

Baseline: Deploy & Develop

Introductory 12 Steps 7 hours 17 Credits

In this introductory-level quest, you will learn the fundamentals of developing and deploying applications on the Google Cloud Platform. You will get hands-on experience with the Google App Engine framework by launching applications written in languages like Python, Ruby, and Java (just to name a few). You will see first-hand how straightforward and powerful GCP application frameworks are, and how easily they integrate with GCP database, data-loss prevention, and security services.

Infrastructure Application Development

Prerequisites:

This Quest builds on a basic understanding of the Google Cloud Platform, the Console and its Services. It is recommended that the student have earned a Badge by completing the hands-on labs in the [GCP Essentials Quest](#) before beginning.

Quest Outline

[Google Cloud SDK: Qwik Start - Redhat/Centos](#)

In this hands-on lab you will learn how to perform basic tasks in Cloud Storage using the gsutil command-line tool. For a short preview, watch Cloud SDK - Essential Command-Line Tools for Google Cloud Platform.

30 minutes

Introductory

1 Credit

[App Engine: Qwik Start - Python](#)

This hands-on lab shows you how to create a small App Engine application that displays a short message. Watch the short video [Build Apps at Scale with Google App Engine](#).

20 minutes

Introductory

1 Credit

[App Engine: Qwik Start - Go](#)

This hands-on lab shows you how to create a small App Engine application that displays a short message. Watch the short video [Build Apps at Scale with Google App Engine](#).

20 minutes

Introductory

1 Credit

[App Engine: Qwik Start - Java](#)

This hands-on lab shows you how to create a small App Engine application that displays a short message. Watch the short video [Build Apps at Scale with Google App Engine](#).

30 minutes

Introductory

1 Credit

[App Engine: Qwik Start - PHP](#)

This hands-on lab shows you how to create a small App Engine application that displays a short message. Watch the short video [Build Apps at Scale with Google App Engine](#).

30 minutes

Introductory

1 Credit

[App Engine: Qwik Start - Ruby](#)

This hands-on lab shows you how to create a small App Engine application that displays a short message. Watch the short video [Build Apps at Scale with Google App Engine](#).

20 minutes

Introductory

1 Credit

[Cloud Source Repositories: Qwik Start](#)

In this lab you will create a local Git repository that contains files for a sample App Engine application, add a GCP repository as a remote, and push the contents of the local repository.

30 minutes

Introductory

1 Credit

[Container-Optimized OS: Qwik Start](#)

This hands-on lab shows you how to create Compute Engine instances running Container-Optimized OS. Watch the short video [Container-Optimized OS - Google's Solution for Containerized Workloads](#).

30 minutes

Introductory

1 Credit

[Datastore: Qwik Start](#)

This hands-on lab will show you how to store and query data in Google Cloud Datastore using the Google Cloud Platform.

30 minutes

Introductory

Free

[Cloud SQL for MySQL: Qwik Start](#)

Create a Google Cloud SQL MySQL instance and perform SQL operations using Google Cloud Platform Console and mysql client. Watch this short video, [Manage PostgreSQL and MySQL Databases Easily with Cloud SQL](#).

30 minutes

Introductory

1 Credit

[Cloud SQL for PostgreSQL: Qwik Start](#)

Create a Google Cloud SQL PostgreSQL instance. Perform SQL operations using the GCP Console and the psql client.

30 minutes

Introductory

1 Credit

[Data Loss Prevention: Qwik Start - Command Line](#)

In this lab you will set up the Data Loss Prevention API and use the API to inspect a string of data for sensitive information.

30 minutes

Introductory

Free

[Data Loss Prevention: Qwik Start - JSON](#)

The Data Loss Prevention API provides programmatic access to a powerful detection engine for privacy-sensitive data. In this lab, you will learn how to use this API to inspect a string of data for sensitive information.

30 minutes

Introductory

1 Credit

[Cloud Functions: Qwik Start - Command Line](#)

This hands-on lab shows you how to create and deploy a Cloud Function using the Cloud Platform Command Line. Watch the short video [Connect & Extend GCP Services with Google Cloud Functions](#).

30 minutes

Introductory

1 Credit

[Cloud Functions: Qwik Start - Console](#)

This hands-on lab shows you how to create and deploy a Cloud Function using the Cloud Platform Console. Watch the short video [Connect & Extend GCP Services with Google Cloud Functions](#).

15 minutes

Introductory

1 Credit

[Video Intelligence: Qwik Start](#)

In this lab use the Google Cloud Video intelligence app to extract metadata from a sample video file. Watch the short video [Google Cloud Video Intelligence - Search every moment of every video in your catalog](#).

30 minutes

Introductory

1 Credit

[Cloud Security Scanner: Qwik Start](#)

The Cloud Security Scanner identifies security vulnerabilities in your Google App Engine web applications.

30 minutes

Introductory

1 Credit

[Google Assistant: Qwik Start - Dialogflow](#)

In this lab you will learn the fundamentals of Google Assistant by building a quote generator application with Actions and Dialogflow.

30 minutes

Introductory

1 Credit

[Cloud Endpoints: Qwik Start](#)

In this lab you'll deploy a sample API with Google Cloud Endpoints.

50 minutes

Introductory

1 Credit

Quest Complete!

Congrats! You completed this quest and earned a badge. Become a cloud expert and start another.

