



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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# ONTAP 9.9.1 Cluster Administration

<b>CODE:</b>	<b>LENGTH:</b>	<b>PRICE:</b>
NEP_OT-CLU-A 9.9.1	3 days	€2,850.00

## Description

In this course, you learn the basic administration tasks of a NetApp® ONTAP® 9.9 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

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 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

- Network Engineers
- Channel Partners
- System Engineers
- NetApp Customers

## Prerequisites

- ONTAP Cluster Fundamentals (Web-based training [WBT])

- Introduction to Networking in Clustered Data ONTAP (WBT)
- ONTAP NAS Fundamentals (WBT)
- ONTAP SAN Fundamentals (WBT)

Please note that these free of charge courses are accessed via the NetApp Learning Centre. A NetApp id will be required to access this site. See link below..

[NetApp Learning Centre](#)

## **Programme**

### Module 1: NetApp ONTAP 9 Clusters

- ONTAP deployment option
- The Cluster
- Storage Virtual Machine's (SVMs)

### Module 2: Cluster Setup

- Supported All Flash FAS and FAS configurations
- Setting up a Cluster
- Administration Interfaces

### Module 3: Cluster Management

- Access control
- Date and Time
- Licenses
- Policies, Jobs and Schedules

### Module 4: Network Management

- NetApp ONTAP Network Review
- Network Ports
- Network Traffic Segregation
- IFs
- Nondisruptive LIF configuration
- Routing Management

### Module 5: Physical Storage Management

- Drives, RAID and Aggregates
- Advanced Drive Partitioning
- Flash Cache and Flash Pool

- FabricPool Aggregates

#### Module 6: Logical Storage Management

- Flexible Volumes
- Provisioning Storage Resources
- Moving Storage Resources

#### Module 7: Data Access

- Using NAS Protocols to Access Data
- Use SAN Protocols to Access Data

#### Module 8: Data Protection

- Manage Snapshot Copies
- Restore Data from a Snapshot Copy
- Backup and Replicate Data
- Compliance
- Storage Encryption

#### Module 9: Storage Efficiency

- Thin Provisioning
- Deduplication and Compression
- Flash Efficiency
- FlexClone Volumes

#### Module 10: Cluster Maintenance

- Data collection, Monitoring and Automation Tools
- Backing up and Restore Cluster Configuration
- Upgrading your Cluster
- Performance Recommended Practices
- Technical Support
- Documentation

#### Module 11: Course Review ONTAP9ADM Labs:

- Exploring ONTAP Management UIs
- Managing ONTAP clusters and administrators

- Managing physical and logical network resources
- Managing virtual network resources
- Managing physical storage
- Exploring RAID-TEC and creating a flash pool
- Managing data volumes
- Configuring NAS protocols in an SVM
- Configuring iSCSI in an SVM
- Managing Snapshot copies
- Encrypting a volume
- Managing storage efficiency
- Managing FlexClone volumes
- Bonus Exercise: creating a FlexGroup volume
- Installing and configuring Config Advisor

### **Follow on courses**

The following 2 day course below is recommended.. [OT-DPA 9.9.1 Data Protection Administration](#)

### **Session Dates**

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
13 Jun 2022	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online	Yes	€2,850.00
18 Jul 2022	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
25 Jul 2022	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online	Yes	€2,850.00
08 Aug 2022	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
22 Aug 2022	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
12 Sep 2022	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
19 Sep 2022	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
10 Oct 2022	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
07 Nov 2022	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€2,850.00
14 Nov 2022	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€2,850.00
05 Dec 2022	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€2,850.00
12 Dec 2022	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€2,850.00
21 Nov 2022	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online	Yes	€2,850.00

## Additional Information

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