



Online Course

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Course Modules

1. Microservice Security

- o Understanding of microservice architecture and implementation in a DevOps environment.
- o Architecture's attack surface and appropriate security controls used in various architectural designs and conditions.

2. Automated Remediation

o Event-based monitoring systems, alerting and security automatn tools, and cloud management tools like Cloud Custodian.

3. Compliance as Code

o Understanding of the Secure DevOps auditing controls and how to leverage automated scanners to automate policy requirements.

4. Configuration Management as Code

- o Understanding of managing infrastructure using programmable configuration management toolsets.
- o Understanding of the new attack surfaces presented by CI, CD, and CM tools and familiarity with techniques for how to harden these tools.

5. Container Security

o Understanding of container security issues, hardening containerized environments, container orchestration tools, and running these workloads in the cloud.

6. Continuous Security Monitoring

- o Understanding of what metrics and monitoring tools are needed to inform security efforts in cloud and DevOps environments.
- o How this data is collected, parsing log files, network collection, setting thresholds, and alerting the security team.

7. Deployment Orchestration and Secure Content Delivery

- o 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.
- o Demonstrate familiarity with the purposes and issues involved with using Content Delivery Networks (CDN).
- o Understanding of methods to safely bypass the Same Origin Policy, CDN configuration practices and issues, & demonstrate ways that access to CDN content can be controlled securely.

8. DevOps Fundamentals

Familiarity with Secure DevOps fundamentals and culture, including terminology, automation, cloud infrastructure integration, & security risks.

9. DevSecOps Security Controls

Understanding of the DevOps deployment pipeline and security considerations for each step of the Continuous Delivery and Continuous Integration processes.

10. Kubernetes Security

- o Understanding of container runtimes and orchestrators, such as Kubernetes, and their security.
- o Familiarity with Kubernetes access control, namespaces, service accounts, secrets, and AWS and Azure Kubernetes Services, as well as container runtime security controls.

11. Runtime Security Protection

- o Understanding of virtual patching in the cloud using Security as a Service, such as the Web Application Firewall.
- o Understanding of how to configure those services to protect against common website attacks.

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12. Secrets Administration

- o Understanding of cloud secret keepers and vaults.
- Understanding of storing and retrieving sensitive data in these services.

13. Secure Infrastructure as Code

- o Understanding of setting up and managing cloud infrastructure via code.
- o Cloud provider and third-party tools used to manage cloud infrastructure resources.

14. Securing Cloud Architecture

- o Securing cloud architecture using Continuous Integration / Continuous Deployment / Continuous Delivery pipelines.
- o Azure and AWS toolsets to track work items, code, test, build, and release, and how each stage is secured and automated.

15. Serverless Security

o Serverless architectures, their features, advantages, security concerns, and tactics for deploying effective security in serverless implementations.







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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