



GOOGLE CLOUD TRAINING

Google Infrastructure Security Management Course

Master Google Cloud infrastructure security. Learn to implement and manage robust security operations effectively.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level Google Infrastructure Security Management Course is meticulously designed to equip IT professionals with the essential knowledge and practical skills required to secure Google Cloud environments effectively. You will delve into the core principles of cloud security, understanding Google Cloud's shared responsibility model and how to implement robust security controls across your infrastructure. The course covers critical areas such as Identity and Access Management (IAM), comprehensive network security strategies including VPC Service Controls and Cloud Armor, and advanced data protection techniques utilizing encryption and Data Loss Prevention (DLP) services. Participants will gain hands-on experience with Google Cloud's native security tools, learning to configure security policies, monitor for threats using Security Command Center, and respond to incidents efficiently with Cloud Logging and Audit Logs. By mastering these technologies, you will be able to design, implement, and maintain a secure and compliant Google Cloud infrastructure. This training emphasizes best practices for safeguarding sensitive data, ensuring operational resilience, and mitigating potential risks in a dynamic cloud landscape. Upon completion, you will possess the expertise to significantly enhance the security posture of any organization leveraging Google Cloud. This translates into tangible professional benefits, including increased confidence in managing cloud security challenges, a deeper understanding of compliance requirements, and the ability to contribute strategically to secure cloud adoptions and migrations. It's an invaluable step for anyone looking to specialize in cloud security and advance their career within the Google Cloud ecosystem.

Duration	2 hours
Level	Intermediate
Vendor	Google Cloud

COURSE CURRICULUM

01 Module 1: Foundations of Google Cloud Security

- Google Cloud Security Principles and Shared Responsibility Model
- Organizational Policy and Resource Hierarchy
- Security Best Practices Frameworks (e.g., CIS Benchmarks for GCP)
- Introduction to Google Cloud's Global Infrastructure Security

02 Module 2: Identity and Access Management (IAM)

- Understanding IAM Roles and Permissions (Primitive, Predefined, Custom)
- Service Accounts and their Security Implications
- Managing Users, Groups, and Domains
- Implementing Least Privilege and Principle of Separation of Duties
- Multi-Factor Authentication (MFA) and Context-Aware Access

03 Module 3: Network Security on Google Cloud

- Virtual Private Cloud (VPC) Network Security
- Firewall Rules and Hierarchical Firewall Policies
- VPC Service Controls for Data Exfiltration Prevention
- Cloud Armor for DDoS Protection and WAF capabilities
- Private Google Access and Cloud VPN/Interconnect Security

04 Module 4: Data Protection and Compliance

- Data Encryption at Rest and in Transit (Customer-Managed, Customer-Supplied Keys)
- Cloud Data Loss Prevention (DLP) for Sensitive Data Discovery

- Managing Secrets with Secret Manager
- Compliance and Regulatory Considerations in GCP
- Data Residency and Sovereign Controls

05 Module 5: Security Operations and Monitoring

- Centralized Logging and Monitoring with Cloud Logging and Cloud Monitoring
- Cloud Audit Logs for Activity Tracking and Forensics
- Threat Detection and Alerting with Security Command Center
- Incident Response and Forensics in GCP
- Vulnerability Management and Patching Strategies for Compute Engine

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Google Cloud Security Engineer**
- > **Cloud Infrastructure Security Analyst**
- > **DevSecOps Specialist (GCP Focus)**

FREQUENTLY ASKED QUESTIONS

Q: What specific Google Cloud security services and tools will I master during this course?

This course provides in-depth practical experience with key Google Cloud security services including Identity and Access Management (IAM), VPC Service Controls, Cloud Armor, Security Command Center, Cloud Logging, Cloud Audit Logs, and Cloud Data Loss Prevention (DLP). You will learn to configure, deploy, and manage these tools to secure your Google Cloud infrastructure effectively, gaining expertise in threat detection, data protection, and access management within GCP.

Q: Is there a recommended prerequisite for enrolling in this intermediate Google Infrastructure Security Management course?

While not strictly mandatory, it is highly recommended that participants have a foundational understanding of Google Cloud Platform, including basic knowledge of core services like Compute Engine, Virtual Private Cloud (VPC), and Cloud Storage. Familiarity with general IT networking concepts and security principles will also be beneficial to maximize your learning experience in this intermediate-level course.

Q: How does this course contribute to preparing for the Google Cloud Professional Cloud Security Engineer certification?

This 'Google Infrastructure Security Management Course' is specifically designed to cover many of the core domains and practical skills tested in the Google Cloud Professional Cloud Security Engineer certification exam. By focusing on critical areas such as managing identity and access, defining network security, ensuring data protection, and logging/monitoring for threats, this course provides a strong practical foundation and deepens your understanding of the topics necessary to successfully pursue that advanced certification.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

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50+

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READY TO ENROL?

Take the next step in your technology career.

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