

Security Engineer

Level: Professional



The Google Cloud Professional Security Engineer works to verify all security controls for a company's cloud infrastructure. Exam takers should be prepared to design, develop, configure, and manage secure workloads and data access.

3+ years industry and 1+ years GCP experience recommended.
Exam length: Two hours | Available in: English, Japanese



Who Is It For?

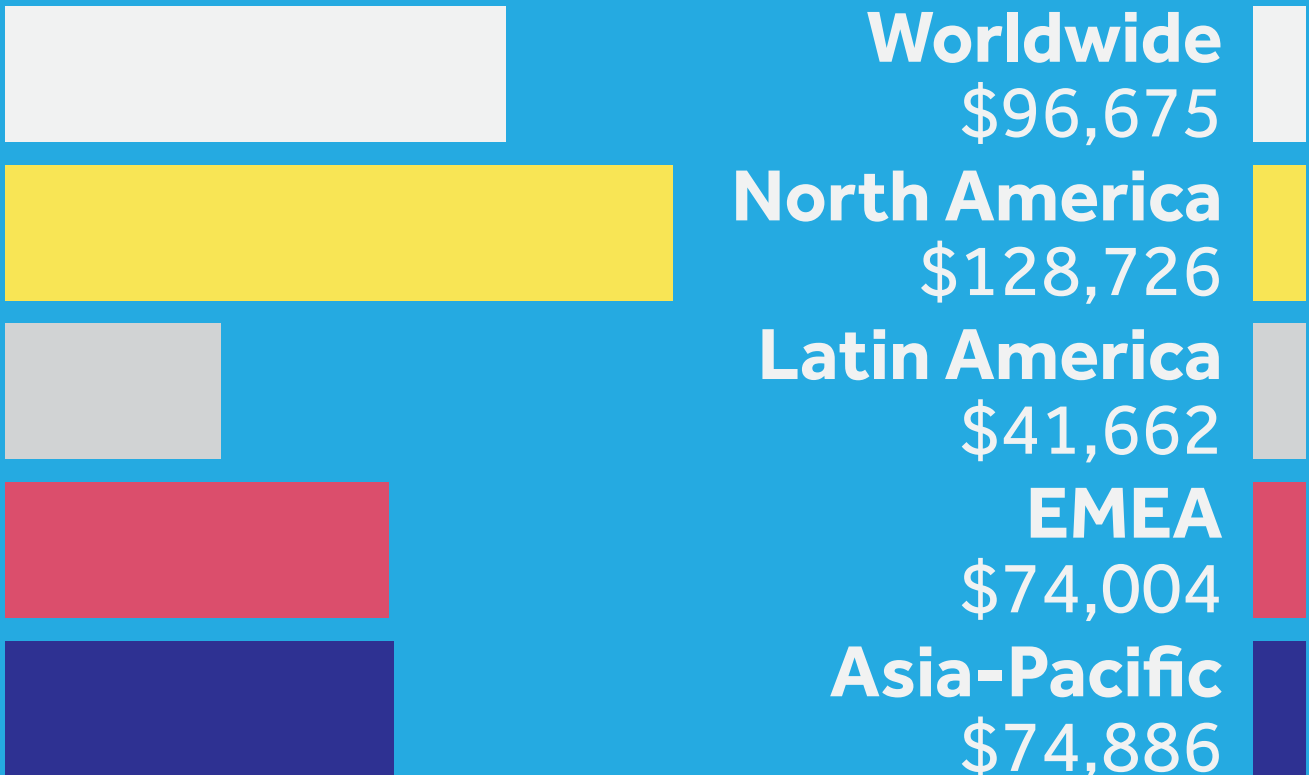
Security titles typically follow the formula below to create a variety of unique options.



Market Value



Cybersecurity is the **Most Popular Cross-Certification** for all IT professionals.



