

DevOps on Google Cloud Platform

Modality: On Demand

Duration: 4 Hours

About this Course:

Many businesses require the services of an experienced solution architect who shares proficiency in DevOps Functions & Operations. This provides Professional Programmers and Cloud Developers with an opportunity to secure reputable jobs in leading small and large scale tech companies. This intermediate-level course is perfect for professionals striving to acquire a better knowledge of GCP services or accomplish Google Cloud Platform (GCP) Certification.

The DevOps on the Google Platform training program mainly focuses on the fundamentals of GCP and delivers conceptual knowledge of key GCP concepts such as Container Registry, Cloud Build, and other Cloud Functions. Through this course, professionals learn the true capabilities of DevOps and the art of implementation and application on GCP. This also covers services relating to CD and CI Pipeline Deployment and App Engine and Kubernetes Engine Review.

Course Objectives:

The core objective of this course is to help professionals gain a better knowledge and conceptual understanding of the following key principles:

- The Fundamentals of DevOps
- Applying GCP Services for Supporting On-Premises Services
- Getting to Know Cloud Functions, Container Registry, and Cloud Build
- Understanding Deployment Manager, Cloud Marketplace, and Google Stackdriver
- Getting to Know App Engine, Cloud Functions, and Kubernetes Engine
- Using GCP Services to Design CD & CI Pipeline

Audience:

- Experienced Solution Architects
- New GCP Cloud Developers
- Experienced Cloud Administrators and Managers
- Programmers who want to learn GCP Applications Deployment
- Professionals who want to host fault-tolerant and scalable applications on the GCP Platform PaaS & IaaS

Prerequisites:

Professionals planning to enroll in the DevOps on Google Cloud Platform course must comply with the following prerequisites:

- Fundamental Knowledge of Cloud Computing

- GCP Free Tier Sign Up is mandatory for all candidates

Course Outline:

Introduction

What is DevOps. The Basics

- What is DevOps
- Preview
- Devops on GCP

Pipelines and Mainlines

- Continuous Integration (CI)
- Continuous Development (CD)
- Continuous Deployment
- Source Code Management

App Engine

- App Engine Basics
- App Engine Demo
- App Engine Security Scanner
- App Engine or Kubernetes Engine?

Kubernetes Engine (Containers)

- Container Basics
- Kubernetes Engine (Containers)
- Kubernetes Engine Clusters Demo
- Kubernetes Engine Federation
- Kubernetes Engine Whiteboard
- Preview

Development Tools

- Cloud SDK Demo
- Cloud Shell Demo
- Cloud Build Demo
- Cloud Source Repositories Demo
- Container Registry

Microservices

- Microservices
- Cloud Functions Demo

Resource Management

- Stackdriver Overview
- Service Accounts
- Demo Service Accounts
- Demo Deploy API
- Cloud Endpoints

Infrastructure as Code

- Deployment Manager
- Cloud Marketplace Demo

Resources and Closeout

- Codelabs Free to Use
- Qwiklabs
- DevOps Webpage
- Stackoverflow
- Diagram Asset Library
- Google Cloud Platform Certifications
- Preview