

GOOGLE CLOUD PLATFORM TRAINING COURSE CONTENT

Section 1: Introduction to GCP

Topics

- What is Cloud Computing?
- GCP Overview
- Compute Service Compute Engine, App Engine, GKE
- Networking Overview
- Storage Overview
- Databases Overview
- Big Data Overview
- Tools and others Overview

Real time practical

- Create New GCP account
- Navigate through Web Console Services

Section 2: GCP Interfaces and Development Tools

Topics

- Manage GCP with web console
- Manage GCP with command line
- Gcloud sdk installatation
- Explain gcloud, gsutil, and other Command-Line Tools
- Explain Resource hierarchy & Billing

Real time practical



Getting started with Web Console – Billing, projects, etc

How to use Cloud Shell and gcloud

Section 3: Networking – VPC

Topics

Explain Regions, Zones, and Edge Locations

Virtual Private Cloud

Cloud Load Balancing

Virtual Private Network

Real time practical

Networking fundamentals

Section 4: Security & Identity – IAM

Topics

IAM – Overview

Service account & keys

Identity Aware Proxy (IAP)

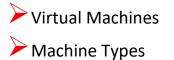
Real time practical

Creating Service account

Creating IAM roles

Section 5: Compute Engine

Topics





Compute Options

Disk options

Instance groups, templates, Auto-scaling, etc.

Real time practical

Launch an Instance

Auto-scale with instance groups

Creating Snapshot & images

Section 6: Storage & Database Services

Topics

- Cloud Storage
- File store
- Cloud SQL
- Cloud Spanner
- Cloud Big Table

Real time practical

Create a Cloud Storage Bucket

Cloud SQL usage

Section 7: Google App Engine

Topics

Explain App Engine

Real time practical



Deploying an application in App Engine

Section 8: Kubernetes – GKE

Topics



- Containers
- Docker
- Google Kubernetes Engine (GKE)

Real time practical

- Container registry
- Create a GKE cluster
- Deploying an application in GKE

Section 9: Bigdata Solutions

Topics



Real time practical

Dataflow with Pub/Sub (or) BigQuery

Section 10: Advanced Networking Topics



Topics

Load balancing

VPN

Real time practical

Load balancing http traffic

Build a High-throughput VPN

Section 11: Management Tools (StackDriver)

Topics

StackDriver logging

StackDriver Monitoring

Real time practical

Cloud Logging on Kubernetes Engine

Section 12: GCP Cloud Migration

Topics

Migrate for Compute Engine

Section 13: DevOps in GCP

Topics

Jenkins with GCP

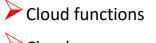
Cloud Source Repository

- CI/CD with GCP
- Cloud Build



Section 14: Few other Services

Topics



- Cloud run
- Cloud VMware Engine



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