

Anypoint Platform Development: Production- Ready Integrations (Mule 4)

Learn to build production-ready Mule 4 integrations that invoke APIs, pass messages asynchronously, validate data and persist objects.

6

MODULES

21

TOPICS

COURSE OVERVIEW

This course covers invoking web APIs and services, including HTTP and REST connectors, OAuth 2.0 client configuration, and SOAP invocations with TLS certificate control. It then addresses asynchronous messaging through VM queues and Anypoint MQ, followed by validation of flow conditions and XML or JSON messages. Later modules cover orchestration techniques such as the Scatter-Gather router, correlation IDs and retry logic, object persistence with Object Store and Cache scope, and the creation of reusable XML SDK components and custom API policies.

WHO THIS COURSE IS FOR

Integration Developers

API Developers

Mule Developers

Solution Architects

LEARNING OBJECTIVES

- Invoke HTTP and REST APIs while managing non-functional properties
- Configure an API client for OAuth 2.0 authentication
- Invoke SOAP web services with full control over TLS certificates
- Implement an HTTP callback for asynchronous responses
- Publish and subscribe to messages using VM queues and Anypoint MQ
- Validate flow conditions and XML or JSON messages
- Apply the Scatter-Gather router and retry logic for orchestration
- Persist and cache objects using Object Store and Cache scope

6 Modules, 21 Topics

01

Invoking Web APIs and Services

TOPICS

- Invoke HTTP APIs using the HTTP connector paying attention to the non-functional properties of API invocations
- Invoke HTTP APIs with an API specification using REST connectors
- Improve the non-functional properties of API invocations with REST connectors
- Enable an API client for OAuth 2.0
- Invoke a SOAP web service with full control over TLS certificates
- Implement an HTTP callback

02

Passing Messages Asynchronously

TOPICS

Publish messages to a VM queue · Listen for messages in a VM queue · Publish messages to an Anypoint MQ exchange · Subscribe to messages in an Anypoint MQ queue

03

Validating Messages

TOPICS

- Assert flow pre/post conditions and invariants
- Validate XML messages
- Validate JSON messages

04

Orchestrating Integration Functionality

TOPICS

- Parallelize integration logic with the Scatter-Gather router
- Trace transactions across an application network using correlation IDs
- Retry failed API invocations

05

Storing Objects for Persistence, Performance, and Resilience

TOPICS

- Temporarily persist data in an Object Store
- Avoid expensive operations with the Cache scope
- Apply a caching API policy to an API implementation

06

Componentizing Reusable Integration Functionality

TOPICS

Create an XML SDK component · Create a custom API policy

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

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Who We Are

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