Google Cloud Fundamentals for AWS Professionals

Duration: 1 Day   Course Code: GO6541   Delivery Method: Virtual Learning

Overview:

This six-hour course with labs introduces AWS professionals to the core capabilities of Google Cloud Platform (GCP) in the four technology pillars: networking, compute, storage, and database. It is designed for AWS Solution Architects and SysOps Administrators familiar with AWS features and setup and want to gain experience configuring GCP products immediately. With presentations, demos, and hands-on labs, participants get details of similarities, differences, and initial how-tos quickly.

Virtual Learning:

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

AWS Solution Architects just getting started with Google Cloud Platform AWS SysOps Administrators used to building IaaS solutions Architects and Engineers operating in multi-cloud environments

Objectives:

- Identify GCP counterparts for Amazon VPC, subnets, routes, NACLs, IGW, Amazon EC2, Amazon EBS, auto-scaling, Elastic Load Balancing, Amazon S3, Amazon Glacier, Amazon RDS, Amazon Redshift, AWS IAM, and more

- Configure accounts, billing, projects, networks, subnets, firewalls, VMs, disks, auto scaling, load balancing, storage, databases, IAM, and more

- Manage and monitor applications

- Explain feature and pricing model differences

- Locate documentation and training

Prerequisites:

- Basic proficiency with networking technologies like subnets and routing
- Experience with Amazon VPC, Amazon EC2 instances, and disks
- Familiarity with Amazon S3 and AWS database technologies

Content:

Virtual Classroom Live Outline

Module 1: Introducing Google Cloud Platform

- Google Cloud infrastructure
- AWS regions, availability zones, and CloudFront
- GCP regions, zones, edge caching, and Cloud CDN
- GCP services

Module 2: Setting up Accounts and Billing

- AWS accounts, billing, and IAM roles
- GCP accounts, billing accounts, projects, and admin setup
- Account, billing, project, and admin setup

Module 3: Networking

- Amazon VPC, subnets, routes, NACLs, and security groups
- GCP networks, subnets, routes, and firewall rules
- VMs in networks

Module 4: Working with VM Instances

- Amazon EC2 instance types, AMIs, Amazon EBS, ephemeral drives, spot instances
- Google Compute Engine machine types, instances, persistent disks, local SSDs, preemptible VMs
- VM and web app deployment

Module 5: Scaling and Load Balancing Apps

- Amazon EC2 launch configurations, auto-scaling groups, load balancing
- Google Compute Engine instance templates, managed instance groups, load balancing
- Autoscaling and load balancing setup

Module 6: Isolating Instances and Apps

- A 3-tier web app in GCP
- A custom network with custom subnets and firewall rules

Module 7: Using Storage as a Service and Database as a Service

- Amazon S3, Amazon Glacier, Amazon RDS, Amazon DynamoDB, Amazon Redshift, Amazon Athena
- Google Cloud Storage, Google Cloud SQL, Cloud Spanner, Google Cloud Datastore, Google Cloud Bigtable, Google BigQuery

Module 8: Deployment and Monitoring

- AWS CloudFormation, Amazon CloudWatch
- Google Cloud Deployment Manager, Google StackDriver

Virtual Classroom Live Labs

- Lab: Set up projects and billing accounts with a free-trial GCP account
- Lab: Add VMs, explore the default network, and test connectivity
- Lab: Deploy VMs with an app by console and command line
- Lab: Scale and load balance instances and test under load
- Lab: Build a 3-tier web app with public front-end and private backend
- Lab: Use gsutil command-line tool to perform operations on buckets and objects in Cloud Storage
- Lab: Load and analyze data in BigQuery
- Lab: Deploy your infrastructure using Deployment Manager

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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