Anypoint Platform Development: Advanced

Summary

This instructor-led course is for developers and architects interested in advancing their application development skills beyond those taught in the Anypoint Platform Development – Fundamentals course or the self-paced MuleSoft.U Development Fundamentals course.

Duration

3 days in-person or 4 days online

Objectives

- Manage Mule project development with Maven
- Achieve continuous integration and use test driven development with MUnit
- Develop custom elements
- Implement design patterns and tune application performance
- Work with state
- Secure communication with SSL

Prerequisites

- Completion of the instructor-led *Anypoint Platform Development: Fundamentals* course, the self-paced *MuleSoft.U Development Fundamentals* course, or equivalent knowledge from 6+ months Mule development experience and passing of the *MCD - Integration and API Associate exam*

  Note: If you have not taken one of these courses or passed the exam, you will be contacted to confirm your qualifications.
- Experience with Java or another object-oriented language
- Ability to navigate a command-line interface

Outline

PART 1: Team Development

Module 1: Managing Mule Projects with Maven

- Use a software project management tool
- Manage dependencies

Module 2: Managing Mule Code

- Maintain Mule source code
- Develop with best practices

Module 3: Achieving Continuous Integration

- Create a CI job
- Trigger the builds
- Automate deployments

Module 4: Driving Development with MUnit

- Create acceptance criteria
- Fail and pass tests
- Refactor test cases
- Refactor Mule applications

PART 2: Advanced Application Development

Module 5: Developing Custom Elements

- Use the Mule API
- Create custom transformers, processors, and beans

Module 6: Implementing Design Patterns

- Enrich data with Mule
- Create scalable parallel processing in Mule

Module 7: Tuning Application Performance

- Understand SEDA architecture
- Analyze threading profiles

Module 8: Working with State

- Impact design with clustering
- Cache outbound requests
- Work with object stores

Module 9: Securing Communication with SSL

- Implement one-way SSL
- Implement two-way SSL

Setup requirements

- A computer with at least 4GB available RAM, 2GHz CPU, and 4GB available storage
- Internet access to ports 80, 3306, and 61616 (with > 5Mbps download and > 2Mbps upload)
- JDK 1.8
  http://www.oracle.com/technetwork/java/javase/downloads/index.html
- Anypoint Studio with embedded Mule 3.8 runtime
  https://www.mulesoft.com/lp/dl/studio
- An Anypoint Platform account
  http://anypoint.mulesoft.com
- Mule 3.8 standalone runtime
  https://www.mulesoft.com/lp/dl/mule-esb-enterprise
- Apache Maven 3.x
  https://maven.apache.org/download.cgi
- Git
  https://git-scm.com/book/en/v2/Getting-Started-Installing-Git
- A GitHub account
  https://github.com/

A detailed setup document can be downloaded from here:
https://training.mulesoft.com/static/public_downloadables/setup/APDevAdvanced3.8_setup.pdf