VNX Unified Storage Deployment and Management
GK4429

Delivery Type: Classroom

Duration: 5 days

Overview

Explore the key elements of SAN/IP-SAN and NAS deployment via practical experience with EMC VNX Unified Storage systems.

This Specialist-level course is targeted for storage/cloud infrastructure administrators requiring in-depth knowledge and practical lab work with EMC VNX Unified Storage systems. This intensive training covers all the key elements of SAN/IP-SAN (block access) and NAS (file access) deployment.

You will cover a wide range of topics in detail, and you'll participate in hands-on lab exercises that reinforce the concepts, including:

Integrating VNX block access for open systems hosts (Linux, Windows, and VMware ESXi) through FC, iSCSI, and FCoE connectivity options

Configuring VNX file-level access for Windows, Linux, and VMware user/application environments via network file system (NFS) and common Internet file system (CIFS) environments Initial storage system configuration, security, and availability using Unisphere NAS configurations, including file system creation, export, permissions, and quotas in Linux, VMware ESXi, and Windows environments Implementing local replications solutions

An end-of-class assessment validates that you have learned the knowledge or skills presented.

Pre-Requisites

✓ We strongly recommend that you have knowledge of and experience with:
✓ VNX system architecture
✓ Unisphere and Navisphere Secure CLI
✓ EMC PowerPath operations
✓ SAN configurations, including basic utilization of the software tools used to manage the major Fibre Channel, FCoE, and Ethernet switch environments
✓ TCP/IP networking
✓ Ethernet switch configuration, including managed switch features such as VLANs
✓ Ethernet settings, including duplex, throughput, and port channeling
✓ Basic Microsoft Windows administration skills (managing users/groups, files, and directories)
✓ Basic UNIX administration skills (managing users/groups, files, and directories)
✓ Basic VMware ESX/ESXi operations and management

Objectives

✓ Implement Unisphere security
✓ Provision block-level storage
✓ Manage host access to block storage
✓ Perform basic host integration tasks for block storage
✓ Integrate a Windows host to VNX block storage
✓ Integrate a Linux host to VNX block storage

- ✓ Details of a VMware ESXi/VNX block-level solution
- ✓ Implement advanced storage features
- ✓ Configure basic networking for VNX file-level access
- ✓ Configure VNX file systems
- ✓ Export VNX file systems for NFS access
- ✓ Usermapper operations and management
- ✓ Configure VNX file systems for CIFS access
- ✓ Create and manage Virtual Data Movers
- ✓ Manage permissions for CIFS
- ✓ Implement file system quotas
- ✓ Configure CIFS features
- ✓ Implement networking features
- ✓ Implement VNX SnapView snapshots
- ✓ Implement VNX SnapView clones
- ✓ Configure VNX SnapSure

Target Audience

IT professionals responsible for configuring, deploying, and managing block- and file-based VNX storage systems in heterogeneous host environments.

Certification

- ✓ This course is part of the following programs or tracks:
- ✓ Storage Administrator (EMCSA) Specialist - VNX Solutions
- ✓ Follow on Courses
- ✓ There are no follow-ons for this course.