Average salaries (USD) across all cybersecurity and IT security professionals. Actual salaries vary by geography, industry, years of experience, and additional certifications.
Source: Global Knowledge

Exam Topics

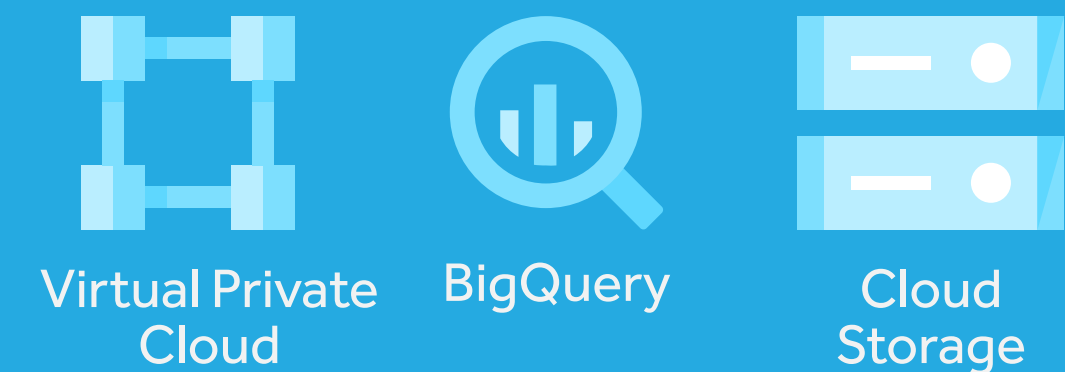
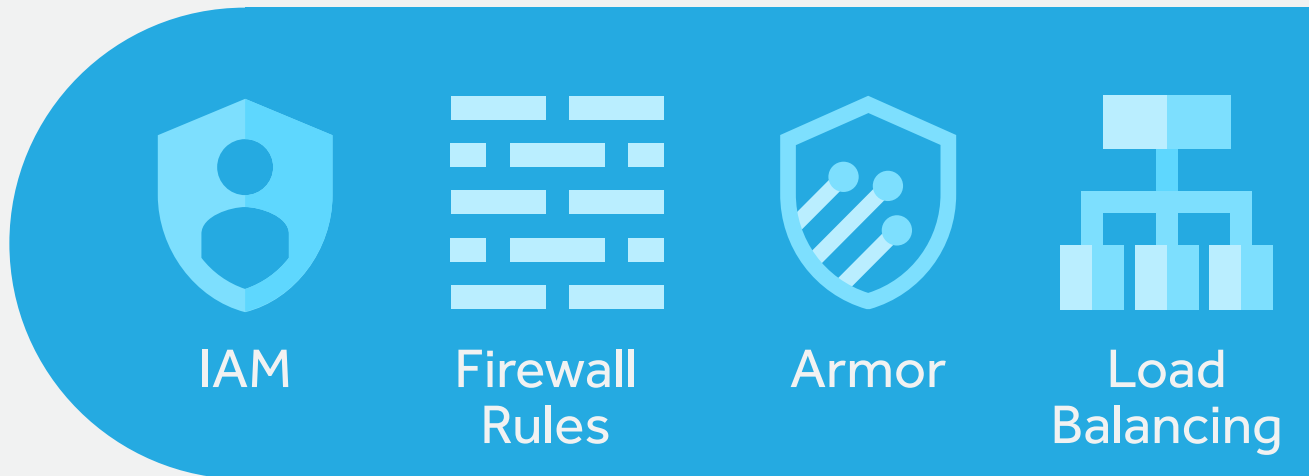
Put security best practices to work with Google Cloud products, including cloud identity and access management, network security, logs, incident reports, data protection, policy creation, and compliance.

Configuring Cloud Access

Service accounts and API access
Authentication and password policies
Authorization, permissions, and roles
Resource hierarchy and policies

Configuring Network Security

Perimeter controls, firewall, and load balancing
Segmentation, VPCs, and network isolation
Private connectivity, service, and access



Ensuring Data Protection

Personally Identifiable Information (PII)
VPC Service Controls and Secret Manager
Access to metadata and BigQuery datasets
Encryption keys and lifecycle policies

Managing Cloud Operations

Security scanning and patch management
Common Vulnerabilities and Exposures (CVEs)
Logging strategy, export, and analysis
Threat detection and security health analytics



Find study resources through Google Cloud's official exam guide, practice questions, and documentation. Additional prep courses are available through Coursera and Pluralsight.

Ensuring Compliance and Regulatory Requirements

Compute, data, and network resources
Security shared responsibility models
Cloud security controls