GIAC Public Cloud Security

Online Course

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Course Modules

1.Cloud Data Protection

Understanding of key management systems and the steps necessary to assess and secure them. The candidate will demonstrate familiarity with using encryption services to secure sensitive data stored in cloud platforms.

2.Cloud Identity and Access Management

Understanding of cloud Identity and Access Management (IAM), its security concerns, & the steps necessary to secure IAM policies.

3.Cloud Integration and Benchmarking

o Familiarity with the tools and services available to audit cloud environments for compliance with various benchmarks.

o Familiarity with best practices for storinglong-term credentials.

o Understanding of cloud end-user identity management solns and cloud single sign-on solutions.

4.Multicloud and Credential Management Fundamentals

   o Understanding of the security concerns of the current public cloud landscape.

   o Understanding of instance metadata APIs, how they can be used in credential-based attacks, and how to assess their security.

5.Securely Accessing Cloud Services

   Familiarity with private service endpoints and with securing remote administrative access to cloud platforms.

6.Securing Cloud Application Service Platforms

   Familiarity with cloud application services and how to harden common configurations. The candidate will demonstrate an understanding of Google's Firebase database offering and how to harden common configurations.

7.Securing Cloud Storage Platforms

   Understanding of how to secure cloud storage services. Understanding of the data exfiltration risks associated with these services.

8.Securing Serverless Functions

   o Familiarity with serverless architectures & how to assess these environments for security misconfigurations.

   o Understanding of how to harden serverless functions against persistence attacks.

9.Virtual Network Security and Logging

   o Understanding of default virtual private network settings and the steps necessary to secure them.

   o understanding of virtual network logging and monitoring capabilities.

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The efficiency of online learning in terms of time management, flexibility, and the ability to access resources anytime, anywhere can be compelling.

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