How to Perform a Manual High Availability Failover

https://campus.barracuda.com/doc/48202632/

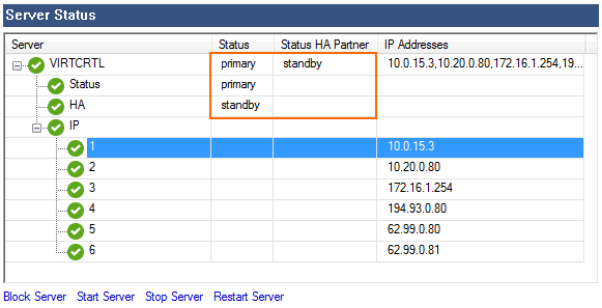
In an HA setup, the primary F-Series Firewall stays active until a serious problem occurs. If virtual servers and services must be shut down (for example, for system maintenance), you can do a manual failover to transfer all virtual servers to the secondary (backup) unit. Block the virtual server on the primary unit to shut down the Control service. The Control service will send a signal to the secondary unit that tells it to start its virtual server. Then, stop the virtual server on the primary unit to enable the Control service to restart it automatically if the secondary unit goes down. This mechanism works identically for an HA pair that is managed by a Barracuda NextGen Control Center and a stand-alone HA pair.

Perform a high availability failover when the primary unit is active

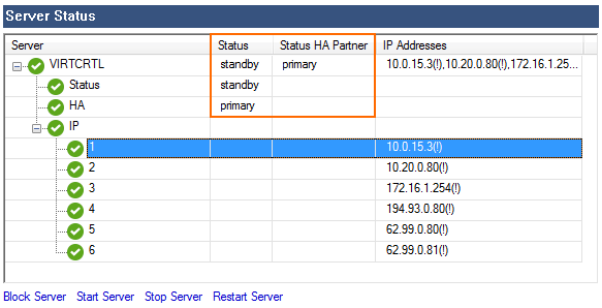
Block the virtual server on the primary unit to shut down the Control service and initiate the failover. After the failover, start the control service for the primary firewall to be able to take over the virtual server in case of failure.

Before you begin

- On the primary firewall, go to the **Control > Server** page and verify the **Status** is **primary**.



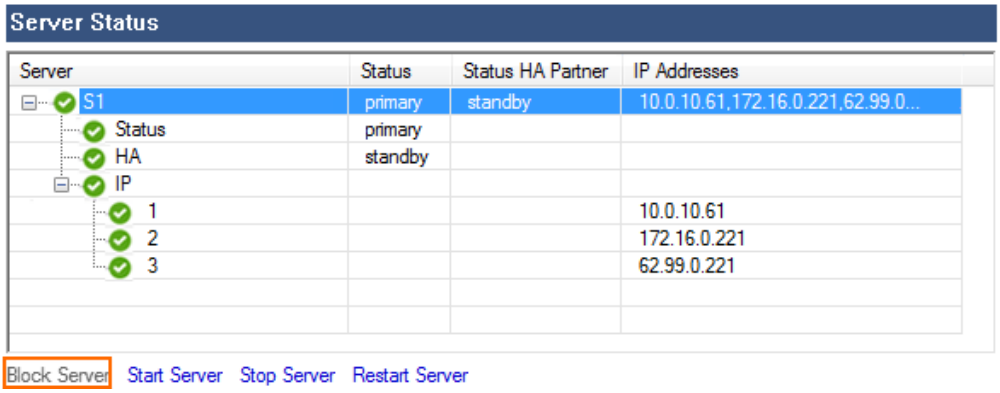
- On the secondary firewall, go to the **Control > Server** page and verify the **Status** is **standby**. If the **Status** is blocked, click **Stop Server**.



