

**Processing Collections with MuleSoft**

**Course Number:** MULE-110
**Duration:** 1.5 days

**Overview**

This instructor-led, online Processing Collections with MuleSoft training course teaches attendees how to process data sets efficiently using different integration techniques for collections. Students learn how to manage and schedule flows from databases and use asynchronous messaging. Attendees gain experience splitting the Mule event payload into elements and then processing these events using the For Each Scope and the Parallel For Each Scope. Finally, students use the Batch Job Scope to asynchronously process large data sets in collections.

**Prerequisites**

Students must have experience with creating, deploying, and managing APIs in Anypoint Studio and Anypoint Platform.

**Materials**

All MuleSoft training students receive comprehensive courseware.

**Software Needed on Each Student PC**

Students will not need to install any software on their computers for this class. The class will be conducted in a remote environment. Students need a local computer with a web browser (preferably Chrome), stable internet, two monitors, and a headset/microphone.

**Objectives**

* Configure file listeners to watch for, read, rename, and move processed files
* Configure database listeners with watermarking to trigger flows
* Output records and add new records to CSV files
* Strategically use the Object Store and the target variable
* Compare and contrast the usage of For Each and the Parallel For Each
* Use the Batch Job Scope to process collections of items
* Use multiple batch steps to filter and aggregate data
* Follow the Mule event through these processors to understand the persistence of payload, attributes, and variables

**Outline**

* System to System – Our API
	+ Use File Listener
	+ Use Database Listener
	+ Use Watermarking and The Object Store
	+ Use Asynchronous Messaging
* System to System – Your API
	+ Use File Listener
	+ Use Database Listener
	+ Use Watermarking and The Object Store
	+ Use Asynchronous Messaging
* Process Elements – Our API
	+ For Each Scope
	+ Parallel For Each Scope
	+ Compare and contrast
* Process Elements – Your API
	+ For Each Scope
	+ Parallel For Each Scope
* Process Collections – Our API
	+ Batch Job Scope
	+ Variable Persistence
	+ On Complete Phase
	+ Filter and Aggregate
* Process Collections – Your API
	+ Batch Job Scope
	+ Filter and Aggregate
* Conclusion