



ARCHITECTING WITH GOOGLE CLOUD PLATFORM: INFRASTRUCTURE

Course Code: 5973

Develop essential skills for managing and administering solutions.

This three-day instructor-led class introduces you to the comprehensive and flexible infrastructure and platform services provided by Google Cloud Platform. Through a combination of presentations, demos, and hands-on labs, you will explore and deploy solution elements, including infrastructure components such as networks, systems and applications services. This course also covers deploying practical solutions including securely interconnecting networks, customer-supplied encryption keys, security and access management, quotas and billing, and resource monitoring.

What You'll Learn

- Consider the entire range of Google Cloud Platform technologies in their plans
- Learn methods to develop, implement, and deploy solutions
- Distinguish between features of similar or related products and technologies
- Recognize a wide variety of solution domains, use cases, and applications
- Develop essential skills for managing and administering solutions
- Develop knowledge of solution patterns

Who Needs to Attend

Experienced developers who are responsible for managing big data transformations including:

- Cloud Solutions Architects, Systems Operations professionals, DevOps Engineers, IT managers.
- Individuals using Google Cloud Platform to create new solutions or to integrate existing systems, application environments, and infrastructure with the Google Cloud Platform

Prerequisites

- Have completed Google Cloud Platform Fundamentals or have equivalent experience
- 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



Global Knowledge.

ARCHITECTING WITH GOOGLE CLOUD PLATFORM: INFRASTRUCTURE

Course Code: 5973

VIRTUAL CLASSROOM LIVE

\$1,995 CAD

3 days

Virtual Classroom Live Outline

1. Introduction to Google Cloud Platform

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

2. Virtual Networks

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

3. Virtual Machines

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

4. Cloud IAM

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

5. Resource Management

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

6. Data Services

- Cloud Storage, Datastore, Bigtable, and Cloud SQL

7. Interconnecting Networks

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

8. Infrastructure Automation

- Infrastructure automation, custom images, startup and shutdown scripts and metadata, Deployment Manager, and Cloud Launcher

9. Autoscaling

- Load Balancing, Instance Groups, and Autoscaler.

10. Resource Monitoring

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

11. Containers

- Containers, Google Container Engine (GKE), and Container Registry

12. Platform Security

- Learn about Google's layered security strategy that uses a multi-faceted approach to provide platform security services and benefits

13. Managed Services

- Dataproc, Dataflow, BigQuery, and Datalab

14. Application Development Infrastructure

- GAE, Cloud SDK, Dev Tools, Cloud Source Repos, Cloud Pub/Sub, Cloud Endpoints, and APIgee, Cloud Functions

Virtual Classroom Live Labs

Module 1

- Lab: Console and Cloudshell

Module 2

- Lab: Virtual Networking.

Module 3

- N/A

Module 4

- Lab: Cloud IAM.

Module 5

- Lab: Lab Billing.

Module 6

- Lab: Cloud Storage.
- Lab: Cloud SQL.

Module 7

- Lab: VPN and Cloud Router.

Module 8

- Lab: Hadoop Cluster Maker.
- Lab: Virtual Machine.

Module 9

- Lab: Autoscaling.

Module 10

- Lab: Resource Monitoring (Stackdriver).

Module 11

- N/A

Module 12

- N/A

Module 13

- Lab: BigQuery and Datalab.

Module 14

- N/A



Global Knowledge.

ARCHITECTING WITH GOOGLE CLOUD PLATFORM: INFRASTRUCTURE

Course Code: 5973

PRIVATE GROUP TRAINING

3 days

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

Date created: 9/16/2019 12:21:54 PM

Copyright © 2019 Global Knowledge Training LLC. All Rights Reserved.