

WSO2 Identity Server 7.3 Developer Advanced

OEM: WSO2 • Code: IS73DA

COURSE DESCRIPTION

WSO2 Identity Server Advanced is a course aimed at training Software Engineers on the features of the product as well as the underlying concepts and standards. The scope of this course will be limited to using all the features of the product to provide a solution related to API Management without having to extend the product. Training Type: WSO2 product training and hands-on session. Complexity: Intermediate/Advanced.

AUDIENCE PROFILE

- System Administrators and Identity Administrators

PREREQUISITES

- WSO2 Identity Server Fundamentals
- Open Standards

Having a knowledge of the following standards will be useful when following this course:

- SAML2
- OAuth 2.0
- OpenID Connect

SCIM 2.0

- Programming

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 1

- Identity Server Architecture

Extension points

- Java based extensions
 - Custom event handler, user store listeners, post authentication handlers, and custom claim handlers
- API-based extensions
 - Actions
 - Webhooks
- Practical Exercise: Write a custom event handler
- Practical Exercise: Write a custom user store listener (optional)
- Practical Exercise: Write a custom post authentication handler (optional)
- Practical Exercise: Write a pre-password update action

User Stores

- Introduction to user stores
- Custom user store manager
- Practical Exercise: Write a custom user store manager

Module 2: Session 2

User Provisioning

- SCIM 2.0 Custom schema
- Outbound Provisioning Connector
- Practical Exercise: Write a custom outbound provisioning connector

Authenticators and Connectors

- Local Authenticators
- Federated Authenticators
- Practical Exercise: Write a custom local authenticator

Access delegation - OAuth 2.0

- Extended OAuth2.0 grant types
- Custom Grant Types
- Practical Exercise: Write a custom OAuth 2.0 Grant Type

Module 3: Session 3

Agentic AI

- The Four A's: The Pillars of Agent Identity
- Ambient Agents
- MCP
- Practical Exercise: OBO flow

Introduction to REST APIs

- REST APIs Overview
- Get Access to APIs

- Secure REST APIs

Monitoring and Troubleshooting

- Log Types
- Configure WSO2 Identity Server for log monitoring
- Mask Sensitive Information
- Practical Exercise: Enable logs for a component

Module 4: Session 4

Analytics

- ELK integration
- Monitoring Dashboards
- Practical Exercise: Configure ELK Based Analytics for WSO2 IS
- App-Native Authentication
- Practical Exercise: App-Native Authentication

Module 5: Session 5

- Rich Authorization Requests
- Verifiable Credentials
- Re-branding WSO2 Identity Server UIs
- Practical Exercise: Rebrand WSO2 Identity Server UIs

Advanced B2B CIAM and Organization Management

- Common B2B CIAM Requirements and Challenges
- B2B SaaS Use Cases
- Organization Management Use Cases Beyond B2B SaaS
- Organization Management Concepts
- Organization onboarding
- Organization User Management

Module 6: Session 6

Advanced B2B CIAM and Organization Management (continued)

- Applications
- Organization User Login
- API Access Management in Organizations
- Other Organization-Level Capabilities
- Practical Exercise: Advanced B2B CIAM

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 6GB of memory to run the samples smoothly.
- Software Requirement: If you are using the product installer to install the product, by default, WSO2 Identity Server is installed with OpenJDK, which allows you to run the product as soon as it is installed.
- Software Requirement: Apache Tomcat 8
- Software Requirement: MySQL 8.0 or 8.4
- Software Requirement: Corresponding MySQL JDBC Connector
- Software Requirement: Oracle/OpenJDK 21 or Oracle/Open JDK 25
- Software Requirement: Maven 3.8
- Software Requirement: IDE for java programming
- WSO2 Product: WSO2 Identity Server 7.3