Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Integrating Hybrid Clouds with Microsoft Azure

CODE:	LENGTH:	PRICE:
NEP_UNCMMAZ	16 Hours (2 days)	£1,795.00

Description

In this course, you learn to implement a hybrid cloud solution with Microsoft Azure by using the NetApp Cloud Volumes ONTAP® solution. You connect an Azure Virtual Network (VNet) and an on-premises data center to unify your infrastructure. You use the NetApp Console™ to move data and manage storage in the hybrid cloud. You learn how NetApp® cloud services are integrated into The NetApp Console to provide persistent storage for Kubernetes containers and enhance data protection, security, and compliance. You also learn to optimize the capacity and performance of Cloud Volumes ONTAP.

Objectives

This course focuses on enabling you to do the following:

• Configure a VNet and connect it to an on-premises data center with VPN Internet Protocol security (IPsec)
• Describe Cloud Volumes ONTAP architecture
• Install an agent and deploy Cloud Volumes ONTAP
• Explain basic system administration tasks with the NetApp Console
• 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

Audience

Role
Systems administrator, operator, cloud architect, enterprise architect, and integration developer

Prerequisites

• Integrating Hybrid Clouds Foundation
• Cloud computing concepts: Cloud characteristics, service delivery methods, and 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

Programme

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

Module 1: Public cloud essential concepts

Lessons
• Azure networking and other concepts
• Terraform introduction
Exercises
• Controlling cloud resources with CLI
• Configuring cloud resources with PowerShell
• Controlling NetApp ONTAP (on-premises) resources with NetApp PowerShell Toolkit
• Configuring resources in Azure by using Terraform
• Reviewing resources by using Azure Portal
• Verifying connectivity to the virtual machines (VM) in front-end and back-end subnets

Module 2: Connectivity from the public cloud to other networks

Lessons
Microsoft Azure VNet connectivity to an on-premises network
Exercises
• Connecting Azure VNet to an on-premises network
• Configuring on-premises DNS for Azure VMs
• Joining an Azure VM to Active Directory in the on-premises environment

Module 3: Deploying an agent

Lessons
Reviewing an agent

Exercises
Deploying an agent

Module 4: NetApp Cloud Volumes ONTAP

Lessons
• NetApp Cloud Volumes ONTAP architecture review
• Deploying the Cloud Volumes ONTAP solution
• Highly available NetApp Cloud Volumes ONTAP in Azure
Exercises
• Deploying a single-node Cloud Volumes ONTAP instance
• Creating an NFS volume and accessing it from an NFS client
• Creating an SMB volume and accessing it from an SMB client
• Deploying a Cloud Volumes ONTAP high-availability pair

Module 5: Administration of NetApp Cloud Volumes

Lessons
ONTAP Administering the Cloud Volumes ONTAP solution
Exercises
• Using The NetApp Console for basic administration of Cloud Volumes ONTAP
• Performing basic administration of The NetApp Console

Module 6: Data protection

Lessons
• Administering Cloud Volumes ONTAP
• Data protection
Exercises
• Configuring and managing ransomware protection
• Configuring and managing Disaster Recovery in the data fabric

Module 7: Tiering

Lessons
Tiering

Exercises
Backup data to Azure Blob storage

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
23 Feb 2027	Virtual Classroom	GMT	English	Instructor Led Online		£1,795.00
18 May 2027	Virtual Classroom	BST	English	Instructor Led Online		£1,795.00
03 Aug 2027	Virtual Classroom	BST	English	Instructor Led Online		£1,795.00
23 Nov 2027	Virtual Classroom	GMT	English	Instructor Led Online		£1,795.00

Additional Information

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