

Security Engineering on AWS

Course Benefits & Agenda



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Overview

Security Engineering on AWS 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. The course 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.

Course Benefits

This course is designed to teach the student how to:

- 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 and AWS resources and respond to incidents
- Capture and process logs

Agenda

Day 1

Module	Topic
Module 1	Security on AWS
Module 2	Identifying Entry Points on AWS
Lab 1	Cross-Account Authentication
Module 3	Security Considerations: Web Applications
Module 4	Application Security
Lab 2	Using AWS Systems Manager and Amazon Inspector
Module 5	Data Security

Day 2

Module	Topic
Module 6	Securing Network Communications
Module 7	Monitoring and Logging on AWS
Module 8	Processing Logs on AWS
Lab 3	Monitor and Respond with AWS Config
Module 9	Security Considerations: Hybrid Environments
Lab 4	Web Server Log Analysis with Amazon Kinesis and Amazon Athena
Module 10	Out-of-Region Protection

Agenda

Day 3

Module	Topic
Module 11	Security Considerations: Serverless Environments
Module 12	Threat Detection and Investigation
Module 13	Secrets Management on AWS
Module 14	Automation and Security by Design
Lab 5	Using AWS KMS
Module 15	Account Management and Provisioning on AWS
Lab 6	Using AWS Service Catalog
Module 16	Account Management and Provisioning on AWS
Lab 7	AWS Federated Authentication with AD FS