Step 1. Block the virtual server on the primary unit

1. Log into the primary unit.

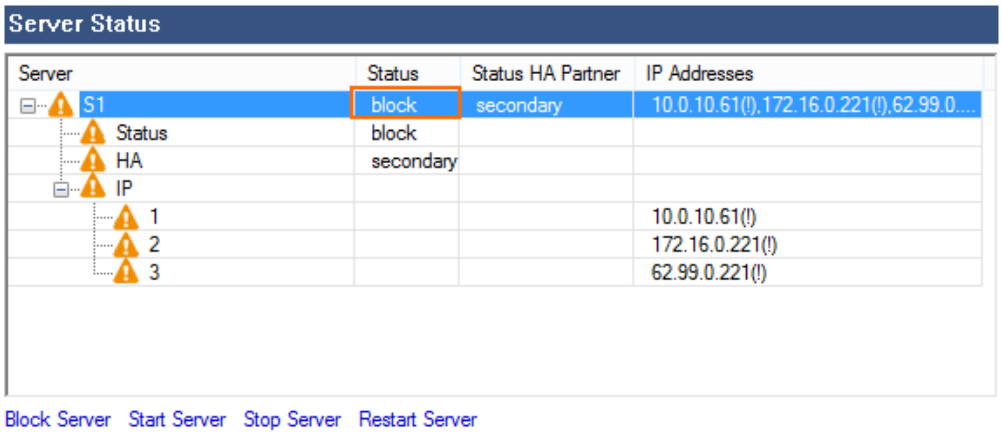
2. Go to the **Control > Server** page.
3. In the **Server Status** section, select the virtual server and click **Block Server**.



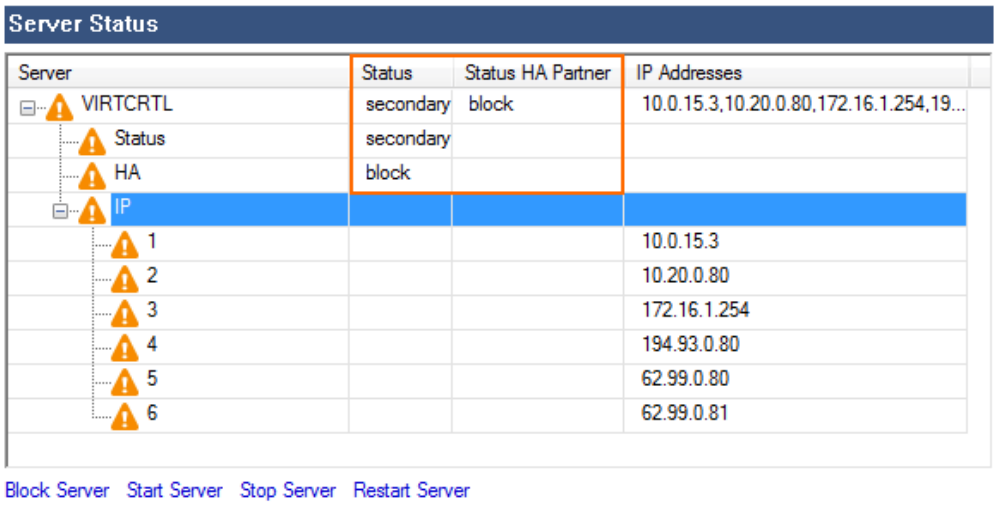
On the primary firewall, the virtual server **Status** column shows **block**. On the secondary firewall, the virtual server **Status** shows **secondary**.

- The virtual server is now running on the secondary firewall.
- The primary firewall is blocked and cannot take over the virtual server in case the secondary firewall fails.

Primary firewall



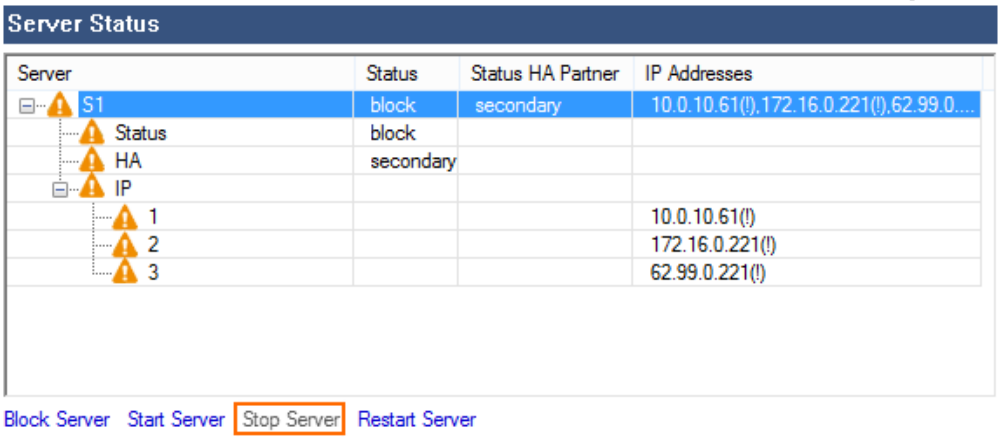
Secondary firewall



Step 2. Put the primary firewall in standby

Stop the virtual server on the primary firewall to be able to take over the virtual server in case the secondary firewall fails.

