



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

Arrow ECS, Nidderdale House, Beckwith Knowle, Harrogate, HG3 1SA

Email: educationteam.ecs.uk@arrow.com
Phone: 0870 251 1000



Integrating Hybrid Clouds with Google Cloud

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

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 learn 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

- Google Cloud networking and other concepts

Module 1: Google Cloud Essential 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**
- Provisioning storage review
 - 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**
- Using BlueXP for Basic Administration of Cloud Volumes ONTAP
 - Administering BlueXP with RBAC
 - Backup, Archive and Disaster Recovery
 - Ransomware Protection
- Module 6: Protection**
- Using Snapshot Protection
 - Configuring and Managing Disaster Recovery in the Data Fabric
- Module 7: Tiering**
- Data tiering from on-premises to Google Cloud
 - Tiering Data to Google Cloud Storage

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
14 May 2024	Virtual Classroom	BST	English	Instructor Led Online		£1,795.00
20 Aug 2024	Virtual Classroom	BST	English	Instructor Led Online		£1,795.00
10 Sep 2024	Virtual Classroom	BST	English	Instructor Led Online		£1,795.00
08 Oct 2024	Virtual Classroom	BST	English	Instructor Led Online		£1,795.00
12 Nov 2024	Virtual Classroom	GMT	English	Instructor Led Online		£1,795.00
10 Dec 2024	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.](#)