Enterprise Computing Solutions - Education Services

OFERTA FORMATIVA

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VNX Unified Storage Deployment and Management

CÓDIGO:	DURACIÓN:	Precio:
EMC_USDM	40 Hours (5 días)	€4,230.00

Description

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. It provides participants with detailed discussions on integrating VNX block access for open systems hosts (Linux, Windows and VMware ESXi) through FC, iSCSI and, FCoE connectivity options. In addition, VNX file level access will be configured for Windows, Linux and VMware 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, export, permissions and quotas in Linux, VMware ESXi, and Windows environments, are explored. Lastly, the course will cover implementation 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.

Objetivos

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

- 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
- Describe 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
- Explain 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

Público

This course is intended for information technology professionals responsible for the configuration, deployment and management of block and file based VNX storage systems in heterogeneous host environments.

Requisitos Previos

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

- VNX system architecture

- Familiarity with 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 like 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

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

Programa

These modules are designed to support the course objectives. The following modules are included in this course:

- Unisphere Security and Basic Management
    - Unisphere Security Features
    - Unisphere Authentication using LDAP
    - Control Station Auditing
    - IP Address Filtering
    - Unisphere SSL/TLS Certificates
    - VNX File Notifications Methods
- Block Storage Provisioning and Management
    - Configuring RAID Groups and Traditional LUNs
    - Pools and Pool LUNs
- Managing Host Access to Block Storage
    - Access Logix
- Host Integration Basics
    - Connectivity
    - Software
- Host Installation and Integration - Windows
    - Windows Host Integration
- Host Installation and Integration - Linux
    - Linux Host Integration
- Host Installation and Integration - ESXi
    - ESXi Host Integration
- Advanced Storage Concepts
    - Configuring meta LUNs
    - LUN Migration
    - FAST
    - Data Compression
    - FAST Cache
- Basic Network Configuration
    - Data Mover Network Devices
    - Implementing DNS and Time Services
    - Data Access Protocols and Services
- Configuring File Systems
    - File System Components
    - Creating File Systems
    - Managing File Systems
    - File System Auto Extension / Virtual Provisioning
- Exporting File Systems to Linux and ESXi
    - Exporting File Systems to Linux
    - Exporting File Systems to ESXi
- Networking Features
    - Configuring Networking Features
    - Considerations
- Configuring CIFS
    - Create and Join a CIFS Server to a Windows Domain
    - File System Access Via CIFS
    - Computer Names, NetBIOS Names, and Aliasing
- Virtual Data Movers
    - Virtual Data Mover Overview
    - Configuring Virtual Data Movers
- Managing Permissions in a CIFS-only Environment
    - Managing Permissions

    - Assigning Permissions
- File System Quotas
    - User and Group Quota Management
    - Tree Quotas
    - Managing Quotas from CIFS/NFS clients
- CIFS Features
    - Auditing CIFS
    - Home Directory Support
    - Common AntiVirus Agent (CAVA)
    - File Extension Filtering
- Usermapper
- VNX SnapSure
    - Writeable Snapshots
    - Creating and Accessing Snapshots
    - Managing Snapshots
    - Planning for SnapSure

Opciones

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-1VP-VNXUNIDM: Video ILT - DVD video provides a recording of an instructor delivered course along with recorded labs, online quizzes, and additional content. (Available August 2011)
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.

Fechas Programadas

A petición. Gracias por contactarnos.

Información Adicional

Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.