

Description

Compliance-as-code is the concept of automating the evaluation of recorded configurations against desired configurations, from a security and well-architected perspective. Building Serverless Compliance-as-code is a half-day, advanced-level course designed to teach you how to use, read, and write compliance-as-code to keep an AWS environment secure and optimized.

The course will conclude with a hands-on Capture the Flag tournament. The goal is to build innovative compliance-as-code to be made available to millions of AWS customers on the AWS public Github.

Intended Audience

This course is intended for:

- Solutions architects who want to integrate testing automation in their architecture
- Security/compliance engineers who are interested in building security controls testing
- Developers who want to verify the standardization of their AWS environment
- Managed-service partners to provide confidence on their services to their customers

Course Objectives

In this course, you will learn how to:

- Apply out-of-the-box rules to an AWS environment
- Gain visibility on the current state of an environment and remediate using AWS best practices on security and architecture
- Create new compliance-as-code rules and make it available to the AWS community
- Automate remediation
- Use AWS Services: AWS CloudTrail, Amazon CloudWatch Events, Amazon SNS, AWS Config, Config Rules and AWS Lambda, Amazon EC2, Amazon S3, etc.

Prerequisites

We recommend that attendees of this course have the following prerequisites:

- Intermediate knowledge of AWS services
- Basic understanding of AWS API / SDK
- Moderate proficiency in Python, Node.js, Java or C#

Delivery Method

This course is delivered through a mix of:

- Instructor-Led Training (ILT)
- Team Tournament (Capture the Flag)

Hands-on Activity

This course allows you to test new skills and apply knowledge to your working environment through a variety of practical exercises.

Duration

4 hours

Course Outline

This course covers the following concepts:

- Compliance-as-code
- A variety of AWS best practices
- AWS Lambda in the context of AWS Config Rules
- Overview of AWS security services: AWS Config, AWS Identity Access Management (IAM), AWS Key Management Service (KMS), CloudTrail, etc.