Anypoint Platform Operations: Customer-Hosted Runtimes

Outline

PART 1: Administering Mule Runtimes and Mule Applications

Module 1: Introducing Customer-Hosted Mule Runtimes

- Describe typical Mule deployment architectures and solutions
- Identify infrastructure options to host Mule runtimes
- Install and start Mule runtimes
- Deploy Mule applications to Mule runtimes

Module 2: Managing Mule Applications and Mule Domain Projects

- Inspect and manage deployed Mule applications
- Deploy Mule domain projects to Mule runtimes
- Deploy and manage multiple Mule applications in the same shared Mule domain

Module 3: Managing and Monitoring Mule Runtimes

- Configure and manage Mule runtimes and licenses
- Locate and interpret Mule runtime log files
- Monitor Mule runtimes with JMX
- Create secure Mule runtime administration connections

Module 4: Tuning and Troubleshooting Mule Runtimes

- Debug Mule applications
- Tune the JVM for Mule runtimes
- Dump a Mule runtime's heap memory and threads

PART 2: Administering with Anypoint Runtime Manager

Module 5: Managing Users and Resources

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

Module 6: Managing Mule Runtimes and Mule Applications

- Register customer-hosted Mule runtimes with Anypoint Runtime Manager using Runtime Manager Agent
- Deploy Mule applications to customer-hosted Mule runtimes using Runtime Manager
- Manage Mule applications with Runtime Manager
- Align servers and server groups with SDLC environments

Module 7: Configuring Mule Applications

- Configure a Mule application for deployment
- Configure a Mule runtime to use external properties files
- Use properties files with encrypted values
- Configure environment specific properties files

Module 8: Monitoring and Analyzing Mule Runtimes and Mule Applications

- View Mule runtime and Mule application dashboards
- Configure alerts for Mule runtimes and Mule applications
- Control Mule application flows
- Monitor and analyze Mule application generated business events
- Configure 3rd party monitoring and analysis plugins

Module 9: Meeting Performance and Reliability Goals

- Distinguish between Mule application performance tuning and scaling goals, options, and solution architectures
- Create and manage Mule runtime clusters
- Deploy Mule applications to Mule runtime clusters
- Test load balancing and failover behavior of applications deployed to Mule runtime clusters

Module 10: Automating Administration Tasks

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

Exam Details

This instructor-led course is for all operations and administration personnel, developers, and architects who want to get hands-on experience managing and monitoring customer-hosted Mule runtimes and applications (on-prem or in a private cloud) with Anypoint Runtime Manager (whether Runtime Manager is MuleSoft-hosted in the cloud or customer-hosted using Anypoint Platform Private Cloud Edition). 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:

- Describe the Mule runtime architecture.
- Install, configure, run, tune, and scale Mule runtimes.
- Deploy Mule applications to Mule runtimes.
- Use Anypoint Runtime Manager to manage, monitor, and analyze Mule runtimes and Mule applications.
- Scale and tune Mule runtimes and Mule applications.
- Automate administration tasks. 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