and **Activate**.

