



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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**You can reach us at:**

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CODE:	LENGTH:	PRICE:
NEP_OT-CLU-A	24 Hours (3 days)	€2,850.00

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

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

## **Exercises Managing NAS storage VMs**

## **Module 8: Data Protection**

- 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
13 May 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
10 Jun 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
08 Jul 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
19 Aug 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
23 Sep 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
07 Oct 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
11 Nov 2024	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€2,850.00
16 Dec 2024	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€2,850.00

**Additional Information**

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