

# Google Cloud Computing Foundations: Networking and Security 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 third course covers how to build secure networks, and cloud automation and management tools.

**Congratulations! You finished this course.**



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

## It Helps to Network

This module demonstrates how to build secure networks in the cloud.

### DOCUMENT

[Welcome to the course!](#)

### VIDEO

[Module 7 Introduction](#)

2 minutes

### VIDEO

[Introduction to Networking in the Cloud](#)

1 minute

### VIDEO

[Defining a Virtual Private Cloud](#)

5 minutes

### VIDEO

[Public and Private IP Address Basics](#)

2 minutes

### VIDEO

[Google's Network Architecture](#)

2 minutes

### VIDEO

[Routes and Firewall Rules in the Cloud](#)

6 minutes

VIDEO <a href="#">Multiple VPC Networks</a>	<b>5 minutes</b>
VIDEO <a href="#">Lab Intro Multiple VPC Networks</a>	<b>1 minute</b>
HANDS-ON LAB <a href="#">Multiple VPC Networks</a>	<b>1 hour 11 minutes</b>
VIDEO <a href="#">Lab Solution: Multiple VPC Networks</a>	<b>28 minutes</b>
VIDEO <a href="#">Lab Intro: VPC Networks - Controlling Access</a>	<b>1 minute</b>
HANDS-ON LAB <a href="#">VPC Networks - Controlling Access</a>	<b>1 hour</b>
VIDEO <a href="#">Lab Solution: VPC Networks - Controlling Access</a>	<b>22 minutes</b>
VIDEO <a href="#">Building Hybrid Clouds using VPNs, Interconnecting, and Direct Peering</a>	<b>6 minutes</b>
VIDEO <a href="#">Different Options for Load Balancing</a>	<b>1 minute</b>
VIDEO <a href="#">Lab Intro: HTTP Load Balancer with Cloud Armor</a>	<b>1 minute</b>
HANDS-ON LAB <a href="#">HTTP Load Balancer with Cloud Armor</a>	<b>1 hour</b>
VIDEO <a href="#">Lab Solution: HTTP Load Balancer with Cloud Armor</a>	<b>30 minutes</b>
VIDEO <a href="#">Lab Intro: Create an Internal Load Balancer</a>	<b>1 minute</b>
HANDS-ON LAB <a href="#">Create an Internal Load Balancer</a>	<b>51 minutes</b>
VIDEO <a href="#">Lab Solution: Create an Internal Load Balancer</a>	<b>13 minutes</b>
QUIZ <a href="#">Quiz: It Helps to Network</a>	
VIDEO <a href="#">Module 7 Summary</a>	<b>1 minute</b>

# Let Google Keep an Eye on Things

This module identifies cloud automation and management tools, and provides the opportunity to earn a Google Cloud Skill Badge.

VIDEO

[Module 8 Introduction](#)

**1 minute**

VIDEO

[Introduction to Infrastructure as Code \(IaC\)](#)

**1 minute**

VIDEO

[Cloud Deployment Manager](#)

**2 minutes**

VIDEO

[Monitoring and Managing Your Services, Applications, and Infrastructure](#)

**1 minute**

VIDEO

[Cloud Monitoring \(formerly known as Stackdriver\)](#)

**8 minutes**

HANDS-ON LAB

[Cloud Monitoring: Qwik Start](#)

**50 minutes**

QUIZ

[Quiz: Let Google Keep an Eye on Things](#)

VIDEO

[Module 8 Summary](#)

**1 minute**

DOCUMENT

[Demonstrate your capabilities further!](#)