

## **How to Create and Apply QoS Bands**

https://campus.barracuda.com/doc/73699555/

The firewall provides traffic shaping to prioritize network resources according to a number of factors such as time of day, application type, and user identity. Set weight ratios for transport classes enable traffic shaping in the firewall and specify a bandwidth for each interface you want to enable QoS on.

#### Step 1. (optional) Customize Class Weights and Rate Limits

Set the weight ratios for the classes within the same queue and modify the rate limits.

- 1. Go to **FIREWALL > QoS**.
- 2. Modify weight ratios and rate limits according to your requirements.

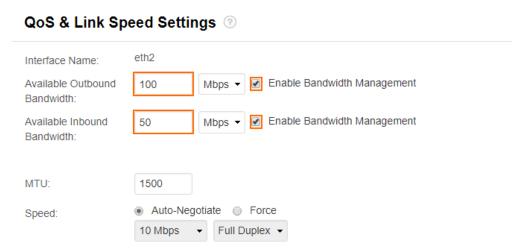
Class 1 Weight Ratio:	10	77 %	
	The weight given Class 1 traffic relative to the other classes in the same queue; percentage of bandwidth allocated to it is shown in gray.		
Class 2 Weight Ratio:	2	15 %	
	The weight given Class 2 traffic relative to the other classes in the same queue.		
Class 3 Weight Ratio:	1	8 %	
	The weight given Class 3 traffic relative to the other classes in the same queue.		
Internet Degradation Threshold:	10		MB
	When the amount of traffic transmitted over a connection has reached the threshold, the connection will be downgraded to class 3 in the regular queue. <b>Default:</b> 10 MB		
Limiting Queues Max.	5	%	
Throughput:	The max. percentage of bandwidth allocated to traffic from Rate Limiting Queues. Default: 5%		
Choke Limit:	0.1	%	
	The percentag	e of bandwidth allocate	ed to traffic with the Choke bandwidth policy. Maximum value is 5%. Default: 0.1%

3. Click Save.

#### Step 2. Enable Traffic Shaping in the Firewall

- 1. Go to **NETWORK > IP Configuration**.
- In the Network Interface Configuration section, edit the interface. The QoS & Link Speed Settings window opens.
- 3. Select the check box next to the **Enable Bandwidth Management** column.
- 4. Enter the bandwidth assigned by your ISP for outbound and inbound connections.

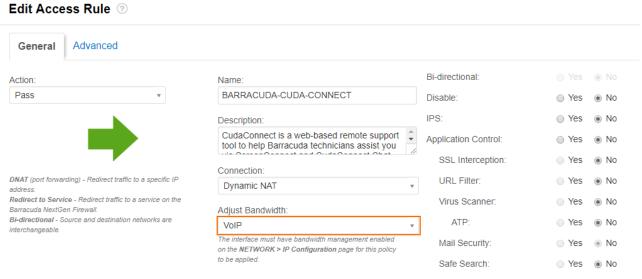




5. Click Save.

Step 3. Assign a Bandwidth Policy to an Access Rule

- 1. Go to **FIREWALL > Access Rules** and edit the rule.
- 2. Select the bandwidth policy from the **Adjust Bandwidth** drop-down menu.



3. Click Save.

#### **Monitor Bandwidth Policy Assignment**

To monitor which bandwidth policy is assigned to active network sessions, go to **BASIC** > **Active Connections**. The assigned policy of a network session is displayed in the **Bandwidth Policy** column.

# Barracuda CloudGen Firewall



### **Figures**

- 1. conf ti.png
- 2. qos band.png
- 3. qos\_select.png

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