

Google Cloud Infrastructure for Azure Professionals

Duration: 2 Days Course Code: GO6542

Overview:

This is a course for cloud architects and engineers with existing Azure knowledge that compares Google Cloud solutions with Azure and guides professionals on their use.

In this course, you'll apply the concepts and technologies knowledge in Azure to explore the similarities and differences with concepts and technologies in Google Cloud. You'll get hands-on practice building and managing Google Cloud resources.

This course will covers the following products notions: Google Cloud VPN • Google Cloud VPC • Google Cloud Firewall • Compute Engine • Cloud Storage • Cloud SQL • Google Kubernetes Engine • GKE Enterprise • Cloud Operations

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Target Audience:

This course is intended for the Cloud architects or cloud engineers who are experienced with Azure cloud.

Objectives:

- After this course participants should be able to:
 - Explain best practices for the Google Cloud solutions that incorporate resources and access management in Google Cloud
 - Implement Google Cloud networks by using best practices for Cloud virtual private network (VPN), Virtual Private Cloud (VPC), and Google Cloud Firewall
 - Create and customize virtual machine (VM) instances using Compute Engine
 - Configure load balancers and autoscaling for VM instances
 - Implement data storage services in Google Cloud
 - Design a solution using Google Kubernetes Engine (GKE) for deploying applications in Google Cloud
 - Examine best practices for deploying and monitoring of Google Cloud infrastructure
 - Identify the purpose and use cases for Cloud Run
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Prerequisites:

Participants should have a good familiarity with Azure terms and concepts.

Testing and Certification

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Content:

Module 1 Resource and Access Management in Google Cloud

- Google Cloud resource hierarchy
- Identity and Access Management (IAM)
- Service accounts
- Interacting with Google Cloud
- Lab: Exploring Identity and Access Management

Module 2 Networking in Google Cloud

- Networking concepts in Azure and Google Cloud
- Virtual Private Cloud Networking
- Lab: VPC Networking
- Cloud Routing
- Interconnecting Networks
- Lab: Implement private Google access and Cloud NAT

Module 3 Virtual machines in Google Cloud

- Google Compute Engine
- Machine types and images
- Spot VMs
- Lab: Getting started with Compute Engine

Module 4 Load Balancing and Managed Instance Groups on Google Cloud

- Load Balancing in Azure and Google Cloud
- Cloud Load Balancing features in Google Cloud
- Managed instance groups
- Lab: Configuring an HTTP Load Balancer with Autoscaling

Module 5 Storage in Google Cloud

- Overview of Storage and Database Services
- Cloud Storage
- Managed Database Services
- Data Lake Options
- Lab: Cloud Storage
- Lab: Implementing Cloud SQL

Module 6 Containers in Google Cloud

- Containers in Google Cloud
- Google Kubernetes Engine
- Kubernetes Concepts and Architecture
- Deployments and Networking
- Hybrid and Multi-Cloud Computing with GKE Enterprise
- Lab: Getting started with Google Kubernetes Engine
- Lab: Creating Google Kubernetes Engine Deployments

Module 7 Applications in Google Cloud

- Development of Applications in Google Cloud
- Cloud Run Functions
- Describe how Cloud Run Functions can support application development.
- Deploy a containerized application on Cloud Run
- Lab: Hello Cloud Run

Module 8 Monitoring in Google Cloud

- Monitoring in the Cloud
- Cloud Operations
- Create charts, alerts, and uptime checks for resources with Cloud Monitoring.
- Monitoring GKE Clusters
- Monitoring Tools in Azure and Google Cloud
- Lab: Monitoring a Compute Engine VM using Ops Agent

Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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