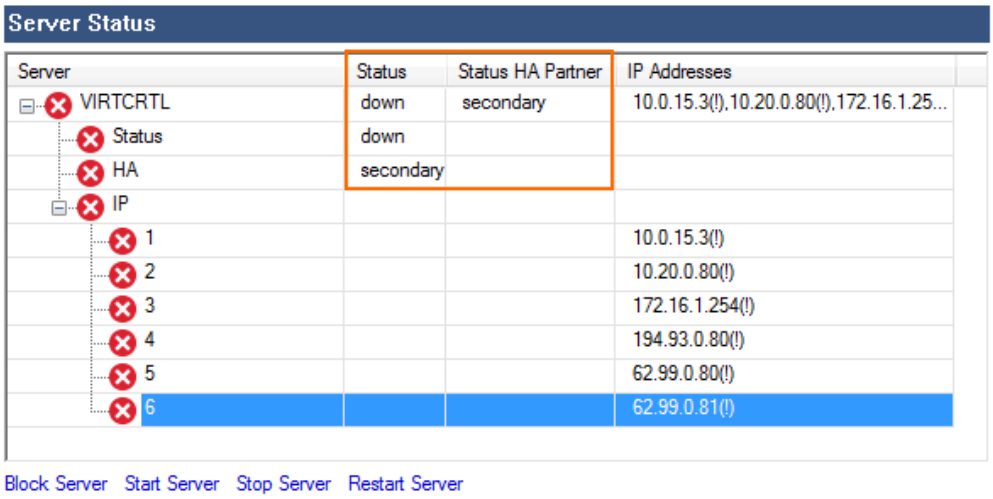
1. Log into the primary firewall.
2. Go to **CONTROL > Server**.
3. In the **Server Status** section, select the virtual server and click **Stop Server**.



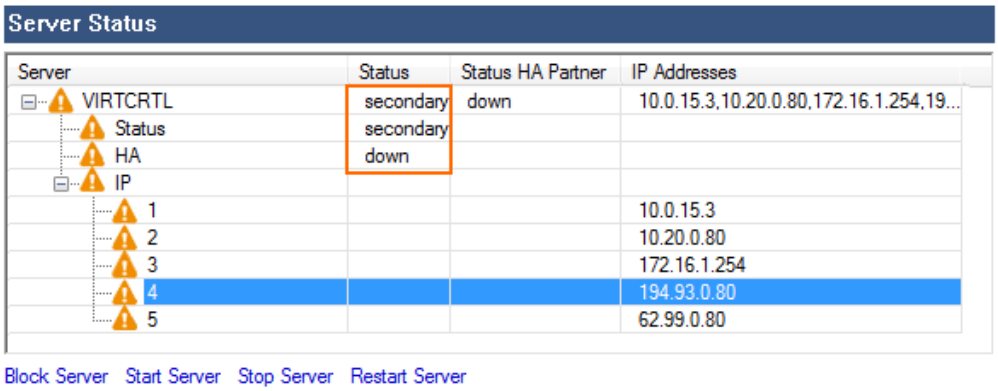
On the primary firewall, the virtual server **Status** column shows **down**. On the secondary firewall, the virtual server **Status** shows **secondary**.

- The virtual server is still running on the secondary firewall.
- The primary firewall is ready to take over the virtual server in case the secondary firewall fails.

