



# Google Cloud Platform - Professional Cloud Architect

# **Ashutosh Mishra**

- 20+ years of experience in designing and delivery of Enterprise Solutions using Big Data (Hadoop & Serverless), Cloud computing, Microservices and API's, Machine Learning and Artificial Intelligence, Master Data Management, Data Governance, DW/BI and Advanced Analytics streams.
- Consulting experience for global firms across different countries (USA, Europe, Singapore, India, Australia & New Zealand)
- 7+ year of experience in Big Data Architecture using Hadoop based frameworks (Cloudera, Hortonworks) and serverless data lake (AWS, Azure, GCP, Databricks).
- Hybrid and multi-cloud experience across private and public cloud (AWS, Azure, GCP & VMWare).
- Experience across large and complex IT systems including container orchestration, Kubernetes, VMware etc.



### Introduction

- ✓ Welcome
- ✓ Course structure
- ✓ Study and Exam tips

## **Cloud Architect Certification &** Resources

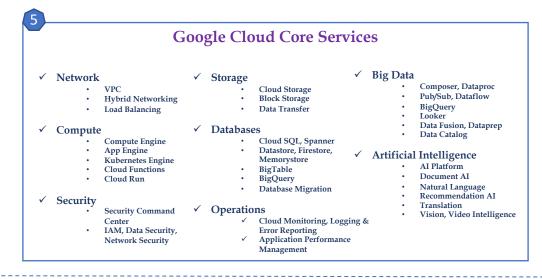
- ✓ Certification exam guide
- GCP Resources
- GCP Artefacts reconciliation sheet

## The Basics & GCP console tour

- ✓ IAM, Network and Access
- GCP Console tour
  - ✓ Compute, Storage, Databases
  - ✓ Networking, Operations, Tools
  - ✓ Big Data & AI

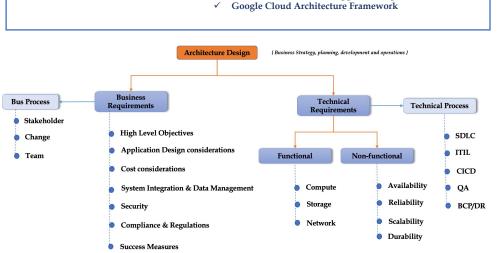
# **Certification Case Study**

- EHR Healthcare
- ✓ Helicopter Racing League
- TerramEarth
- Mountkirk Games



# Architecture landscape

- **Business & Technical Requirements**
- Microservices, 12 factor App & DevOps
- Google Cloud Architecture Framework





## **Reference Architecture**

- ✓ Data lifecycle architecture
- ✓ Industry use cases



# Case Study - Solution

- ✓ EHR Healthcare
- ✓ Helicopter Racing League
- ✓ TerramEarth
- ✓ Mountkirk Games

## Certification Refresher & Test

- √ 1 hour refresher video of all GCP services and architecture landscape
- ✓ Test Questions & Mock test

# GCP Advanced Knowledgebase

- ✓ Next '20 Update
- ✓ Multi and Hybrid Cloud (Anthos)
- ✓ Advanced Machine Learning
- Kubernetes Engine (Advanced)
- ✓ GCP Tools
- ✓ Labs Capstone (Solutions based)

|              | 9 AM - 10:30 AM  | Break<br>(30 mins) | 11 AM - 12:30 PM   | Lunch<br>(60 mins) | 1:30 PM - 3 PM   | Break<br>(30 mins) | 3:30 PM - 4:30 PM  |
|--------------|--|--------------------|--|--------------------|--|--------------------|--|
| <u>Day 1</u> | Introduction  Welcome  Course structure  Certification & Resources  Exam Guide  Resources  Review Exam Guide, Review GCP Resources, Create GCP login |                    | The Basics & GCP console tour  IAM, Network and Access  GCP Console tour  Certification Case Study  3 case studies  Practice with GCP console, Review case studies |                    | GCP Core Services  ✓ Compute  Labs -Network  |                    | GCP Core Services  Very Network Storage  Labs - Compute Engine & Storage |
| Day 2        | GCP Core Services  ✓ Databases  Labs -Databases  |                    | GCP Core Services  ✓ Security ✓ Operations  Labs -Security. Operations   |                    | GCP Core Services  ✓ Big Data  Labs -Big Data  |                    | GCP Core Services  ✓ AI  Labs -AI  |
| Day 3        | Architecture Landscape  V Business & Technical Requirements V Google Cloud Architecture Framework  Study -Review Google Architecture Docs            |                    | Reference Architecture  Data lifecycle architecture  Industry use cases  Case Study - Solution  3 case studies  Study -Review Case Studies                         |                    | GCP Rerresher  1 hour refresher video of all GCP services and architecture landscape |                    | 9 Mock Test  ✓ Certification Mock Test                                   |