



Remove Witness Nodes after expanding cluster

HCI

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October 02, 2020

This PDF was generated from https://docs.netapp.com/us-en/hci/docs/task_hci_removevn.html on November 17, 2020. Always check docs.netapp.com for the latest.

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After you expand a two-node storage cluster to four or more nodes, you can delete the pair of Witness Nodes to free up compute resources in your NetApp HCI installation. The Witness Nodes previously used by the storage cluster are still visible as standby virtual machines (VM) in vSphere Web Client.

About this task

Witness Nodes are not required in clusters with more than four storage nodes. This is an optional procedure if you want to free up CPU and memory after you expand your two-node cluster to four or more nodes.



Verify that no cluster faults or errors are reported. You can find information about system alerts by clicking **Reporting > Alerts** in the NetApp Element Management extension point in vSphere.

Steps

1. From vSphere, access the NetApp Element Management extension point from the **Shortcuts** tab or the side panel.
2. Select **NetApp Element Management > Cluster > Nodes**.

NetApp Element Management

Cluster SFPS-CLUSTER MVIP: 10.146 SVIP: 10.84 vCenter: 10.140											
Getting Started Reporting Management Protection Cluster VVols											
<input type="checkbox"/>	Node ID	Node Name	Node State	Available 4k IOPS	Node Role	Node Type	Active Drives	Management IP	Storage IP	Management VLAN ID	Storage VLAN
<input type="checkbox"/>	1	sfps-stg-01	Active	50000	Ensemble Node	H410S-O	6	10.147	10.85	0	101
<input type="checkbox"/>	2	sfps-stg-02	Active	50000	Ensemble Node, Cluster Master	H410S-O	6	10.148	10.86	0	101
<input checked="" type="checkbox"/>	3	sfps-witness-01	Active	0		SFVIRT	0	10.42	10.90		
<input checked="" type="checkbox"/>	4	sfps-witness-02	Active	0		SFVIRT	0	10.43	10.91		
<input type="checkbox"/>	5	sfps-stg-03	Active	50000	Ensemble Node	H410S-O	6	10.149	10.87	0	101
<input type="checkbox"/>	6	sfps-stg-04	Active	50000		H410S-O	6	10.150	10.88	0	101

3. Select the checkbox for the Witness Node that you want to delete, and click **Actions > Remove**.
4. Confirm the action in the prompt.

5. Click **Hosts and Clusters**.
6. Navigate to the Witness Node VM that you removed earlier.
7. Right-click the VM and power it off.
8. Right-click the VM that you powered off, and click **Delete from Disk**.
9. Confirm the action in the prompt.

Find more information

- [NetApp HCI Two-Node Storage Cluster | TR-4823](#)
- [NetApp HCI Documentation Center](#)
- [SolidFire and Element Software Documentation Center](#)

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