Supported networking changes

HCI

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Supported networking changes

After you deploy NetApp HCI, you can make limited changes to the default networking configuration. However, certain settings are required for smooth operation and proper network detection. Changing these settings will cause unexpected behavior, and might prevent you from expanding compute and storage resources.

After you deploy your system, you can make the following changes to the default network configuration in VMware vSphere as dictated by your network requirements:

- Change vSwitch names
- Change port group names
- Add and remove additional port groups
- Change the vmnic interface failover order for any additional port groups you have added

H300E, H500E, H700E and H410C compute nodes

NetApp HCI expects the following network configuration for H300E, H500E, H700E and H410C nodes.

The following is a six-interface configuration with VMware vSphere Distributed Switching (VDS). This configuration is only supported when used with VMware vSphere Distributed Switches, and requires VMware vSphere Enterprise Plus licensing.

Network function	vmkernel	vmnic (physical interface)
Management	vmk0	vmnic2 (Port A), vmnic3 (Port B)
iSCSI-A	vmk1	vmnic5 (Port E)
iSCSI-B	vmk2	vmnic1 (Port D)
vMotion	vmk3	vmnic4 (Port C), vmnic0 (Port F)

The following is a six-interface configuration with VMware vSphere Standard Switching (VSS). This configuration uses VMware vSphere Standard Switches (VSS).

Network function	vmkernel	vmnic (physical interface)
Management	vmk0	vmnic2 (Port A), vmnic3 (Port B)
iSCSI-A	vmk2	vmnic1 (Port E)
iSCSI-B	vmk3	vmnic5 (Port D)
vMotion	vmk1	vmnic4 (Port C), vmnic0 (Port F)

The following is a two-interface configuration. This configuration is only supported when used with VMware vSphere Distributed Switches (VDS), and requires VMware vSphere Enterprise Plus licensing.

Network function	vmkernel	vmnic (physical interface)
Management	vmk0	vmnic1 (Port D), vmnic5 (Port E)
iSCSI-A	vmk1	vmnic1 (Port E)
iSCSI-B	vmk2	vmnic5 (Port D)
vMotion	vmk3	vmnic1 (Port C), vmnic5 (Port F)

H610C compute nodes

NetApp HCI expects the following network configuration for H610C nodes.

This configuration is only supported when used with VMware vSphere Distributed Switches (VDS), and requires VMware vSphere Enterprise Plus licensing.

Ports A and B are unused on the H610C.

Network function	vmkernel	vmnic (physical interface)
Management	vmk0	vmnic2 (Port C), vmnic3 (Port D)
iSCSI-A	vmk1	vmnic3 (Port D)
iSCSI-B	vmk2	vmnic2 (Port C)
vMotion	vmk3	vmnic2 (Port C), vmnic3 (Port D)

H615C compute nodes

NetApp HCI expects the following network configuration for H615C nodes.

This configuration is only supported when used with VMware vSphere Distributed Switches (VDS), and requires VMware vSphere Enterprise Plus licensing.

Network function	vmkernel	vmnic (physical interface)
Management	vmk0	vmnic0 (Port A), vmnic1 (Port B)
iSCSI-A	vmk1	vmnic0 (Port B)
iSCSI-B	vmk2	vmnic1 (Port A)
vMotion	vmk3	vmnic0 (Port A), vmnic1 (Port B)

Find more information

- NetApp HCI Documentation Center
- SolidFire and Element Software Documentation Center

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