Anypoint Platform Architecture: MuleSoft Accelerator for Healthcare

Summary

This course teaches experienced solution and technical architects or lead/senior developers how to use the MuleSoft Accelerator for Healthcare in their own organizations. It provides an overview of current mandates and trends in healthcare, provides an architectural evaluation all of the use cases included in the accelerator, and guides students through implementing the patient 360 use case with OpenEMR and Salesforce Health Cloud.

Duration

1 day (in-person or online)

Objectives

At the end of this course, students should be able to:

- Explain healthcare interoperability, HL7 and FHIR (Fast Healthcare Interoperability Resources) standards, FHIR facade, and MuleSoft's approach to FHIR.
- Configure common assets needed to build and deploy MuleSoft Accelerator for Healthcare implementations.
- Evaluate all use cases and assets in MuleSoft Accelerator for Healthcare including their descriptions, requirements, and architecture.
- Implement the Patient 360 use case using MuleSoft, Salesforce Health Cloud, and OpenEMR to provide a complete solution utilizing API-led connectivity.

Audience

Solution and technical architects or lead/senior developers that are focused on healthcare and life science related projects that have prior experience developing and deploying Mule applications

Prerequisites

- Experience developing Mule 4 applications as demonstrated by one of the following:
    - A current *MuleSoft Certified Developer - Level 1* certification
    - Completion of the *Anypoint Platform Development: Fundamentals* course
- A solid understanding of essential Maven concepts

  Note: If you are new to Maven (a build automation tool), you need to learn Maven fundamentals BEFORE taking this course. Suggested tutorials include Apache Maven Tutorial, Maven in 5 Minutes, and Maven Getting Started Guide.

Setup requirements

- A computer with:
    - At least 8-16 GB (16 highly recommended) available RAM, 2GHz CPU, and 10GB available storage
    - A minimum screen resolution of 1024x768
- Internet access to ports 80, 443, and 3306 (with > 5Mbps download and > 2Mbps upload)
- The latest version of Chrome, Safari, Firefox, or Edge
- An Anypoint Platform account
- OpenJDK 8 (not 11 or a later version)
- Anypoint Studio 7.12.0
- Advanced REST Client 16.0.1 or later (or any other REST client application)
- Apache Maven 3.6.3 or later

Get a detailed setup document here.

Outline

Module 1: Introducing the MuleSoft Accelerator for Healthcare

- Explain the purpose of MuleSoft accelerators
- Describe healthcare interoperability and the hl7 and FHIR standards
- Analyze the different approaches to a FHIR facade

Module 2: Configuring MuleSoft Accelerator for Healthcare common assets

- Analyze how Maven is used in MuleSoft accelerators
- Configure the common build assets
- Configure and deploy a parent project object model (POM) to Exchange using Maven
- Create a connected app in Salesforce Health Cloud

Module 3: Introducing MuleSoft Accelerator for Healthcare use cases and assets

- Evaluate the Patient 360 use case
- Evaluate the CMS Interoperability use case
- Evaluate the Labs integration use case
- Evaluate the Appointment scheduling use case
- Evaluate the Benefits and eligibility verification use case
- Evaluate the Prior authorization support use case
- Evaluate the additional assets included in the Accelerator for Healthcare

Module 4: Implementing the Health Cloud Administration System API

- Describe the Patient 360 architecture
- Configure the Health Cloud Administration System API with Salesforce Health Cloud
- Deploy the Health Cloud Administration System API to CloudHub

Module 5: Implementing the Patient Sync Process API

- Configure the Patient Sync Process API with OpenEMR and Salesforce Health Cloud
- Deploy the Patient Sync Process API to CloudHub

Module 6: Configuring the Patient Sync Lightning Web Component

- Configure the Patient Sync Lightning Web Component
- Use the Patient Sync Light Web Component to search for and sync a patient to Salesforce Health Cloud