Enterprise Computing Solutions - Education Services

WUVN

TRAINING OFFERING

You can reach us at:

Arrow ECS B.V., Kromme Schaft 5, 3991 AR Houten, The Netherlands

Email: education.ecs.nl@arrow.com Phone: +31 20 582 6109

NetApp ONTAP Performance Analysis (ONTAP 9.6)

CODE: LENGTH: PRICE:

NEP_OT-CLU-PA9.6 24 Hours (3 days) €2,850.00

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 Data Flow Performance terminology 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

SAN Multipathing SAN load balancing NAS functions SAN I/O Misalignment Identifying NAS Bottlenecks 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

SAN Overview

Session Dates

Date	Location	Time Zone	Language	Туре	Guaranteed	PRICE
08 Jul 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
09 Dec 2024	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€2,850.00

Additional Information

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