

[GC-SAW]: Google Cloud – Solution Architect Professional Workshop

Length : 4 days
Delivery Method : Instructor-led (Classroom)

At Course Completion

Prepares you as per certification requirements for Google Cloud Solution Architect Professional.

Pre-Requisites

Basic Linux commands like working with files and directories is desired.

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: Introduction to Google Cloud Platform

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

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Lab: Working with Virtual Machines

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: Examine Billing Data with Big Query

Module 7: Resource Monitoring

Lessons

- Stack driver, Monitoring, Logging, Error Reporting, Tracing, Debugging

Lab: Resource Monitoring (Stack driver)

Lab: Error Reporting and Debugging (Stack driver)

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

Lesson

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- 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

Lesson

- Autoscaler

Lab: Autoscaling

Module 11: Infrastructure Automation with Cloud API

Lesson

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

Lab: Cloud API Infrastructure Automation

Module 12: Infrastructure Automation with Deployment Manager

Lesson

- Deployment Manager templates

Lab: Deployment Manager

Module 13: Managed Services

Lesson

- Data proc, Dataflow, Big Query, Data lab

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