

ONTAP SAN Troubleshooting Fundamentals



Delivery: Web-based training (WBT)

Duration: 90 minutes

Course Description

Explore block storage, NetApp® ONTAP® SAN concepts, iSCSI SAN, FC SAN, and NVMe-oF SAN elements and multipathing components. Discover the tools and techniques to effectively inspect and troubleshoot common ONTAP SAN issues.

Role

Technical support engineer

Prerequisites

- *ONTAP Cluster Fundamentals*
- *ONTAP SAN Fundamentals*
- *ONTAP SAN Implementation*
- *ONTAP SAN Administration*

Objectives

This course focuses on enabling you to do the following:

- Review block storage and SAN concepts
- Explore iSCSI SAN communications, I/O processes, and performance considerations
- Examine FC SAN error recovery and fabric services
- Determine host bus adapter (HBA) specifications and troubleshooting techniques
- Discover NVMe over Fabrics (NVMe-oF) SAN troubleshooting techniques
- Identify multipathing components, requirements, benefits, and troubleshooting methods
- Discover how to perform SAN inspection

Course Content

This course includes the following modules and lessons:

Modules	Lessons
Module 1: Block storage and SAN concepts	<ul style="list-style-type: none">• Block storage and SAN concepts
Module 2: iSCSI SAN	<ul style="list-style-type: none">• iSCSI definition and concepts• iSCSI building blocks• iSCSI best practices
Module 3: FC SAN	<ul style="list-style-type: none">• FC terminology and concepts• Error discovery• Fabric services• HBAs
Module 4: NVMe-oF SAN	<ul style="list-style-type: none">• NVMe architecture and terminology• Troubleshooting
Module 5: Multipathing	<ul style="list-style-type: none">• Introduction to multipathing• Multipathing path prioritization• Multipathing implementations• Troubleshooting multipathing issues
Module 6: SAN inspection	<ul style="list-style-type: none">• Check LUN mapping• Check storage paths• Check volume and LUN states

Course ID: STRSW-WBM-OSANTSF
26 March 2025