



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Skontaktuj się z nami

Email: szkolenia.ecs.pl@arrow.com
Phone: 12 616 43 00



ONTAP Performance Analysis (ONTAP 9.6)

Kod: **Czas trwania:** **Cena netto:**

NEP_OT-CLU-PA9.6 24 Hours (3 days) zł13,600.00

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.

Cel szkolenia

- 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

Uczestnicy

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

Wymagania wstępne

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

Program szkolenia

Basic Concepts of Performance

Module 1: Performance Analysis Fundamentals Performance Monitoring Methodology **Module 2: Performance Analysis Tools**

Performance terminology FAS and AFF Architecture
Using Active IQ Unified Manager Data Flow

Module 3: Storage System Architecture and Data Flow NVRAM Functionality

WAFL Functions

Identifying CPU Performance Bottlenecks

WAFL Readahead

Resolving CPU Performance Bottlenecks

Module 4: WAFL Resolving WAFL issues **Module 5: CPU and Memory** Identifying Memory Performance Bottlenecks

Disk Subsystem Hardware

Resolving Memory Performance Bottlenecks

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

Module 9: NAS Subsystem		Module 10: SAN Subsystem		Labs:
NAS functions	Identifying NAS Bottlenecks	Resolving NAS Bottlenecks	SAN load balancing	SAN I/O Misalignment
Identifying cluster components	Analyzing performance statistics	OnCommand performance manager thresholds, events and alerts	Queue depth	
Identifying and resolving storage controller performance issues	WAFS 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				

Data	Lokalizacja	Strefa czasowa	Język	Typ szkolenia	Gwarancja	Cena netto
13 May 2024	Virtual Classroom	CEDT	English	Instructor Led Online		zł13,600.00
08 Jul 2024	Virtual Classroom	CEDT	English	Instructor Led Online		zł13,600.00
09 Dec 2024	Virtual Classroom	CET	English	Instructor Led Online		zł13,600.00

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