Primary firewall



Secondary firewall

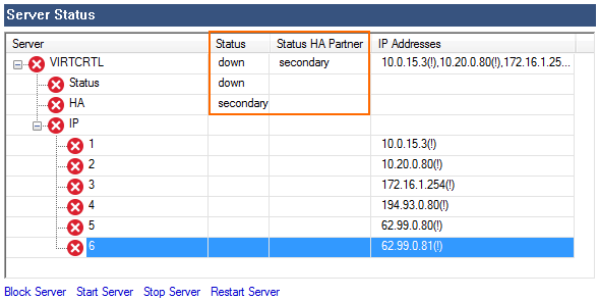


Perform a high availability failover when the secondary unit is active

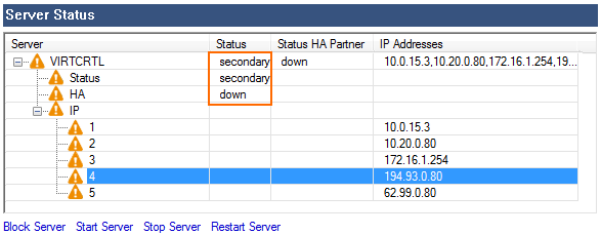
To perform a manual failover when the secondary unit is active, block and stop the virtual server on the secondary unit.

Before you begin

- On the primary firewall, go to the **Control > Server** page and verify the **Status** is **down**. If the **Status** is blocked, click **Stop Server**.

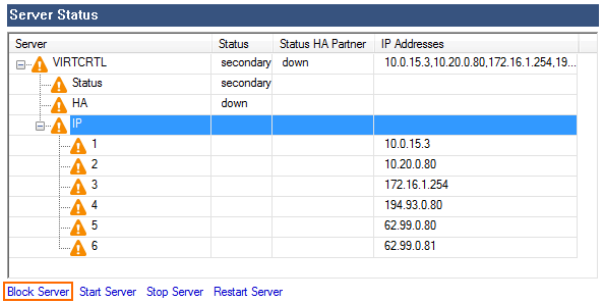


- On the secondary firewall, go to the **Control > Server** page and verify the **Status** is **secondary**.



Step 1. Block the virtual server on the secondary unit

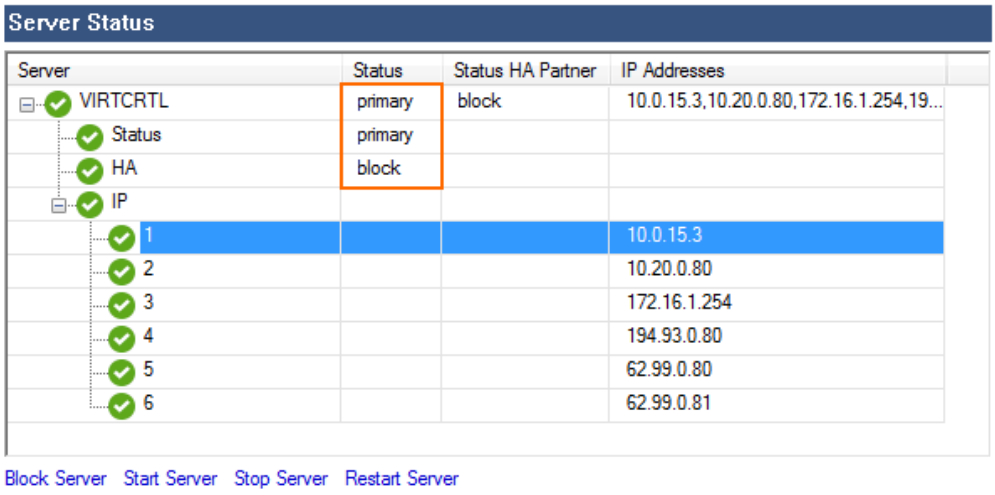
1. Log into the secondary firewall.
2. Go to the **Control > Server** page.
3. In the **Server Status** section, select the virtual server and click **Block Server**.



