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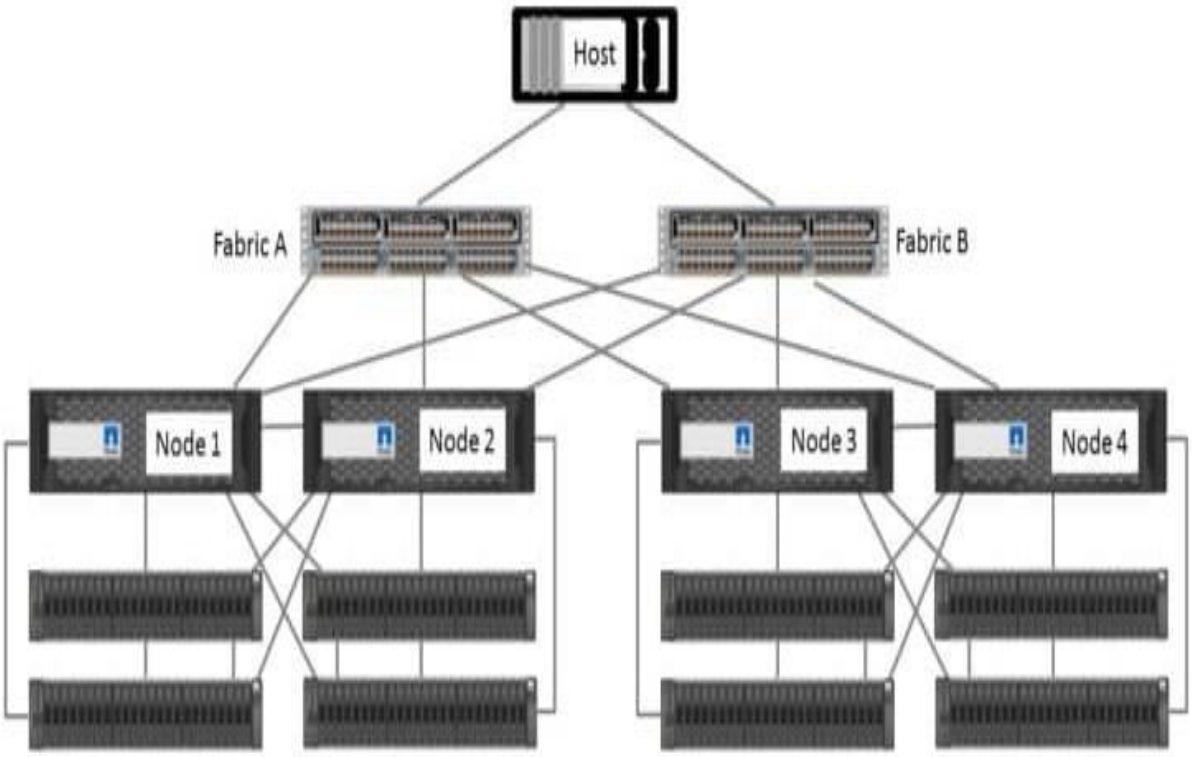


# NetApp SAN Implementation

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# NetApp SAN Implementation (SANIW)

- **Course Overview:**

In this course, you learn how to connect Windows, vsphere, and Linux hosts via Fibre Channel (FC) and iscsi protocols to NetApp SANs.

- **Course Outline:**

**1. San Review**

- Describe the differences between network-attached storage (NAS) and storage area network (SAN)
- List the methods to implement SAN solutions
- Define initiator, target and LUN
- Describe ports, worldwide names, and worldwide port names
- List the steps to implement a SAN

**2. Windows FC Connectivity**

- Describe multiple path implementation with Fiber Channel (FC) connectivity
- Configure FC ports on Windows® and NetApp® FAS systems
- Use commands and utilities to identify the worldwide node name (WWNN) and worldwide port name (WWPN) on Windows and NetApp systems
- Use commands and utilities to examine FC switch activity

