This is a reference document to understand how class flows.

GCP New and Updated

Google Cloud Platform (GCP) Course Curriculum

1.   **GCP Introduction**

2.   **Managing GCP Services**

3.   **GCP Networking Services**

4.   **Gcp IAM And Security Services**

5.   **GCP Compute Services**

6.   **GCP Storage And Database Services**

7.   **GCP Containers**

8.   **Google Cloud Migration**

GCP Introduction

- ❏   Google Cloud Platform (GCP) Infrastructure
- ❏   Compute resources
- ❏   Networking Services
- ❏   Storage and Database offering
- ❏   Introduction to Primitive role

Managing GCP Services

- ❏ Managing GCP environment with GCP console
- ❏ Control GCP environment using CLI
- ❏ GCP environment management using Cloud Shell
- ❏ GCP environment management using Gcloud
- ❏ GCP environment management using Gsutil
- ❏ Install and configure cloud SDK

GCP Networking Services

- ❏ Cloud Virtual Network
- ❏ Virtual Private Network
- ❏ Virtual Private Cloud
- ❏ Proxies / Gateway and Endpoints
- ❏ Network/Subnetwork
- ❏ DNS Resolution
- ❏ Firewalls and Routes
- ❏ Cloud Router
- ❏ Interconnecting networks
- ❏ Security aspect

Gcp IAM And Security Services

- ❏ Understand Identity and Access Management (IAM)
- ❏ Understanding Organizations, Roles, Members, Service accounts,
- ❏ Policy Hierarchy
- ❏ Understanding different role and permission

GCP Compute Services

❏ Understand Compute Engine

❏ Understand and implement Compute options (vCPU and Memory) specific to workload

❏ Persistent disk – HDD, SSD

❏ Load Balancing

❏ Common Compute Engine actions

GCP Storage And Database Services

❏ Understand Cloud Storage – Nearline, Coldline

❏ Pros and cons of storage option and how to choose

❏ Understanding Billing aspect of storage options

❏ Trade off of storage options

❏ Integration with on premises/multi-cloud environment

GCP Containers

❏ Understand Containers and their benefits

❏ Kubernetes Engine, Container Registry

❏ How to use Kubernetes Load Balancing

❏ How to choose Kubernetes Engine, App Engine, or Containers on Compute Engine