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 AIM

· 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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Mar 13, 2024 – Apr 08, 2024