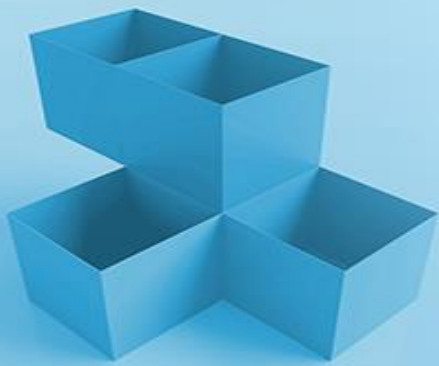


Integrating Hybrid Clouds with Google Cloud



Delivery: Instructor-led-training (ILT/vILT)

Duration: 2 days

Course Description

Learn to implement a hybrid cloud solution with Google Cloud by using NetApp® Cloud Volumes ONTAP®. Connect a Virtual Private Cloud (VPC) and an on-premises data center to unify your infrastructure. Use NetApp BlueXP to move data and manage storage in the hybrid cloud. Learn about how NetApp cloud services are integrated into BlueXP to provide enhanced data protection, security, and compliance. Learn to optimize capacity and performance of Cloud Volumes ONTAP.

Audience

Customers, partners, and employees

Job Role

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

Prerequisites

- *Integrated Hybrid Clouds Foundation*
- 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).

Objectives

This course focuses on enabling you to do the following:

- 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

Course Content

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

<p>Module 1: Google Cloud Essential Concepts</p>	<ul style="list-style-type: none"> • Google Cloud networking and other concepts • Terraform introduction 	<ul style="list-style-type: none"> • 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
<p>Module 2: Network Connectivity Options in Google Cloud</p>	<ul style="list-style-type: none"> • Google Cloud virtual public cloud connectivity to an on-premises network 	<ul style="list-style-type: none"> • 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)
<p>Module 3: Deploying a Connector</p>	<ul style="list-style-type: none"> • Connector review 	<ul style="list-style-type: none"> • Deploying a Connector
<p>Module 4: NetApp Cloud Volumes ONTAP</p>	<ul style="list-style-type: none"> • Cloud Volumes ONTAP use cases • Cloud Volumes ONTAP architecture • Deploying Cloud Volumes ONTAP • Cloud Volumes ONTAP supported features 	<ul style="list-style-type: none"> • 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
<p>Module 5: Administration</p>	<ul style="list-style-type: none"> • Provisioning storage review 	<ul style="list-style-type: none"> • Using BlueXP for Basic Administration of Cloud Volumes ONTAP • Administering BlueXP with RBAC
<p>Module 6: Protection</p>	<ul style="list-style-type: none"> • Backup, Archive and Disaster Recovery • Ransomware Protection 	<ul style="list-style-type: none"> • Using Snapshot Protection • Configuring and Managing Disaster Recovery in the Data Fabric

Module 7: Tiering	<ul style="list-style-type: none">• Data tiering from on-premises to Google Cloud	<ul style="list-style-type: none">• Tiering Data to Google Cloud Storage
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Course ID: STRSW-ILT-IHCGC
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