

WSO2 Micro Integrator 4.6 Developer Advanced

OEM: WSO2 • Code: MI46DA

COURSE DESCRIPTION

WSO2 Integrator: MI Developer Advanced is a course aimed at training software engineers on the integration and extension features and capabilities of the product. Training Type: WSO2 product training and hands-on session. Complexity: Intermediate/Advanced.

AUDIENCE PROFILE

- Software Engineers

PREREQUISITES

- WSO2 Integrator: MI 4.6.0 Developer Fundamentals
- Review WSO2 Integrator: MI architecture and features for:
- Features and Functionality
- Basic Mediators
- Connectors
- Open Standards

Review the standards and architecture for:

- Service Oriented Architecture
- REST
- SOAP

COURSE OBJECTIVES

By the end of this course, participants will be able to:

- This section doesn't contain any content.

COURSE OUTLINE

Module 1: Session 01

WSO2 Integrator: MI 4.6.0 - Advanced Concepts

- Product configurations
- High-level messaging architecture
- Transports
- Lab: Micro Integrator as a JMS Producer and Consumer
- Message builders/formatters
- Message relay

Module 2: Session 02

Extending Micro Integrator

- Extension points in the Micro Integrator
- Script Mediator
- Custom Mediator
- Lab: Creating a Custom Mediator
- Custom Task
- Lab: Creating a Custom Task
- Custom Connector
- Lab: Creating a Custom Connector
- Custom Message Builders and Formatters

Troubleshooting Micro Integrator

- Troubleshoot timeout issues
- Debugging configurations
- Debugging network connectivity
- Debugging the product instance

Module 3: Session 03

Applying Security

- Static secrets
- Dynamic secrets (Docker secrets, Kubernetes secrets, etc.)
- Secure Vault
- Using CLI tool
- Using Secure Vault for Encryption
- Lab: Securing Secrets for a VM Deployment
- Lab: Securing Secrets for a Container Deployment
- Securing an API
- Lab: Applying Security to an API

Module 4: Session 04

Deployment Strategy

- Clustered Deployment on a VM
- Kubernetes Deployment Patterns

Performance Tuning

- Tuning JVM Performance
- Tuning the Network and OS Performance
- Tuning the HTTP Transport
- Tuning the JMS Transport
- Tuning the VFS Transport
- Tuning the RabbitMQ Transport
- Tuning the Inbound Endpoints

Message Mediation - Advanced

- File processing
- Lab: Streaming Files Using the VFS Transport

DELIVERY NOTE

- Hardware Requirement: During the lab session attendees are required to deploy the created samples in multiple middleware products. Participants are required to have a workstation with at least 4GB of memory to run the samples smoothly.
- WSO2 Product: Installation Prerequisites
- WSO2 Product: MI for VS Code
- WSO2 Product: WSO2 Integrator: MI