

Google Cloud Computing Foundations: Infrastructure in Google Cloud

The Google Cloud Computing Foundations courses are for individuals with little to no background or experience in cloud computing. They provide a detailed overview of concepts covering cloud basics, big data, and machine learning, and where and how Google Cloud fits in.

By the end of the course, learners will be able to articulate concepts around cloud computing, big data, and machine learning, and demonstrate some hands-on skills.

This course is part of a series of courses called Google Cloud Computing Foundations. The courses should be completed in the following order:

1. [Google Cloud Computing Foundations: Cloud Computing Fundamentals](#)
2. [Google Cloud Computing Foundations: Infrastructure in Google Cloud](#)
3. [Google Cloud Computing Foundations: Networking and Security in Google Cloud](#)
4. [Google Cloud Computing Foundations: Data, ML, and AI in Google Cloud](#)

This second course reviews implementing storage models, different application managed service options, and security administration in Google Cloud.

Congratulations! You finished this course.



You've earned a badge. Share this badge on your profile page.

Where Do I Store This Stuff?

This module explains how to implement a variety of structured and unstructured storage models.

DOCUMENT

[Welcome to the course!](#)

VIDEO

[Module 4 Introduction](#) 2 minutes

VIDEO

[Storage Options in the Cloud](#) 2 minutes

VIDEO

[Structured and Unstructured Storage in the Cloud](#) 2 minutes

VIDEO

[Unstructured Storage using Cloud Storage](#) 5 minutes

VIDEO

[Lab Intro: Cloud Storage - Qwikstart - CLI/SDK](#) 1 minute

HANDS-ON LAB

[Cloud Storage: Qwik Start - CLI/SDK](#) 30 minutes

VIDEO

[SQL Managed Services](#) 2 minutes

VIDEO Exploring Cloud SQL	1 minute
HANDS-ON LAB Cloud SQL for MySQL: Qwik Start	30 minutes
VIDEO Cloud Spanner as a Managed Service	3 minutes
VIDEO NoSQL Managed Services Options	1 minute
VIDEO Cloud Datastore a NoSQL Document Store	3 minutes
VIDEO Cloud Bigtable as a NoSQL Option	5 minutes
QUIZ Quiz: Where Do I Store This Stuff?	
VIDEO Module 4 Summary	1 minute

There's an API for That!

This module discusses the different application managed service options in the cloud.

VIDEO Module 5 Introduction	2 minutes
VIDEO The Purpose of APIs	2 minutes
VIDEO Cloud Endpoints	3 minutes
VIDEO Lab Intro: Cloud Endpoints - Qwik Start	1 minute
HANDS-ON LAB Cloud Endpoints: Qwik Start	50 minutes
VIDEO Using Apigee	2 minutes
VIDEO Managed Message Services	2 minutes
VIDEO Cloud Pub/Sub	6 minutes
VIDEO Lab Intro: Cloud Pub/Sub - Qwik Start – Python	1 minute

HANDS-ON LAB
[Google Cloud Pub/Sub: Qwik Start – Python](#) 30 minutes

QUIZ
[Quiz: There's an API for That!](#)

VIDEO
[Module 5 Summary](#) 1 minute

You Can't Secure the Cloud, Right?

This module outlines how security in the cloud is administered in Google Cloud, and provides the opportunity to earn a Google Cloud Skill Badge.

VIDEO
[Module 6 Introduction](#) 1 minute

VIDEO
[Introduction to Security in the Cloud](#) 3 minutes

VIDEO
[The Shared Security Model](#) 1 minute

VIDEO
[Encryption Options](#) 3 minutes

VIDEO
[Authentication and Authorization with Cloud IAM](#) 9 minutes

VIDEO
[Lab Intro: User Authentication - Identity-Aware Proxy](#) 2 minutes

HANDS-ON LAB
[User Authentication: Identity-Aware Proxy](#) 1 hour

VIDEO
[Lab Solution: User Authentication](#) 14 minutes

VIDEO
[Identify Best Practices for Authorization using Cloud IAM](#) 1 minute

HANDS-ON LAB
[Cloud IAM: Qwik Start](#) 45 minutes

QUIZ
[Quiz: You Can't Secure the Cloud Right?](#)

VIDEO
[Module 6 Summary](#) 1 minute

DOCUMENT
[Demonstrate your capabilities further!](#)