



Arrow ECS Finland Oy - Education Services

## TRAINING OFFERING

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# ONTAP Cluster Administration

<b>CODE:</b>	<b>LENGTH:</b>	<b>PRICE:</b>
NEP_OT-CLU-A	24 Hours (3 days)	€3,060.00

## Description

In this course, you learn the basic administration tasks of a NetApp® ONTAP® 9.12 cluster. You use the clustershell and NetApp ONTAP System Manager to manage cluster storage and network resources. The course explains the configuration of basic data protection and data efficiency functions and common cluster maintenance tasks

## Objectives

- Define 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 storage resources
- Configure and manage networking 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

## Audience

- Administrator
- Architect
- Operator

## Prerequisites

ONTAP Cluster, NAS and SAN Fundamentals elearning is required.

This is available free of charge via the NetApp Learning Center. Please contact us via the link below if further support is required..

### [Contact Us](#)

## Programme

- ONTAP deployment options
- The ONTAP cluster
- Storage VMs

### Module 1: NetApp ONTAP 9 Clusters

- Supported ONTAP cluster configurations
- Setting up a cluster
- Administration interfaces

Managing ONTAP clusters  
Managing ONTAP administrators

### Exercises

Configuring multi-admin verification

### Module 2: Cluster Setup

#### Exercises

Exploring ONTAP management UIs

### Module 3: Cluster Management

- Access control
- ONTAP licensing
- Policies and schedules
- NetApp ONTAP network review
- Network ports
- Network traffic segregation
- LIFs
- Nondisruptive LIF configuration
- Network security

### Exercises

Routing management

### Exercises

Managing physical and logical network resources

Managing virtual network resources

- Drives, RAID, and aggregates
- Advanced Disk Partitioning
- Flash Cache and Flash Pool features
- FabricPool aggregates
- Managing physical storage
- Exploring RAID-TEC
- Creating a Flash Pool aggregate
- Creating a FabricPool aggregate

### **Module 5: Physical Storage Management**

- Managing physical storage
- Exploring RAID-TEC
- Creating a Flash Pool aggregate
- Exercises** Creating a FabricPool aggregate

### **Module 6: Logical Storage Management**

Managing data volumes

- Exercises** Creating a FlexGroup volume

### **Module 7: Data Access**

- Configuring the NFS protocol in a storage VM
- Configuring the SMB protocol in a storage VM
- Configuring iSCSI in a storage VM
- Configuring NVMe in a storage VM
- Configuring the S3 protocol in a storage VM

- Use NAS protocols to access data
- Use SAN protocols to access data
- Use object protocols to access data

**Exercises** Managing NAS storage VMs

### **Module 8: Data Protection**

- Manage Snapshot copies
- Restore data from a Snapshot copy
- Back up and replicate data
- Compliance

Managing Snapshot copies

- Storage encryption
- Ransomware protection

Encrypting a volume

**Exercises** Enabling anti-ransomware protection **Module 9: Storage Efficiency**

- Thin provisioning
- Deduplication and compression
- Flash efficiency

Managing storage efficiency

- Logical space reporting
- Volume and file clones

**Exercises** Managing FlexClone volumes **Module 10: Cluster Maintenance**

- Data collection, monitoring, and automation tools
- Backing up and restoring your cluster configuration
- Upgrading your cluster
- Recommended practices for performance
- Technical support

**Exercises** Installing and configuring Active IQ Config Advisor

## **Follow on courses**

The following are suggested follow on courses..

- [OT-DPA - ONTAP Data Protection Administration](#)
- [OT-SANI - ONTAP SAN Implementation](#)
- [OT-SMB - ONTAP SMB Administration](#)

## **Test and Certification**

## **Session Dates**

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
10 Jul 2023	Virtual Classroom (CET / UTC +1)	CEDT	English	Instructor Led Online		€3,060.00
31 Jul 2023	Virtual Classroom (CET / UTC +1)	CEDT	English	Instructor Led Online		€3,060.00
25 Sep 2023	Virtual Classroom (CET / UTC +1)	CEDT	English	Instructor Led Online		€3,060.00
23 Oct 2023	Virtual Classroom (CET / UTC +1)	CEDT	English	Instructor Led Online		€3,060.00
20 Nov 2023	Virtual Classroom (CET / UTC +1)	CET	English	Instructor Led Online		€3,060.00
04 Dec 2023	Virtual Classroom (CET / UTC +1)	CET	English	Instructor Led Online		€3,060.00

## Additional Information

This training is also available as onsite training. [Please contact us to find out more.](#)