EMC VNX Unified Storage Management

Duration: 5 Days   Course Code: VNXUNIDM

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 VNX Block, File, and Unified deployments. It covers integrating VNX block access for open systems hosts (Linux, Windows and VMware ESXi) through FC, iSCSI and, FCoE, and VNX file level access for Windows and Linux user/application environments via NFS and CIFS. Lastly, the course also covers configuration of local replications solutions for VNX systems.

Target Audience:

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

Objectives:

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

- Configuring Unisphere security and notifications

- Provision and manage VNX block-level storage

- Configure and manage VNX storage features such as LUN migration and expansion, FAST VP, FAST Cache, and deduplication

- Configure and manage VNX Block local replication solutions–SnapView, VNX Snapshots, SnapSure

- Configure VNX File storage services for Linux/Unix/ESXi environments via NFS, and Windows environments via CIFS

- Manage and monitor file systems, Virtual Data Movers, and Usermapper

- Configure and manage VNX File local replication solutions with VNX SnapSure

Prerequisites:

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 and TCP/IP networking
- Ethernet switch configuration
- Basic Microsoft Windows and UNIX administration skills (Managing users/groups, files and directories)
- Basic VMware ESX/ESXi operations and management

Content:

The content of this course are designed to support the course objectives.

Introduction to VNX Management

Unisphere Security and Basic Management

- Unisphere GUI and CLI Interface
- Unisphere Security Features
- Notifications and Event Monitoring
- Unisphere Storage Domains

Storage System Configuration

- SP Networking and Cache Settings

Host Integration to Block Storage

- Storage Networking Topologies and Requirements
- Storage Networking with Fibre Channel and iSCSI
- Host Registration and Storage Architecture
- Configure Storage

Managing Block Host Connectivity

- Data Path Management
- Managing Block Host Connectivity
- VNX and VMware API Integration

Advanced Storage Features

- LUN Migration and LUN Expansion
- FAST VP and FAST Cache
- Block Space Efficiency Features
- Data-At-Rest Encryption (D@RE)

Local Replication for Block

- SnapView Snapshots and SnapView Clones
- Managing VNX Snapshots

VNX File Configuration

- Introduction to VNX File
- Basic IP Networking Configuration for VNX File
- Virtual Data Movers
- Configuration of VNX File Systems – NFS and CIFS

VNX File Content and Space Efficiency Features

- File System Quotas
- File Level Retention and File Deduplication
- Thin LUN File System

Networking Features

- Networking Features Overview and Configuration
- Complex Examples and Considerations

VNX SnapSure

- Writable Checkpoints
- Configuring SnapSure
- Planning SnapSure and Managing Checkpoints

Data Mover Failover

Data Mover Failover Operations

- Testing Data Mover Failover and Failback

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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