

How to Set Up a Managed High Availability Cluster from Scratch

<https://campus.barracuda.com/doc/96026381/>

Both systems that you set up in a high availability (HA) cluster must be the same model and firmware version, but do not have to be the same hardware revision. For instructions on how to configure an HA cluster using different revisions of the same appliance model, see [How to Restore the High Availability Cluster Configuration after an RMA](#).

You can configure an HA pair of firewalls from the scratch within the Configuration Tree of the Control Center. For this, two new firewalls must be 'virtually' created in the Control Center's configuration tree. Then, the configuration data of these two firewalls must be transferred to the real-world firewalls.

When configuring a CC-managed HA pair, the secondary firewall receives its configuration through the primary firewall. For a better overview and management of both firewalls, only the primary firewall is displayed in the Control Center's configuration tree. Each change made on the primary firewall is immediately propagated to the configured secondary firewall.

On the Control Center's Status Map, both the primary and the secondary firewall is displayed as soon as the configuration for both firewalls is completed.

Before You Begin

- Ensure that a range and a cluster are configured where the primary and secondary firewalls are going to be configured.
- Ensure that the firewall types of the HA pair configuration conform to the model type of your real firewalls.
- Ensure that both stand-alone firewalls are running firmware version 8.0.1.

Step 1. Create the Configuration for the Primary Firewall in the Configuration Tree

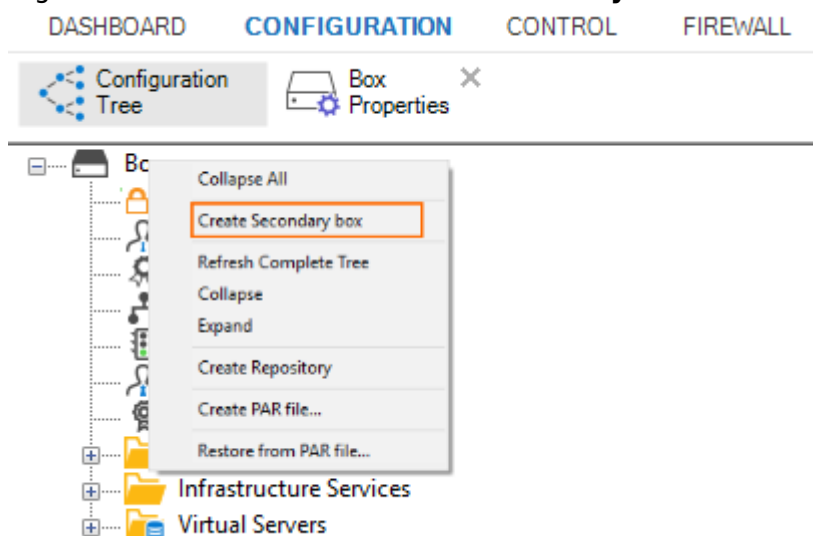
Log into your Control Center.

1. Go to **CONFIGURATION > Configuration Tree > Multi Range > *your range* > *your cluster* > Boxes**
2. Right-click **Boxes**.
3. From the list, select **Create Box...**
4. The **Wizard** window is displayed.
5. Enter the name for the primary firewall.
6. For **OS Platform**, select **CloudGen Firewall**.
7. For **Product Type**, select the same type of product like your real-world firewall.
8. Click **Finish**.
9. Click **Activate**.

