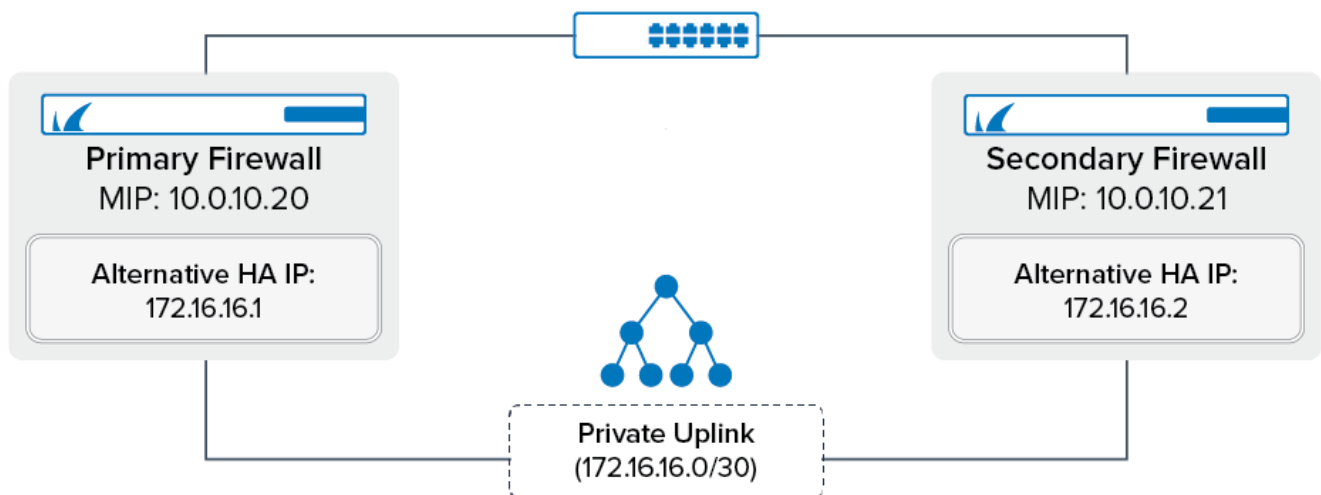


How to Configure a Private Uplink for a High Availability Cluster

<https://campus.barracuda.com/doc/96026366/>

After setting up an HA cluster, you can also configure a private uplink to safeguard against failure of the switch connecting the two HA units. For the private uplink, you must configure a network (at least 2-bit) as a subnet and configure the CloudGen Firewall to use this connection to send the HA sync packets.

The configuration of the private uplink must be done on the primary firewall for the HA pair. The configuration is automatically transmitted to the secondary firewall.



Before You Begin

- Barracuda Networks recommends directly connecting both firewalls with a crossover cable for the private uplink.
- A /30 network is required. E.g., 172.16.16.0/30

Step 1. Define the Alternative HA IP Addresses for the Primary and Secondary Firewall

1. Log into the primary firewall.
2. Go to **CONFIGURATION > Configuration Tree > Box > Network**.
3. Click **Lock**.
4. In the left menu, expand the **Configuration Mode** section and click **Switch to Advanced View**.

5. Click **+** to add the private IP address as an **Additional Local IP**. The **IP Address Configuration** window opens.
 - **Interface** – Select the interface the crossover cable is connected to.
 - **IP Address** – Enter the Alternative HA IP address for the unit. E.g., 172.16.16.1
 - **Associated Netmask** – Select **/30**.
 - **Responds to Ping** – Set to **yes**.
 - **Management IP** – Set to **yes**.

IPv4 Address Configuration

Interface	eth3	<input type="checkbox"/> Other
IP Address	172.16.16.1	
Secondary IP Address	172.16.16.2	
Associated Netmask	30-Bit	
Responds to Ping	yes	
Management IP	yes	

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

Step 2. Activate the Private Uplink

For the HA sync to work over the private link, you must associate the private link IPs with the corresponding management IP addresses. The UI label **Translated HA IP** stands for the management IP address of each firewall in HA pair. The UI label **Alternative HA IP** stands for the respective private uplink IP address.


