

# ONTAP Cluster Administration (ONTAP9ADM)

ID ONTAP9ADM Price CHF 3,510.—(excl. VAT) Duration 3 days

## Who should attend

Systems administrator, cloud architect, operator, data protection specialist, enterprise architect, and integration engineer

- Supported ONTAP cluster configurations
- Setting up a Cluster
- Administration Interfaces
- ONTAP licensing
- Policies and Schedules

## This course is part of the following Certifications

NetApp Certified Data Administrator, ONTAP (NCDA)

## Prerequisites

- ONTAP Cluster Foundations [ONTAP Cluster Foundations \(ONTAPCF\)](#)
- ONTAP NAS Fundamentals (WBT)
- ONTAP SAN Fundamentals (WBT)

## Course Objectives

This course focuses on enabling you to do the following:

- Define NetApp ONTAP cluster components
- Describe the role of a storage VM (storage virtual machine, also known as SVM) in the NetApp storage architecture
- Configure an ONTAP cluster
- Configure and manage both networking and storage resources
- Create and configure a storage VM
- Create, manage, and protect NetApp FlexVol® volumes
- Implement storage efficiency features
- Manage ONTAP administrator access and user accounts
- Maintain NetApp storage systems

## Course Content

### Module 1: NetApp ONTAP 9 Clusters

- ONTAP deployment options
- The ONTAP cluster
- Storage VMs
- Software-defined storage

### Module 2: Cluster Setup

### Module 3: Physical storage management

- Drives, RAID, and aggregates
- Advanced Disk Partitioning
- Flash Cache and Flash Pool features
- FabricPool aggregates

### Module 4: Logical Storage Management

- Flexible Volumes
- FlexGroup volumes
- FlexCache volumes
- Moving Storage Resources

### Module 5: Storage Efficiency

- Thin provisioning
- Deduplication and compression
- Flash efficiency
- Volume and file clones

### Module 6: Network Management

- NetApp ONTAP Network Review
- Network Ports
- Network Traffic Segregation
- Logical network interfaces
- Nondisruptive LIF configuration
- Network security
- Routing Management

### Module 7: NAS Data Access

- Using NAS protocols to access data
- Use the NFS protocol to access data
- Use the SMB protocol to access data
- Use the S3 protocol to access data

### Module 8: SAN data access



- Use SAN protocols to access data
- Use the iSCSI protocol to access data
- Use the FC protocol to access data
- Use the NVMe protocol to access data

## **Module 9: Data Protection**

- Manage Snapshot Copies
- Restore data from a Snapshot copy
- Backup and replicate data
- Compliance

## **Module 10: ONTAP security**

- Access control
- Storage encryption
- Ransomware protection

## **Module 11: Cluster Maintenance**

- Data collection, monitoring and automation tools
- Upgrading your cluster
- Technical support

## Training Centres worldwide



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