Integrating Hybrid Clouds with Google Cloud

Duration: 2 Days Course Code: NEP_IHCGC

Overview:

English - Please note this course is only available in English.
Nederlands - Let op: deze training is alleen in het Engels beschikbaar.
Français - Veuillez noter que ce cours est uniquement disponible en anglais.
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.

Target Audience:

NetApp Customers, Partners & Employees in the following roles.. Systems Administrator Systems Operator Cloud Architect Enterprise Architect Integration Developer

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

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 Integrating Hybrid Clouds Foundation course

Content:

Module 1: Google Cloud Essential Concepts

• Google Cloud networking and other concepts

• Terraform introduction

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

• Cloud Volumes ONTAP supported features

Exercises

• 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

• 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

Module 6: Protection

• Backup, Archive and Disaster Recovery

• Ransomware Protection

Exercises

• Using Snapshot Protection

• 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

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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