Google Cloud Infrastructure for AWS Professionals

Duration: 2 Days Course Code: GO6541 Delivery Method: Virtual Learning

Overview:

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

In this course, you'll apply the concepts and technologies knowledge in AWS 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.

Products:
- 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:

Cloud architects or cloud engineers who are experienced with AWS cloud.

Objectives:

- **After completing 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 the deploying and monitoring of Google Cloud infrastructure.
- Identify the purpose and use cases for Cloud Run.

Prerequisites:

Attendees should meet the following prerequisites:

- Familiarity with AWS terms and concepts

Testing and Certification

Recommeded as preparation for the following exams:

- There are none currently aligned to this course

Content:

Module 1: Resource and Access Management in Google Cloud

- Review the AWS resource hierarchy.
- Explore how IAM lets you apply policies that define who can do what on which resources in Google Cloud.
- Examine service account types and keys in Google Cloud.
- Navigate through Google Cloud console and Cloud Shell to perform basic tasks.

Module 2: Networking in Google Cloud

- Compare networking concepts in AWS and Google Cloud.
- Understand VPC networking on Google Cloud.
- Explain how Google Virtual Private Cloud (VPC) differs from AWS VPC.
- Create and configure Private Google Access and Cloud NAT.
- Determine which Google Cloud interconnect or peering service to use in specific circumstances.

Module 3: Virtual Machines in Google Cloud

- List the various CPU, GPU, and memory options for virtual machines.
- Explore Google Cloud images.
- Explain where you would want to use Spot VMs in Google Cloud.

Module 4: Load Balancing and Managed Instance Groups on Google Cloud

- Explain Cloud Load Balancing features in Google Cloud.
- Describe Managed Instance Groups and how to use them.
- Explain how to use Managed Instance Groups with Load Balancers.

Module 5: Storage in Google Cloud

- Explore storage options and use cases.
- Explore the features of Cloud SQL and Cloud Spanner.
- Learn about using Cloud Bigtable.

Module 6: Containers in Google Cloud

- Explain how containers can be utilized in Google Cloud.
- Provision a Kubernetes cluster using GKE.
- Explain how Deployments are used in Kubernetes.
- Identify the purpose of hybrid and multi-cloud computing with GKE Enterprise.

Module 7: Applications in Google Cloud

- Describe how Cloud Run Functions can support application development.
- Deploy a containerized application on Cloud Run.

Module 8: Monitoring in Google Cloud

- Describe Google Cloud's operations suite.
- Create charts, alerts, and uptime checks for resources with Cloud Monitoring.
- Describe system metrics collection in GKE.

Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on +1 (800) 268 7737

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