

Original page: <https://cloudskillsboost.google/paths/11> (<https://cloudskillsboost.google/paths/11>)

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# Google Cloud

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# Google Cloud

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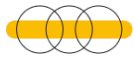
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Apply your skills in Google Cloud console



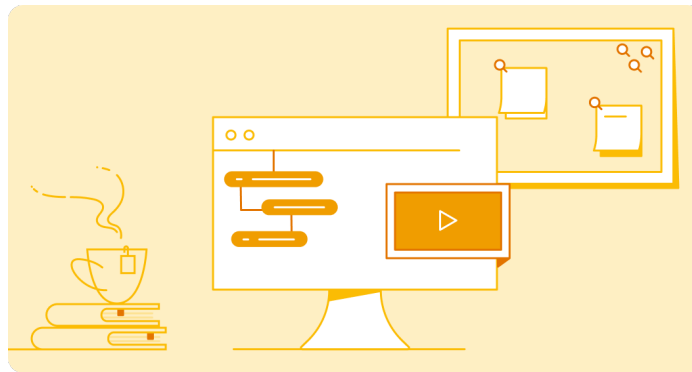
# Cloud Engineer Learning Path

A Cloud Engineer plans, configures, sets up, and deploys cloud solutions.

school	14 activities	update	Last updated 22 days	person	Managed by Google Cloud
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A Cloud Engineer plans, configures, sets up, and deploys cloud solutions. This learning path guides you through a curated collection of on-demand courses, labs, and skill badges that provide you with real-world, hands-on experience using Google Cloud technologies essential to the Cloud Engineering role. Once you complete the path, check out the Google Cloud Associate Cloud Engineer certification to take the next steps in your professional journey.

[Start learning path](#)



(/focuses/2794?parent=catalog&path=11)

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

book Lab

access\_time 45 minutes

show\_chart Introductory

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

Start lab

#### Course agenda

0	Introduction
1	Setting Up a Cloud Solution Environment
2	Planning and Configuring a Cloud Solution
3	Deploying and Implementing a Cloud Solution
4	Ensuring Successful Operation of a Cloud Solution
5	Configuring Access and Security
6	Your Next Steps



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## 02 Preparing for Your Associate Cloud Engineer Journey

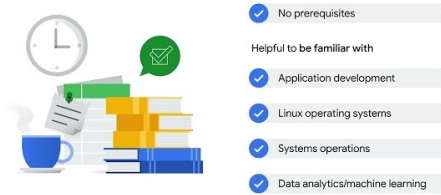
book Course

access\_time 7 hours 30  
minutes

show\_chart Intermediate

This course helps you structure your preparation for the Associate Cloud Engineer exam. You will learn about the Google Cloud domains covered by the exam and how to create a study plan to improve your domain knowledge.

Start course



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## 03 Google Cloud Fundamentals: Core Infrastructure

book Course

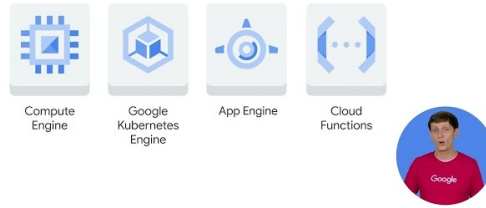
access\_time 5 hours

show\_chart Introductory

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...

Start course

Google Cloud offers a range of compute services



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## 04 Essential Google Cloud Infrastructure: Foundation

book Course

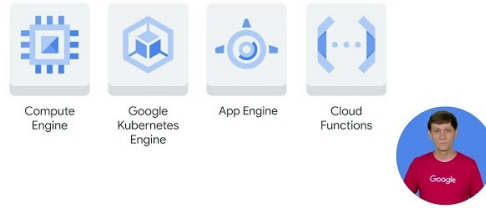
access\_time 6 hours 45  
minutes

show\_chart Intermediate

This accelerated on-demand course introduces participants to the comprehensive and flexible infrastructure and platform services provided by Google Cloud with a focus on Compute Engine. Through a combination of video lectures, demos, and hands-on labs, participants explore and deploy solution...

Start course

Google Cloud offers a range of compute services



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## 05 Essential Google Cloud Infrastructure: Core Services

book Course

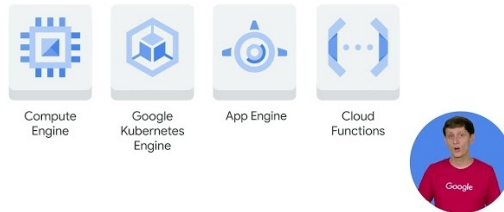
access\_time 8 hours 15  
minutes

show\_chart Intermediate

This accelerated on-demand course introduces participants to the comprehensive and flexible infrastructure and platform services provided by Google Cloud with a focus on Compute Engine. Through a combination of video lectures, demos, and hands-on labs, participants explore and deploy solution...

Start course

Google Cloud offers a range of compute services



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## 06 Elastic Google Cloud Infrastructure: Scaling and Automation

book Course

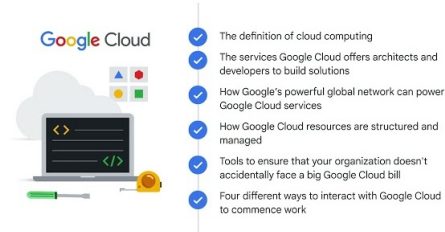
access\_time 7 hours

show\_chart Intermediate

This accelerated on-demand course introduces participants to the comprehensive and flexible infrastructure and platform services provided by Google Cloud. Through a combination of video lectures, demos, and hands-on labs, participants explore and deploy solution elements, including securely interconnecting networks, load...

