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# GIAC GCSA

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**GIAC Cloud Security Automation Certification Questions & Answers**

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Exam Summary – Syllabus – Questions

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**GCSA**

**[GIAC Cloud Security Automation \(GCSA\)](#)**

**75 Questions Exam – 61% Cut Score – Duration of 120 minutes**

## Table of Contents:

Know Your GCSA Certification Well: .....	2
GCSA GIAC Cloud Security Automation Certification Details: .....	2
GCSA Syllabus: .....	3
GIAC GCSA Sample Questions: .....	5
Study Guide to Crack GIAC Cloud Security Automation GCSA Exam: .....	8

## Know Your GCSA Certification Well:

The GCSA is best suitable for candidates who want to gain knowledge in the GIAC Cloud Security. Before you start your GCSA preparation you may struggle to get all the crucial GIAC Cloud Security Automation materials like GCSA syllabus, sample questions, study guide.

But don't worry the GCSA PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the GCSA syllabus?
- How many questions are there in the GCSA exam?
- Which Practice test would help me to pass the GCSA exam at the first attempt?

Passing the GCSA exam makes you GIAC Cloud Security Automation (GCSA). Having the GIAC Cloud Security Automation certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

## GCSA GIAC Cloud Security Automation Certification Details:

Exam Name	GIAC Cloud Security Automation (GCSA)
Exam Code	GCSA
Exam Price	\$979 (USD)
Duration	120 mins
Number of Questions	75
Passing Score	61%
Books / Training	<a href="#">SEC540: Cloud Security and DevSecOps Automation</a>
Schedule Exam	<a href="#">Pearson VUE</a>
Sample Questions	<a href="#">GIAC GCSA Sample Questions</a>
Practice Exam	<a href="#">GIAC GCSA Certification Practice Exam</a>

## GCSA Syllabus:

Topic	Details
Microservice Security	- The candidate will demonstrate an understanding of microservice architecture and implementation in a DevOps environment. The candidate will show familiarity with the architecture's attack surface and appropriate security controls used in various architectural designs and conditions.
Automated Remediation	- The candidate will show familiarity with event-based monitoring systems, alerting and security automation tools, and cloud management tools like Cloud Custodian.
Compliance as Code	- The candidate will demonstrate an understanding of the Secure DevOps auditing controls and how to leverage automated scanners to automate policy requirements.
Configuration Management as Code	- The candidate will demonstrate an understanding of managing infrastructure using programmable configuration management toolsets. The candidate will demonstrate an understanding of the new attack surfaces presented by CI, CD, and CM tools and familiarity with techniques for how to harden these tools.
Container Security	- The candidate will demonstrate an understanding of container security issues, hardening containerized environments, container orchestration tools, and running these workloads in the cloud.
Continuous Security Monitoring	- The candidate will demonstrate an understanding of what metrics and monitoring tools are needed to inform security efforts in cloud and DevOps environments. The candidate will show familiarity with how this data is collected, parsing log files, network collection, setting thresholds, and alerting the security team.
Deployment Orchestration and Secure Content Delivery	- The candidate will demonstrate an understanding of deployment patterns, such as canary and blue/green deployment processes, their benefits, and how to choose which approach is appropriate for a given situation. The candidate will demonstrate familiarity with the purposes and issues involved with using Content Delivery Networks (CDN). The candidate will show understanding of methods to safely bypass the Same Origin Policy, CDN configuration practices and issues, and demonstrate ways that access to CDN content can be controlled securely.
DevOps Fundamentals	- The candidate will demonstrate familiarity with Secure

Topic	Details
	DevOps fundamentals and culture, including terminology, automation, cloud infrastructure integration, and security risks.
DevSecOps Security Controls	- The candidate will demonstrate an understanding of the DevOps deployment pipeline and security considerations for each step of the Continuous Delivery and Continuous Integration processes.
Kubernetes Security	- The candidate will demonstrate an understanding of container runtimes and orchestrators, such as Kubernetes, and their security. The candidate will show familiarity with Kubernetes access control, namespaces, service accounts, secrets, and AWS and Azure Kubernetes Services, as well as container runtime security controls.
Runtime Security Protection	- The candidate will demonstrate an understanding of virtual patching in the cloud using Security as a Service, such as the Web Application Firewall. The candidate will demonstrate an understanding of how to configure those services to protect against common website attacks.
Secrets Administration	- The candidate will demonstrate an understanding of cloud secret keepers and vaults. The candidate will demonstrate an understanding of storing and retrieving sensitive data in these services.
Secure Infrastructure as Code	- The candidate will demonstrate an understanding of setting up and managing cloud infrastructure via code. The candidate will show familiarity with cloud provider and third-party tools used to manage cloud infrastructure resources.
Securing Cloud Architecture	- The candidate will demonstrate an understanding of securing cloud architecture using Continuous Integration / Continuous Deployment / Continuous Delivery pipelines. The candidate will show familiarity with Azure and AWS toolsets to track work items, code, test, build, and release, and how each stage is secured and automated.
Serverless Security	- The candidate will demonstrate familiarity with serverless architectures, their features, advantages, security concerns, and tactics for deploying effective security in serverless implementations.

