

Anypoint Platform Development: DataWeave (Mule 3)

Summary

This instructor-led course is for developers interested in advancing their DataWeave skills beyond those taught in the *Anypoint Platform Development: Fundamentals* course or the self-study *MuleSoft.U Development Fundamentals* course.

Duration

1 day in-person or online

Objectives

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

- Write generalized and reusable transformations using functions, variables, and operators.
- Build up complex transformations from smaller testable steps.
- Transform, combine, and reduce complex data structures which include nested arrays, objects, and arrays of objects.
- Recursively apply formatting rules to every element of a nested schema.

Prerequisites

- Completion of the instructor-led *Anypoint Platform Development: Fundamentals* course, the self-study *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.

Setup requirements

- A computer with at least 4GB available RAM, 2GHz CPU, and 10GB available hard drive space
- Unrestricted internet access to port 80 (with > 5Mbps download and > 2Mbps upload)
- JDK 1.8
<http://www.oracle.com/technetwork/java/javase/downloads/index.html>
- Anypoint Studio 6.4 or later with embedded Mule 3.9 runtime or later
<https://www.mulesoft.com/lp/dl/studio/previous>
- Postman REST client application (or some other REST client application)
<https://www.getpostman.com>

A detailed setup document can be downloaded from here: <https://training.mulesoft.com/downloads>

Outline

Module 1: Organizing and Formatting DataWeave Code

- Review DataWeave fundamentals
- Match DataWeave types and conditions
- Organize and reuse DataWeave code with variables and functions

Module 2: Constructing Arrays and Objects with DataWeave

- Add components to and remove elements from arrays and objects
- Construct objects from lists of DataWeave expressions using object constructor curly braces { }
- Troubleshoot common issues when using object constructor curly braces { }
- Join data together using map operators

Module 3: Iteratively Transforming Data using Mapping Operators

- Transform elements of arrays and objects into a new array using the map operator
- Transform elements of objects into a new object using the mapObject operator
- Combine map and mapObject operators to transform complex schema

Module 4: Recursively Transforming Complex Schema

- Write recursive functions to transform complex schema
- Combine match and mapping operators to recursively transform every element of a complex schema