

The Barracuda Load Balancer provides an intuitive Web interface with which the administrator can monitor system performance. Additionally, using the Barracuda Load Balancer SNMP agent, administrators can use their SNMP monitor to query the system for a variety of statistics such as the number of current open connections, bandwidth, and system CPU temperature. The administrator can also use an SNMP monitor to receive traps reporting on the vitals of the Barracuda Load Balancer, the Services and the Real Servers. This document covers the basics of using the Barracuda SNMP agent with the Barracuda Load Balancer, firmware version 3.3 and higher.

The Barracuda Load Balancer supports SNMP versions 2c and 3.

## Configuring the Barracuda Load Balancer

To use your SNMP monitor with the Barracuda Load Balancer, you must identify it as a system which is allowed SNMP access. Log in to the Web interface of the Barracuda Load Balancer as the administrator. On the **Basic > Administration** page, in the **SNMP Manager** section, add the IP addresses of SNMP monitors in the **Allowed SNMP IP/Range**.

Update the other SNMP related settings on the **Basic > Administration** page. If the Barracuda Load Balancer is in High Availability mode all of these settings are propagated to the other system in the cluster.

On the **Basic > Administration** page you can specify the IP addresses and port numbers that will be sent SNMP traps. On the **Advanced > SNMP Configuration** page you can select which SNMP traps are generated.

## Importing the Barracuda Load Balancer MIBs

In order to use an SNMP monitor or other program to query for system information using SNMP, you will need to obtain and import two MIB files to your SNMP monitor:

1. The Barracuda Load Balancer MIB
2. The Barracuda Reference MIB (standard across all Barracuda Networks products)

The MIB files are located on the Barracuda Load Balancer and can be obtained by replacing [LB IP] in the following URLs with a management IP address of your Barracuda Load Balancer:

[http://\[LB IP\]:8000/Barracuda-LB-MIB.txt](http://[LB IP]:8000/Barracuda-LB-MIB.txt)  
[http://\[LB IP\]:8000/Barracuda-REF-MIB.txt](http://[LB IP]:8000/Barracuda-REF-MIB.txt)

## Syntax

If you are using an SNMP monitor tool, import the MIBs listed above into the SNMP monitor. You can refer to the MIBs for the Object IDs (OIDs) that correspond to the type of status you want to monitor and to see the traps that may be generated. The objects are also listed in the next section.

If you are querying the Barracuda Load Balancer from code, use the following syntax (where [LB IP] is the management IP address of your Barracuda Load Balancer). Note that, if using the `snmpwalk` command, if you don't include an OID you will get a listing of all of the OIDs in the MIB.

This example retrieves the number of active Services on the Barracuda Load Balancer, where the OID for the number of active Services is 1.3.6.1.4.1.20632.5.2 (see Objects and Traps below). In the example, the Barracuda Load Balancer has been configured to use SNMP v2c.

```
snmpget -v 2c -c public [LB IP] .1.3.6.1.4.1.20632.5.2
```

## Objects

As you can see in the Barracuda Load Balancer MIB, the system provides the following objects:

OID	Object	Description
1.3.6.1.4.1.20632.5.2	systemActiveServices	Number of active Services on the Barracuda Load Balancer.
1.3.6.1.4.1.20632.5.3	systemOperatingServers	Number of operating Real Servers.
1.3.6.1.4.1.20632.5.6	L4TCPConnections	Number of Layer 4 TCP connections.
1.3.6.1.4.1.20632.5.7	L7HTTPRequests	Number of HTTP requests to Layer 7 - HTTP Services.
1.3.6.1.4.1.20632.5.8	RDPUserSessions	Number of Layer 7 - RDP user sessions.
1.3.6.1.4.1.20632.5.9	ServiceBandwidth	Current bandwidth to each Service.
1.3.6.1.4.1.20632.5.10	TotalBandwidthToLB	Total bandwidth.
1.3.6.1.4.1.20632.5.11	RealServerBandwidth	Current bandwidth to each Real Server.
1.3.6.1.4.1.20632.5.12	ClusterStatus	If this Barracuda Load Balancer is in a cluster or is standalone.
1.3.6.1.4.1.20632.5.13	SystemLoad	System load as a percentage.
1.3.6.1.4.1.20632.5.14	CPUTemperature	CPU temperature in degrees Celsius.
1.3.6.1.4.1.20632.5.15	FirmwareStorage	The space occupied by the firmware, as a percentage of the space allocated to it.
1.3.6.1.4.1.20632.5.16	MailLogStorage	The space occupied by the mail/log, as a percentage of the space allocated to it.
1.3.6.1.4.1.20632.5.17	OperationMode	The operating mode of the Barracuda Load Balancer: either "Route-Path" or "Bridge".