

ONTAP Troubleshooting - Partners

Duration: 4 Days Course Code: NEP_OT-TS-P

Overview:

English - Please note this course is only available in English.

Nederlands - Let op: deze training is alleen in het Engels beschikbaar.

Français - Veuillez noter que ce cours est uniquement disponible en anglais.

In this Partner-only course, you increase your proficiency as a NetApp® ONTAP® software engineer by learning how to troubleshoot ONTAP environments. Specifically, you learn how to troubleshoot the management component, scale-out networking, NAS protocols (NFS and SMB), and SAN protocols (iSCSI). From lectures, demonstrations, and active exercises, you learn how to isolate issues, verify configurations, view logs, view trace messages, and use event management system messages for troubleshooting.

Target Audience:

NetApp Technical Support Engineers NetApp Support Services Certified Partner Engineers NetApp Professional Services Engineers

Objectives:

- Describe the different software components in the ONTAP architecture
- Describe the methodologies for troubleshooting management component applications, networks, and protocols
- Use troubleshooting workflows to identify failure symptoms, determine potential causes, and resolve issues
- Use debugging commands, logs, and tools to identify, isolate, and fix complex technical issues that involve different core components
- Check the health of a cluster and summarize the results
- Identify issues with the management component
- Use administrative commands to verify the configuration of NFS, SMB, and iSCSI
- Use the troubleshooting methodology for NFS, SMB, and iSCSI to define and isolate issues
- Locate logs for the management component, network, NFS, SMB, and iSCSI protocols
- Collect data for support cases

Prerequisites:

A working knowledge of ONTAP software and NAS and SAN protocol in addition to the 3 day Cluster Administration course

Content:

Module 1: Troubleshooting the Management Component

- Management component
- RDB Concepts: Units, Quorum, Master, Epoch and Epsilon
- Configuration and replication databases
- Job manager
- RDB backup and recovery
- Non-RDB user-space applications

Event management system, logs, traces and user-space core files

Module 2: Troubleshooting Scale-out Networking

- ONTAP networking overview
- Networking-related management component application and databases
- Networking evolution
- Cluster session manager
- Tools to triage networking issues
- Troubleshooting scenarios

Module 3: Troubleshooting Network Component and Security Services

- Network component
- SecD
- SecD troubleshooting
- Network component troubleshooting

Module 4: Troubleshooting NFS

- NFS Overview
- How NFS works in ONTAP software
- ONTAP NFS authorization using export policies and UNIX permissions
- Export-related caches
- NFS troubleshooting

Module 5: Troubleshooting SMB

- SMB
- SMB services
- SMB troubleshooting

Module 6: Troubleshooting Scalable SAN

- SAN architecture
- Scalable SAN configuration
- Scalable SAN functional components
- CLAM quorum
- Scalable SAN troubleshooting

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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