

## **Enterprise Computing Solutions - Education Services**

# NABÍDKA ŠKOLENÍ

Prosím kontaktujte nás zde

Arrow ECS, a.s., 28. října 3390/111a, 702 00 Ostrava

Email: training.ecs.cz@arrow.com Phone: +420 597 488 811

### WDJJ

#### **ONTAP Cluster and Data Protection Administration**

Kód: DÉLKA: CENA:

NEP OT-CLU-DPA 40 Hours (5 DENNÍ) Kč bez DPH 122,000.00

#### **Description**

Cena kurzu je 4330 GBP bez DPH a bude přepočtena aktuálním kurzem v poslední den konání školení.

This 5 day course comprises the ONTAP Cluster Administration followed by the 2 day ONTAP Data Protection Administration courses.

The first 3 days uses lecture and hands-on exercises to teach the basic administration tasks of an ONTAP 9.11 cluster. You use the cluster shell and OnCommand System Manager to manage storage and network resources. ONTAP Cluster Administration is an intermediate course in a comprehensive learning path for NetApp customers, partners and employees.

Students spend the final 2 days learning about the different data protection solutions that are integrated into ONTAP software, including the SyncMirror, SnapMirror, storage virtual machine (SVM) disaster recovery, and SnapVault solutions. The course also provides an overview of ONTAP MetroCluster configuration, NDMP, and cloud-based data protection with NetApp Cloud Volumes ONTAP and NetApp Data Availability Services. You also learn about the tools for managing ONTAP data protection features. In the hands-on exercises, you use NetApp OnCommand System Manager and the CLI to complete key data protection tasks.

The course also provides an overview of the ONTAP MetroCluster high-availability and disaster recovery software solution.

#### Cíle

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

Describe and distinguish the data protection features in ONTAP software

Administer the appropriate ONTAP data protection feature to address your data protection concern

Configure NetApp SnapMirror® relationships for disaster recovery and data backup

Demonstrate SVM DR

Illustrate NDMP-enabled operations to back up NAS data to tape

Integrate the cloud-based data protection solutions that complement your ONTAP based storage systems

Structure NetApp MetroCluster components and functionality

Illustrate NetApp SnapMirror Business Continuity components and functionality

#### Určeno pro

Network Engineers Channel Partners System Engineers NetApp Customers

#### Vstupní znalosti

Completion of the following web based training modules accessed free of charge via the NetApp Learning Centre

ONTAP Cluster Fundamentals ONTAP NAS Fundamentals ONTAP SAN Fundamentals

Please contact us for further support as required..

#### **Program**

ONTAP deployment options

The ONTAP cluster

Storage VMs

3 day Cluster Administration Module 1:NetApp ONTAP 9 clusters • Software-defined storage Module 2: Cluster setup

Module 3: Cluster management

Supported ONTAP cluster configurations
 Access control

• Setting up a cluster • ONTAP licensing

Administration interfaces
 Policies and schedules
 Module 4:Network management

NetApp ONTAP network review

Network ports

Network traffic segregation

LIFsNondisruptive LIF configuration

Network security
 Flash Cache and Flash Pool features

• Routing management Module 5:Physical storage management • FabricPool aggregates

Flexible volumesFlexGroup volumes

FlexGroup volumes
 FlexCache volumes
 Use NAS protocols to access data
 Use SAN protocols to access data

Module 6: Logical storage management • Moving storage resources Module 7: Data access • Use object protocols to access data

Manage Snapshot copies

Restore data from a Snapshot copy

· Back up and replicate data

Compliance

Storage encryption

• Flash efficiency

Module 9: Storage efficiency Module 10: Cluster maintenance

Logical space reporting

· Deduplication and compression

Thin provisioning

Volume and file clones

· Drives, RAID, and aggregates

· Advanced Disk Partitioning

Module 8: Data protection • Ransomware protection • Data collection, monitoring, and automation tools

• Backing up and restoring your cluster configuration

· Upgrading your cluster

• Recommended practices for performance

· Technical support

• Documentation Module 11:Course review and postclass assessment 2 day Data Protection

Data protection introduction ONTAP data protection solutions ONTAP management solutions

Module 1: Overview of ONTAP data protection Module 2: SnapMirror Fundamentals

SnapMirror for FlexVol volumes

SnapMirror configuration considerations

Using SnapMirror for volumes

Interaction between SnapMirror and other ONTAP features

SnapMirror overview S3 SnapMirror Configuring SnapMirror relationships FabricPool

Guidelines for Intercluster networking Load-sharing mirrors

Cluster and storage VM peering Addendum: SnapMirror and other data protection feature interaction

Module 3: SnapMirror for disaster recovery and backup Module 4: SnapMirror Synchronous for disaster recovery

SnapMirror Synchronous SVM DR introduction

Configuring SnapMirror Synchronous SVM DR requirements and configuration

Additional SnapMirror Synchronous configuration SVM data mobility

Module 5: Storage VM Disaster Recovery (SVM DR) Module 6: ONTAP backup and archive solutions

NDMP fundamentals

NDMP topologies

NDMP management

Cloud Volumes ONTAP

SnapMirror Cloud

Cloud Backup Service

Addendum: NetApp SnapCenter ONTAP data protection with cloud volumes Module 7: Cloud-based data protection Module 8: ONTAP business continuity solutions

MetroCluster fundamentals
MetroCluster operations
Consistency group management
SnapMirror Business Continuity introduction
SnapMirror Business Continuity configuration
Failover operations and failure scenarios
Addendum: SyncMirror feature
Configuring cluster peering and Storage VM peering
Using SnapMirror software to mirror FlexVol volumes
Performing SnapMirror disaster recovery
Configuring SnapMirror for unified replication
Restoring data from a Snapshot copy
Configuring a load-sharing mirror relationship
Configuring cluster and storage VM peering for a cascade relationship

#### Zkoušky a certifikace

Configuring SVM DR

Configuring a cascade relationship

Configuring a SnapMirror synchronous relationship

NetApp Certified Storage Installation Engineer (NCSIE)

This course supports part of the following NetApp certifications: NetApp Certified Data Administrator (NCDA)

#### Termíny školení

Datum	Místo konání	Časové pásmo	Jazyk	Тур	Garance termínu	CENA
18 Aug 2025	Virtual Classroom	CEDT	English	Instructor Led Online		Kč bez DPH 122,000.00
14 Sep 2025	Virtual Classroom	CEDT	English	Instructor Led Online		Kč bez DPH 122,000.00
13 Oct 2025	Virtual Classroom	CEDT	English	Instructor Led Online		Kč bez DPH 122,000.00
10 Nov 2025	Virtual Classroom	CET	English	Instructor Led Online		Kč bez DPH 126,400.00
15 Dec 2025	Virtual Classroom	CET	English	Instructor Led Online		Kč bez DPH 126,400.00

#### Dodatečné informace

Školení je možné zajistit na míru. Kontaktujte nás pro bližší informace.