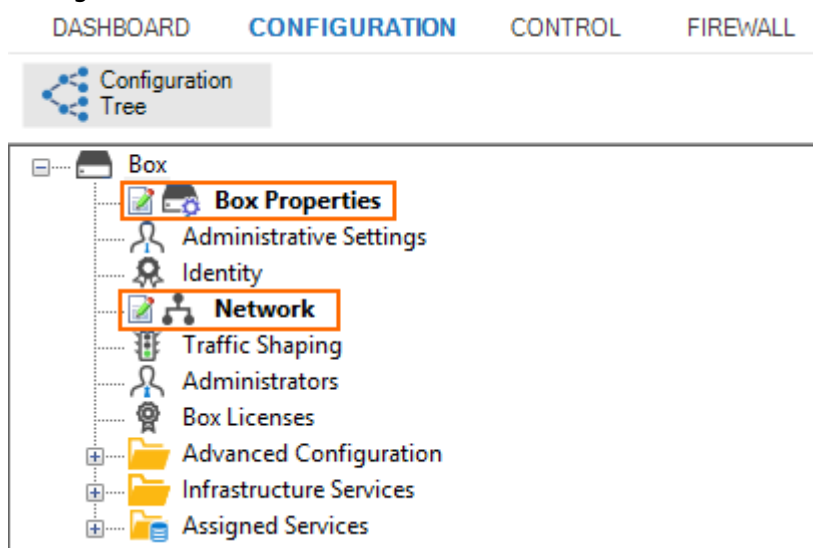
Step 2. Create the Secondary Firewall

The configuration node for the secondary HA firewall must be created within the Configuration Tree. For this, the two nodes Properties and Network will be replaced by a new node with the same name that also includes the edit fields for the secondary firewall.

1. Go to **CONFIGURATION > Configuration Tree > Multi Range > your range > your cluster > Boxes > your box**.
2. Right-click **Box** and select **Create Secondary Box**.



3. The **Box Properties** and **Network** nodes are replaced by a new node, each suitable for an HA configuration.



4. Open the **Network** page.
5. Enter the **Management IP** (MIP) for the secondary firewall. The MIPs of the HA pair must be in the same subnet.

Device Name

Hostname

Management IP and Network

Interface Name ☐ Other

Management IP (MIP)

Secondary Management IP (MIP)

Associated Netmask

Responds to Ping

6. Click **Send Changes** and **Activate**.

Step 3. Create the PAR File for the Primary Firewall

The new configuration in the Network node must be propagated to the primary firewall.

1. Go to **CONFIGURATION > Configuration Tree > Multi Range > your range > your cluster > Boxes > your box**.
2. Right-click **Box** and select **Create PAR file for box...**
3. Save the PAR file for the primary firewall.

Step 4. Import the PAR File into the Primary Firewall

Log into your stand-alone firewall that must be turned into the primary firewall.

1. Go to **CONFIGURATION > Configuration Tree > Box**.
2. Right-click **Box** and select **Restore from PAR file**.
3. Click **OK**.
4. Select the PAR file that you already created for your primary firewall and click **OK**.
5. Click **Activate**.

Step 5. Activate the New Network Configuration for the Primary Firewall

1. On the primary firewall, go to **CONTROL > Box**.
2. In the left navigation pane, expand **Network** and click **Activate new network configuration**.
3. Select **Failsafe** as the activation mode.
4. In the left menu, expand **Operating System** and click **Reboot Box**.

Step 6. Create the PAR File for the Secondary Firewall

The new configuration in the Network node must be also propagated to the secondary firewall.

1. On the Control Center, go to **CONFIGURATION > Configuration Tree > Multi Range > your range > your cluster > Boxes > your box**.
2. Right-click **Box** and select **Create PAR file for box...**

DASHBOARD CONFIGURATION CONTROL FIREWALL

Configuration Tree

HA Cluster (Primary) (Managed by Control Center)

- Properties
- Administrative Settings
- Identity
- Network
- Traffic Shaping
- Box Licenses
- Advanced Configuration
- Infrastructure Services
- Assigned Services

DASHBOARD CONFIGURATION CONTROL FIREWALL

Configuration Tree

HA Cluster (Secondary) (Managed by Control Center)

- Secondary Properties
- Administrative Settings
- Identity
- Secondary Network
- Traffic Shaping
- Box Licenses
- Advanced Configuration
- Infrastructure Services
- Assigned Services

Figures

1. HA_create_secondary_box.png
2. HA_nodes_for_secondary_created.png
3. HA_enter_management_IP_for_secondary.png
4. verification_ha_cluster.png
5. HA_cluster_primary_config_tree.png
6. HA_cluster_secondary_config_tree.png

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