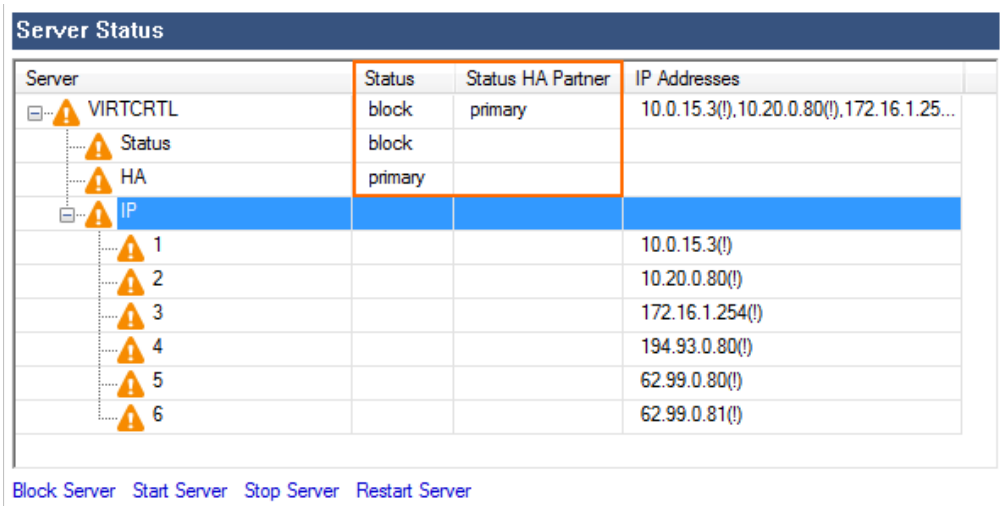
On the secondary firewall, the virtual server **Status** column shows **block**. On the primary firewall, the virtual server **Status** shows **primary**.

- The virtual server is now running on the primary firewall.
- The secondary firewall is blocked and cannot take over the virtual server in case the primary firewall fails.

Primary firewall



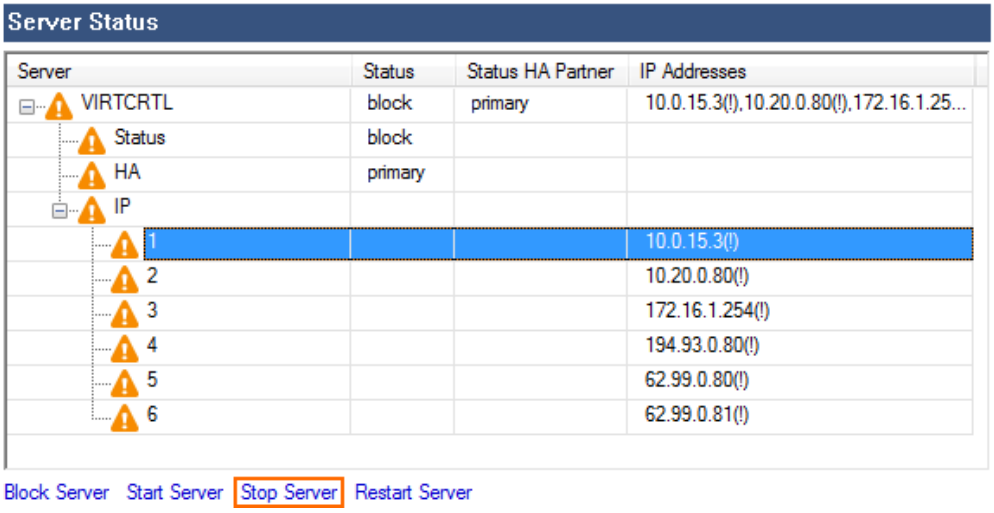
Secondary firewall



Step 2. Put the secondary firewall in standby

Stop the virtual server on the secondary firewall to be able to take over the virtual server in case the primary firewall fails.

