

VMAX All Flash and VMAX3 Performance Workshop

Duration: 3 Days Course Code: VMAXAF3PW

Overview:

This course introduces participants to the methodology for analyzing the performance of VMAX All Flash and VMAX3 family of storage arrays. Unisphere for VMAX will be used to analyze the performance of VMAX All Flash and VMAX3 arrays. Metrics that are relevant for analysis of each of the components in the arrays 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 Dell EMC Personnel, Dell EMC Partners, and Dell EMC Customers who will be involved in implementing and managing the performance of VMAX All Flash and VMAX3 arrays.

Objectives:

- Upon successful completion of this course, participants should be able to:
 - Describe the architecture of VMAX All Flash and VMAX3 arrays from a performance perspective
 - Articulate the best practices for optimal performance of VMAX All Flash and VMAX3 arrays
 - Use Unisphere for VMAX to monitor and analyze performance of the arrays
 - Understand the correlation between workloads, Service Levels and the resulting performance
 - Devise a strategy to analyze key metrics to investigate performance problems and possible remediation
 - Use the analysis information for future provisioning of storage to applications
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Prerequisites:

- Architecture of VMAX All Flash and VMAX3 arrays
 - VMAX3 Service Level based provisioning
 - SRDF
 - TimeFinder SnapVX
 - Basic knowledge of Unisphere for VMAX
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Content:

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

Module: VMAX All Flash and VMAX3 Architecture and Best Practices

? Lesson: VMAX All Flash and VMAX3 architecture from a performance perspective

■ ? Lesson: Best practices for optimal performance

Module: Performance Analysis – Methodology

? Lesson: Performance Analysis Methodology

? Lesson: Performance Metrics

? Lesson: Workload Profiles and Characterization

■ ? Lesson: Little's Law and its impact on Response Time

Module: Performance Analysis with Unisphere for VMAX

? Lesson: Performance related administrations tasks

? Lesson: Monitoring Performance

? Lesson: Performance Reports

■ ? Lesson: Offline Performance Viewer

Module: Performance Analysis of Frontend Directors

? Lesson: Relevant Metrics and Analysis Strategy

■ ? Lesson: Correlating Workload, Service Level, Allocation for Storage Groups

■ ? Lesson: VMAX All Flash Array – Data Compression

Module: Performance Analysis of Cache

■ ? Lesson: Performance Analysis of Cache

Module: Performance Analysis of Backend Directors

? Lesson: Relevant Metrics and Analysis Strategy

■ ? Lesson: Correlating Workload, Service Level, Allocation for Storage Groups

■ ? Lesson: VMAX All Flash Array – Data Compression

Module: End-to-end Analysis of Performance problems

■ ? Lesson: End-to-end Analysis of Performance problems

Module: Performance Considerations for SRDF and TimeFinder SnapVX

? Lesson: TimeFinder SnapVX Considerations

? Lesson: SRDF Considerations

? Lesson: SRDF Performance Analysis

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

Further Information:

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

training@globalknowledge.ae

www.globalknowledge.com/en-ae/

Global Knowledge, Dubai Knowledge Village, Block 2A, First Floor, Office F68, Dubai, UAE