

Quest

# Create and Manage Cloud Resources

📅 5 hours    ↗ Introductory    🆓 Free

Earn a **skill badge** by completing the **Create and Manage Cloud Resources** quest, where you learn how to do the following: Write `gcloud` commands and use Cloud Shell, create and deploy virtual machines in Compute Engine, run containerized applications on Google Kubernetes Engine, and configure network and HTTP load balancers.

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.



When you complete this activity, you can earn the badge displayed above! View all the badges you have earned by visiting your profile page. Boost your cloud career by showing the world the skills you have developed!

✓

Lab

## A Tour of Google Cloud Hands-on Labs

In this first hands-on lab you will access the Google Cloud Platform Console and use these basic Google Cloud features: Projects, Resources, IAM Users, Roles, Permissions, and APIs.

★★★★★ 30 minutes    Introductory    Free    🌐 ▼

✓

Lab

## Creating a Virtual Machine

In this hands-on lab, you'll learn how to create a Google Compute Engine virtual machine and understand zones, regions, and machine types. To preview, watch the short video [Create a Virtual Machine, GCP Essentials](#).

★★★★★ 40 minutes    Introductory    Free    🌐 ▼

OR

✓

Lab

## Compute Engine: Qwik Start - Windows

Google Compute Engine lets you create and run virtual machines on Google infrastructure. In this lab you create a Windows Server instance in the Google Compute Engine and access it with RDP. Watch a short preview, [Launch a Windows Server Instance, GCP Essentials](#).

★★★★★ 40 minutes    Introductory    Free    🌐 ▼

✓

Lab

## Getting Started with Cloud Shell and gcloud

In this hands-on lab you will learn how to connect to computing resources hosted on Google Cloud Platform via the web. You will also learn how to use Cloud Shell and the Cloud SDK `gcloud` command. For a preview, watch the short video [Get Started with Cloud Shell, GCP Essentials](#).

★★★★★ 45 minutes    Introductory    Free    🌐 ▼

✓

Lab

## Kubernetes Engine: Qwik Start

Google Kubernetes Engine provides a managed environment for deploying, managing, and scaling your containerized applications using Google infrastructure. This hands-on lab shows you how deploy a containerized application with Kubernetes Engine. Watch the short video [Manage Containerized Apps with Kubernetes Engine](#).

★★★★★ 30 minutes    Introductory    Free    🌐 ▼

✓

Lab

## Set Up Network and HTTP Load Balancers

In this hands-on lab, you'll learn how setup both network load balancers and HTTP load balancers for your application running in Compute Engine virtual machines.

★★★★★ 1 hour    Fundamental    Free    🌐 ▼

○

Lab

## Create and Manage Cloud Resources: Challenge Lab

This challenge lab tests your skills and knowledge from the labs in the **Create and Manage Cloud Resources quest**. **You should be familiar with the content of the labs before attempting this lab.**

★★★★★☆☆ 1 hour    Fundamental    Free    🌐 ▼

Unenroll from this Quest

Quest Info X

Available languages ▼

How do I earn a completion badge? ▼