How to Create and Apply QoS Bands

https://campus.barracuda.com/doc/96026281/

To connect traffic shaping settings with the forwarding firewall ruleset, you must apply an existing or new QoS band. To configure a new QoS band, proceed as follows:
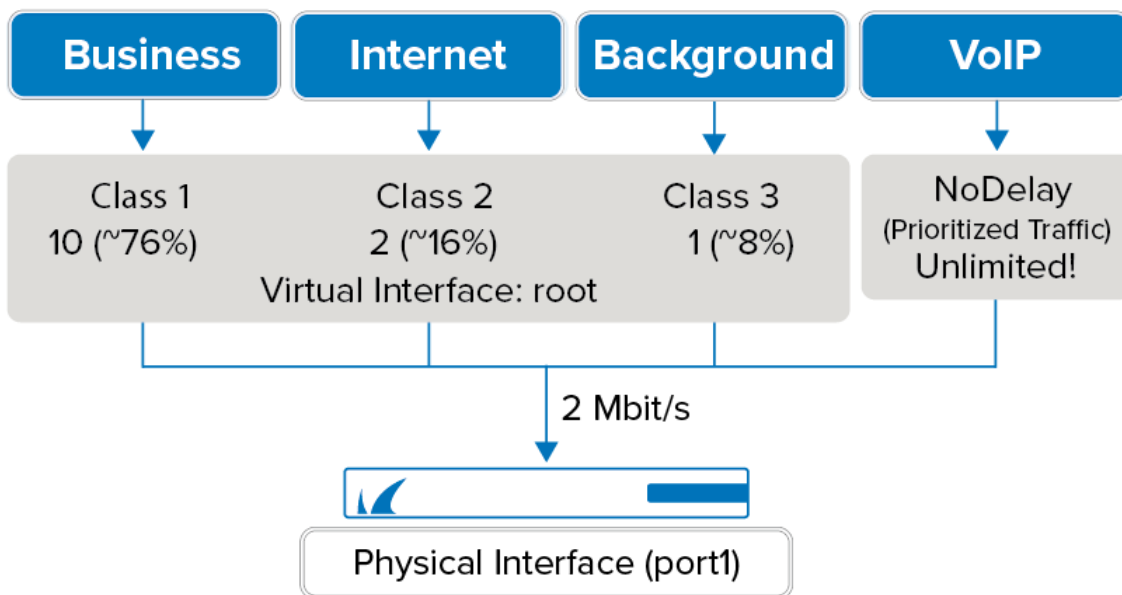
Step 1. Create a QoS Band

To create a new QoS band, complete the following steps:

1. Go to **CONFIGURATION > Configuration Tree > Box > Traffic Shaping**.
2. Click **Lock**.
3. Click the **QoS Band** tab.
4. Right-click the **QoS Band** table and select **Add new QoS Band**.
5. In the **Name** field, enter a descriptive name. (The **ID** field specifies the index number of the new QoS band.)
6. Click **OK**.
7. In the **QoS Band Rule** window, you can edit the following settings to specify the priority, interface, and conditions for traffic that is handled by the QoS band:

Setting	Description
Priority	From this list, select the priority class that is assigned to data packets that are handled by the QoS band.
Virtual Device	From this list, select the virtual interface into which the data packets will be fed, should this rule apply.
TOS	To specify a value that must be matched by the TOS in the IP header, select this check box.
Traffic Limit	To specify a data limit that must not be exceeded by network sessions, select this check box.
Time Period	To specify specific dates and times during which this rule can be applied, select this check box.
Weekday/Hour	To specify specific weekdays and times during which this rule can be applied, select this check box.

8. Click **OK**.
9. Click **Send Changes** and **Activate**.

Example Scenario

Step 2. Apply the QoS Band to a Firewall Rule

To apply traffic shaping to an access or application rule, complete the following steps:

1. Go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > Firewall > Forwarding Rules**.

1. Click **Lock**.
2. Create or double-click the access or application rule to which you are applying the QoS band. For example, *LAN-2-INTERNET-https*.
    - 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 example, *Background*.
            > The outbound and inbound rate of a virtual interface is ignored when the QoS Band policy in the corresponding firewall rule is set to **No-Shaping**.
    - To apply the 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.
3. Click **OK**.
4. Click **Send Changes** and **Activate**.

You can also apply traffic shaping settings to multiple rules. In the rule editor window for the rules, specify the following settings:

- In the Rule Settings section, configure the **Forward Band** and **Reverse Band** settings.

- In the **TCP Policy** section, configure the **Syn Flood Protection** setting.

For more information, see How to Edit, Copy, Clone, Deactivate, or Delete Access Rules.

Applying Traffic Shaping to VPN Tunnels

You can implement traffic shaping with VPN. For more information, see How to Apply Traffic Shaping to a VPN Tunnel.

Figures

1. qos_scheme01.png