

Baseline: Infrastructure

Introductory 5 Steps 3 hours 8 Credits

If you are a novice cloud developer looking for hands-on practice beyond Google Cloud Essentials, this quest is for you. You will get practical experience through labs that dive into Cloud Storage and other key application services like Stackdriver and Cloud Functions. By taking this quest, you will develop valuable skills that are applicable to any Google Cloud initiative. [1-minute videos walk you through key concepts for these labs.](#)

Prerequisites:

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

Quest Outline

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

This hands-on lab shows you how to perform basic tasks in Cloud Storage using the Google Cloud Console. Watch the short video [Google Cloud Storage: Massive Scalability Plus More](#).

30 minutes

Introductory

1 Credit

[Cloud Storage: Qwik Start - CLI/SDK](#)

This hands-on lab shows you how to perform basic tasks in Cloud Storage using the gsutil command-line tool. Watch the short video [Google Cloud Storage: Massive Scalability Plus More](#).

30 minutes

Introductory

1 Credit

[Cloud IAM: Qwik Start](#)

Google Cloud IAM unifies access control for Cloud Platform services into a single system to present a consistent set of operations. Watch the short video [Manage Access Control with Google Cloud IAM](#).

45 minutes

Introductory

1 Credit

[Cloud Monitoring: Qwik Start](#)

This lab shows you how to monitor a Google Compute Engine virtual machine (VM) instance with Cloud Monitoring. Watch the short videos [Monitor Health of All Your Cloud Apps with Google Cloud monitoring](#) and [Monitor a VM Instance with Cloud monitoring, GCP Essentials](#).

50 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

[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

[Google Cloud Pub/Sub: Qwik Start - Console](#)

This hands-on lab shows you how to publish and consume messages with a pull subscriber, using the Google Cloud Platform Console. Watch the short video [Simplify Event Driven Processing with Cloud Pub/Sub](#).

30 minutes

Introductory

Free

[Google Cloud Pub/Sub: Qwik Start - Command Line](#)

This hands-on lab shows you how to publish and consume messages with a pull subscriber, using the Google Cloud command line. Watch the short video [Simplify Event Driven Processing with Cloud Pub/Sub](#).

30 minutes

Introductory

Free

[Google Cloud Pub/Sub: Qwik Start - Python](#)

In this lab, you learn about Pub/Sub and how to create a topic and subscriber with a Python script, and then publish and view messages. Watch the short video [Simplify Event Driven Processing with Cloud Pub/Sub](#).

30 minutes

Introductory

1 Credit

[Pub/Sub Lite: Qwik Start](#)

Pub/Sub Lite is a zonal service for messaging systems with predictable traffic patterns. In this lab you will create Lite topics and Lite subscriptions, then send and receive messages using the Pub/Sub Lite client library for Python.

30 minutes

Fundamental

1 Credit

Quest Complete!

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

