Architecting with Google Compute Engine

Price: 2700

Duration: 3 days

Delivery Methods: Virtual

Overview

This course will familiarize you with Google Cloud’s flexible infrastructure and platform services, with a specific focus on Compute Engine. This course uses a combination of lectures, demos, and hands-on labs to explore and deploy solution elements, including infrastructure components like networks, systems, and application services. You’ll also learn how to deploy practical solutions such as hybrid networking, customer-supplied encryption keys, security and access management, quotas and billing, and resource monitoring.

Audience Profile

- Cloud Solutions Architects, DevOps Engineers
- Individuals using Google Cloud to create new solutions or to integrate existing systems, application environments, and infrastructure, with a focus on Compute Engine

At Course Completion

- Interact with the Google Cloud console and Cloud Shell
- Deploy solutions using Google Cloud Marketplace
- Implement VPC networks and firewall rules
- Create and customize VM instances using Compute Engine
- Administer Identity and Access Management for resources
- Implement data storage services in Google Cloud
- Manage and examine billing of Google Cloud resources
- Monitor resources using Google Cloud services
- Connect your infrastructure to Google Cloud

- Configure load balancers and autoscaling for VM instances
- Automate the deployment of Google Cloud infrastructure services
- Leverage managed services in Google Cloud

Outline

Module 1: Introduction to Google Cloud

Module 2: Virtual Networks

Module 3: Virtual Machines

Module 4: Identity and Access Management (IAM)

Module 5: Storage and Database Services

Module 6: Resource Management

Module 7: Resource Monitoring

Module 8: Interconnecting Networks

Module 9: Load Balancing and Autoscaling

Module 10: Infrastructure Modernization

Module 11: Managed Services

Prerequisites

- Have completed Google Cloud Fundamentals: Core Infrastructure or have equivalent experience
- Have basic proficiency with command-line tools and Linux operating system environments
- Have systems operations experience, including deploying and managing applications, either on-premises or in a public cloud environment

Course Schedule

Date	Time	Price	Options

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