Google Cloud

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Apply your skills in Google Cloud console

Network Engineer Learning Path

A Network Engineer configures, maintains, and troubleshoots network components of their cloud-based infrastructure.

school	15 activities	update	Last updated 21 days	person	Managed by Google Cloud

A Network Engineer configures, maintains, and troubleshoots network components of their cloud-based infrastructure. 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 Network Engineer role. Once you complete the path, check out the Google Cloud Network Engineer certification to take the next steps in your professional journey.

Start learning path

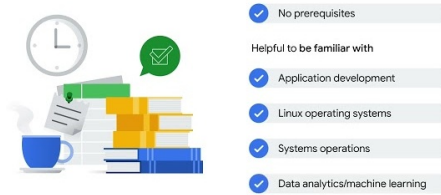# 01 Preparing for Your Professional Cloud Network Engineer Journey

book Course
access_time 24 hours
show_chart Advanced

This course helps you structure your preparation for the Professional 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

02 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

Learning Objective #02

Control administrative access to VPC objects.

(/paths/14/course_templates/35)

03 Networking in Google Cloud: Fundamentals

book Course
access_time 5 hours
show_chart Intermediate

Networking in Google cloud is a 6 part course series. Welcome to the first course of our six part course series, Networking in Google Cloud: Fundamentals. This course provides a comprehensive overview of core networking concepts, including networking fundamentals, virtual...

Start course

04 Networking in Google Cloud: Routing and Addressing

book Course
access_time 5 hours
show_chart Intermediate

Welcome to the second course in the networking and Google Cloud series routing and addressing. In this course, we'll cover the central routing and addressing concepts that are relevant to Google Cloud's networking capabilities. Module one will lay the foundation...

Start course

(/paths/14/course_templates/1143)

05 Networking in Google Cloud: Load Balancing

book Course
access_time 3 hours
show_chart Intermediate

This training course builds on the concepts covered in the Networking in Google Cloud: Fundamentals course. Through presentations, demonstrations, and labs, participants explore and implement Cloud Load Balancing.

Start course

(/paths/14/course_templates/1142)

06 Networking in Google Cloud: Network Security

book Course

access_time 6 hours 15 minutes

show_chart Intermediate

Welcome to the fourth course of the "Networking in Google Cloud" series: Network Security! In this course, you'll dive into the services for safeguarding your Google Cloud network infrastructure. The first module, Distributed Denial of Service (DDoS) Protection, covers how...

Start course

(/paths/14/course_templates/1144)

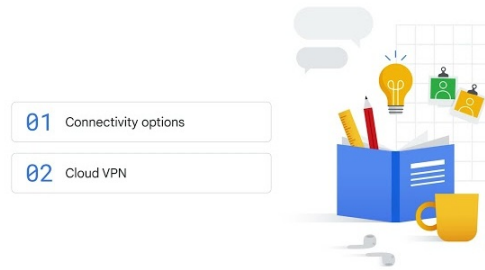# 07 Networking in Google Cloud: Network Architecture

book Course

access_time 2 hours 30 minutes

show_chart Intermediate

Welcome to the third course of the "Networking in Google Cloud" series: Network Architecture! In this course, you will explore the fundamentals of designing efficient and scalable network architectures within Google Cloud. In the first module, Introduction to Network Architecture,...

Start course

(/paths/14/course_templates/1145)

# 08 Networking in Google Cloud: Hybrid and Multicloud

book Course

access_time 2 hours 45 minutes

show_chart Intermediate

Welcome to the sixth course in our Networking and Google Cloud series, Hybrid and Multicloud. The first module will walk you through various cloud connectivity options, with a deep dive into Cloud Interconnect, exploring its different types and functionalities. In...

Start course
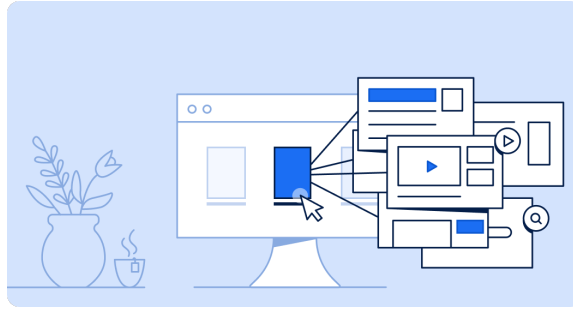
(/paths/14/course_templates/1202)

09 Introduction to Cloud Next Generation Firewall

book Course
access_time 30 minutes
show_chart Intermediate

This training course introduces Cloud NGFW. Topics include how Cloud NGFW provides centralized firewall management, centralized firewall visibility, advanced threat protection, and firewall insights.

Start course

(/paths/14/course_templates/1203)

10 Evaluate Your Cloud Next Generation Firewall Needs
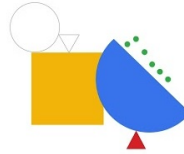
book Course
access_time 1 hour
show_chart Intermediate

Identify critical assets and their compliance requirements.

Start course

Google Cloud

Logging and Monitoring
in Google Cloud

11 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
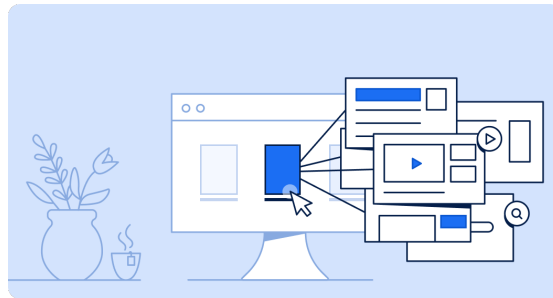
(/paths/14/course_templates/648)

12 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

# 13 Configure Google Kubernetes Engine Networking

book Course
access_time 8 hours
show_chart Introductory

This course teaches you some basic Google Kubernetes Engine (GKE) networking. With written lectures, hands-on lab exercises, and quizzes, you learn how to set up services, facilitate communication, and configure secure access to your GKE applications.

Start course
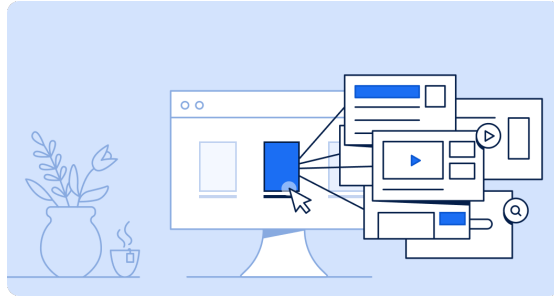
14 Build a Secure Google Cloud Network

book Course

access_time 6 hours 45 minutes

show_chart Intermediate

Earn a skill badge by completing the Build and Secure Networks in Google Cloud course, where you will learn about multiple networking-related resources to build, scale, and secure your applications on Google Cloud. A skill badge is an exclusive digital...

Start course