



Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

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CODE:	LENGTH:	PRICE:
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

	<ul style="list-style-type: none"> • ONTAP deployment options • The ONTAP cluster • Storage VMs 	
Module 1: NetApp ONTAP 9 Clusters <ul style="list-style-type: none"> • Supported ONTAP cluster configurations • Setting up a cluster • Administration interfaces 	<ul style="list-style-type: none"> • Software-defined storage 	Module 2: Cluster Setup
		Module 3: Cluster Management <ul style="list-style-type: none"> • Access control • ONTAP licensing • Policies and schedules • NetApp ONTAP network review • Network ports • Network traffic segregation • LIFs • Nondisruptive LIF configuration • Network security
Managing ONTAP clusters Managing ONTAP administrators Exercises Configuring multi-admin verification	Exercises Exploring ONTAP management UIs	Module 4:Network management <ul style="list-style-type: none"> • 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

Exercises

Module 5: Physical Storage Management

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

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
- Storage encryption
- Ransomware protection
- Thin provisioning
- Deduplication and compression
- Flash efficiency

Managing Snapshot copies
Encrypting a volume

Exercises

Enabling anti-ransomware protection

Module 9: Storage Efficiency

- Logical space reporting
- Volume and file clones
- Data collection, monitoring, and automation tools
- Backing up and restoring your cluster configuration
- Upgrading your cluster
- Recommended practices for performance
- Technical support

Managing storage efficiency

Exercises

Managing FlexClone volumes

Module 10: Cluster Maintenance

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
19 Aug 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€3,060.00
23 Sep 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€3,060.00
07 Oct 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€3,060.00
11 Nov 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€3,060.00
16 Dec 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€3,060.00

Additional Information

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