**3. Windows iSCSI Connectivity**

- Describe multiple path implementation with iSCSI connectivity
- Configure network ports on Windows® and NetApp® systems
- Identify the node name on Windows and NetApp systems
- Implement and verify multiple path iSCSI connectivity between Windows and NetApp systems

**4. Windows LUN Access**

- Discuss LUN Access for Windows Server 2008 R2
- Create a LUN using wizards
- Explore techniques to configure a LUN for Windows Server 2008 R2
- Explain how SnapDrive for Windows simplifies LUN management

**5. vSphere Overview**

- Describe virtualization and how it can be used to promote server efficiency
- Explain methods of mapping NetApp® storage to Vmware vSphere™ datastores
- List the interfaces to administrate vSphere

**6. vSphere FC Connectivity**

- Describe multiple path implementation with Fibre Channel (FC) connectivity for VMware vSphere™ and NetApp® systems
- Configure FC ports on vSphere systems
- Identify the worldwide node name (WWNN) and worldwide port name (WWPN) on vSphere systems
- Configure and verify multiple path FC connectivity between vSphere and NetApp systems

**7. vSphere iSCSI Connectivity**

- Describe multiple path implementation with iSCSI connectivity for vSphere™ and NetApp® systems
- Configure network ports on vSphere systems
- Identify the node name on vSphere systems
- Configure and verify multiple path iSCSI connectivity between vSphere and NetApp systems

**8. vSphere LUN Access**

- Describe the steps that you take to allow a VMware vSphere™ initiator to access a LUN on a storage system as a Virtual Machine File System (VMFS) datastore
- Describe the steps that you take to allow a vSphere initiator to create a virtual machine (VM) with a raw device mapping (RDM) disk from a storage system's LUN

**9. NetApp Storage and Red Hat**

- Describe Red Hat® Enterprise Linux®
- Explain why NetApp® storage is ideal for LUNs that are managed by Red Hat Enterprise Linux

**10. Red Hat FC Connectivity**

- Describe multiple path implementation with Fiber Channel (FC) connectivity for Red Hat® and NetApp® systems
- Configure FC ports on Red Hat systems
- Identify the worldwide node name (WWNN) and worldwide port name (WWPN) on Red Hat systems
- Set up and verify multiple path FC connectivity between Red Hat and NetApp systems

**11. Red Hat iSCSI Connectivity**

- Describe multiple path implementation with iSCSI connectivity for Red Hat® and NetApp® systems
- Configure network ports on Red Hat systems
- Identify the node name on Red Hat systems
- Set up and verify multiple path IP connectivity between Red Hat and NetApp systems

**12. Red Hat LUN Access**

- Describe the steps to allow a Red Hat® initiator to access a LUN on a storage system

**13. LUN Provisioning**

- Describe how and when a LUN consumes space from its containing volume
- Discuss backup guarantees through NetApp Snapshot™ reserve
- Discuss the overwrite guarantee for space-reserved LUNs
- Analyze the default LUN configuration and two thin-provisioning configurations

**14. SAN Management**

- Perform administrative tasks on FC target ports
- Perform administrative tasks on LUNs
- Perform administrative tasks on initiator groups ( igroups)

**15. SAN Troubleshooting**

- Explain how to diagnose a problem within a SAN environment
- Review diagnostic tools and techniques available for NetApp Data ONTAP software

**Prerequisites:**

The below is required before attending this class:

- Data ONTAP 7-Mode Administration (D7ADM)
- Accelerated NCDA Boot Camp Data ONTAP 7-Mode (ANCDABC87)
- SAN Fundamentals on Data ONTAP WBT

**Who Can attend:**

- Professionals who implement SAN solutions that use NetApp storage systems

**Number of Hours: 40hrs**

**Certification: (SANIW)**

**Key Features:**

- One to One Training
- Online Training
- Fastrack & Normal Track
- Resume Modification
- Mock Interviews
- Video Tutorials
- Materials

- Real Time Projects
- Virtual Live Experience
- Preparing for Certification