



Cloud Hero Infra Skills

Course description

Learn the fundamentals of Google Cloud infrastructure by creating virtual machines, managing projects, using Cloud Shell and gcloud, deploying web servers, and running containerized workloads on Google Kubernetes Engine (GKE).

Through guided labs and real-world infrastructure challenges, learners will develop foundational cloud administration and infrastructure management skills that form the basis for more advanced Google Cloud learning paths.

- Course level: Introductory
- Duration: 1 day

Activities

This course includes gamified cloud hero learning experience, hands-on labs, infrastructure challenges, cloud console exercises, command-line workshops, kubernetes deployment activities, and real-world infrastructure scenarios to reinforce learning.

Course objectives

In this course, you will learn to:

- Navigate and manage resources in the Google Cloud Console.
- Create and manage virtual machines using Compute Engine.

- Use Cloud Shell and gcloud for cloud administration.
- Understand project management and resource organization.
- Configure user access and permissions.
- Deploy and manage web servers on Google Cloud.
- Deploy containerized applications using GKE.
- Build a strong foundation in cloud infrastructure management.

Key features

- Introduction to Google Cloud Infrastructure
- Google Cloud Console Navigation
- Virtual Machine Deployment
- Cloud Shell and Command-Line Administration
- Web Server Deployment
- Kubernetes Fundamentals
- Google Kubernetes Engine (GKE)
- Gamified Hands-On Learning

Intended audience

This course is intended for:

- Cloud Beginners
- Students
- IT Support Professionals
- System Administrators
- Infrastructure Engineers
- DevOps Beginners
- Professionals Starting Their Google Cloud Journey

Prerequisites

We recommend that attendees of this course have:

- No prior Google Cloud experience required.

- Familiarity with Linux text editors such as vim, nano, or emacs is helpful.
- Basic computer and networking knowledge recommended.

Products covered

- Cloud Shell
- Compute Engine
- Google Kubernetes Engine

Course outline

Module 01 - A Tour of Google Cloud Hands-on Labs

- Google Cloud Overview
- Cloud Console Navigation
- Resource Management
- Project Organization

Module 02 - Creating a Virtual Machine

- Compute Engine
- Virtual Machines
- Machine Configuration
- Cloud Infrastructure

Module 03 - Getting Started with Cloud Shell and gcloud

- Cloud Shell
- gcloud CLI
- Command-Line Administration
- Resource Management

Module 04 - Google Kubernetes Engine: Qwik Start

- Kubernetes Fundamentals
- Container Orchestration
- GKE Clusters
- Application Deployment

Certification details

Participants receive a Cloud Hero completion badge and recognition upon successful completion of all challenge activities.

FAQs

Who should attend this Cloud Hero?

This Cloud Hero is designed for individuals who are new to Google Cloud and want to build foundational infrastructure skills.

Is prior cloud experience required?

No. The challenge is specifically designed for beginners.

Is this a hands-on learning experience?

Yes. The Cloud Hero consists entirely of practical labs and challenge-based exercises.

What infrastructure topics are covered?

The course covers Google Cloud Console navigation, Compute Engine, Cloud Shell, gcloud CLI, and Kubernetes fundamentals.

Will I learn Kubernetes?

Yes. The course includes an introductory hands-on lab using Google Kubernetes Engine (GKE).

What products are used?

The challenge focuses on Cloud Shell, Compute Engine, and Google Kubernetes Engine.

How long does the Cloud Hero take?

The complete Cloud Hero experience takes approximately 175 minutes.

Will I receive a certificate?

Participants typically earn a Cloud Hero completion badge upon successful completion of all challenge activities.