



MuleSoft.U Development Fundamentals



Welcome



- Welcome to MuleSoft.U Development Fundamentals
 - An 8-week online course
 - New content will be available each Wednesday at 9 am PST
 - Each week's content should take 2-3 hours to complete

Introducing the course



Course objectives



- **Build an application network using API-led connectivity and Anypoint Platform**
- Use Anypoint Platform
 - As a central repository for the discovery and reuse of assets
 - To build apps to consume assets and connect systems
 - To take an API through its complete development lifecycle
- Use Anypoint Studio to build and debug integrations and API implementations
 - Connect to databases, files, web services, SaaS apps, JMS queues, & more
 - Transform data using DataWeave, the transformation language
 - Add application logic and handle errors
 - Structure applications to facilitate development and deployment
 - Handle batch data processing

How the course will work



- Is primarily hands-on
- Consists of
 - Short lectures to introduce a concept
 - Walkthroughs
 - The bulk of class
 - Exercises you complete to learn the content
 - Complete them by following along with the videos
 - Homework
 - Your finished code that you submit each week

All contents © MuleSoft Inc.

5

Course materials



- Available on MuleSoft Learning Management System
 - <http://training.mulesoft.com/login.html>
- Student files (ZIP)
 - Starting files needed to complete some of the exercises

All contents © MuleSoft Inc.

6

Course homework



- Submit your homework each week
- After submitting your homework, you will receive
 - Solution files for that week
 - Student manual for that week as a permanent reference document

All contents © MuleSoft Inc.

7

Anypoint Platform account requirements



- A new version of Anypoint Platform was released at **2 pm Saturday, November 18**
- **This course has been updated to use the Nov 2017 release!**
- If you created an Anypoint Platform account before the release, you need to create a new one now
 - Accounts created before then will not have the new API Manager

All contents © MuleSoft Inc.

8

Course support



- Ask questions
 - Forums: forums.mulesoft.com
 - StackOverflow: stackoverflow.com/search?q=mule
- Contribute to the community: Become a Champion!
 - <http://champions.mulesoft.com>
 - Earn points
 - Answer questions on the forum or StackOverflow
 - Write blog posts
 - Create connectors
 - Redeem points in for prizes
 - MuleSoft swag, exam vouchers, conference passes, and more!



All contents © MuleSoft Inc.

9

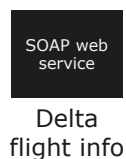
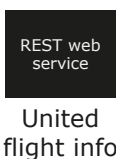
Introducing the course use case: Mule United Airport



Mule United Airport (MUA)



- Mule United Airport is a flight hub to multiple locations
- They host three different airlines in their terminals
- Their current architecture has many information silos



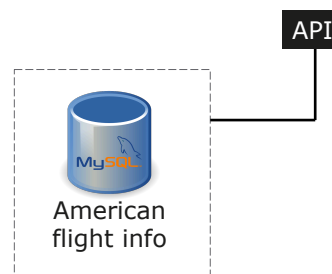
All contents © MuleSoft Inc.

12

Course outline



- PART 1: Building Application Networks with Anypoint Platform
 - Module 1: Introducing Application Networks and API-Led Connectivity
 - Module 2: Building Application Networks with Anypoint Platform
 - Module 3: Designing APIs
 - Module 4: Building APIs
 - Module 5: Deploying and Managing APIs



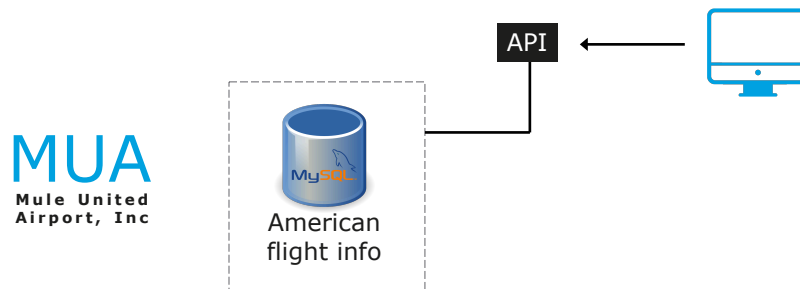
All contents © MuleSoft Inc.

13

First course goal



- Build an application that consumes a RESTful API for the American flight data



All contents © MuleSoft Inc.

14

Second course goal



- Build the RESTful API for the American flight data



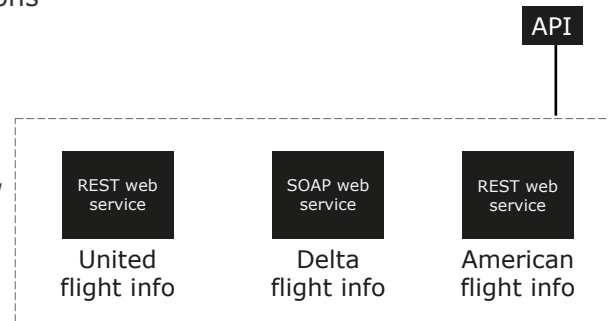
All contents © MuleSoft Inc.

15

Course outline



- PART 2: Building Applications with Anypoint Studio
 - Module 6: Accessing and Modifying Mule Messages
 - Module 7: Structuring Mule Applications
 - Module 8: Consuming Web Services
 - Module 9: Handling Errors
 - Module 10: Controlling Message Flow
 - Module 11: Writing DataWeave Transformations



All contents © MuleSoft Inc.

16

Third course goal



- Build an API implementation for all the flight data



All contents © MuleSoft Inc.

17

Course outline



- PART 2: Building Applications with Anypoint Studio (cont.)
 - Module 12: Connecting to Additional Resources
 - Module 13: Processing Records



All contents © MuleSoft Inc.

18

Fourth course goal



- Synchronize on-prem account data to the cloud



All contents © MuleSoft Inc.

19

Setting up your computer



Walkthrough: Set up your computer for class



- Download the course files from the MuleSoft Training Learning Management System
- Make sure you have JDK 1.8 and that it is included in your PATH environment variable
- Make sure Anypoint Studio starts successfully
- Install Postman (if you did not already)
- Make sure you have an active Anypoint Platform account
- Make sure you have a Salesforce developer account and an API security token