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

Cluster Administration

CODE:	LENGTH:	PRICE:
NEP_OT-CLU-A	24 Hours (3 days)	€3,000.00

Description

Learn how to perform the basic administration tasks of a NetApp® ONTAP® 9.18 cluster. Use 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

This course focuses on enabling you to do the following:

• 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
• Manage NetApp storage systems

Audience

Role

Administrator, architect, and operator

Prerequisites

• ONTAP Cluster Fundamentals (web-based training [WBT]) or ONTAP Cluster Foundation (ILT)
• ONTAP NAS Fundamentals (WBT)
• ONTAP SAN Fundamentals (WBT)

Programme

This course includes the following modules, lessons, and exercises:

Module 1: ONTAP 9 clusters

Lessons
• ONTAP deployment options
• ONTAP cluster
• Storage VMs
• Software-defined storage

Module 2: Cluster setup

Lessons
• Supported ONTAP cluster configurations

• Setting up a cluster
• Administration interfaces
• ONTAP licenses
• Policies and schedules
Exercises
• Deploying an ONTAP cluster
• Exploring ONTAP management UIs

Module 3: Physical storage management

Lessons
• Drives, RAID, and aggregates
• Advanced Disk Partitioning
• Flash Cache and Flash Pool features
• FabricPool aggregates
Exercises
• Managing physical storage
• Exploring RAID-TEC
• Testing high availability

Module 4: Logical storage management

Lessons
• Flexible volumes
• Moving storage resources
• FlexGroup volumes
• FlexCache volumes
Exercises
• Managing FlexVol volumes
• Creating a FlexGroup volume

Module 5: Storage efficiency

Lessons
• Thin provisioning
• Deduplication and compression
• Flash efficiency
• Volume and file clones
Exercises
• Managing storage efficiency
• Managing FlexClone volumes

Module 6: Network management

Lessons
• ONTAP network review
• Network ports
• Network traffic segregation
• Logical network interfaces
• Nondisruptive LIF configuration
Exercises
• Managing physical and logical network resources
• Managing virtual network resources

Module 7: Client access

Lessons
• Use NAS protocols to access data
• Use the NFS protocol to access data
• Use the SMB protocol to access data
• Use the S3 protocol to access data
• SAN protocol access
• Use SAN protocols to access data
Exercises
• Monitoring with ONTAP File System Analytics
• Configuring the NFS protocol in a storage VM

• Configuring the SMB protocol in a storage VM
• Configuring the S3 protocol in a storage VM
• Configuring iSCSI in a storage VM
• Configuring NVMe in a storage VM

Module 8: Data protection

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

Exercises
Managing Snapshot copies

Module 9: ONTAP security

• Administrator access control
• Storage encryption
• Ransomware protection
Exercises
• Managing ONTAP administrators
• Messaging administrative users

Module 10: Cluster maintenance

• Data collection, monitoring, and automation tools
• Upgrading your cluster
• Technical support
Exercises
• Installing and configuring Active IQ Config Advisor
• Examining ONTAP logs

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
14 Dec 2026	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€3,000.00
25 Jan 2027	Virtual Classroom (CET / UTC+1)	CET	English	Instructor Led Online		€3,000.00
22 Feb 2027	Virtual Classroom (CET / UTC+1)	CET	English	Instructor Led Online		€3,000.00
15 Mar 2027	Virtual Classroom (CET / UTC+1)	CET	English	Instructor Led Online		€3,000.00
19 Apr 2027	Virtual Classroom (CET / UTC+1)	CEDT	English	Instructor Led Online		€3,000.00
17 May 2027	Virtual Classroom (CET / UTC+1)	CEDT	English	Instructor Led Online		€3,000.00
21 Jun 2027	Virtual Classroom (CET / UTC+1)	CEDT	English	Instructor Led Online		€3,000.00
05 Jul 2027	Virtual Classroom (CET / UTC+1)	CEDT	English	Instructor Led Online		€3,000.00
02 Aug 2027	Virtual Classroom (CET / UTC+1)	CEDT	English	Instructor Led Online		€3,000.00
20 Sep 2027	Virtual Classroom (CET / UTC+1)	CEDT	English	Instructor Led Online		€3,000.00
25 Oct 2027	Virtual Classroom (CET / UTC+1)	CEDT	English	Instructor Led Online		€3,000.00
22 Nov 2027	Virtual Classroom (CET / UTC+1)	CET	English	Instructor Led Online		€3,000.00
06 Dec 2027	Virtual Classroom (CET / UTC+1)	CET	English	Instructor Led Online		€3,000.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.