

The Barracuda Load Balancer is a Layer 4 and Layer 7 load balancer with the added protection of Intrusion Prevention which provides another layer of defense to complement your existing security systems.

This guide describes how to configure the Barracuda Load Balancer and create a Layer 4 Service in a two-armed Route-Path deployment. Alternative deployment and configuration options are described in the *Barracuda Load Balancer Administrator's Guide*.

1 Getting Started

To set up your Barracuda Load Balancer, you need the following:

- Barracuda Load Balancer
- AC Power Cord
- Ethernet Cables
- VGA Monitor (recommended)
- PS2 Keyboard (recommended)

2 Install the Barracuda Load Balancer

To install the Barracuda Load Balancer:

1. Fasten the Barracuda Load Balancer to a 19-inch rack or place it in a stable location.
2. Connect an Ethernet cable from your network switch to the WAN Ethernet port on the front panel of the Barracuda Load Balancer. Connect an Ethernet cable from your LAN switch to the LAN port.
3. Connect a VGA Monitor, PS2 Keyboard, and AC power cord to the unit.
Note: Immediately after connecting an AC Power Cord to the unit, it may power ON for a few seconds and then power OFF. This is because the unit is designed to automatically return to a powered ON state in the event of a power outage.
4. Press the power button on the front panel to turn the unit on.



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Configure the WAN IP Address

If you have a monitor connected, the Barracuda Load Balancer will display the Boot Menu initially, and the Administrative Console login prompt once fully booted. To begin the configuration:

1. Login to the Administrative Console using the admin login:
 1. **Login:** admin

```
barracuda login: admin
```
 2. **Password:** admin

```
password:
```
2. Configure the **IP Address, Subnet Mask, Default Gateway, Primary DNS Server** and **Secondary DNS Server** as appropriate for your network.
3. Save your changes.

If you do not have a monitor and keyboard and want to set the IP using the RESET button on the front panel, press and hold the RESET button per the following table:

IP address	Press and hold RESET for...
192.168.200.200	5 seconds
192.168.1.200	8 seconds
10.1.1.200	12 seconds

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Specify the LAN IP address

Use a computer with a Web browser that is connected to the same network as the Barracuda Load Balancer and follow these steps:

1. In your Web browser's address bar, enter http:// followed by the Barracuda Load Balancer's IP address, followed by the default Web interface HTTP port (:8000). For example, if you configured the Barracuda Load Balancer with an IP address of 192.168.200.200, type:
`http://192.168.200.200:8000`
2. Login to the Barracuda Load Balancer Web interface as the administrator.
Username: admin **Password:** admin
3. Go to the **Basic > IP Configuration** page and enter the LAN IP address and subnet mask. In this deployment mode the LAN IP address acts as the default gateway for the Real Servers.
4. Click **Save Changes**.

5 Activate Subscription

Verify that the Energize Updates feature is activated on your Barracuda Load Balancer – this is required to enable further configuration.

1. Go to the **Basic > Status** page.
2. Under Subscription Status, if Energize Updates is Not Activated, click the activation link to be redirected to the Barracuda Networks Product Activation page. Complete activation of your subscription(s).

If it is connected to the Internet, your Barracuda Load Balancer automatically updates its activation status after you reload the browser page when viewing the **Basic > Status** page. If your network firewall prevents your Barracuda Load Balancer from updating its activation status automatically, you can manually enter the activation code provided after completing the details on the Barracuda Networks Product Activation page.

6 Update the Firmware

Go to **Advanced > Firmware Update**. If there is a new **Latest General Release** available, perform the following steps to update the system firmware:

1. Click the **Download Now** button located next to the Latest General Release firmware version. Click **OK** to acknowledge the download duration message. To avoid damaging the Barracuda Load Balancer, do not power off during an update or download. To view the progress of the download, click **Refresh**. You will be notified when the download is complete.
2. Click **Apply Now** to apply the firmware. Click **OK** to acknowledge the reboot message. Applying the firmware takes a few minutes to complete.
3. After the firmware has been applied, the Barracuda Load Balancer automatically reboots. When the system comes back up, the login page is displayed. Log in again.

7 Change the Administrator Password

To prevent unauthorized use, we recommend you change the default administrator password to a more secure password. You can only change the administrator password for the Web interface. You cannot change the password for the Administrative Console, but this is only accessible via the keyboard which you can disconnect at any time.

1. Go to **Basic > Administration** and enter your old and new passwords.
2. Click **Save Password**.

8 Configure a Layer 4 Service

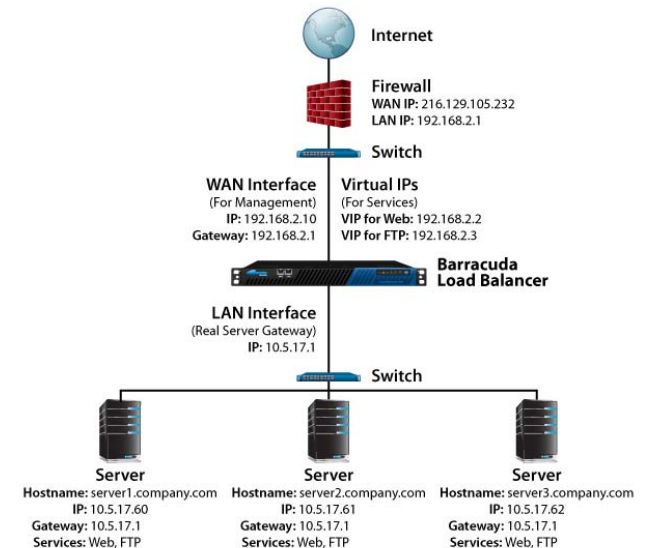
For each Real Server that you wish to load balance, ensure that its IP address is within the LAN IP and subnet mask defined in Step 4, and configure its default gateway to be the LAN IP address of the Barracuda Load Balancer. Connect the Real Servers to the switch plugged into the LAN interface. Now create the Service on the Barracuda Load Balancer:

1. Go to the **Basic > Services** page.
2. In the **Service Name** box, enter a name for the Service you wish to create. This is a name you can use to identify the Service in the future, but does not affect load balancing.

3. In the **Virtual IP** box, enter a Virtual IP address for the Service. This IP address will live on the WAN interface and become the IP address used by the clients to reach the load balanced Service. In the **Port** box, enter the port for the given Service. If the Service uses multiple ports, type ALL.
4. In the **Real Server** box, enter the IP addresses for the Real Servers which hold the application or content. In this scenario, these Real Servers must be on a separate subnet from their associated Virtual IP addresses and have the Barracuda Load Balancer's LAN interface configured as their default gateway.

9 Test Connectivity

Verify network connectivity by using a machine in your existing network to access the Service you just defined. Connect to the Virtual IP in the same way you used to go to the single server.



For more information

More deployment and Service options are presented in detail in the *Barracuda Load Balancer Administrator's Guide*. This and other documentation is available at <http://www.barracuda.com/documentation>. Be sure to check out the Barracuda Networks Support Forum at <http://forum.barracuda.com> for Frequently Asked Questions (FAQs) and other helpful tips for setting up and using your Barracuda Load Balancer.

Contact and Copyright Information

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