

Google Cloud Security Administrator

In this course, you will learn about the different components that make up the Google Cloud infrastructure and the security challenges these environments present, including high availability (HA), load balancing, and software-defined network (SDN) connectors, as well as how to manage traffic in the cloud with Fortinet products.

Product Version

- FortiOS 7.6
- FortiWeb 7.6

Course Duration

- Lecture time (estimated): 4 hours
- Lab time (estimated): 6 hours
- Total course duration (estimated): 10 hours
 - 2 full days or 3 half days

Who Should Attend

Anyone who is responsible for the deployment or day-to-day management of Fortinet solutions in Google Cloud should attend this course.

Certification

This course is intended to help you prepare for the FCP - *Google Cloud Security 7.6 Administrator* certification exam. This exam is part of the Fortinet Certified Professional - Public Cloud Security certification track.

Google Cloud Prerequisites

To run the labs in Google Cloud, students *must* have their own Google Cloud accounts with the following:

- A Google Cloud account with:
 - A free trial account with a valid payment method—some charges may still apply for deploying Fortinet and Microsoft Compute Engine instances
 - A paid cloud billing account with a valid payment method
- Permissions to enable APIs to deploy Fortinet products from Google Cloud Marketplace
- Permissions to allow metadata API access for Compute Engine
- Deployment service account (or permissions to create one) with the following roles:
 - config.agent
 - compute.networkAdmin
 - compute.admin
 - iam.serviceAccountUser
- Permissions to create the following:
 - New projects (optional)
 - Cloud storage bucket
 - Virtual private cloud (VPC) networks
 - Subnets
 - IP addresses
 - Firewall rules
 - Custom routes
 - Compute Engine VM instances from Google Cloud Marketplace (up to four vCPUs)
 - Instance groups
 - Health checks
 - Load balancers
- The ability to do the following:
 - Access Google Cloud Shell
 - Access Google Cloud Shell Editor
 - Clone a GitHub repository in Google Cloud Shell Editor
 - Deploy Terraform templates using Google Cloud Shell
 - Disable billing for projects (optional)
- Permissions to delete the following:
 - All resources created
 - Projects (optional)
 - Solution deployments
 - Deployments under Deployment Manager

The estimated cost per student for running the lab, if done within the specified lab times and everything is deleted at the end, is USD \$20 per day.

Agenda

1. Introduction to the Public Cloud
2. Google Cloud Components
3. Fortinet Products and Deployments for Google Cloud
4. Load Balancers in Google Cloud
5. High Availability in Google Cloud

Objectives

After completing this course, you should be able to:

- Explain the concept of the public cloud
- Define public cloud service terms
- Identify threats and challenges in the public cloud
- Secure Google Cloud
- Identify various public cloud deployment types
- Explain Fortinet licensing models
- Describe Fortinet GitHub
- Describe Google Cloud service components
- Identify Google Cloud core networking components
- Identify Google Cloud security components
- Identify FortiGate architectures
- Examine use cases for deploying FortiGate
- Describe traffic flow for FortiGate Google Cloud architectures
- Identify the Fortinet products on Google Cloud Marketplace
- Understand FortiGate Google Cloud SDN integration
- Identify Fortinet WAF solutions for Google Cloud
- Describe FortiWeb Cloud
- Identify different types of load balancers
- Understand various load balancing operations
- Understand symmetric hashing
- Explore load balancing NAT
- Identify supported protocols
- Explain different HA architectures in Google Cloud
- Describe FGCP A-P HA
- Describe FGSP A-A HA
- Define auto scaling in Google Cloud

Training Delivery Options and SKUs

Instructor-Led Training

Includes standard NSE training content delivered in person onsite, or live online using a virtual classroom application. Training is delivered within [public classes](#) or as a private class. Private requests are scoped, quoted, developed, and delivered by Fortinet Training (minimum quantities apply).

Contact your [Fortinet Resellers](#) or [Authorized Training Partners](#) to purchase this course.

Self-Paced Training

Includes online training videos and resources through the [Fortinet Training Institute](#) library, free of charge.

For training and lab SKUs, or additional purchasing information, refer to [Purchasing Process](#).

ISC2

- CPE training hours: 4
- CPE lab hours: 6
- CISSP domains: Communication and Network Security

Program Policies and FAQs

For questions about courses, certification, or training products, refer to [Program Policy Guidelines](#) or [Frequently Asked Questions](#).