



Google Cloud Platform (GCP)

Mode of Training: Online Training

Name of Trainer: Mr. Khaja



**Course
Curriculum**

Google Cloud Platform (GCP)

1. Overview of Google Cloud Platform
 - a. Types of Cloud Services
 - b. Cloud Computing Terminologies
 - c. Computing Components of GCP
 - d. Storage Components of GCP
 - e. Additional Components of GCP
2. Projects, Service Accounts, and Billing
 - a. How GCP Organizes Projects and Accounts
 - b. Roles & Identities
 - c. Service Accounts
 - d. Billing
 - e. Enabling API
 - f. Provisioning Stackdriver Workspaces
3. Overview of Computing in Google Cloud
 - a. Compute Engine
 - b. App Engine
 - c. Kubernetes Engine
 - d. Cloud Functions
4. Computing with Compute Engine Virtual Machines
 - a. Creation
 - b. Configuration
5. Managing Virtual Machines
 - a. Single Virtual Machines
 - b. Instance Groups
6. Computing with Kubernetes
 - a. Creation
 - b. Configuration
7. Managing Kubernetes Clusters
 - a. Managing Nodes
 - b. Managing Pods
 - c. Managing Services
8. Computing with App Engine
 - a. Components
 - b. Scaling App Engine Applications
9. Computing with Cloud Functions
 - a. Cloud Functions Receiving events from Pub/Sub and Cloud Storage
10. Overview of Storage in the Cloud
 - a. Types of Storage Systems
 - b. Storage Data Models
 - c. Choosing a Storage Solution
11. Deploying Storage in Google Cloud Platform
 - a. Deploying and managing Cloud SQL
 - b. Deploying and managing Datastore
 - c. Deploying and managing BigQuery

- d. Deploying and managing Cloud Spanner
 - e. Deploying and managing Cloud Pub/Sub
 - f. Deploying and managing Cloud Bigtable
 - g. Deploying and managing Cloud Dataproc
 - h. Managing Cloud Storage
 - i. Loading Data into Storage
 - j. Importing & Exporting Data
12. Networking in the Cloud
- a. Virtual Private Clouds
 - b. Virtual Private Network
 - c. Cloud DNS
 - d. Load Balancers
 - e. IP Address Management
13. Infrastructure Automation using Deployment Manager
14. Deploying Applications with Cloud Launcher
15. Configuring Access & Security
- a. Managing Identity and Access Management
 - b. Managing Service Accounts
 - c. Viewing Audit Logs
16. Monitoring, Logging & Cost Estimations
- a. Monitoring & Logging with Stackdriver
 - b. Using Cloud Diagnostics
17. Migration Planning & Execution

Course Details:

