

Prerequisites

- Basic Knowledge computers and operating system
- Little bit Network level knowledge
- Storage background is added advantage

Course Content

1. NetApp Storage Operating Systems and Hardware Platforms

NetApp Storage Operating Systems

7-Mode Hardware Architecture

Cluster Mode Hardware Architecture

Disk Shelf Hardware

The FAS Hardware Platform

Disk Shelf Tour and Cabling

Cluster, Management and Data Networks

NetApp Storage Architecture Overview

2. Benefits of Centralized Storage

NAS Network Attached Storage Overview

SAN Storage Protocols - Fibre Channel Overview Part

Fibre Channel Overview

SAN Storage Protocols - iSCSI Overview

SAN Storage Protocols - Fibre Channel over Ethernet FCoE

RAID Storage

3. Netapp Storage System Setup

System Setup Software

The Cluster Setup Wizard

Admin Components

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The Boot-Up Process

NetApp Storage Management Interfaces

OnCommand System Manager

OnCommand Unified Manager and OnCommand Insight

The Command Line Interface

The Service Processor

4. NetApp Storage Post Installation Tasks

Licensing

Network Time Protocol

AutoSupport

Event Management System

5. NetApp Storage Physical Resources and Caching

Storage Architecture Review

Disks, Aggregates and RAID Groups

Advanced Disk Partitioning

WAFL and the System Memory Cache

Virtual Storage Tier FlashCache

Virtual Storage Tier FlashPool

Virtual Storage Tier FlashPool Configuration

Storage Pools

Disk and VST Guidelines

6. NetApp Storage Logical Resources

Storage Virtual Machines

Role Based Access Control and Active Directory Integration

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RBAC and AD Integration Configuration

Flexible Volumes

Qtrees and Quotas

Infinite Volumes

7. NetApp Networking

Interface Groups

VLANs

Logical Interfaces

IPspaces

Broadcast Domains and Failover Groups

Subnets

Network Load Balancing

Switch Configuration

Networking Configuration Review

Cluster Network Configuration

Management Network Configuration

Broadcast Domain Configuration

Interface Group Configuration

VLAN Configuration

Subnets Configuration

Logical Interface Configuration

Network Load Balancing Configuration

IPspace Configuration

8. NetApp Storage NAS Protocols

NFS the Network File System

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Export Policies

NFS Configuration

CIFS / SMB the Common Internet File System

Multiprotocol

Windows to UNIX Multiprotocol Configuration

9. NetApp Storage SAN Protocols

SAN Implementation on NetApp Clustered Data ONTAP Storage

Multipath Tools - MPIO, DSM, ALUA, SLM and Host Utilities

ISCSI Configuration for Windows clients

ISCSI Configuration for Linux clients

Fibre Channel and FCoE Configuration

SnapDrive and SnapManager

10. Snapshots

Schedule Configuration

Snapshot Configuration, SnapRestore and Windows Clients

FlexClone

11. Storage Efficiency

Thin Provisioning

Deduplication and Compression

12. NetApp Storage Data Protection

SyncMirror

High Availability

The SnapMirror Engine

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SnapMirror Fan In, Fan Out and Cascades

Load Sharing Mirrors

Load Sharing Mirrors Configuration

SnapMirror and SnapVault Initial Setup

SnapMirror Data Protection Mirrors

SnapVault

Tape Backups

MetroCluster

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