

SUPPLEMENT

Cloud Environment Configuration and Security

Number of Hours 120

Number of ECTS Credits 4

COURSE CONTENT

Basic topics:

- Introduction to security on AWS
- Security in the AWS Cloud
- Security design principles
- Shared responsibility model
- Securing access to cloud resources
- Work with IAM
- Authentication and access management services
- Securing your infrastructure
- Structure of three tier web application
- Setting up public and private subnets and internet protocols
- Using AWS Security groups
- Using AWS network ACLs
- Using AWS load balancers
- Protecting data in your application
- Amazon S3 protection features
- Protecting through encryption
- Protect data in transit

- Logging and monitoring
- Responding to and managing an incident

LEARNING OUTCOMES

The graduate is able to:

- Identify security benefits and responsibilities of using the Amazon Web Services (AWS) Cloud
- Use the identity and access management features of AWS
- Describe how to secure network access to AWS resources
- Describe how to distribute traffic with load balancers
- Explain the available methods for encrypting data at rest and data in transit
- Describe how to collect data about activity and events
- Determine which AWS services can be used for monitoring
- Determine which AWS services can be used for incident response

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