# ONTAP Performance Administration

**Category:** Infrastructure & IT Operations | **Vendor:** NetApp

**Duration:** 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

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.

## About This Course

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.

## Who Should Attend

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

## Prerequisites & Entry Requirements

**General Prerequisites:**

- ONTAP Cluster Fundamentals WBT
- ONTAP Cluster Administration and Data Protection Bundle (CDOTDP9)
- Hands-on experience with ONTAP software (6 to 12 months)

## Learning Outcomes

**Upon successful completion of this course, participants will be able to:**

- 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

## Detailed Course Outline

Module 1: Performance Analysis Fundamentals

- Basic Concepts of Performance
- Performance Monitoring Methodology

Module 2: Performance Analysis Tools

- Performance terminology
- Using Active IQ Unified Manager

Module 3: Storage System Architecture and Data Flow

- FAS and AFF Architecture
- Data Flow
- NVRAM Functionality

Module 4: WAFL

- WAFL Functions
- WAFL Readahead
- Resolving WAFL issues

Module 5: CPU and Memory

- Identifying CPU Performance Bottlenecks
- Resolving CPU Performance Bottlenecks
- Identifying Memory Performance Bottlenecks
- Resolving Memory Performance Bottlenecks

Module 6: Disk Subsystem

- Disk Subsystem Hardware
- Analyzing and Isolating Disk Subsystem Bottlenecks
- Analyzing Disk Subsystem Bottlenecks with Statit
- 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

- NAS functions
- Identifying NAS Bottlenecks
- Resolving NAS Bottlenecks

Module 10: SAN Subsystem

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

**Skills You Will Learn:**

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

# Frequently Asked Questions

### Q: What delivery options are available for ONTAP Performance Administration?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

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### Q: How many CPD hours does this course provide?

The 3-day ONTAP Performance Administration course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the ONTAP Performance Administration training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for ONTAP Performance Administration?

Yes, we provide corporate training, dedicated training, and closed classes for ONTAP Performance Administration. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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### Q: What related terms do people search for?

Popular related searches include: ONTAP Performance Administration, NetApp Platform OS, PERFCDOT

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### Q: Why choose Nexus Human for ONTAP Performance Administration?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

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### Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your ONTAP Performance Administration training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.


## Nexus Human

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