



Enterprise Computing Solutions - Education Services

OFERTA FORMATIVA

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Symmetrix VMAX Performance Workshop

CÓDIGO:	DURACIÓN:	Precio:
EMC_MR-1CP-SPERET	32 Hours (4 días)	€3,076.00

Description

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.

Objetivos

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

Público

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

Requisitos Previos

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.

Programa

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

Module 1: Performance Management Overview Module 2: Tools for Analyzing Performance

Lesson 1: Unisphere for VMAX Performance Overview

Lesson 2: Loading Data in Performance Viewer

Lesson 3: Navigating Performance Viewer

Module 3: Performance Analysis

Lesson 1: Workload Profiles and Characterization

Lesson 2: Performance Analysis Roadmap

Lesson 3: Little's Law and its Impact on Response Time

Module 4: Analyzing Performance of the Symmetrix Front-end Adapters

Lesson 1: Symmetrix Cache Architecture

Lesson 2: Cache Hit and Miss I/O Operations

Lesson 3: System and Device Write Pending Limits

Lesson 4: Dynamic Cache Partitions

Lesson 5: Alignment of I/Os with Cache Slots

Lesson 6: XtremSW Cache

Module 5: Analyzing Symmetrix Cache Performance Lesson 7: Roadmap and Analysis

Module 6: Analyzing Performance of Symmetrix VMAX Backend Adapters

Lesson 1: Symmetrix Backend Architecture

Lesson 2: Analyzing Symmetrix Backend Utilization

Lesson 3: Analyzing I/O Imbalance

Lesson 4: Symmetrix Backend Optimization Algorithms

Lesson 5: Impact of RAID Protection on Backend Performance

Module 7: Performance Considerations for Business Continuity Operations

Lesson 1: TimeFinder Performance Considerations

Lesson 2: SRDF Performance Considerations

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

Fechas Programadas

A petición. Gracias por [contactarnos](#).

Información Adicional

[Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.](#)