

## Google Cloud

### Total Duration

1 day

### Audience

This workshop is intended for developers who need to start working on Google Cloud.

### Course Objectives

At the end of the course, participants will have knowledge of

- Identify the purpose and value of Google Cloud Platform products and services
- Interact with Google Cloud Platform services

### Pre-requisites

- Understanding of Application Development

### Course Contents

#### Module 1: Introducing Google Cloud Platform

Explain the advantages of Google Cloud Platform

Define the components of Google's network infrastructure

Understand the difference between Infrastructure-as-a-Service (IaaS) and Platform-as-a-Service (PaaS).

Lab: Sign Up for the Free Trial and Create a Project (20 Mins)

#### Module 2: Getting Started with Google Cloud Platform

Identify the purpose of projects on Google Cloud Platform.

Understand the purpose of and use cases for Identity and Access Management.

List the methods of interacting with Google Cloud Platform.

Lab: Getting Started with Google Cloud Platform. (30 Mins)

#### Module 3: Google App Engine and Google Cloud Datastore

Understand the purpose of and use cases for Google App Engine and Google Cloud Datastore.

Contrast the App Engine Standard environment with the App Engine Flexible environment.

Understand the purpose of and use cases for Google Cloud Endpoints.

Lab: Deploying Applications Using App Engine and Cloud Datastore.(40 Mins)

#### Module 4: Google Cloud Platform Storage Options

Understand the purpose of and use cases for: Google Cloud Storage, Google Cloud SQL, and Google Cloud Bigtable.

Learn how to choose between the various storage options on Google Cloud Platform.

Lab: Integrating Applications with Google Cloud Storage. (20Mins)

#### Module 5: Google Container Engine

Define the concept of a container and identify uses for containers.

Identify the purpose of and use cases for Google Container Engine and Kubernetes.

Deploying Applications Using Google Container Engine.

Lab : Creating cluster (30 Mins)

#### Module 6: Google Compute Engine and Networking

Identify the purpose of and use cases for Google Compute Engine.

Understand the various Google Cloud Platform networking and operational tools and services.

Lab: Deploying Applications Using Google Compute Engine.(20 Mins)

#### Module 7: Big Data and Machine Learning

Understand the purpose of and use cases for the products and service in the Google Cloud big data and machine learning platforms.

Lab: Getting Started with BigQuery.(0 Mins – decided to skip this)