

kod szkolenia: AWS-SEC / PL AA 3d

Security Engineering on AWS

This course demonstrates how to efficiently use AWS security services to stay secure in the AWS Cloud. The course focuses on the security practices that AWS recommends for enhancing the security of your data and systems in the cloud. It highlights the security features of AWS key services including compute, storage, networking, and database services. You will also learn how to leverage AWS services and tools for automation, continuous monitoring and logging, and responding to security incidents.





Przeznaczenie szkolenia

This course is intended for security engineers, security architects, and information security professionals.



Korzyści wynikające z ukończenia szkolenia

In this course, you will:

- Identify security benefits and responsibilities of using the AWS Cloud
- Build secure application infrastructures
- Protect applications and data from common security threats
- Perform and automate security checks
- Configure authentication and permissions for applications and resources
- Monitor AWS resources and respond to incidents
- Capture and process logs
- Create and configure automated and repeatable deployments with tools such as AMIs and AWS CloudFormation





Oczekiwane przygotowanie słuchaczy

We recommend that attendees of this course have:

- Working knowledge of IT security practices and infrastructure concepts
- Familiarity with cloud computing concepts
- Completed AWS Security Essentials and Architecting on AWS instructor-led course



Język szkolenia

Szkolenie : polskiMateriały: angielski



Czas trwania

3 dni / 21 godzin

Agenda szkolenia

Module 1: Security on AWS

- · Security in the AWS cloud
- AWS Shared Responsibility Model
- Incident response overview
- DevOps with Security Engineering

Module 2: Identifying Entry Points on AWS

- Identify the different ways to access the AWS platform
- Understanding IAM policies
- IAM Permissions Boundary
- IAM Access Analyzer
- Multi-factor authentication
- AWS CloudTrail
- Lab 01: Cross-account access

Module 3: Security Considerations: Web Application Environments

• Threats in a three-tier architecture



- Common threats: user access
- Common threats: data access
- AWS Trusted Advisor

Module 4: Application Security

- Amazon Machine Images
- Amazon Inspector
- AWS Systems Manager
- Lab 02: Using AWS Systems Manager and Amazon Inspector

Module 5: Data Security

- Data protection strategies
- Encryption on AWS
- Protecting data at rest with Amazon S3, Amazon RDS, Amazon DynamoDB
- Protecting archived data with Amazon S3 Glacier
- Amazon S3 Access Analyzer
- Amazon S3 Access Points

Module 6: Securing Network Communications

- Amazon VPC security considerations
- Amazon VPC Traffic Mirroring
- Responding to compromised instances
- Elastic Load Balancing
- AWS Certificate Manager

Module 7: Monitoring and Collecting Logs on AWS

- Amazon CloudWatch and CloudWatch Logs
- AWS Config
- Amazon Macie
- Amazon VPC Flow Logs
- Amazon S3 Server Access Logs
- ELB Access Logs
- Lab 03: Monitor and Respond with AWS Config

Module 8: Processing Logs on AWS

- Amazon Kinesis
- Amazon Athena
- ab 04: Web Server Log Analysis

Module 9: Security Considerations: Hybrid Environments

- AWS Site-to-Site and Client VPN connections
- AWS Direct Connect
- AWS Transit Gateway

Module 10: Out-Of-Region Protection

- Amazon Route 53
- AWS WAF
- Amazon CloudFront



- AWS Shield
- AWS Firewall Manager
- DDoS mitigation on AWS