

VMAX3 Performance Workshop

Duration: 2 Days Course Code: VMAXPW

Overview:

This course introduces participants to the methodology for analyzing performance of Symmetrix VMAX 1/2 arrays. Participants will learn to analyze Symmetrix VMAX performance using ControlCenter Performance Manager and Symmetrix Performance Analyzer tools. Metrics that are relevant for analysis of each of the components in a Symmetrix VMAX 1/2 array are presented. Participants will learn to identify bottlenecks for performance and provide recommendations to remedy the problem. Hands-on lab exercises using performance archives reinforce the concepts and methodology presented in the lecture.

Target Audience:

This course is intended for anyone responsible for operating, maintaining, and optimizing the performance of a Symmetrix storage environment.

Objectives:

- Upon successful completion of this course, participants should be able to:
- Relate knowledge of the Symmetrix architecture and I/O handling processes to their performance benefits
- Identify the performance impact different types of workloads have on Symmetrix VMAX 1/2 architectural components

Prerequisites:

To understand the content and successfully complete this course, a student must have a suitable knowledgebase/skill set. The student must have an understanding of basic Symmetrix DMX and VMAX 1/2 architecture and the use of ControlCenter Performance Manager. Some experience with Symmetrix Performance Analyzer will be helpful.

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

- Use key metrics to identify performance bottlenecks and components over utilization
- Make performance-oriented recommendations when allocating new storage or migrating applications

Content:

The content of this course are designed to	Module 3: Performance Analysis	Module 6: Analyzing Performance of
support the course objectives. The following	- -	Symmetrix VMAX Backend Adapters
focus areas are included in this course: ?	Lesson 1: Workload Profiles and	,
	Characterization	Lesson 1: Symmetrix Backend
	Lesson 2: Performance Analysis	Architecture
Madula 1: Derformance Management Overview	Roadmap	
Module 1: Performance Management Overview		Lesson 2: Analyzing Symmetrix Backend
	Lesson 3: Little's Law and its Impact on	Utilization
	Response Time	Lesson 3: Analyzing I/O Imbalance
Module 2: Tools for Analyzing Performance		Lesson 4: Symmetrix Backend
	Module 4: Analyzing Performance of the	Optimization Algorithms
Lesson 1: Unisphere for VMAX Performance	Symmetrix Front-end Adapters	Lesson 5: Impact of RAID Protection on
Overview		Backend Performance
Lesson 2: Loading Data in Performance		
Viewer	Module 5: Analyzing Symmetrix Cache	Module 7: Performance Considerations for
Lesson 3: Navigating Performance Viewer	Performance	Business Continuity Operations
	Lesson 1: Symmetrix Cache Architecture	Lesson 1: TimeFinder Performance
	Lesson 2: Cache Hit and Miss I/O	Considerations
	Operations	Lesson 2: SRDF Performance
	Lesson 3: System and Device Write	Considerations
	Pending Limits	
	6	
	Lesson 4: Dynamic Cache Partitions	
	Lesson 5: Alignment of I/Os with Cache	

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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Slots

Lesson 6: XtremSW Cache
Lesson 7: Roadmap and Analysis