



Cloud Hero: IAM & Security Skills

Course description

Master Identity and Access Management (IAM), Custom Roles, Service Accounts, and VPC Network Peering to secure Google Cloud environments and build strong cloud security foundations.

Through guided labs and real-world security scenarios, learners will build the foundational skills required to secure cloud resources, enforce least-privilege access, and establish secure communication between cloud environments.

- Course level: Intermediate
- Duration: 1 day

Activities

This course includes gamified cloud hero learning experience, hands-on security labs, access control exercises, iam configuration workshops, networking challenges, security governance activities, and real-world security scenarios to reinforce learning.

Course objectives

In this course, you will learn to:

- Understand Google Cloud IAM fundamentals.
- Configure users, roles, and permissions securely.

- Create and manage custom IAM roles.
- Implement service accounts for application authentication.
- Apply least-privilege security principles.
- Configure secure network communication using VPC Peering.
- Understand cloud identity and access governance concepts.
- Strengthen cloud security posture using Google Cloud best practices.

Key features

- Identity and Access Management Foundations
- Custom Role Management
- Service Account Security
- Secure Resource Access
- VPC Security and Network Isolation
- Cloud Security Best Practices
- Practical Hands-On Challenges
- Cloud Security Foundations for Career Growth

Intended audience

This course is intended for:

- Cloud Administrators
- Security Analysts
- Cloud Engineers
- Infrastructure Engineers
- System Administrators
- DevOps Professionals
- Learners Pursuing Google Cloud Security Skills

Prerequisites

We recommend that attendees of this course have:

- Little to no prior IAM experience required.
- Familiarity with Cloud Storage is beneficial but not mandatory.

- Basic understanding of Google Cloud concepts is helpful.
- Familiarity with IAM roles is recommended.

Products covered

- Cloud Identity and Access Management (IAM)
- Virtual Private Cloud (VPC)

Course outline

Module 01 - Cloud IAM: Qwik Start

- IAM Fundamentals
- IAM Roles
- Permissions
- Access Control

Module 02 - IAM Custom Roles

- Custom Roles
- Permission Management
- Least Privilege Access
- Security Governance

Module 03 - Service Accounts and Roles: Fundamentals

- Service Accounts
- Authentication
- Authorization
- Service Account Permissions
- Workload Security

Module 04 - VPC Network Peering

- VPC Fundamentals
- Network Peering
- Private Connectivity
- Secure Network Communication

Certification details

Participants receive a Cloud Hero completion badge and recognition upon successful completion of all challenge activities.

FAQs

Who should attend this Cloud Hero?

This Cloud Hero is designed for learners who want to develop practical IAM and cloud security skills using Google Cloud.

Is prior IAM experience required?

No. The challenge is designed for learners with little to no prior IAM experience.

Is this a hands-on learning experience?

Yes. The Cloud Hero consists entirely of guided labs and challenge-based activities.

What security topics are covered?

The course covers IAM, custom roles, service accounts, access governance, authentication, authorization, and VPC Network Peering.

Will networking concepts be covered?

Yes. The course includes VPC Network Peering and secure network connectivity concepts.

What products are used?

The challenge primarily uses Google Cloud IAM and VPC services.

How long does the Cloud Hero take?

The complete challenge takes approximately 240 minutes.

Will I receive a certificate?

Participants typically earn a Cloud Hero completion badge upon successful completion of all challenge activities.