**Cluster Configuration**

Use Microsoft documentation

[New-Cluster (FailoverClusters) | Microsoft Learn](https://learn.microsoft.com/en-us/powershell/module/failoverclusters/new-cluster?view=windowsserver2022-ps)

Step 1: Go the primary node and open powershell

1. Using GUI: open “server manager” – click “failover cluster manager”

A screenshot of a computer

Description automatically generated

1. Follow the steps and validate the cluster

Use domain\accountname (since we have added this to the Active directory)

e.g Prod\sqladmin

A screenshot of a computer

Description automatically generated

1. Add the VMs to be validated

A screenshot of a computer

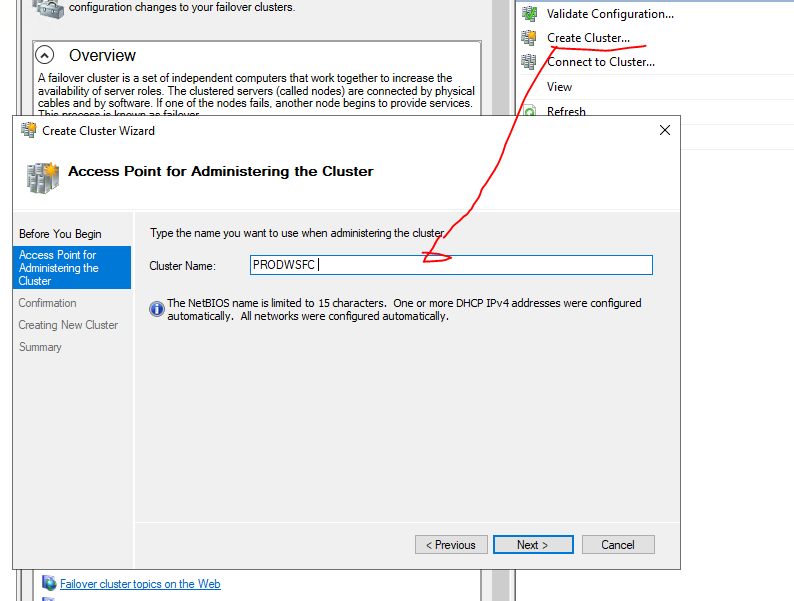
Description automatically generated

1. Finally run all tests.

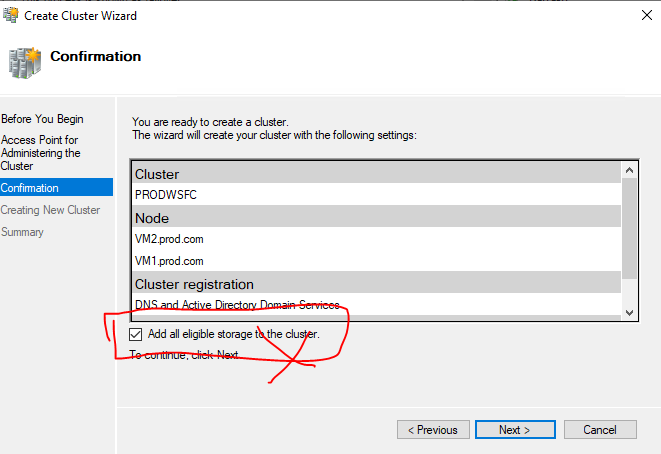
A screenshot of a computer error

Description automatically generated

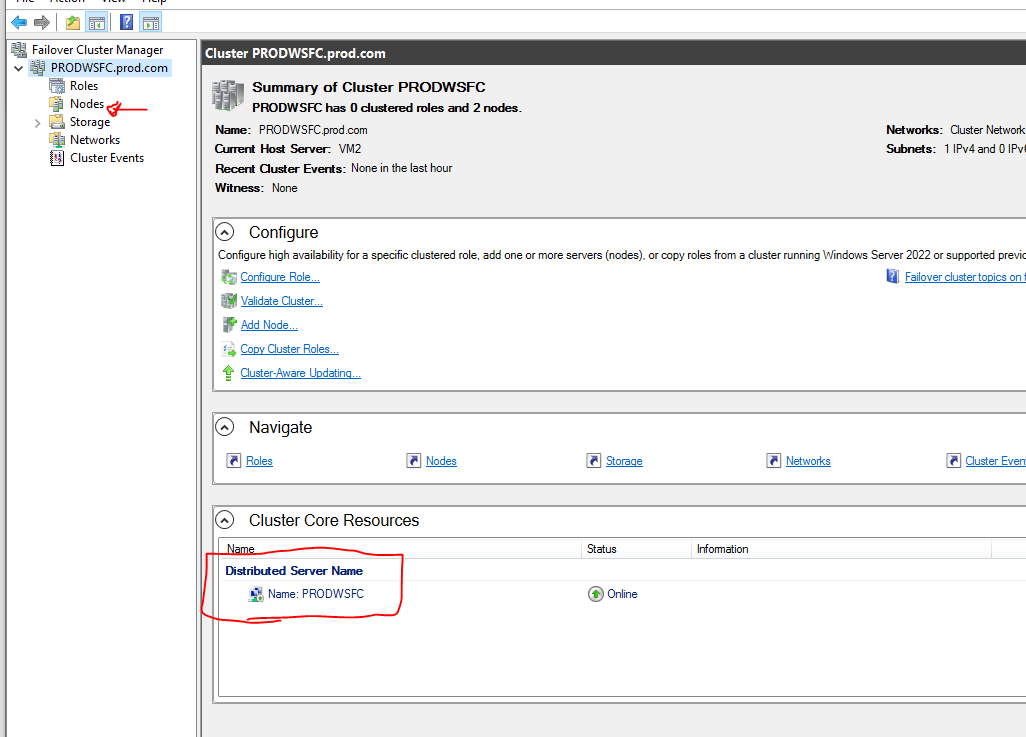
Step 2: create cluster



Uncheck the box for AG



The Cluster is created. Check the Nodes. The default uses distributed server name (DSN). DSN doesn’t have its own IP address, it is registed with the IP addresses of the nodes in the cluster in the DNS server.



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Description automatically generated

**Optional: Using PowerShell to create Cluster**

New-Cluster -Name PRODWSFC -Node VM1,VM2 -NoStorage

--On VMs with 2019 and 2022 windows, a cluster is created with Distributed server name, which avoids the need for load balancer for the VMs. But a load balancer will be needed if we create a listener with VNN.

**Reference**

[Configure a single-subnet availability group (PowerShell & Az CLI) - SQL Server on Azure VMs | Microsoft Learn](https://learn.microsoft.com/en-us/azure/azure-sql/virtual-machines/windows/availability-group-az-commandline-configure?view=azuresql&tabs=azure-cli)