

Anypoint Platform Operations: CloudHub

Summary

This instructor-led course is for all operations and administration personnel, developers, and architects who want to get hands-on experience managing and monitoring Mule applications deployed to CloudHub.

Note: This course is for both Mule 3 and Mule 4.

Duration

2 days in-person or online

Objectives

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

- Configure, deploy, manage, monitor, and analyze Mule applications on CloudHub.
- Configure load balancing and high availability options for Mule applications on CloudHub.
- Use the Anypoint Platform REST APIs to manage Mule applications on CloudHub.

Prerequisites

- A knowledge of system administration and server commands
- A basic understanding of data formats such as XML, CSV, and JSON
- A basic understanding of typical integration technologies such as HTTP, JMS, JDBC, REST, and SOAP

Setup requirements

- A computer with a minimum screen resolution of 1024x768
- Unrestricted internet access to port 80 (with > 5Mbps download and > 2Mbps upload)
- The latest version of Firefox or Chrome or Internet Explorer 10 or newer
- Advanced REST Client (or some other REST client application)
<http://install.advancedrestclient.com>
- Anypoint Platform CLI tool
<https://docs.mulesoft.com/runtime-manager/anypoint-platform-cli>

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

Outline

Module 1: Getting Started with Mule Runtimes

- List Anypoint Platform features
- Identify Anypoint Platform management areas
- List typical operations tasks related to Mule application management
- Describe Mule application deployment and management steps on CloudHub

Module 2: Managing Users and Resources

- Create and manage business groups and environments
- Administer Anypoint Platform users
- Create and manage Anypoint Platform roles

Module 3: Managing Mule Applications

- Deploy Mule deployable archives to CloudHub
- View application properties and features
- Update Mule applications with zero downtime

Module 4: Monitoring and Analyzing Mule Applications

- Monitor Mule applications with Runtime Manager and Anypoint Monitoring
- Create operational metrics dashboards and alerts for Mule applications
- Download and manage logs for Mule applications and Mule workers
- Track Mule application key performance indicators generated by business events
- View persistent object store data in the Runtime Manager console

Module 5: Configuring Mule Applications

- Promote Mule applications between environments
- Use an environment variable to switch between Mule application configurations
- Configure Mule applications with hidden properties

Module 6: Meeting Performance and Reliability Goals

- Distinguish between Mule application performance tuning and scaling goals, options, and solution architectures
- Deploy the same Mule application to multiple CloudHub workers
- Test load balancing and failover behavior of a Mule application deployed to multiple CloudHub workers

Module 7: Managing CloudHub Infrastructure

- Configure virtual private clouds (VPCs) for CloudHub regions
- Deploy Mule applications into a VPC
- Configure firewall rules in a VPC to allow private communication between Mule applications
- Identify how dedicated load balancers are used with VPCs

Module 8: Automating Administration Tasks

- Automate admin tasks with the Anypoint CLI tool
- Automate admin tasks with Anypoint Platform REST APIs