■ NetApp

Base infrastructure configuration

FlexPod

NetApp June 03, 2021

This PDF was generated from https://docs.netapp.com/us-en/flexpod/healthcare/ehr-meditech-deploy_base_infrastructure_configuration.html on October 13, 2021. Always check docs.netapp.com for the latest.

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Base infrastructure configuration

Network connectivity

The following network connections must be in place before you configure the infrastructure:

- Link aggregation that uses port channels and virtual port channels (vPCs) is used throughout, enabling the design for higher bandwidth and high availability:
 - vPC is used between the Cisco FI and Cisco Nexus switches.
 - Each server has virtual network interface cards (vNICs) with redundant connectivity to the Unified Fabric. NIC failover is used between FIs for redundancy.
 - Each server has virtual host bus adapters (vHBAs) with redundant connectivity to the Unified Fabric.
- The Cisco UCS FI is configured in end- host mode as recommended, providing dynamic pinning of vNICs to uplink switches.

Storage connectivity

The following storage connections must be in place before you configure the infrastructure:

- Storage port interface groups (ifgroups, vPC)
- · 10Gb link to switch N9K-A
- · 10Gb link to switch N9K-B
- In- band management (active-passive bond):
 - 1Gb link to management switch N9K-A
 - 1Gb link to management switch N9K-B
- 32Gb FC end-to-end connectivity through Cisco MDS switches; single initiator zoning configured
- FC SAN boot to fully achieve stateless computing; servers are booted from LUNs in the boot volume that is hosted on the AFF storage cluster
- · All MEDITECH workloads are hosted on FC LUNs, which are spread across the storage controller nodes

Host software

The following software must be installed:

- ESXi installed on the Cisco UCS blades
- VMware vCenter installed and configured (with all the hosts registered in vCenter)
- VSC installed and registered in VMware vCenter
- · NetApp cluster configured

Next: Cisco UCS Blade Server and Switch Configuration.

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