AWS Security Best Practices (SBP)

ID SBP **Price** CHF 870.—(excl. VAT) **Duration** 1 day

Who should attend

This course is intended for:

- Solutions architects, cloud engineers, including security engineers, delivery and implementation engineers, professional services, and Cloud Center of Excellence (CCOE)

This course is part of the following Certifications

AWS Certified Advanced Networking – Specialty (ACANS)

Prerequisites

Before attending this course, participants should have completed the following:

- AWS Security Fundamentals
- AWS Security Essentials (SEC-ESS)

Course Objectives

In this course, you will learn to:

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

Course Content

Module 1: AWS Security Overview

- Shared responsibility model
- Customer challenges
- Frameworks and standards
- Establishing best practices
- Compliance in AWS

Module 2: Securing the Network

- Flexible and secure
- Security inside the Amazon Virtual Private Cloud (Amazon VPC)
- Security services
- Third-party security solutions

Lab 1: Controlling the Network

- Create a three-security zone network infrastructure.
- Implement network segmentation using security groups, Network Access Control Lists (NACLs), and public and private subnets.
- Monitor network traffic to Amazon Elastic Compute Cloud (EC2) instances using VPC flow logs.

Module 3: Amazon EC2 Security

- Compute hardening
- Amazon Elastic Block Store (EBS) encryption
- Secure management and maintenance
- Detecting vulnerabilities
- Using AWS Marketplace

Lab 2: Securing the starting point (EC2)

- Create a custom Amazon Machine Image (AMI).
- Deploy a new EC2 instance from a custom AMI.
- Patch an EC2 instance using AWS Systems Manager.
- Encrypt an EBS volume.
- Understand how EBS encryption works and how it impacts other operations.
- Use security groups to limit traffic between EC2 instances to only that which is encrypted.

Module 4: Monitoring and Alerting

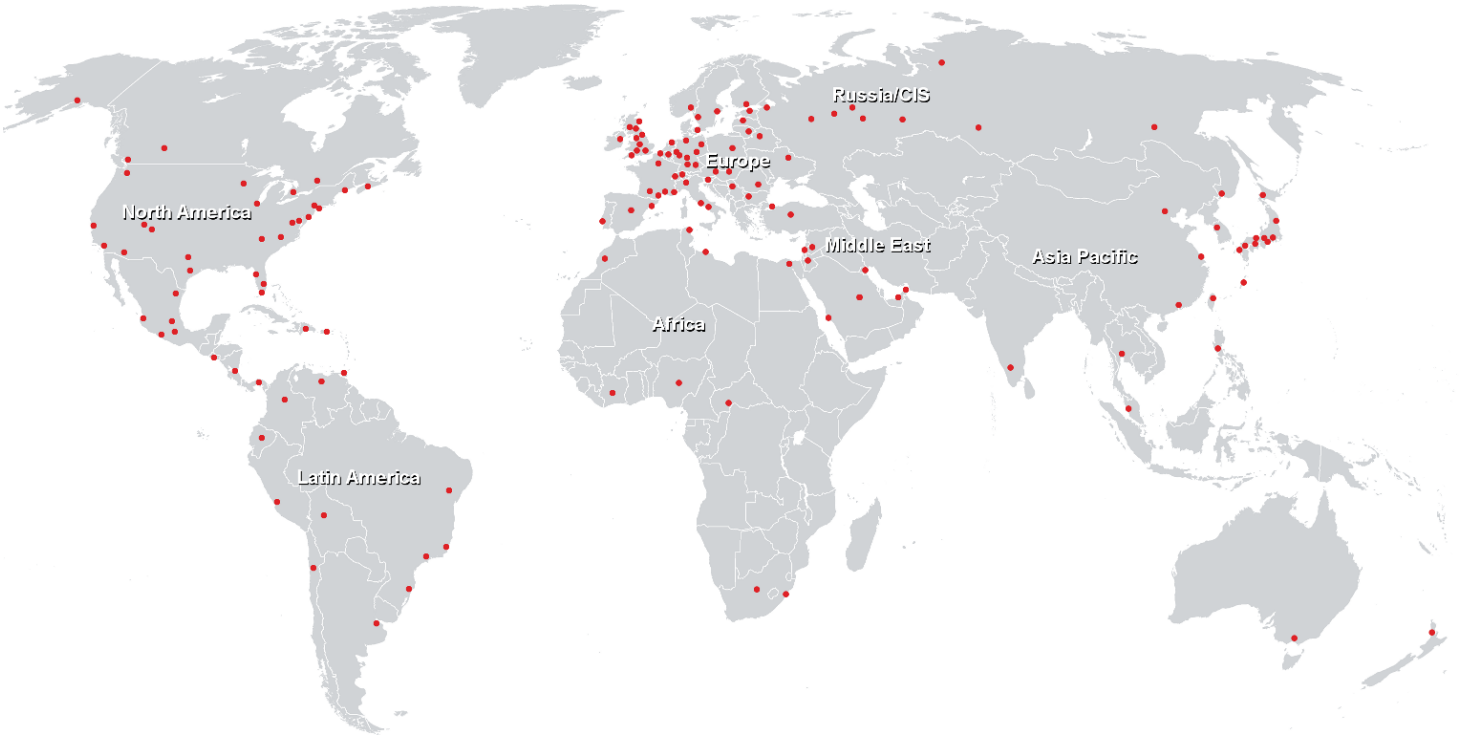
- Logging network traffic
- Logging user and Application Programming Interface (API) traffic
- Visibility with Amazon CloudWatch
- Enhancing monitoring and alerting
- Verifying your AWS environment

Lab 3: Security Monitoring

- Configure an Amazon Linux 2 instance to send log files to Amazon CloudWatch.
- Create Amazon CloudWatch alarms and notifications to monitor for failed login attempts.

- Create Amazon CloudWatch alarms to monitor network traffic through a Network Address Translation (NAT) gateway.

Training Centres worldwide



Fast Lane Institute for Knowledge Transfer (Switzerland) AG

Husacherstrasse 3
CH-8304 Wallisellen
Tel. +41 44 832 50 80

info@flane.ch, https://www.flane.ch