



# Network configuration

## HCI

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# Network configuration

NetApp HCI can utilize multiple different network cabling and VLAN configurations. The first configuration, option A, uses two network cables for each compute node.

## Configuration option A: Two cables for compute nodes

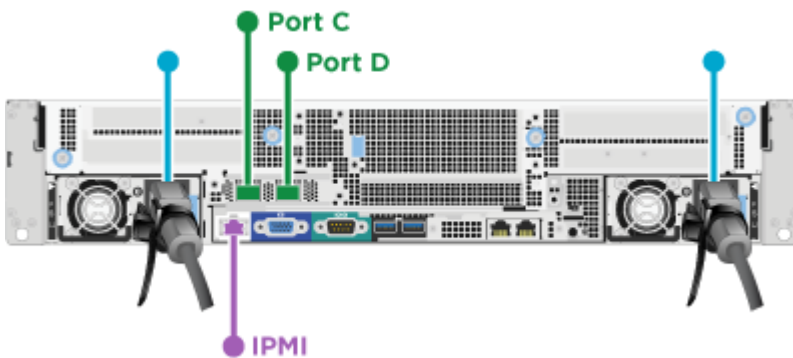
The NetApp H410C, H610C, and H615C compute nodes support using two network cables for connectivity to all NetApp HCI networks. This configuration requires that the storage, vMotion and any virtual machine networks use VLAN tagging. All compute and storage nodes must use the same VLAN ID scheme. This configuration uses vSphere Distributed Switches that require VMware vSphere Enterprise Plus licensing.

NetApp HCI documentation uses letters to refer to network ports on the back panel of H-series nodes.

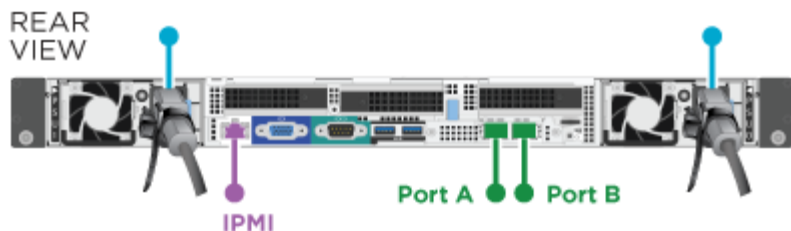
Here are the network ports and locations on the H410C storage node:



Here are the network ports and locations on the H610C compute node:



Here are the network ports and locations on the H615C compute node:



This configuration uses the following network ports on each node:

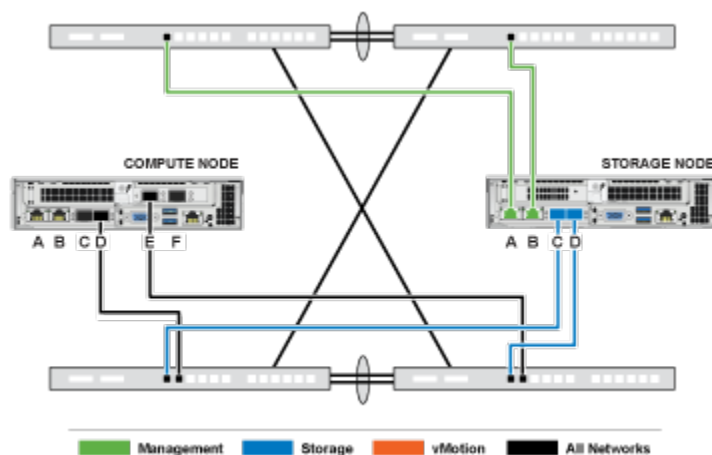
Node	Network ports used
H410C	D and E
H610C	C and D
H615C	A and B

## VLAN configuration

As a best practice, you should configure the required network segments on all switch ports that the nodes are using. For example:

Network name	VLAN ID	Switch port configuration
Management	100	Native
Storage	105	Tagged
vMotion	107	Tagged
Virtual machines	200, 201	Tagged

The following illustration shows the recommended cabling configuration for two-cable H410C compute nodes and four-cable H410S storage nodes. All switch ports in this example share the same configuration.



## Example switch commands

You can use the following example commands to configure all switch ports used for NetApp HCI nodes. These commands are based on a Cisco configuration, but might require only small changes to apply to Mellanox switches. See your switch documentation for the specific commands you need to implement this configuration. Replace the interface name, description, and VLANs with the values for your environment.

```
interface {interface name, such as EthernetX/Y or GigabitEthernetX/Y/Z}  
description {desired description, such as NetApp-HCI-NodeX-PortY}  
mtu 9216  
switchport mode trunk  
switchport trunk native vlan 100  
switchport trunk allowed vlan 105,107,200,201  
spanning-tree port type edge trunk
```



Some switches might require inclusion of the native VLAN in the allowed VLAN list. See the documentation for your specific switch model and software version.

## Find more information

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- [NetApp HCI Documentation Center](#)

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