CLOUD FLIX
SOLUTIONS

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GCP Course Curriculum

1. Introduction to Google Cloud Platform

- Introduction to Cloud Computing
- Overview of Google Cloud Platform
- Useful Links and Documentation
- Google Cloud Platform Resource Overrview : Compute
- Google Cloud Platform Resource Overview : Networking
- Google Cloud Platform Resource Overview : Storage
- Google Cloud Platform Resource Overview : Big Data and Artificial Intelligence
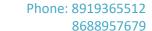- Google Cloud Platform Resource Overview: Tools and Operation

2. Managing GCP

- Managing Google Cloud Platform with Console
- Managing Google Cloud Platform with Command Line
- Google Cloud SDK Installation
- Understand gcloud, gsutil, and other Command-Line Tools
- Google Cloud Platform Projects and Billings
- Understand GCP Projects
- Project User Roles

3. Google Cloud Platform: Virtual Networks

- Global Footprint: Regions, Zones, and Edge Locations
- Virtual Private Cloud
- Cloud Load Balancing
- Virtual Private Network

4. Security & Identity Fundamentals

- Overview of IAM
- IAM Service Account
- Identity Aware Proxy (IAP)
- Cloud KMS

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5. Compute Services

➤ Compute Engine and Virtual Machines
➤ Machine types in Compute Engines
➤ compute options
➤ Disk options
➤ Advanced options in compute engine

6. Data Storage Services

➤ Data Service Options
➤ GCP Storage
➤ Cloud SQL
➤ Cloud Spanner
➤ Cloud Datastore and Cloud Firestore
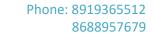➤ Cloud Bigtable

7. Architecting with Google Kubernetes Engine

➤ Monolithic and Microservice Architecture
➤ Containers
➤ Docker
➤ Kubernetes
➤ Google Kubernetes Engine
➤ Helm Package Manager

8. Application Development

➤ Compute Service and App Engine
➤ Cloud Function
➤ Cloud Run
➤ Cloud VMware Engine

9. DevOps

➤ DevOps
➤ Cloud Source Repository

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- ➢ Jenkins with Google Cloud
- ➢ Cloud Logging Services
- ➢ Cloud Monitoring Service

10. Automation

- ➢ Cloud Resources
- ➢ Configuration
- ➢ Template
- ➢ Deployment Manager

11. Big Data and AI Services

- ➢ Managed Services
- ➢ Dataflow
- ➢ Pub/Sub
- ➢ BigQuery
- ➢ Datalab

12. Real world implementations of GCP in various Case Studies.

13. Projects & Resume Preparation