

VNX Unified Storage Management

Course Description

Course Duration

5 Days



Overview

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 training covers all the key elements of SAN/IP-SAN (block access) and NAS (file access) deployment. It provides participants with detailed discussions on integrating VNX block access for open systems hosts (Linux, Microsoft Windows and VMware ESXi) through FC, iSCSI and, FCoE connectivity options. In addition, VNX file-level access will be configured for Microsoft Windows and Linux user/application environments via NFS and CIFS environments. Initial storage system configuration, security and availability using Unisphere are also covered. NAS configurations, including file system creation and export in Microsoft Windows, Unix, and VMware ESXi environments are explored. Lastly, the course will cover configuration and management of local replications solutions.

The course covers a wide range of topics in detail, and includes hands-on lab exercises that reinforce the concepts covered in lectures. It is strongly recommended that only participants with the necessary prerequisite skill set attend this course.

Audience

This course is intended for information technology professionals responsible for the configuration, deployment and management of VNX Block, File, and/or Unified storage systems in heterogeneous host environments.

Prerequisite Knowledge/Skills

To understand the content and successfully complete this course, a student should have knowledge and skills associated with the following:

- VNX system architecture
- EMC PowerPath operations
- SAN configurations, including basic utilization of the software tools used to manage the Fibre Channel, FCoE and Ethernet switch environments
- TCP/IP networking
- Ethernet switch configuration, including management of switch features like VLANs,

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- Ethernet settings, including duplex, throughput, and port channeling
- Basic Microsoft Windows administration skills (Managing users/groups, files and directories)
- Basic UNIX/Linux administration skills (Managing users/groups, files and directories)
- Basic VMware ESX/ESXi operations and management

A list of specific prerequisite courses can be found in EMC Education Services Learning Management System.

Course Objectives

Upon successful completion of this course, participants should be able to:

- Implement Unisphere security
- Provision and manage host access to block storage
- Perform basic host integration tasks for block storage
- Integrate Microsoft Windows, Linux, and ESXi hosts to VNX block storage
- Configure and manage advanced storage features such as FAST VP and FAST Cache
- Configure networking for VNX file-level access
- Configure VNX file systems
- Export VNX file systems for NFS and CIFS access
- Create and manage Virtual Data Movers
- Configure and manage VNX local replication solutions—SnapView, VNX Snapshots, SnapSure

Course Outline

The content of this course are designed to support the course objectives. The following focus areas are included in this course:

- Unisphere Security and Basic Management
 - Unisphere and CLI Interface
 - Unisphere Security Features and Implementation
 - Unisphere Authentication using LDAP
 - Control Station Auditing
 - Notification Methods and Event Monitoring
- Storage System Provisioning and Management
 - SP Networking and Cache
 - VNX Storage Objects
- Host Integration and Access to Block Storage
 - Access Logix
 - Network Topologies and Requirements

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- PowerPath and other Host Utilities
- Host Installation and Integration for Block
 - Implementing Windows, Linux, and ESXi FC and iSCSI Connectivity
- Advanced Storage Concepts
 - FAST VP and FAST Cache
- VNX Block Local Replication Solutions
 - Replication Terminology and Operations
 - Configuring and Managing SnapView Snapshot, SnapView Clone, and VNX Snapshot
- Data Mover Networking
 - Data Mover Network Devices
 - Implementing DNS and Time Services
 - Networking high availability features
- Virtual Data Movers
 - Virtual Data Mover Overview
 - Create and Manage Virtual Data Movers
- Configuring and Exporting File Systems
 - File System Components and Features
 - File System Creation and Administration
 - Exporting File Systems to UNIX and ESXi
- Configuring CIFS
 - Create and Join a CIFS Server to a Windows Domain
 - File System Access Via CIFS
 - CIFS Operational Considerations
 - Usermapper
 -
- VNX SnapSure
 - VNX SnapSure Theory and Operations
 - Configuring SnapSure
 - Planning SnapSure
 - Managing Checkpoints
- Data Mover Failover
 - Configuring Data Mover Failover
 - Testing Data mover Failover and Failback

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In addition to lecture and demonstrations, this course includes labs designed to allow practical experience for the participant.

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Course Delivery Options

This course is currently available in the following formats:



MR-1CP-VNXUNIDM: Instructor led - includes hands-on lab exercises that reinforce the concepts covered in lectures.



MR-1LP-VNXUNIDM: Online ILT - Live course delivered via the internet where participants attend virtual classroom interacting with instructors and other participants. A headset with microphone is REQUIRED to speak with the instructor and the rest of the class. Text communication is also available through the virtual classroom.



MR-1TP-VNXUNIDM: Stream Video – Streaming video provides a recording of an instructor-delivered course along with recorded labs, online quizzes and additional content.



MR-1VP-VNXUNIDM: Video ILT – DVD video provides a recording of an instructor-delivered course along with recorded labs, online quizzes, and additional content.

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