

ONTAP Advanced Networking



Delivery: Instructor-led training (ILT)

Duration: 2 days

Course Description

Learn how to configure and manage networking in NetApp® ONTAP® clusters. The ONTAP Advanced Networking course is a comprehensive, hands-on training program designed for technical professionals who need to understand, configure, and manage networking in ONTAP environments. Whether you are new to ONTAP or looking to deepen your expertise, this course provides a structured and layered approach to mastering ONTAP networking—from foundational concepts to advanced configuration and troubleshooting.

Roles

Administrator, architect, and operator

Prerequisites

- *ONTAP Cluster Administration* (ILT)

Objectives

This course focuses on enabling you to do the following:

- Describe the ONTAP networking architecture
- Identify and configure ONTAP network components
- Implement and manage ONTAP network services
- Secure ONTAP network traffic
- Optimize network performance and reliability

Course Content

This course includes the following modules, lessons, and exercises:

Module	Lessons	Exercises
Module 1: ONTAP Networking	<ul style="list-style-type: none"> • ONTAP networks • Networking hardware components • Networking software components • Network configuration workflow • Network protocol model layers 	Identifying ONTAP network components
Module 2: Physical Network Layer	ONTAP physical network components	Managing physical network ports
Module 3: Data Link Layer	<ul style="list-style-type: none"> • The Ethernet protocol • Troubleshooting the network access layer • Network packet trace and analysis • Neighbor discovery 	Managing local network traffic
Module 4: Network Layer	<ul style="list-style-type: none"> • Network layer • ONTAP logical network interfaces (LIF) • Hostname resolution • LIF traffic load balancing 	<ul style="list-style-type: none"> • Managing logical network interfaces • Balancing network resource use
Module 5: Transport and Session Layers	<ul style="list-style-type: none"> • Transport layer • Session layer • LIF failover 	Managing network connections
Module 6: ONTAP Routing	<ul style="list-style-type: none"> • Manage routing in an SVM • Virtual LIFs 	Directing network traffic
Module 7: Network Security	<ul style="list-style-type: none"> • Securing network connections • LIF firewall 	Securing data in flight
Module 8: ONTAP Network Management	<ul style="list-style-type: none"> • Network troubleshooting • Troubleshooting packet loss • Monitoring ONTAP systems with SNMP • Network performance 	Monitoring ONTAP using SNMP

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