



# Supported network configurations

## ONTAP Select

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# Supported network configurations

Select the best hardware and configure your network to optimize performance and resiliency.

Server vendors understand that customers have different needs and choice is critical. As a result, when purchasing a physical server, there are numerous options available when making network connectivity decisions. Most commodity systems ship with various NIC choices that provide single-port and multiport options with varying permutations of speed and throughput. Starting with ONTAP Select 9.8, 25Gb/s and 40Gb/s NIC adapters are supported with VMWare ESX.

Because the performance of the ONTAP Select VM is tied directly to the characteristics of the underlying hardware, increasing the throughput to the VM by selecting higher-speed NICs results in a higher-performing cluster and a better overall user experience. Four 10Gb NICs or two higher-speed NICs (25/40 Gb/s) can be used to achieve a high performance network layout. There are a number of other configurations that are also supported. For two-node clusters, 4 x 1Gb ports or 1 x 10Gb ports are supported. For single node clusters, 2 x 1Gb ports are supported.

## Network minimum and recommended configurations

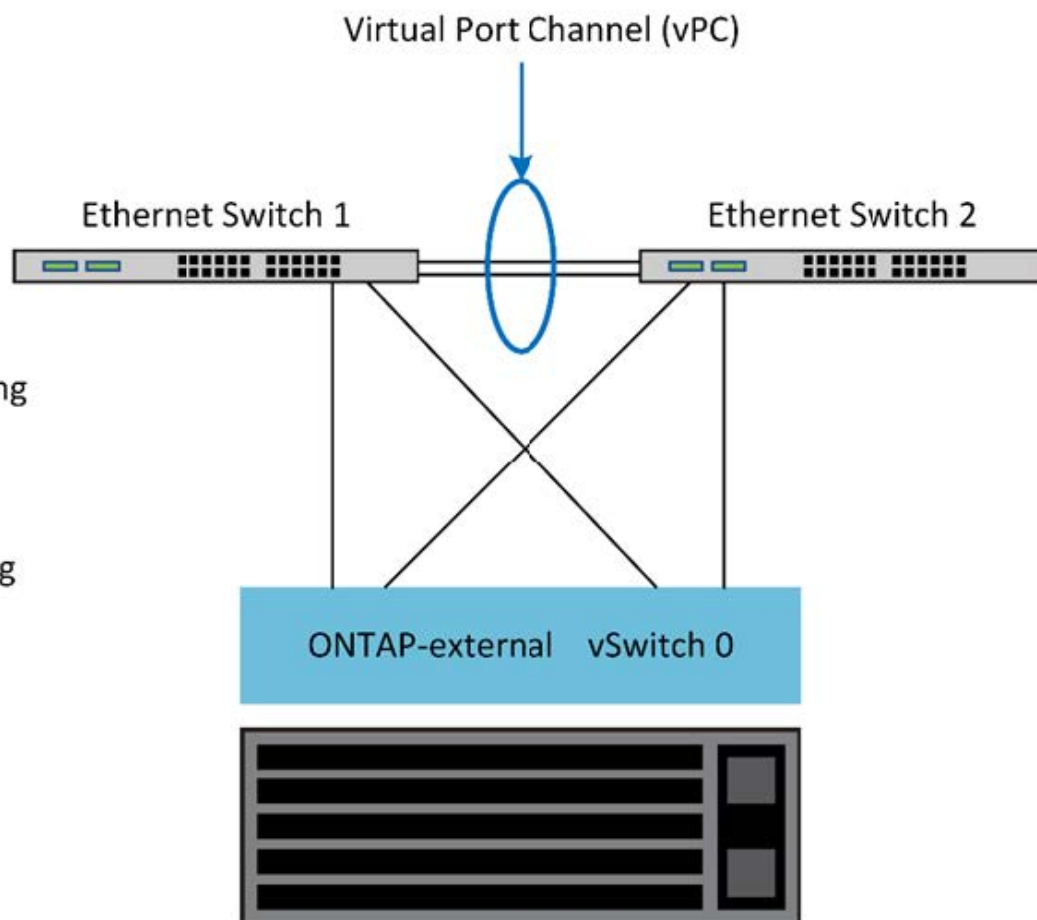
	Minimum Requirements	Recommendations
Single node clusters	2 x 1Gb	2 x 10Gb
Two node clusters/MetroCluster SDS	4 x 1Gb or 1 x 10Gb	2 x 10Gb
4/6/8 node clusters	2 x 10Gb	4 x 10Gb or 2 x 25/40Gb

## Network configuration using multiple physical switches

When sufficient hardware is available, NetApp recommends using the multiswitch configuration shown in the following figure, due to the added protection against physical switch failures.

**ONTAP-internal:**  
Virtual Switch Tagging  
VLAN 10

**ONTAP-external:**  
Virtual Guest Tagging  
Native VLAN 20



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