DELLEMC

PowerMax and VMAX Family Configuration and Business Continuity Administration

Course Description

Course Duration

5 Days

Overview

This Specialist level course provides participants with an in-depth understanding of configuration tasks on PowerMax and VMAX family arrays. It also provides the knowledge required to deploy and manage PowerMax and VMAX family array-based local and remote replication solutions for business continuity needs. Key features and functions of the arrays are covered in detail. Topics include storage provisioning concepts, virtual provisioning, device creation and port management, and service level-based storage allocation to hosts.

Operational details and implementation considerations for Dell EMC TimeFinder SnapVX and Symmetrix Remote Data Facility (SRDF) are covered. Participants will use Unisphere for PowerMax/VMAX and Solutions Enabler (SYMCLI) to manage configuration changes on the arrays.

Hands-on lab exercises using Symmetrix Command Line Interface (SYMCLI) and Unisphere for PowerMax will be performed on Open Systems hosts attached to PowerMax and VMAX3 arrays.

Audience

This course is intended for Dell EMC customers, partners and employees responsible for configuration and administration of PowerMax and VMAX Family arrays.

Prerequisite Knowledge/Skills

To successfully complete this course, students must have an understanding of PowerMax, VMAX All Flash and VMAX3 Arrays. Students should also have experience with Windows and ESX operating systems, and the ability to utilize host-based GUI and/or command line interfaces to perform hands-on labs.

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Course Objectives

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

- Provide an overview of PowerMax and VMAX Family configurations
- Discuss storage provisioning concepts
- Manage ports and port characteristics
- Perform Service Level based provisioning to hosts
- Provide an overview of storage management in a virtualized environment
- Use Unisphere for PowerMax for Compliance Monitoring and Workload Planning
- Provide details on local and remote replication offerings in PowerMax and VMAX Family arrays

Course Outline

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

- Configuration Administration
  - Overview
  - Storage Provisioning Overview
- Provisioning and Service Levels
  - Virtual Provisioning and FAST Overview
  - PowerMaxOS 5978 Service Levels
  - VMAX3 FAST Algorithms and Parameters
- Device and Port Management
  - Device Management
  - Port Management
- Storage Allocation using Auto-provisioning Groups
  - Auto-provisioning Groups Overview
  - Host Considerations – Storage Allocation
  - Service Level Based Provisioning with Unisphere
  - Service Level Based Provisioning with SYMCLI
- Management in a Virtualized Environment
  - Virtual Server Management – Unisphere for PowerMax
  - Dell EMC VSI for VMware vSphere Web Client
- Monitoring and Workload Planning with Unisphere for PowerMax
  - Monitor SRP

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- – Monitor Compliance
- – Monitor Data Reduction
- – Workload Planning
- Introduction to Business Continuity
- TimeFinder SnapVX Operations
  - – TimeFinder SnapVX Concepts and Operations
  - – TimeFinder SnapVX Operations Using Unisphere for PowerMax
  - – Replicating VMFS Datastore
- SRDF/Synchronous Operations
  - – SRDF Initial Setup Operations
  - – SRDF Disaster Recovery Operations
  - – SRDF Decision Support Operations
  - – SRDF/S Operations Unisphere for PowerMax
  - – SRDF/S VMFS Datastore Disaster Recovery
- SRDF/Asynchronous Operations
  - – SRDF/A Concepts and Operations
  - – SRDF/A Resiliency Features
  - – Independent Groups and Multi-Session Consistency
- SRDF/Metro
  - – SRDR/Metro Introduction
  - – Implementing SRDF/Metro
  - – Configure SRDF/Metro Device Pairs

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

Course Delivery Modes and Product Version Information

Refer to the **Product Version Description** document for a list of Delivery Modes and product versions covered by this course.

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