Start course





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## 07 Getting Started with Google Kubernetes Engine

book Course

access\_time 5 hours 45  
minutes

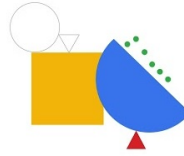
show\_chart Intermediate

Welcome to the Getting Started with Google Kubernetes Engine course. If you're interested in Kubernetes, a software layer that sits between your applications and your hardware infrastructure, then you're in the right place! Google Kubernetes Engine brings you Kubernetes as...

Start course

Google Cloud

Logging and Monitoring  
in Google Cloud



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## 08 Logging and Monitoring in Google Cloud

book Course

access\_time 8 hours 30  
minutes

show\_chart Introductory

This course teaches participants techniques for monitoring and improving infrastructure and application performance in Google Cloud. Using a combination of presentations, demos, hands-on labs, and real-world case studies, attendees gain experience with full-stack monitoring, real-time log management and analysis, debugging...

Start course

### Objectives

- 01 Install and manage Ops Agent to collect logs for Compute Engine
- 02 Use Google Cloud Managed Service for Prometheus
- 03 Analyze VPC Flow logs and Firewall Rules logs
- 04 Analyze resource utilization cost for monitoring related components within Google Cloud



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## 09 Observability in Google Cloud

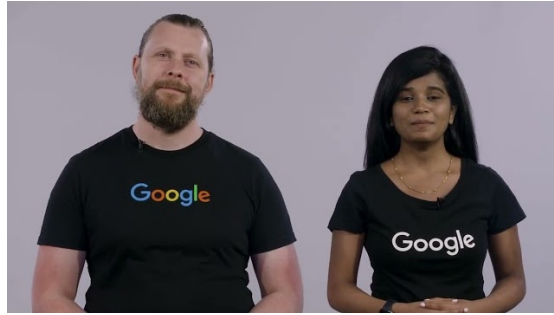
book Course

access\_time 6 hours 30 minutes

show\_chart Introductory

Welcome to the second part of the two part course, Observability in Google Cloud. This course is all about application performance management tools, including Error Reporting, Cloud Trace, and Cloud Profiler.

Start course



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## 10 Getting Started with Terraform for Google Cloud

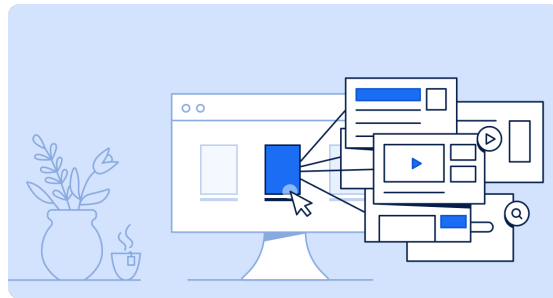
book Course

access\_time 6 hours 30  
minutes

show\_chart Introductory

This course provides an introduction to using Terraform for Google Cloud. It enables learners to describe how Terraform can be used to implement infrastructure as code and to apply some of its key features and functionalities to create and manage...

Start course



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## 11 Implementing Cloud Load Balancing for Compute Engine

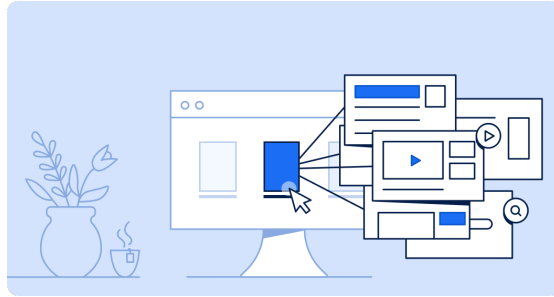
book Course

access\_time 1 hour 15  
minutes

show\_chart Introductory

Complete the introductory Implementing Cloud Load Balancing for Compute Engine skill badge to demonstrate skills in the following: creating and deploying virtual machines in Compute Engine and configuring network and application load balancers.

[Start course](#)



(/paths/11/course\_templates/637)

## 12 Set Up an App Dev Environment on Google Cloud

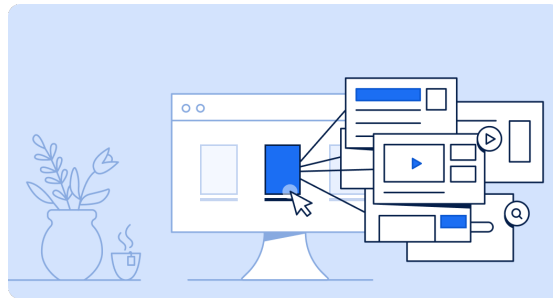
book Course

access\_time 4 hours

show\_chart Introductory

Earn a skill badge by completing the Set Up an App Dev Environment on Google Cloud course, where you learn how to build and connect storage-centric cloud infrastructure using the basic capabilities of the of the following technologies: Cloud Storage,...

Start course



(/paths/11/course\_templates/625)

## 13 Develop your Google Cloud Network

book Course

access\_time 6 hours

show\_chart Intermediate

Earn a skill badge by completing the Develop your Google Cloud Network course, where you learn multiple ways to deploy and monitor applications including how to: explore IAM roles and add/remove project access, create VPC networks, deploy and monitor Compute...

Start course