

Cloud Security Certification Guide

*Find the Cloud Security
Certification That's Right for You*

A man with glasses and a beard is shown in profile, looking at a computer monitor. He is wearing a dark blue shirt and a red tie. The background is a server room with blue lighting and multiple monitors displaying data.

Master *Tomorrow's* Cloud Security Skills, *Today.*

As commercial businesses and government organizations the world over continue to embrace cloud infrastructure, it's critical for cyber defense professionals to understand how to secure it. Prepare for what's certain to be a cloud - heavy future in cybersecurity by certifying with GIAC.

GIAC Certifications covers the airwaves between foundational cloud security concepts and more advanced topics and specialties such as cloud - specific penetration testing and forensics as well as DevSecOps automation.

GIAC's Cloud Security Certifications are designed to help you master the practical steps necessary for defending systems and applications in the cloud against the most dangerous threats. Earning GIAC certifications commands industry respect and validates you have the skills to ensure cloud security at any organization.



Why Certify with GIAC?

Research continually shows that credentialed employees are more empowered and contribute greater value to their organization.

Benefits for the Company

Performance

82%

of organizations seek candidates with credentials

Source: PearsonVue 2023 and 2022

"I value the instant respect and credibility GIAC professionals receive. People know you've worked hard to obtain the certification and they recognize the critical skills and knowledge that come with it."

Ben Boyle | GWAPT, GXPn, GPEN



The Testing Effect

Certifications are a critical part of cybersecurity training. Research shows the action of testing and taking an exam is shown to increase learning and retention levels.

Studies on the Testing Effect show that candidates recall 50% more of learned information by testing rather than studying.

Benefits for Students

Personal Validation

92%

of certified candidates say they are more confident in their abilities

Growth Opportunity

81%

of certified candidates have more confidence to explore growth opportunities

Source: PearsonVue 2023 and 2022



GWEB Web Application Defender Certification

- Web application architecture, authentication and authorization vulnerabilities, and defense and mitigation
- Proactive defense and operation security, AJAX and Web services security
- Clickjacking, DNS Rebinding, Flash, Java, SSO, and IPv6



NICE Framework Work Roles:

- Software Developer - SP-DEV-001
- Secure Software Assessor - SP-DEV-002
- Information Systems Security Developer - SP-SYS-001
- Systems Developer - SP-SYS-002
- Research & Development Specialist - SP-TRD-001

SANS Training Course:

Software Developer - SP-DEV-001

Get GWEB Certified

GCSA Cloud Security Automation Certification

- Using cloud services with Secure DevOps principles, practices, and tools to build and deliver secure infrastructure and software
- Automating configuration management, Continuous integration, continuous delivery, and continuous monitoring
- Use of open-source tools, the Amazon Web Services toolchain, and Azure services



NICE Framework Work Roles:

- Enterprise Architect - SP-ARC-001
- Software Developer - SP-DEV-001
- Information Systems Security Developer - SP-SYS-001
- Systems Developer - SP-SYS-002
- Research & Developmental Specialist - SP-TRD-001

SANS Training Course:

SEC540: Cloud Security and DevSecOps Automation

Get GCSA Certified



GCLD Cloud Security Essentials Certification

- Evaluation of cloud service provider similarities, differences, challenges, and opportunities
- Planning, deploying, hardening, and securing single and multi-cloud environments
- Basic cloud resource auditing, security assessment, and incident response



NICE Framework Work Roles:

- Security Architect - OPM 652
- Systems Security Analyst - OPM 461
- Information Systems Security Manager - OPM 722

SANS Training Course:

SEC488: Cloud Security Essentials

Get GCLD Certified

"The amount of knowledge from the class and hands-on modules are so on point, I keep revisiting the class materials on a weekly basis for work."

- Beeson Cho

GPCS Public Cloud Security Certification

- Evaluation and comparison of public cloud service providers
- Auditing, hardening, and securing public cloud environments
- Introduction to multi-cloud compliance and integration



NICE Framework Work Roles:

- Security Architect - SP-ARC-002
- Secure Software Assessor - SP-DEV-002
- Security Control Assessor - SP-RSK-002
- Information Systems Security Developer - SP-SYS-001

SANS Training Course:

SEC510: Public Cloud Security: AWS, Azure, and GCP

Get GPCS Certified



NEW! GCTD Cloud Threat Detection Certification



- Detecting attacks in the cloud
- Cloud investigations and cyber threat intelligence
- Assessments and automation in AWS and Azure

NICE Framework Work Roles:

- Cyber Defense Analyst - PR-CDA-001
- Cyber Defense Infrastructure Support Specialist - PR-INF-001
- Cyber Defense Incident Responder - PR-CIR-0001
- Adversary Emulation Specialist / Red Teamer - PR-VAM-001
- Threat/Warning Analyst - AN-TWA-001

SANS Training Course:

SEC541: Cloud Security Attacker Techniques, Monitoring, and Threat Detection

Get GCTD Certified

GCPN Cloud Penetration Tester Certification



- Cloud penetration testing fundamentals, environment mapping, and service discovery
- AWS and Azure Cloud Services and attacks
- Cloud-native applications with containers and CI/CD pipelines

NICE Framework Work Roles:

- Security Control Assessor - OPM 612
- System Testing and Evaluation Specialist - OPM 671
- Vulnerability Assessment Analyst - OPM 541
- Pen Tester - OPM 541
- Cyber Ops Planner - OPM 332

SANS Training Course:

SEC588: Cloud Penetration Testing

Get GCPN Certified



GCFR Cloud Forensics Responder Certification

- Log generation, collection, storage, and retention in cloud environments
- Identification of malicious and anomalous activity that affect cloud resources
- Extraction of data from cloud environments for forensic investigations



NICE Framework Work Roles:

- Cyber Defense Incident Responder - OPM 531
- Cyber Crime Investigator - OPM 221
- Law Enforcement / Counterintelligence Forensics Analyst - OPM 211
- Cyber Defense Forensics Analyst - OPM 212

SANS Training Course:

FOR509: Enterprise Cloud Forensics and Incident Response Certification

Get GCFR Certified

Get GIAC Certified Today

GIAC's certifications are created to match the needs of both the cybersecurity landscape and the cyber professionals practicing within it. Spanning the breadth of infosec, GIAC offers certification across various focus areas, including offensive operations, cyber defense, cloud security, DFIR, management, and ICS. To learn more about GIAC Certifications, please visit: www.giac.org



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