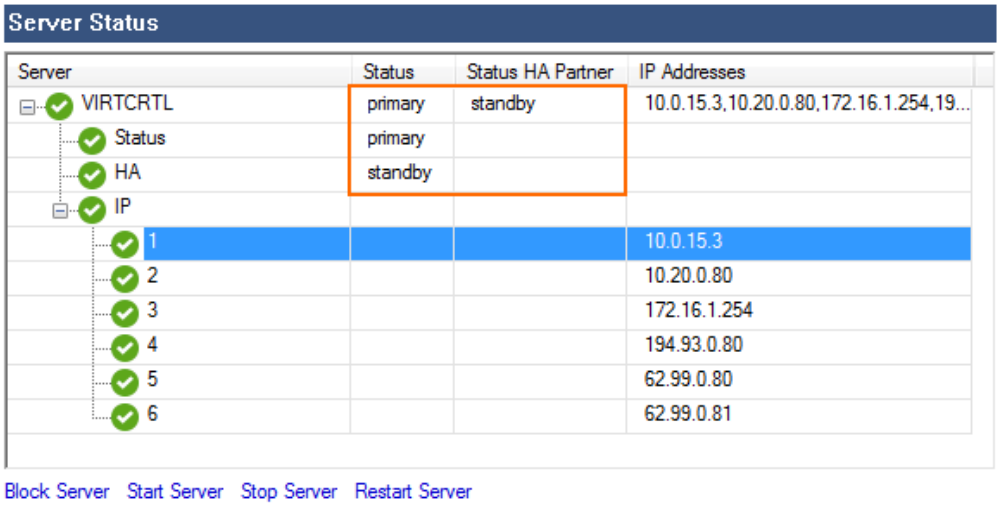
1. Log into the secondary firewall.
2. Go to **CONTROL > Server**.
3. In the **Server Status** section, select the virtual server and click **Stop Server**.



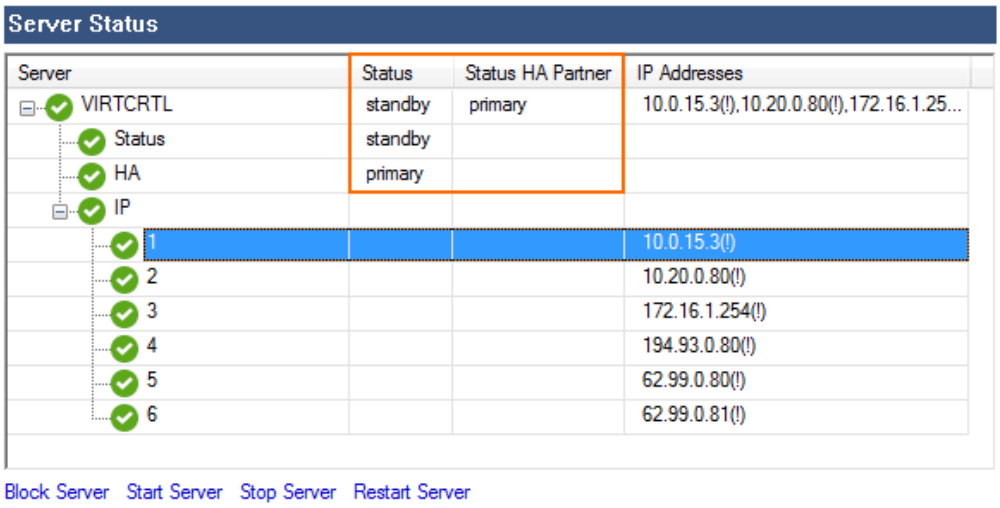
On the secondary firewall, the virtual server **Status** column shows **standby**. On the primary firewall, the virtual server **Status** shows **primary**.

- The virtual server is still running on the primary firewall.
- The secondary firewall is ready to take over the virtual server in case the primary firewall fails.

Primary firewall



Secondary firewall


Server Status
Server
Status
Status HA Partner
IP Addresses
VIRTCRTL
standby
primary
10.0.15.3(!),10.20.0.80(!),172.16.1.25...
Status
standby
HA
primary
IP
1
10.0.15.3(!)
2
10.20.0.80(!)
3
172.16.1.254(!)
4
194.93.0.80(!)
5
62.99.0.80(!)
6
62.99.0.81(!)
Block Server
Start Server
Stop Server
Restart Server

Figures

1. ha_manual_failover_9.png
2. ha_manual_failover_10.png
3. ha_manual_failover_01.png
4. ha_manual_failover_02.png
5. ha_manual_failover_02a.png
6. ha_manual_failover_04.png
7. ha_manual_failover_04a.png
8. ha_manual_failover_03.png
9. ha_manual_failover_04a.png
10. ha_manual_failover_03.png
11. ha_manual_failover_5.png
12. ha_manual_failover_6.png
13. ha_manual_failover_7.png
14. ha_manual_failover_8.png
15. ha_manual_failover_9.png
16. ha_manual_failover_10.png