



Symmetrix VMAX Configuration Management

Duration: 5 Days **Course Code: SVMAXCM**

Overview:

The course provides participants with the information needed to configure a Symmetrix VMAX 1/2 and prepare it for host access. The course content will emphasize the use of the Symmetrix Command Line interface (SYMCLI) on the Symmetrix VMAX 1/2 Series Array. Time will also be spent on managing configuration changes with the Unisphere for VMAX GUI. The content will cover different types of devices and their functions. Creation, mapping, and masking of devices to traditional and VMware ESXi servers will be included in lecture and lab material. Other topics include Autoprovisioning, Virtual Provisioning, Virtual LUN migration for regular and thin devices, Fully Automated Storage Tiering (FAST) for disk groups and Virtual Pools, and Federated Tiered Storage. Lab exercises will cover operational details of all topics.

Target Audience:

This course is intended for EMC personnel, customers and partners who Configure Symmetrix VMAX 1/2 devices
Use Symmetrix Engenuity features to manage storage
Use Engenuity features to manage non-Symmetrix storage from EMC and other vendors

Objectives:

- **Upon successful completion of this course, participants should be able to:**
 - Provide an overview of Symmetrix VMAX 1/2 Configuration
 - Create and Map Symmetrix VMAX 1/2 Devices
 - Connect hosts to Symmetrix VMAX 1/2 storage
 - Map and Mask Devices using Autoprovisioning
 - Describe Virtual Provisioning Concepts
 - Manage Virtual Provisioning with Solutions Enabler
 - Monitor Thin Pools
 - Migrate devices non-disruptively using Virtual LUN Migration
 - Describe Federated Tiered Storage
 - Describe FAST and FAST VP Concepts
 - Manage FAST and FAST VP with SYMCLI
 - Describe Symmetrix VMAX 1/2 Configuration with Unisphere for VMAX
 - Manage Symmetrix VMAX 1/2 storage in a virtual environment
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Prerequisites:

To understand the content and successfully complete this course, the student must have an understanding of Symmetrix VMAX 1/2 and VMware vSphere fundamentals.

Labs will be conducted on Unix and Windows systems. Students must be familiar with the editor so they can create files during the lab exercises.

Content:

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

- Symmetrix VMAX 1/2 configuration overview
- Device creation and mapping
- Host connectivity considerations
- Autoprovisioning groups
- Virtual Provisioning concepts and planning
- Virtual Provisioning with Solutions Enabler
- Monitoring thin pools
- Virtual LUN Migration
- Federated tiered storage
- FAST and FAST VP concepts
- Managing FAST and FAST VP with SYMCLI
- Symmetrix VMAX 1/2 configuration with Unisphere for VMAX
- Symmetrix VMAX 1/2 in a virtual environment

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

- Explore lab setup
- Create different devices and map them with configuration manager
- RDF Groups and Pairs
- Mapping and Masking
- Create Thin and data devices, pools
- Map and mask thin devices
- Miscellaneous virtual provisioning operations
- Monitoring thin pool usage
- Virtual LUN migration DP and VP
- Federated Tiered Storage
- Manage FAST VP using SYMCLI
- Symmetrix VMAX 1/2 Configuration with Unisphere for VMAX

ESXi server storage provisioning

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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