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

# WUVN

## **TRAINING OFFERING**

You can reach us at:

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#### Integrating Hybrid Clouds with Google Cloud NetApp

CODE:	LENGTH:	PRICE:

NEP IHCGC 16 Hours (2 days) €1,900.00

#### Description

Learn to implement a hybrid cloud solution with Google Cloud by using NetApp® Cloud Volumes ONTAP® and how to connect a Virtual Private Cloud (VPC) and an on-premises data center to unify your infrastructure

Use NetApp Blue XP to move data and manage storage in the hybrid cloud and lean how NetApp cloud services integrate into Blue XP to provide enhanced data protection, security and compliance.

Learn to optimize capacity and performance of Cloud Volumes ONTAP.

#### Objectives

- · Create a VPN connection between a public cloud network VPC and the on-premises data center
- Deploy a connector in the public cloud
- Deploy Cloud Volumes ONTAP in both a single-node and high-availability (HA) configuration
- Use NetApp BlueXP to administer NetApp Cloud Volumes ONTAP
- · Review data protection options of NetApp Cloud Volumes ONTAP
- · Analyze data tiering option from on-premises to cloud

#### Audience

NetApp Customers, Partners & Employees in the following roles..

- Systems Administrator
- Systems Operator
- Cloud Architect
- Enterprise Architect
- Integration Developer

#### Prerequisites

Previous knowledge of Google Cloud and cloud computing concepts including: subscriptions, VPC, virtual machines (VMs), Google Cloud buckets, Classless Inter-Domain Routing (CIDR), and Network address translation (NAT), Additionally, attendance on the following 1 day course.. IHCF - Integrating Hybrid Clouds Foundation

#### Programme

#### Module 1: Google Cloud Essential Concepts • Terraform introduction

· Google Cloud networking and other concepts Exercises

- · Controlling Cloud Resources with CLI
- Controlling NetApp ONTAP (On-Premises) Resources with NetApp PowerShell Toolkit
- Configuring Resources in Google Cloud Using Terraform
- Reviewing Resources Using Google Cloud Console
- Verifying Connectivity to the VMs

#### Module 2: Network Connectivity Options in Google Cloud

- · Google Cloud virtual public cloud connectivity to an on-premises network Exercises
- · Connecting Google Cloud VPC to an On-Premises Network
- Configuring On-Premises DNS for Google Cloud (Optional)
- Joining a Google Cloud VM to Active Directory in On-Premises Environment (Optional) Module 3: Deploying a Connector
- Connector review Exercises Deploying a Connector Module 4: NetApp Cloud Volumes ONTAP

- Cloud Volumes ONTAP use cases
- Cloud Volumes ONTAP architecture
- Deploying Cloud Volumes ONTAP
- Deploying a Single-Node Cloud Volumes ONTAP Instance with NFS
- · Creating an SMB volume and accessing it from an SMB Client
- Deploying a Cloud Volumes ONTAP HA Pair
- Cloud Volumes ONTAP supported features Exercises Performing Failover and Failback of the HA Pair of Nodes
- Module 5: Administration Provisioning storage review Exercises
- Using BlueXP for Basic Administration of Cloud Volumes ONTAP
- Administering BlueXP with RBAC
- Backup, Archive and Disaster Recovery
- Module 6: Protection
  Using Snapshot Protection

• Ransomware Protection **Exercises** • Configuring and Managing Disaster Recovery in the Data Fabric

Module 7: Tiering • Data tiering from on-premises to Google Cloud Exercises • Tiering Data to Google Cloud Storage

#### **Session Dates**

Date	Location	Time Zone	Language	Туре	Guaranteed	PRICE
14 May 2024	Virtual Classroom (GMT / UTC)	BST	English	Classroom		€1,900.00
11 Jun 2024	Virtual Classroom (GMT / UTC)	BST	English	Classroom		€1,900.00
09 Jul 2024	Virtual Classroom (GMT / UTC)	BST	English	Classroom		€1,900.00
20 Aug 2024	Virtual Classroom (GMT / UTC)	BST	English	Classroom		€1,900.00
10 Sep 2024	Virtual Classroom (GMT / UTC)	BST	English	Classroom		€1,900.00
08 Oct 2024	Virtual Classroom (GMT / UTC)	BST	English	Classroom		€1,900.00
12 Nov 2024	Virtual Classroom (GMT / UTC)	GMT	English	Classroom		€1,900.00
10 Dec 2024	Virtual Classroom (GMT / UTC)	GMT	English	Classroom		€1,900.00

#### **Additional Information**

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