

VMAX All Flash and VMAX3 Configuration Management

Duration: 3 Days Course Code: VMAXCM

Overview:

This Specialist level course provides participants with an in-depth understanding of configuration tasks on the VMAX All Flash and VMAX3 Family of arrays. Key features and functions of the VMAX All Flash and VMAX3 arrays are covered in detail. Topics include storage provisioning concepts, virtual provisioning, automated tiering (FAST), device and port management, service level based storage provisioning and eNAS. Participants will use Unisphere for VMAX and Solutions Enabler (SYMCLI) to manage configuration changes. The lab exercises will be performed on Open Systems hosts (traditional and virtualized) attached to VMAX3 arrays.

Target Audience:

This course is intended for EMC personnel, customers, and partners who will be managing VMAX All Flash and VMAX3 arrays.

Objectives:

- Upon successful completion of this course, participants should be able to:
- Provide an overview of configuration and storage provisioning
- Describe virtual provisioning concepts and automated tiering
- Create thin devices
- Manage ports and port characteristics
- Perform service level objective based provisioning to hosts

- Set/change Host I/O Limits, SLO, and Workload Type
- Monitor Storage Resource Pools and SLO Compliance
- Use Unisphere for VMAX for Workload Planning
- Provide an overview of the eNAS solution
- Manage eNAS
- Provide an overview of storage management in a virtualized environment

Prerequisites:

- VMAX3 Fundamentals
- VMAX All Flash Fundamentals
- VMware vSphere

Content:

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

Module - Configuration Management Overview

- Lesson Overview
- Lesson Storage Provisioning Overview
- Lab Explore VMAX3 Environment with Unisphere for VMAX and SYMCLI

Module – Virtual Provisioning and FAST Concepts

- Lesson Virtual Provisioning and FAST Overview
- Lesson FAST Algorithms and Parameters

Module - Device and Port Management

- Lesson Device Management
- Lesson Port Management
- Lesson iSCSI Management
- Lab Port Management with Unisphere and SYMCLI

Module – Storage Allocation using Auto-provisioning Groups

- Lesson Auto-provisioning Groups
 Overview
- Lesson Host Considerations Storage Allocation
- Lesson Service Level Objective Based Provisioning with Unisphere
- Lab Service Level Objective Based Provisioning with Unisphere
- Lesson Service Level Objective Based Provisioning with SYMCLI
- Lab Service Level Objective Based Provisioning with SYMCLI
- Lab Cascaded Storage Groups Moving devices Non-disruptively and Changing SLO
- Lab Managing Host I/O Limits

Module – Monitoring and Workload Planning with Unisphere for VMAX

- Lesson Monitor SRP
- Lesson Monitor SLO Compliance
- Lesson Workload Planning
- Lab Monitoring SRP and SLO Compliance with Unisphere
- Lab Workload Planning with Unisphere

Module - eNAS Overview

Module - eNAS Management

- Lesson Unisphere for VMAX File Dashboard
- Lab Allocate Storage to eNAS with Unisphere for VMAX File Dashboard
- Lesson Managing File Systems/Shares
- Lab Create FS/Share on VMAX3 Storage with Unisphere for VNX

Module – Management in a Virtualized Environment

- Lesson Virtual Server Management Unisphere for VMAX
- Lesson EMC VSI for VMware vSphere Web Client

This course includes labs designed to allow practical experience.

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931 info@globalknowledge.co.uk

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