

Integrating Hybrid Clouds with Microsoft Azure

Duration: 2 Days Course Code: NEP_UNCMMAZ

Overview:

Learn to implement a hybrid cloud solution with Microsoft Azure by using NetApp® Cloud Volumes ONTAP®. Connect an Azure Virtual Network (VNet) and an on-premises data center to unify your infrastructure. Use NetApp Cloud Manager to move data and manage storage in the hybrid cloud. Learn about how NetApp cloud services are integrated into Cloud Manager to provide persistent storage for Kubernetes containers and enhance data protection, security, and compliance. Learn to optimize capacity and performance of Cloud Volumes ONTAP

Target Audience:

- Administrators
- Operators
- Architects
- Implementation Engineers

Objectives:

- Describe how NetApp technologies can be used to build your data fabric
- Configure a VNet and connect it to an on-premises data center with VPN Internet Protocol security (IPsec)
- Describe Cloud Volumes ONTAP architecture
- Install a Connector and deploy Cloud Volumes ONTAP
- Explain basic system administration tasks with Cloud Manager
- Copy data between an ONTAP based system and Cloud Volumes ONTAP for Azure for disaster recovery
- Use data tiering to Azure Blob storage for Cloud Volumes ONTAP
- Use Cloud Volumes ONTAP as persistent storage for Kubernetes containers
- Identify performance and sizing options for Cloud Volumes ONTAP

Prerequisites:

For a successful learning experience, NetApp recommends that you know the following concepts before you attend the course.

- Cloud computing concepts - Cloud characteristics, service delivery methods & cloud deployment models
- Networking concepts and definitions - Classless Inter-Domain Routing (CIDR) and network address translation (NAT)
- Azure concepts - Subscriptions, VNet, virtual machines (VMs), Azure storage accounts, and Azure Blob storage

Testing and Certification

This course is part of the following certifications:

- NetApp Certified Hybrid Cloud Architect
- NetApp Certified Hybrid Cloud Implementation Engineer
- NetApp Certified Hybrid Cloud Administrator

Content:

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| Module 1: Data Fabric Overview | Lesson 1: Cloud Volumes ONTAP | Lesson 1: Using Cloud Manager to Provision Persistent Storage for Kubernetes Cluster Overview |
| Lesson 1: Data Fabric | Lesson 2: Cloud Volumes ONTAP: Use Cases | |
| Lesson 2: Solutions for the Hybrid Cloud | Lesson 3: Cloud Volumes ONTAP Architecture | Module 11: Using Integrated Services from NetApp Cloud Manager |
| Lesson 3: NetApp Public Cloud Products | Lesson 4: Deploying Cloud Volumes ONTAP | Lesson 1: Using Cloud Backup Service from Cloud Manager |
| Lesson 4: Cloud Storage | Lesson 5: Cloud Volumes ONTAP Supported Features | Lesson 2: Using Cloud Sync from Cloud Manager |
| Lesson 5: Cloud Services and Analytics | Module 6: NetApp Cloud Volumes ONTAP: High-Availability Architecture | Lesson 3: Using Cloud Compliance from Cloud Manager |
| Lesson 6: Cloud Controls | Lesson 1: Highly Available Cloud Volumes ONTAP in Azure | Lesson 4: Using Cloud Tiering Service from Cloud Manager |
| Module 2: Public Cloud Essential Concepts | Module 7: Administration of NetApp Cloud Volumes ONTAP and NetApp Cloud Manager | Module 12: Sizing NetApp Cloud Volumes ONTAP |
| Lesson 1: Azure Networking and Other Concepts | Lesson 1: Administering Cloud Volumes ONTAP | Lesson 1: An Introduction to Sizing |
| Lesson 2: Terraform Introduction | Lesson 2: Administering Cloud Manager | Lesson 2: Capacity Sizing |
| Module 3: Connectivity from the Public Cloud to Other Networks | Module 8: Implementing Disaster Recovery with NetApp Cloud Volumes ONTAP | Lesson 3: Performance Sizing |
| Lesson 1: Microsoft Azure VNET Connectivity to an On-Premises Network | Lesson 1: Disaster Recovery with Cloud Volumes ONTAP Overview | Lesson 4: Single Node versus High Availability |
| Module 4: NetApp Cloud Manager | Module 9: Data Tiering for NetApp Cloud Volumes ONTAP | Lesson 5: Key Differences between Cloud Volumes ONTAP and On-Premises ONTAP software |
| Lesson 1: NetApp Cloud Manager Overview | Lesson 1: Data Tiering for Cloud Volumes ONTAP Overview | Lesson 6: Performance Tuning |
| Module 5: NetApp Cloud Volumes ONTAP: Single-Node Architecture | Module 10: Using NetApp Cloud Manager to Provision Persistent Storage for Kubernetes Clusters | Lesson 7: Frequently Seen Sizing Mistakes |

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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