



# **Manage nodes**

ASA r2

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# Manage nodes

## Add ASA r2 nodes to an ONTAP cluster


Beginning with ONTAP 9.16.1, ASA r2 storage systems support up to 12 nodes per cluster. After the new nodes of an HA pair have been cabled and powered on, you need to join them to the cluster.

### Before you begin

Gather the following information:

- The node IP address
- The intercluster network interface IP address
- The intercluster network subnet mask
- The intercluster network gateway
- If you want to configure the onboard key manager (OKM), you need the OKM passphrase.

### Steps

1. In System Manager, select **Cluster > Overview**.
2. Select  next to the node you want to join to the cluster; then select **Add node**
3. Enter the IP address for each node.
4. Enter the intercluster network interface IP address, subnet mask, and gateway.
5. If you want to configure the onboard key manager (OKM), enter the OKM passphrase.

**Configure onboard key manager for encryption** is selected by default.

6. Select **Add**.

### Result

The new HA pair is joined to the cluster.


### What's next?

After you add the new HA pair to the cluster, you can [enable data access from your SAN hosts](#) to your new nodes.

## Reboot a node on an ASA r2 storage system

You might need to reboot a node for maintenance, troubleshooting, software updates or other administrative reasons. When a node is rebooted, its HA partner automatically executes a takeover. The partner node then performs an automatic giveback after the rebooted node comes back online.

### Steps

1. In System Manager, select **Cluster > Overview**.
2. Select  next to the node you want to reboot; then select **Reboot**.

3. Enter the reason you are rebooting the node; then select **Reboot**.

The reason you enter for the reboot is recorded in the system audit log.


#### **What's next?**

While the node is being rebooted, its HA partner performs a takeover so that there is no interruption in data service. When the reboot is complete, the HA partner performs a giveback.

## **Rename a node on an ASA r2 storage system**

You can use ONTAP System Manager to rename a node on your ASA r2 system. You might need to rename a node to align with the naming conventions of your organization or for other administrative reasons.

#### **Steps**

1. In System Manager, select **Cluster > Overview**.
2. Select  next to the node you want to rename; then select **Rename**.
3. Enter the new name for the node, then select **Rename**.

#### **Result**

The new name is applied to the node.

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