

GCP Solution Architect Professional

Length : 3 Days
Technology : Cloud computing
Delivery Method : Instructor-led

Overview

The course is designed based on official certification requirements outlined by Google Cloud provider for Google Cloud Certified – Professional Cloud Architect exam.

Key Features:

- 3 days of instructor-led training (virtual or classroom)
- Training delivered by Google Cloud Certified – Professional Cloud Architect
- The trainer is also a consultant helping clients to migrate to Google cloud
- Prepares for Google Cloud Certified – Professional Cloud Architect exam

Course Outline

Module 1: Introduction to Google Cloud Platform

Lessons

- Role of the Cloud Architect
- Learn about Solution Domains as an approach to design

Lab: Console and Cloud Shell

Lab: Projects

Lab: Infrastructure Preview

Module 2: Virtual Networks

Lessons

- Cloud Virtual Networks (CVN), Projects, Networks, Sub Networks, IP addresses, Routes, Firewall rules.
- Sub Networks for resource management instead of physical network topology

Lab: Virtual Networking

Lab: Bastion Host

Module 3: Virtual Machines

Lessons

- GCE, tags, VM options, vCPUs, disk options, images, and special features of persistent disks for VMs

Lab: Creating Virtual Machines

Lab: Working with Virtual Machines

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Module 4: Cloud IAM

Lessons

- Members, roles, organizations, account administration, service accounts

Lab: Cloud IAM

Module 5: Data Storage Services

Lessons

- Cloud Storage, Datastore, Bigtable, Cloud SQL

Lab: Cloud Storage

Lab: Cloud SQL

Lab: Cloud Datastore

Module 6: Resource Management

Lessons

- Billing, Quotas, Labels, Names, Cloud Resource Manager

Lab: Billing Administration.

Lab: Examining Billing Data with BigQuery.

Module 7: Resource Monitoring

Lessons

- Stackdriver, Monitoring, Logging, Error Reporting, Tracing, Debugging

Lab: Resource Monitoring (Stackdriver)

Lab: Error Reporting and Debugging (Stackdriver)

Module 8: Interconnecting Networks

Lessons

- VPNs, Cloud Router, Cloud Interconnect, Direct Peering, Cloud DNS

Lab: Virtual Private Networks (VPN).

Lab: Dynamic VPN with Cloud Routers

Module 9: Load Balancing

Lessons

- Network Load Balancing, HTTP(S) Load Balancing, SSL Load Balancing and Internal Load Balancing, Managed Instance Groups.

Lab: VM Automation and Load Balancing

Module 10: Autoscaling

Lessons

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- Autoscaler concepts

Lab: Autoscaling

Module 11: Infrastructure Automation with Cloud API

Lessons

- Infrastructure automation, custom images, startup and shutdown scripts and metadata.

Lab: Cloud API Infrastructure Automation

Module 12: Infrastructure Automation with Deployment Manager

Lessons

- Deployment Manager templates

Lab: Deployment Manager

Module 13: Managed Services

Lessons

- Dataproc concepts
- Dataflow concepts
- Bigquery concepts
- Datalab concepts
- Data Studio concepts

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