Google Cloud Platform Course

GCP Course Objectives

- 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 methods, technologies, and designs that are used to implement security, scalability, high availability, and other desired qualities

Google Cloud Platform Course Syllabus

1: Introduction to Google Cloud Platform

- Google Cloud Platform (GCP) Infrastructure
- Using GCP
- Lab: Console and Cloud Shell
- Demo: Projects
- Lab: Infrastructure Preview

2: Virtual Networks

- Virtual Private Cloud (VPC), Projects, Networks, Subnetworks, IP addresses, Routes, Firewall rules
- Subnetworks for resource management instead of physical network topology
- Lab: Virtual Networking
- Lab: Bastion Host

3: Virtual Machines

- Compute Engine
- Lab: Creating Virtual Machines
- Compute options (vCPU and Memory)
- Images
- Common Compute Engine actions
- Lab: Working with Virtual Machines

4: Cloud IAM

- Organizations, Roles, Members, Service accounts, Cloud IAM best practices
- Lab: Cloud IAM

5: Data Storage Services

- Cloud Storage
- Lab: Cloud Storage
- Cloud SQL
- Lab: Cloud SQL
- Cloud Spanner, Cloud Datastore
- Lab: Cloud Datastore
- Cloud Bigtable

6: Resource Management

- Cloud Resource Manager, Quotas, Labels, Names, Billing
- Demo: Billing Administration
- Lab: Examining Billing Data with BigQuery

7: Resource Monitoring

- Stackdriver, Monitoring
- Lab: Resource Monitoring (Stackdriver)
- Logging, Error Reporting, Tracing, Debugging
- Lab: Error Reporting and Debugging (Stackdriver)

8: Interconnecting Networks

- Cloud Virtual Private Network (VPN)
- Lab: Virtual Private Networks (VPN)
- Cloud Router, Cloud Interconnect, External Peering, Cloud DNS

9: Load Balancing

- Managed Instance Groups, HTTPS load balancing, Cross-region and content-based load balancing, SSL proxy/TCP proxy load balancing, Network load balancing
- Lab: VM Automation and Load Balancing

10: Auto scaling

- Auto scaling, Policies, Configuration
- Lab: Auto scaling

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Instructor Profile

- 8+ years of Experience in Google Cloud Platform, currently spearheading the efforts.
- Trained more than 1000+ students on Google Cloud Platform at Apponix.
- 5-star rating from all Google Cloud Platform students.
- Well versed in Google Cloud Platform.
- Excellent training delivery skills with an ability to present information well.
- Demonstrable experience of being student focused and completing projects to hit deadlines and targets.
- Demonstrable proof of enthusiasm, initiative, creativity and problem solving.
- Demonstrable experience in delivering quality training on Google Cloud Platform.
- Excellent practical experience.

Google Cloud Platform Instructor Experience

- Working directly with Google Cloud Platform .
- Support customers related to Google Cloud Platform issues.

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