Training: AWS
AWS Security Best Practices

TRAINING GOALS:

This course provides an overview of some of the best practices for using AWS security services and control mechanisms. This course helps you understand your responsibilities, while providing valuable guidelines for how to keep your workload safe and secure. You learn how to secure your network infrastructure using sound design options. You also learn how you can harden your compute resources and manage them securely. Finally, this course helps you understand AWS monitoring and alerting so you can detect and alert on suspicious events. This will help you quickly begin the response process in the event of a potential compromise.

Course objectives

In this course, you learn to do the following:

- Design and implement a secure network infrastructure
- Design and implement compute security
- Design and implement a logging solution

Intended audience

This course is intended for:

- Solutions architects and security engineers

CONSPECT:

- Module 1: Security Overview
  - Shared Responsibility Model
  - Customer Challenges
  - Frameworks and Standards
  - Establishing Best Practices
  - Compliance in AWS
- Module 2: Securing the Network

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ul. Tatarska 5, 30-103 Kraków, tel.: (12) 298 47 77
ul. Postępu 18B, 02-676 Warszawa, tel.: (22) 417 41 70

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- Flexible and Secure
- DNS Operations and Security
- Security Inside the VPC
- Security Services
- Demo: AWS WAF
- Third-Party Security Solutions

- Lab 1: Controlling the Network
- Module 3: Compute Security
  - Introduction to Compute Security
  - Compute Hardening
  - Demo: Downloading and Viewing the STIG Library
  - Amazon EBS Encryption
  - Demo: AWS KMS
  - Secure Management and Maintenance
  - Detecting Vulnerabilities
  - Using AWS Marketplace
- Lab 2: Securing the Endpoint
- Module 4: Monitoring and Alerting
  - Logging Network Traffic
  - Logging User and API Traffic
  - Log Analytics
  - Visibility with Amazon CloudWatch
  - Enhancing Monitoring and Alerting
  - Auditing Your AWS Environment
- Lab 3: Security Monitoring

REQUIREMENTS:

Recommended prerequisites:

- AWS Security Fundamentals course or AWS Security Essentials course
- A strong background in information security concepts, techniques, and paradigms in the area of networking, operating systems, data encryption, and operational controls

Difficulty level



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CERTIFICATE:

The participants will obtain certificates signed by AWS (course completion).

TRAINER:

AWS Authorized Instructor (AAI)

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