

Google Cloud Skills Boost

[← Main menu](#)

Google Cloud Fundamentals: Core Infrastructure

[Course overview](#)

Course Introduction ^

[Course Introduction](#)

Introducing Google Cloud ^

[Cloud computing overview](#)[IaaS and PaaS](#)[The Google Cloud network](#)[Environmental impact](#)

Google Cloud Fundamentals: Core Infrastructure > Overview

Course

Google Cloud Fundamentals: Core Infrastructure

[Cloud Infrastructure](#) [Google Cloud Armor](#)These skills were generated by A.I. Do you agree this course teaches these skills? [Like](#) [Dislike](#)

5 hours Introductory 20 Credits +400 pts

Google Cloud Fundamentals: Core Infrastructure introduces important concepts and terminology for working with Google Cloud. Through videos and hands-on labs, this course presents and compares many of Google Cloud's computing and storage services, along with important resource and policy management tools.

Course complete

Google Cloud Fundamentals: Core Infrastructure



COMPLETION BADGE

Course Introduction

1/1 Videos

This section welcomes learners to the Google Cloud Fundamentals: Core Infrastructure course, and provides an overview of the course structure and goals.

Completed

Course Introduction 1 minute

Introducing Google Cloud

7/7 Videos 1/1 Quizzes

This section identifies some of the key benefits of using Google Cloud. It's here that we introduce the components of the Google network infrastructure, and explore the differences between infrastructure as a service (IaaS) and platform as a service (PaaS).

Completed

Cloud computing overview 3 minutes

IaaS and PaaS 2 minutes

The Google Cloud network 2 minutes

Environmental impact 1 minute

Security 5 minutes

Open source ecosystems 1 minute

Pricing and billing 3 minutes

Quiz 15 minutes

Resources and Access in the Cloud

5/5 Videos 1/1 Labs 1/1 Quizzes

This section explores how resources get organized with projects, and how access to those resources gets shared with the right part of a workforce through a tool called Identity and Access Management (IAM). It's also in this section that we identify different ways to interact with Google Cloud.

Completed



Video

[Google Cloud resource hierarchy](#) 5 minutes



Video

[Identity and Access Management \(IAM\)](#) 4 minutes



Video

[Service accounts](#) 1 minute



Video

[Cloud Identity](#) 1 minute



Video

[Interacting with Google Cloud](#) 3 minutes

REQUIRED



Lab

[Google Cloud Fundamentals: Getting Started with Cloud Marketplace](#)

25 minutes

In this lab you use Cloud Marketplace to quickly and easily deploy a LAMP stack on a Compute Engine instance. The Bitnami LAMP Stack provides a complete...

REQUIRED



Quiz

[Quiz](#) 15 minutes

Virtual Machines and Networks in the Cloud

7/7 Videos 1/1 Labs 1/1 Quizzes

This section of the course explores how Google Compute Engine works, with a focus on virtual networking.

Completed



Video

[Virtual Private Cloud networking](#) 2 minutes



Video

[Compute Engine](#) 4 minutes



Video

[Scaling virtual machines](#) 1 minute



Video

[Important VPC compatibilities](#) 1 minute

<input checked="" type="checkbox"/>	Video	Cloud Load Balancing 3 minutes
<input checked="" type="checkbox"/>	Video	Cloud DNS and Cloud CDN 1 minute
<input checked="" type="checkbox"/>	Video	Connecting networks to Google VPC 3 minutes
<input checked="" type="checkbox"/>	Lab	Getting Started with VPC Networking and Google Compute Engine 40 minutes In this lab, you create an auto-mode VPC network with firewall rules and 2 VM instances. Then, you explore the connectivity for the VM instances.
<input checked="" type="checkbox"/>	Quiz	Quiz 20 minutes

<h2>Storage in the Cloud</h2> <div style="display: flex; justify-content: space-between;">8/8 Videos1/1 Labs1/1 Quizzes</div> <p>This section of the course showcases five core Google Cloud storage products: Cloud Storage, Cloud Bigtable, Cloud SQL, Cloud Spanner, and Firestore.</p> <p><input checked="" type="checkbox"/> Completed</p>		
<input checked="" type="checkbox"/>	Video	Google Cloud storage options 1 minute
<input checked="" type="checkbox"/>	Video	Cloud Storage 4 minutes
<input checked="" type="checkbox"/>	Video	Cloud Storage: Storage classes and data transfer 4 minutes
<input checked="" type="checkbox"/>	Video	Cloud SQL 1 minute
<input checked="" type="checkbox"/>	Video	Cloud Spanner 1 minute
<input checked="" type="checkbox"/>	Video	Firestore 2 minutes

Video [Bigtable](#) 2 minutes

Video [Comparing storage options](#) 2 minutes

REQUIRED

Lab [Google Cloud Fundamentals: Getting Started with Cloud Storage and Cloud SQL](#) 50 minutes
In this lab, you create a Cloud Storage bucket and place an image in it. You'll also configure an application running in Compute Engine to use a database...

REQUIRED

Quiz [Quiz](#) 15 minutes

Containers in the Cloud

3/3 Videos 1/1 Quizzes

This section of the course explores containers and how they can be managed with Kubernetes and Google Kubernetes Engine.

Completed

Video [Introduction to containers](#) 2 minutes

Video [Kubernetes](#) 5 minutes

Video [Google Kubernetes Engine](#) 1 minute

REQUIRED

Quiz [Quiz](#) 10 minutes

Applications in the Cloud

2/2 Videos 1/1 Labs 1/1 Quizzes

The focus of this section of the course is developing applications in the cloud. It's here that we'll explore Cloud Run and CloudFunctions.

Completed

Video [Cloud Run](#) 3 minutes



Video

[Development in the cloud](#) 1 minute

REQUIRED



Lab

[Hello Cloud Run](#) 25 minutes

In this lab you'll learn how to get started with Cloud Run by deploying and running a stateless container serverless-ly (with the infrastructure abstracted...)

REQUIRED



Quiz

[Quiz](#) 15 minutes

Prompt Engineering



1/1 Videos

1/1 Quizzes

In this final section, we review what was presented in this course and discuss the next steps to continue your cloud learning journey.

🕒 Completed



Video

[Prompt Engineering](#) 12 minutes

REQUIRED



Quiz

[Module Quiz](#) 20 minutes

Course Summary



1/1 Videos

1/1 Documents

In this final section, we review what was presented in this course and discuss the next steps to continue your cloud learning journey.

🕒 Completed



Video

[Course summary](#) 3 minutes

Document

[Course resources](#) 30 minutes

Your Next Steps

[Resume module](#)



Badge

[Course Badge](#)



Survey

[Course Survey.](#)

Course Info



[Leave Course](#)