

GIAC Cloud Security Essentials Certification



Online Course

ZETLAN TECHNOLOGIES
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GIAC Cloud Security Essentials Certification

Course Modules

1. Attacking the Cloud and Responding to Intrusions

Understanding of the overall process and considerations when conducting a penetration test or responding to an incident involving public cloud resources.

2. Cloud Account Fundamentals

Understanding of cloud identity fundamentals and access management principles. The candidate will show familiarity of security best practices to control access to a cloud environment using each identity type.

3. Cloud Automation

Understanding of provisioning and managing cloud infrastructure using Infrastructure as Code. The candidate will demonstrate familiarity with using automation practices to support continuous and repeatable evaluation tasks.



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4. Cloud Logging Fundamentals

Familiarity with cloud logging capabilities and methods to collect logs in a way to facilitate utility and dissemination.

5. Cloud Networking Technology

Demonstrate knowledge of fundamental network security concepts and the implementation of these principles using cloud resources.

6. Containers and Cloud Storage

Demonstrate familiarity with serverless compute resources, container technologies, and how each can be orchestrated to achieve elasticity. The candidate will demonstrate familiarity with cloud storage options and how to architect these resources securely.

7. Discovering and Storing Sensitive Data

Understanding of data security considerations in a multi-tenant environment and how to configure and monitor cloud resources to deter data leakage using encryption and data loss prevention strategies.



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8. External access and IAM Best Practices

Understanding of the security considerations when integrating 3rd party services with a cloud environment and the proper steps to evaluate the resiliency of the integration configuration.

9. Frameworks for Built-in Security

- o Understanding of system development life cycles and AppSec frameworks to create a baseline configuration with security built-in.
- o The candidate will demonstrate familiarity with continuous integration and continuous deployment.

10. Network Security Monitoring in the Cloud

- o Basic knowledge of the collection and interpretation of network flow data and packet capturing using cloud resources.
- o Familiarity with using network security monitoring practices to enhance detection and response capabilities in the cloud.

11. Risk Management and Compliance

- o Understanding of regulatory, compliance, security assurance, and risk management requirements and the best practices and frameworks for addressing these considerations.



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12. Secrets Management

- o Knowledge of the responsibilities and capabilities to securing user secrets.
- o Familiarity of the integration process for a variety of authentication mechanisms in a cloud environment.

13. Secure Compute Deployment

- o Fundamental knowledge of resource allocation and image evaluation when deploying cloud compute resources.
- o Ability to maintain the compute resource attack surface through automation practices and patch management.

14. Securing Cloud Networks

- o Understanding of network isolation and remote access.
- o Fundamental knowledge of common attacks against cloud resources and best practices to protect against them.

15. Understanding Shared Responsibility & Threat Informed Defense

- o Basic knowledge of using the practice of threat modeling to architect threat informed defenses for cloud resources.
- o Understanding of the various service delivery models and shared responsibility for each when using a public cloud service.



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16. Using Sensitive Data

- o Understanding of cloud resource elasticity and high availability functionality.
- o Fundamental knowledge of securing data in transit between cloud resources and application users.

The logo for Zetlan Technologies features a large, stylized, light gray letter 'Z' with a modern, geometric design. To the left of the 'Z' are three light gray circles of varying sizes, arranged in a cluster. Below the 'Z' is the company name 'Zetlan Technologies' in a light gray, sans-serif font.

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