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Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

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ONTAP Performance Analysis (ONTAP 9.6)

CODE:

NEP_OT-CLU-PA9.6

LENGTH:

24 Hours (3 days)

PRICE:

£2,660.00

Description

This course enables you to collect and analyze system performance data from NetApp® storage systems that run NetApp ONTAP® 9 software. You learn how to interpret data and how to identify and implement changes that improve system efficiency. You also learn how to use system commands and features to monitor and enhance storage system performance. You learn from hands-on exercises, case studies, and technical discussions.

Objectives

• Describe how to use NetApp tools for performance measurement
• Describe the layers within the ONTAP architecture
• Diagram the flow of read and write requests through the network and data layers of ONTAP software
• Discuss how storage quality of service (QoS) operates in an ONTAP cluster
• Explain how to monitor and manage workload performance
• Use the performance analysis tools to identify NAS and SAN performance obstacles

Audience

Professionals who manage NetApp storage systems and would like a deeper understanding of Clustered Data ONTAP system performance

Prerequisites

Hands-on experience with ONTAP software (6 months to 12 months) is required in addition to the OT-CLU-DPA instructor led class..
   OT-CLU-DPA - ONTAP Cluster Administration and Data Protection

Programme

Basic Concepts of Performance
Module 1: Performance Analysis Fundamentals Performance Monitoring Methodology **Module 2: Performance Analysis Tools**
FAS and AFF Architecture
Performance terminology Data Flow
Using Active IQ Unified Manager **Module 3: Storage System Architecture and Data Flow** NVRAM Functionality
Identifying CPU Performance Bottlenecks
WAFL Functions Resolving CPU Performance Bottlenecks
WAFL Readahead Identifying Memory Performance Bottlenecks
Module 4: WAFL Resolving WAFL issues **Module 5: CPU and Memory** Resolving Memory Performance Bottlenecks
Disk Subsystem Hardware
Analyzing and Isolating Disk Subsystem Bottlenecks
Analyzing Disk Subsystem Bottlenecks with Statit
Module 6: Disk Subsystem Resolving Disk Subsystem Bottlenecks   **Module 7: Cache Subsystem**
Cache Subsystem Overview
Flash Cache Feature
Flash Pool Feature
Flash Cache Policies and Flash Pool Policies
Storage Pool
Cache Sizing   **Module 8: Storage Quality of Service** Managing System Performance with QoS

NAS functions
Identifying NAS Bottlenecks

SAN Overview
SAN Multipathing
SAN load balancing
SAN I/O Misalignment

Module 9: NAS Subsystem Resolving NAS Bottlenecks **Module 10: SAN Subsystem** Queue depth   **Labs:**

Identifying cluster components
Analyzing performance statistics
OnCommand performance manager thresholds, events and alerts
Identifying and resolving storage controller performance issues
WAFL performance monitoring and analysis
Identifying and resolving disk I/O bottlenecks
Exploring cache performance
Cluster interconnect performance
Workload management with storage QoS
NAS performance
SAN protocol performance

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
09 Dec 2024	Virtual Classroom	GMT	English	Instructor Led Online		£2,660.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.