



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

Arrow ECS B.V., Kromme Schaft 5, 3991 AR Houten, The Netherlands

Email: education.ecs.nl@arrow.com

Phone: +31 20 582 6109

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

Description

Learn the basic administration tasks of a NetApp® ONTAP® 9.14 cluster. Use the clustershell and NetApp ONTAP System Manager to manage cluster storage and network resources. Discover how to configure 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 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
- Manage NetApp storage systems

Audience

- Administrator
- Architect
- Operator

Prerequisites

ONTAP Cluster Fundamentals, 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 • Software-defined storage **Module 2: Cluster Setup**

- Supported ONTAP cluster configurations
- Setting up a cluster
- Administration interfaces
- ONTAP licences
- Policies and Schedules

Module 3: Physical Storage Management

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

Deploying an ONTAP cluster
Exploring ONTAP management UIs
Exercises Configuring ONTAP Clusters

Managing physical storage
Exercises Exploring RAID-TEC

	<ul style="list-style-type: none"> • Flexible volumes • Moving storage resources • FlexGroup volumes 	Managing data volumes
Module 4: Logical Storage Management	<ul style="list-style-type: none"> • FlexCache volumes • Thin provisioning • Deduplication and compression • Flash efficiency 	Exercises Creating a FlexGroup volume
		Managing storage efficiency
Module 5: Storage Efficiency	<ul style="list-style-type: none"> • Volume and file clones • ONTAP network review • Network ports • Network traffic segregation • Logical network interfaces • Nondisruptive LIF configuration • Network security 	Exercises Managing FlexClone volumes
		Managing physical and logical network resources
Module 6: Network Management	<ul style="list-style-type: none"> • Routing management • Use NAS protocols to access data • Use the NFS protocol to access data • Use the SMB protocol to access data 	Exercises Managing virtual network resources
		Monitoring with ONTAP File System Analytics
		Configuring the NFS protocol in a storage VM
		Configuring the SMB protocol in a storage VM
Module 7: NAS Data Access	<ul style="list-style-type: none"> • Use the S3 protocol to access data • Use SAN protocols to access data • Use the iSCSI protocol to access data • Use the FC protocol to access data 	Exercises Configuring the S3 protocol in a storage VM
		Configuring iSCSI in a storage VM
Module 8: SAN Data Access	<ul style="list-style-type: none"> • Use the NVMe protocol to access data • Manage Snapshot copies • Restore data from a Snapshot copy • Back up and replicate data 	Exercises Configuring NVMe in a storage VM
Module 9: Data Protection	<ul style="list-style-type: none"> • Compliance • Access control • Storage encryption 	Exercises Managing Snapshot copies
Module 10: ONTAP Security	<ul style="list-style-type: none"> • Ransomware protection • Data collection, monitoring, and automation tools • Upgrading your cluster 	Exercises Managing ONTAP Administrators
Module 11: Cluster maintenance	<ul style="list-style-type: none"> • Technical support 	Exercises
	Installing and configuring Active IQ Config Advisor	

Test and Certification

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
19 May 2025	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
16 Jun 2025	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
14 Jul 2025	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
18 Aug 2025	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
15 Sep 2025	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
13 Oct 2025	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,850.00
10 Nov 2025	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€2,850.00
15 Dec 2025	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.