ЛRROW

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

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

3 day Cluster Administration
Module 1:NetApp ONTAP 9 clusters
• ONTAP deployment options
• The ONTAP cluster
• Storage VMs
• Software-defined storage
Module 2: Cluster setup
• Supported ONTAP cluster configurations
• Setting up a cluster
• Administration interfaces
Module 3: Cluster management
• Access control
• ONTAP licensing
• Policies and schedules
Module 4:Network management
• NetApp ONTAP network review
• Network ports
• Network traffic segregation
• LIFs
• Nondisruptive LIF configuration
• Network security
• Routing management
Module 5:Physical storage management
• Drives, RAID, and aggregates
• Advanced Disk Partitioning
• Flash Cache and Flash Pool features
• FabricPool aggregates
Module 6: Logical storage management
• Flexible volumes
• FlexGroup volumes
• FlexCache volumes
• Moving storage resources
Module 7: Data access
• Use NAS protocols to access data
• Use SAN protocols to access data
• Use object protocols to access data
Module 8: Data protection
• Manage Snapshot copies
• Restore data from a Snapshot copy
• Back up and replicate data
• Compliance
• Storage encryption
• Ransomware protection
Module 9: Storage efficiency
• Thin provisioning
• Deduplication and compression
• Flash efficiency
• Logical space reporting
• Volume and file clones
Module 10: Cluster maintenance
• 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
Module 1: Overview of ONTAP data protection
Data protection introduction
ONTAP data protection solutions

ONTAP management solutions
Module 2: SnapMirror Fundamentals
SnapMirror overview
Configuring SnapMirror relationships
Guidelines for Intercluster networking
Cluster and storage VM peering
Module 3: SnapMirror for disaster recovery and backup
SnapMirror for FlexVol volumes
SnapMirror configuration considerations
Using SnapMirror for volumes
Interaction between SnapMirror and other ONTAP features
S3 SnapMirror
FabricPool
Load-sharing mirrors
Addendum: SnapMirror and other data protection feature interaction
Module 4: SnapMirror Synchronous for disaster recovery
SnapMirror Synchronous
Configuring SnapMirror Synchronous
Additional SnapMirror Synchronous configuration
Module 5: Storage VM Disaster Recovery (SVM DR)
SVM DR introduction
SVM DR requirements and configuration
SVM data mobility
Module 6: ONTAP backup and archive solutions
NDMP fundamentals
NDMP topologies
NDMP management
Addendum: NetApp SnapCenter
Module 7: Cloud-based data protection
Cloud Volumes ONTAP
SnapMirror Cloud
Cloud Backup Service
ONTAP data protection with cloud volumes
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
Configuring a cascade relationship
Configuring a SnapMirror synchronous relationship
Configuring SVM DR

Zkoušky a certifikace

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

Termíny školení

Termíny školení na vyžádání, kontaktujte nás prosím

Dodatečné informace

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