Perform Foundational Infrastructure Tasks in Google Cloud

Introductory 6 Steps 4 hours 10 Credits

Earn a **skill badge** by completing the **Perform Foundational Infrastructure Tasks in Google Cloud** quest, where you learn how to build and connect storage-centric cloud infrastructure using the basic capabilities of the of the following technologies: Cloud Storage, Identity and Access Management, Cloud Functions, and Pub/Sub.

A skill badge is an exclusive digital badge issued by Google Cloud in recognition of your proficiency with Google Cloud products and services and tests your ability to apply your knowledge in an interactive hands-on environment. Complete this skill badge quest, and the final assessment challenge lab, to receive a skill badge that you can share with your network.

Prerequisites:

Prior to enrolling in this skill badge quest, it is recommended that you complete the [Create and Manage Cloud Resources](#) quest.

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

[Perform Foundational Infrastructure Tasks in Google Cloud: Challenge Lab](#)

This challenge lab tests your skills and knowledge from the labs in the Baseline: Infrastructure quest. You should be familiar with the content of labs before attempting this lab.

1 hour   Introductory   3 Credits

Quest Complete!

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