Deploy Event-Driven Applications with IBM Event Streams on IBM Cloud Private

WD107: Classroom

ZD107: SPVC

ERC 1.0

# Description:

In this course, you learn how to deploy and manage event-driven applications with IBM Event Streams. IBM Event Streams uses Apache Kafka, an open source streaming platform with many added capabilities to deploy production-ready applications.

This course is intended for system architects, developers, and network administrators who need to deploy, test, and monitor event-driven applications with IBM Event Streams.

# Prerequisites:

* Basic understanding of event-driven architecture
* Experience working with REST APIs
* Working knowledge of the Linux operating system
* Familiarity with Kubernetes and IBM MQ is helpful

# Learning objectives:

* Describe basic Kafka concepts
* Describe Event Streams components and architecture
* Describe some Event Streams use cases
* Install Event Streams
* Deploy, test, and monitor a sample application with Event Streams
* Connect Event Streams with IBM MQ

# Course agenda:

## Day 1

Course introduction (20 minutes)

Unit 1: Introduction to Kafka (1 hour)

Unit 2: IBM Event Streams overview (1 hour)

Unit 3: Getting started with Event Streams (1 hour)

Lab 1: Installing Event Streams on IBM Cloud Private (1 hour)

Lab 2: Configuring and exploring Event Streams (1 hour)

Lab 3: Working with a load-producing application (30 minutes)

## Day 2

Unit 4: Using Kafka Connectors for IBM MQ (1 hour)

Lab 4: Using Kafka Source Connector for IBM MQ (2 hours)

Lab 5: Using Kafka Sink Connector for IBM MQ (2 hours)

Unit 5: Geo-replication (20 minutes)

Unit 6: Monitoring logs (20 minutes)

Lab 6: Monitoring Event Streams logs (20 minutes)