

The Barracuda Load Balancer is a Layer 4 load balancer with the added protection of Intrusion Prevention which can automatically protect your load balanced servers from any malicious activity that might happen to pass your other defenses.

## 1 Getting Started

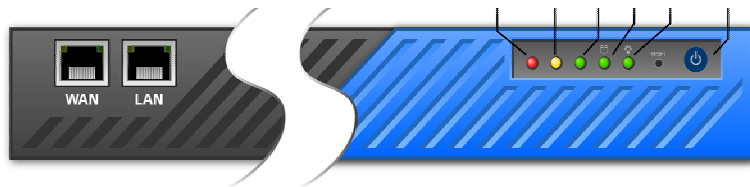
This guide provides you with setup instructions for the Barracuda Load Balancer. We recommend reading these instructions fully before starting the setup. To begin setting up your Barracuda Load Balancer, you will need the following:

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

## 2 Physical Installation

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. The LAN port will be used after the basic configuration is complete.
3. Connect a Standard 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.



## 3

### Configure IP Address and Network Settings

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:
  - **Login:** admin
  - **Password:** admin
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.

```
barracuda login: admin
password:
```

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

**Note:** Ensure that the WAN interface is connected to your existing network, and that the LAN interface is connected to a dedicated and separate switch.

## 4

### Barracuda Load Balancer Configuration

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, you would type: <http://192.168.200.200:8000>
2. Login to the Barracuda Load Balancer Web interface as the administrator: Use **Username:** admin **Password:** admin
3. Go to the **Basic** → **IP Configuration** page and configure the following:
  - **LAN IP:** enter the LAN IP address and Subnet Mask that you will connect all of your Real Servers to later. (**Note** this IP will need to be set as the default gateway on the Real Servers later.)
4. Click any one of the **Save Changes** buttons to save all of the information.

## 5 Update the Firmware

1. Go to **Advanced**→**Firmware Update**.
2. Press **Download Firmware**. 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 download progress, refresh your browser. You will be notified when the download is complete.
3. On the **Advanced**→**Firmware Update** page, click the **Apply Now** button to apply the firmware. This will take a few minutes to complete.
4. Click **OK** when prompted to reboot.
5. After applying the firmware, Barracuda Networks recommends logging in to the Web interface again and reading the Release Notes to learn about enhancements and new features. It is also a good practice to verify settings, as new features may have been included with the firmware update.

## 6 Change the Administrator Password

To avoid 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. Press **Save Password**.

## 7 Product Activation

Verify that the Energize Updates feature is activated on your Barracuda Load Balancer by going to the **Basic**→**Status** page. Under Subscription Status, make sure the Energize Updates subscription is Current. If the Energize Updates is Not Activated, click the corresponding activation link to go to the Barracuda Networks Product Activation page and complete activation of your subscriptions.

## 8 Configure your first services

The Barracuda Load Balancer is now ready for testing. For **route-path** deployment\*, connect one or more servers you will wish to load balance to the switch plugged into the LAN interface. Ensure that their IP addresses are within the LAN IP and Netmask you defined earlier, and that they have the IP you entered in the LAN IP section as their default gateway.

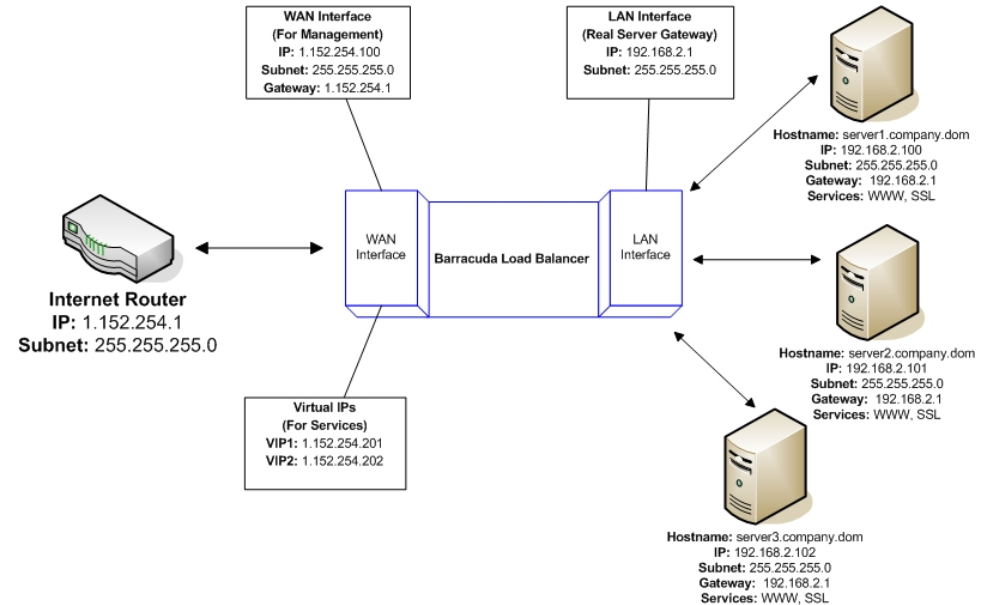
1. Go to **Basic** → **Services** screen.
2. In the top configuration line, enter a name for the service you wish to create. (This is a name you can use to identify the service in the future, but does not affect load balancing.)
3. In the next input box over, enter a Virtual IP for the service. This IP will live on the WAN interface and become the cliently accessible IP used to reach the load balanced

service. Also, define the port for the given service. If the service uses multiple ports, "ALL" can be used.

4. In the final box, under "Real Servers," type in the IP addresses for the servers which hold the application or content. In **route-path**, these servers must be on separate subnet than the Virtual IPs and have the Load Balancer's LAN interface configured as their default gateway.

## 9 Test Connectivity

You should verify network connectivity by utilizing a machine in your existing network to access the service you just defined on the Virtual IP you chose earlier. You connect to the Virtual IP in the same way you used to go to the single server.



**NOTE:** Deployment methods and strategies are discussed 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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