## GIAC GCSA Sample Questions:

### Question: 1

Which of the following is a benefit of integrating security practices into container orchestration?

- a) It eliminates the need for security monitoring tools.
- b) It increases the number of undetected security incidents.
- c) It ensures that containers are always run as root.
- d) It allows for automated security scanning and policy enforcement.

**Answer: d**

### Question: 2

In the context of Compliance as Code, what role do policy definition languages play?

- a) They provide entertainment content for employees.
- b) They facilitate the creation of unambiguous compliance policies.
- c) They reduce the necessity for network security.
- d) They enhance the graphical user interface of management tools.

**Answer: b**

### Question: 3

During the deployment pipeline, what is a recommended security control for ensuring the authenticity of software packages?

- a) Digital signatures
- b) Encrypted file systems
- c) Regular password changes
- d) Session timeout policies

**Answer: a**

### Question: 4

Which security consideration is relevant during the Continuous Integration (CI) phase of DevOps?

- a) Network encryption
- b) Penetration testing
- c) User authentication
- d) Code analysis and scanning

**Answer: d**

**Question: 5**

Which of the following are key components of Kubernetes security?  
(Select all that apply)

- a) Namespaces
- b) Docker containers
- c) Service accounts
- d) Virtual machines

**Answer: a, c**

**Question: 6**

How can Kubernetes access control be configured to limit permissions within a cluster?

- a) Role-Based Access Control (RBAC)
- b) Service Mesh integration
- c) IP whitelisting
- d) Multi-factor authentication (MFA)

**Answer: a**

**Question: 7**

What is the primary purpose of securing cloud architecture using Continuous Integration / Continuous Deployment / Continuous Delivery pipelines?

- a) To slow down the deployment process
- b) To ensure that all changes to the codebase are tracked and tested
- c) To eliminate the need for security measures
- d) To increase manual intervention in the deployment process

**Answer: b**

**Question: 8**

What role does encryption play in serverless security?  
(Select all that apply)

- a) Encrypting data in transit and at rest
- b) Encrypting serverless function code
- c) Encrypting user authentication tokens
- d) Ignoring encryption to improve performance

**Answer: a, c**

**Question: 9**

Why is it important to apply Compliance as Code principles in cloud environments?

- a) To reduce cloud storage costs
- b) To improve the aesthetic appeal of applications
- c) To ensure cloud configurations meet regulatory and policy standards
- d) To increase the physical size of the cloud infrastructure

**Answer: c**

**Question: 10**

What are effective strategies for securing Configuration Management processes?

(Select all that apply)

- a) Regularly updating and patching CM tools and dependencies
- b) Restricting network access to essential services only
- c) Using weak passwords for enhanced usability
- d) Keeping default configurations for faster deployment

**Answer: a, b**



## Study Guide to Crack GIAC Cloud Security Automation GCSA Exam:

- Getting details of the GCSA syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the GCSA exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the GIAC provided training for GCSA exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the GCSA sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on GCSA practice tests is must. Continuous practice will make you an expert in all syllabus areas.

### Reliable Online Practice Test for GCSA Certification

Make EduSum.com your best friend during your GIAC Cloud Security Automation exam preparation. We provide authentic practice tests for the GCSA exam. Experts design these online practice tests, so we can offer you an exclusive experience of taking the actual GCSA exam. We guarantee you 100% success in your first exam attempt if you continue practicing regularly. Don't bother if you don't get 100% marks in initial practice exam attempts. Just utilize the result section to know your strengths and weaknesses and prepare according to that until you get 100% with our practice tests. Our evaluation makes you confident, and you can score high in the GCSA exam.

**Start Online practice of GCSA Exam by visiting URL**

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