Barracuda Load Balancer ADC

How to Replace a Barracuda Load Balancer ADC in a High Availability Environment

https://campus.barracuda.com/doc/21364742/

High availability (HA) is an advanced feature; *contact Barracuda Networks Technical Support* **before replacing a Barracuda Load Balancer ADC in a cluster**.

See also: How Barracuda Networks Manages Returned Device Drives.

The steps for replacing a Barracuda Load Balancer ADC differ based on whether the system is the *Primary* or the *Secondary* device in the cluster.

Note that *both Barracuda Load Balancer ADCs in HA must be the same model and on the same firmware*.

Replace the *Primary* System in a High Availability Environment

This section describes the most common scenarios for replacing the Primary system in HA.

Because the Primary system is offline during replacement, you must schedule downtime when replacing the Primary system in HA.

Select the scenario that best fits your use case, and complete the associated steps when replacing the *Primary* system in an HA environment.

Scenario 1. New Replacement Primary Device

Follow the steps in this procedure carefully, it is necessary to perform a hot swap and delete the *Primary* device from the *Secondary* device configuration *at the end of this procedure* to avoid wiping out the configuration of the *Secondary* device.
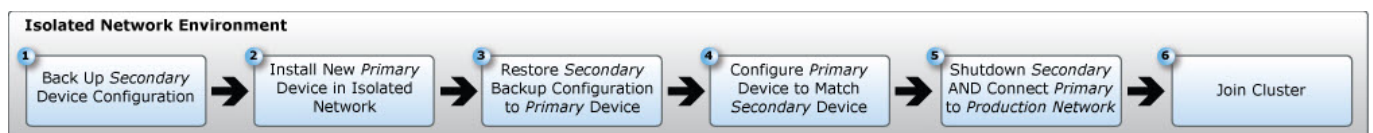
Figure 1. New Primary Device Replacement.
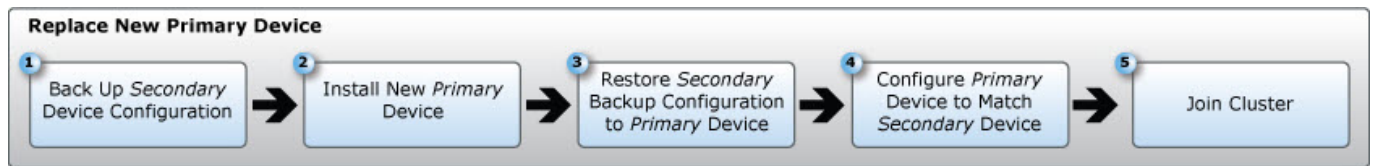
1. Back up the system configuration on the *Secondary* device.
   Note that the *Secondary* device must remain <u>active</u> since the *Primary* device is down during this replacement procedure.
2. Complete the following steps on the *Secondary* device:
   1. Log in to the *Secondary* device, and navigate to the **ADVANCED > Backups** page.
   2. In the **Manual Backups** section, click **Backup Now** to download a backup to your desktop.
3. Install the new replacement *Primary* device and set the MGMT IP address of your <u>old Primary</u> device to the *new Primary* device. Verify the new *Primary* device is on the same firmware version as the existing devices.
4. Once the new device is installed, log in to the *Primary* System, go to the **ADVANCED > Backups** page, and complete the following steps:
   1. In the **Restore Backups** section, click **Browse** next to **Restore From**; navigate to and select the configuration backup saved on your desktop.
   2. Click **Open or Choose** to download the file to your system. The downloaded backup file gets displayed on the top with the details such as **Backup Time**, **Serial#**, **Model**, **Firmware** and **Type**.
   3. Click **Restore Now** to restore the configuration backup file to the *Primary* device.
      Connections on the primary and secondary devices may go down intermittently during this procedure.
5. On the *Primary* device, go to the **ADVANCED > High Availability** page, and configure *all* attributes in the exact same manner as those on the *Secondary* device; the **Cluster Shared Secret** must match exactly.
6. On the *Secondary* device, navigate to the **ADVANCED > High Availability** page, and complete the following steps:
   1. In the **Clustered Systems** section, delete the IP address of the <u>old Primary</u> device; the system refreshes and wipes out all of the configuration settings.
   2. Once the device is back online, go to the **BASIC > IP Configuration** page and set the **Default Domain** name under **Domain Configuration**.
   3. Navigate to the **ADVANCED > High Availability** page, and under **Clustered Systems**, set the IP address of the *Primary* device, and click **Join Cluster**.

Scenario 2. Activate the New Primary Device in an Isolated Network

Figure 2. Isolated Network Environment.

1. Back up the system configuration on the *Secondary* device.
   Note that the *Secondary* device must remain <u>active</u> until step 6 in this procedure.
2. Log in to the *Secondary* device, and navigate to the **ADVANCED > Backups** page.
3. In the **Manual Backups** section, click **Backup Now** to download a backup to your desktop.
4. Install the new replacement *Primary* device in an isolated network, and complete the following steps:
   1. Go to the **ADVANCED > Backups** page on the Primary device, and in the **Restore Backups** section, click **Browse** next to **Restore From**.
   2. Navigate to and select the configuration backup saved on your desktop in step 3 above.
   3. Click Open or Choose to download the file to the *Primary* device. The downloaded backup file gets displayed on the top with the details such as Backup Time, Serial#, Model, Firmware and Type.
   4. Click Restore Now to restore the configuration backup file to the Primary device.
   5. Set the MGMT IP address of the <u>old Primary</u> device to the new *Primary* device.
5. Verify the configuration on the new *Primary* device.
6. After verifying the configuration, complete the following at the *same* time:
   ○ Shutdown the *Secondary* device, and
   ○ Connect and power up the new *Primary* device to the production network.
7. Put the *Secondary* device in an isolated network.
8. On the *Primary* device, go to the **ADVANCED > High Availability** page, and configure *all* attributes in the exact same manner as those on the *Secondary* device; the **Cluster Shared Secret** must match exactly.
9. Remove the *Secondary* device from the cluster by deleting the IP address of the <u>old Primary</u> device from the **Clustered Systems** section.
10. Put the *Secondary* device back in the production network.

Replace the *Secondary* System in a High Availability Environment

Figure 3. Secondary System Replacement.
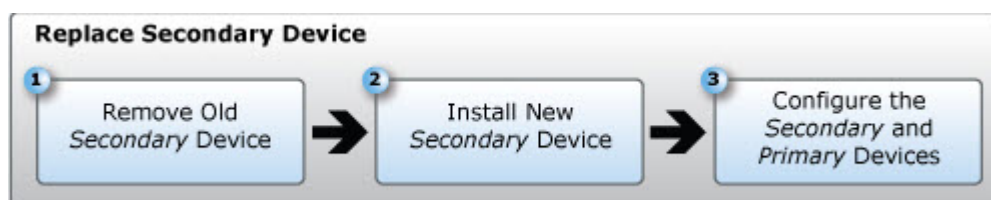
1. Remove the old *Secondary* device using the instructions in the article How to Remove a [Barracuda Load Balancer ADC from a High Availability Environment](#).
2. Once the new device is installed, follow the steps in the article [How to Configure the Barracuda Load Balancer ADC for High Availability](#) to complete the system replacement in the HA configuration.
   When replacing a system in a cluster, both systems must be on the [same firmware](#)

[version](#).

Figures