1. Go to **CONFIGURATION > Configuration Tree > Box > Infrastructure Services > Control**.
2. Click **Lock**.
3. In the **HA Monitoring Parameters** section, add entries for the primary unit and secondary unit:
 - **Translated HA IP** – Enter the management IP address E.g., 10.0.10.20 for the primary unit
 - **Alternative HA IP** – Enter the additional local network IP of the unit. E.g., 172.16.16.1 for the primary unit
 - **Usage Policy** – Select from the following options:
 - **Use-Both** – Sends the HA sync and heartbeat over both the management IP link and the private uplink.
 - **Use-Alternative-Only** – Sends the HA sync and heartbeat only over the private uplink.
 - **Disabled** – The HA sync and heartbeat are sent over the management IP link only.

IPv4 Address Configuration


Interface	eth3	<input type="checkbox"/> Other
IP Address	172.16.16.1	
Secondary IP Address	172.16.16.2	
Associated Netmask	30-Bit	
Responds to Ping	yes	
Management IP	yes	
Translated HA IP	10.0.10.21	
Alternative HA IP	172.16.16.2	
Usage Policy	Use-Both	
Description	Secondary NG	

4. Click **OK**.
5. Click **Send Changes** and **Activate**.

HA Monitoring Parameters

Translated HA IP 

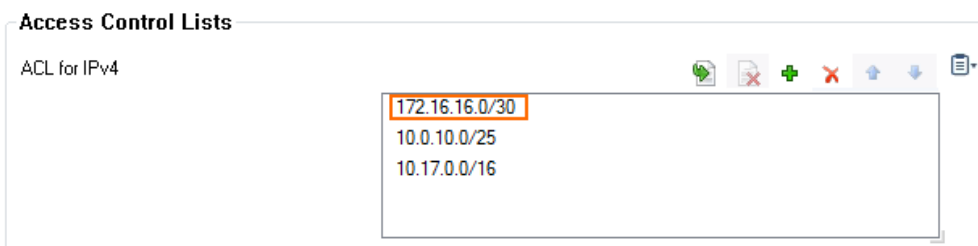
Translated HA IP	Alternative HA IP	Usage Policy	Description
10.0.10.20	172.16.16.1	Use-Both	Primary
10.0.10.21	172.16.16.2	Use-Both	Secondary

 Use this to establish HA heartbeat communication across an additional uplink.

Step 3. Add the Alternative HA IP Address to the ACL List

To grant administrative access rights for Alternative HA IP address usage, add the Alternative HA IP address to the ACL list.

1. Go to **CONFIGURATION > Configuration Tree > Box > Administrative Settings**.
2. Click **Lock**.
3. Add the /30 network containing the alternative HA IP addresses.

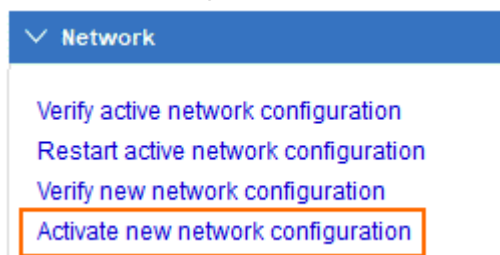


4. Click **Send Changes** and **Activate**.

Step 4. Activate the Network Configuration

Activate the network configuration on the primary and secondary CloudGen Firewall.

1. Go to **CONTROL > Box**.
2. In the menu, expand **Network** and click **Activate new network configuration**.



3. Select **Failsafe** as the activation mode.

Figures

1. ha_uplink_80.png
2. Private_Uplink_02.png
3. Private_Uplink_02.png
4. Private_Uplink_03.png
5. Private_Uplink_04.png
6. Private_Uplink_05.png
7. Standalone_HA_06.png

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