

ONTAP SAN Advanced Troubleshooting (NA- SANADVTS)

Course Description

Learn how to troubleshoot NetApp® ONTAP® SAN issues at an advanced level. Analyze the key ONTAP components and processes that are responsible for SAN processing. Identify configuration issues on storage controllers, in the fabric, and on the host. Troubleshoot common issues and identify the root causes.

Course Duration:

2 days

Prerequisites:

- Learners should have experience troubleshooting ONTAP based storage systems.
- Learners should have experience with SAN environments

Objectives:

This course focuses on enabling you to do the following:

- Analyze ONTAP SAN components and Cluster Transaction Manager (CTRAN) groups
- Troubleshoot cluster interconnect issues
- Discover LUN and namespace mapping and pathing
- Investigate storage states and zoning issues
- Examine LIF “up/down” scenarios and LUN space errors
- Troubleshoot quorum issues
- Examine the SCSI unmap process
- Identify the SRAM dump process

Course Outline:

Module 1: ONTAP SAN core troubleshooting

- ONTAP SAN architecture
- BCOMKA
- Cluster network
- CTRAN groups
- SLUR

Module 2: LUN and namespace access

- LUN and namespace mapping
- Storage pathing
- Storage states
- Zoning

Module 3: SAN LIF and storage availability

- FCP LIF “up/down”
- LUN space issues

Module 4: Additional SAN troubleshooting

- SAN quorum
- SCSI unmap
- SRAM dump

Who Should Attend:

Support engineers, implementation engineers, and professional services.