IBM App Connect Enterprise 12 Application Development III
WM688GIN

Course Description:

This course teaches you how to use IBM App Connect Enterprise to apply advanced topics such as basic security authentication on deployed integrations, message flow monitoring to help in problem determination, and creating user-defined properties in a message flow. The first part of this course covers message flow aggregation, encrypting credentials and storing them in the IBM App Connect vault, and debugging message flows. The second half introduces dynamic features that use IBM App Connect web user Interface to Record and Replay messages, create a business transaction definition, and view various business events in a completed, failed, inconsistent, and in-progress state.

Course Objectives:

- Develop a message flow that implements aggregation to fan-out information into a single output message.
- Configure integration nodes and integration servers to connect to secured resources by using credentials that are stored in encrypted form in an IBM App Connect Enterprise vault
- Configure an IBM App Connect vault for storing encrypted credentials, which can be used to access secured resources
- Enable user trace and retrieve the collected trace data
- Build a message flow that uses IBM App Connect Enterprise web user interface to view events and replay messages
- Create monitoring events on selected nodes so that they could be published to a topic and recorded into a database table
- Construct and configure a business transaction definition in the web user interface
- Create the business events that make up a business transaction definition
- Design an application that uses the Business Transaction Monitoring dashboard to view events in completed, failed, inconsistent, and in-progress states
- Create and add user-defined properties to a message flow

- Assemble promoted properties to provide common values for multiple message flow nodes in the flow by converging promoted properties

Exercises

- Exercise 1. Implementing message flow aggregation
- Exercise 2. Securing a message flow that uses the vault
- Exercise 3. Debugging a message flow
- Exercise 4. Implementing error handling in a message flow
- Exercise 5. Creating a reusable pattern
- Exercise 6. Record and replaying message flow data
- Exercise 7. Monitoring business transactions across multiple message flows
- Exercise 8. Preparing for production by creating a runtime-aware message flow

Prerequisites:

Before taking this course, you should complete the following courses:

- WM686: IBM App Connect Enterprise 12 Application Development I
- WM687: IBM App Connect Enterprise 12 Application Development II

Audience:

This course is designed for experienced integration specialists and senior-level developers with experience in application development and messaging middleware applications that are interested in becoming an IBM App Connect Enterprise Developer.

Course Duration:

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Course Topics:

- Course introduction
- Unit 1. Implementing message flow aggregation
- Exercise 1. Implementing message flow aggregation
- Unit 2. Securing message flows
- Exercise 2. Securing a message flow that uses the vault
- Unit 3. Debugging message flows
- Exercise 3. Debugging a message flow
- Unit 4. Implementing error handling in message flows
- Exercise 4. Implementing error handling in a message flow

- Unit 5. Creating patterns for reusability
- Exercise 5. Creating a reusable pattern
- Unit 6. Monitoring message flows
- Exercise 6. Record and Replaying message flow data
- Exercise 7. Monitoring business transactions across multiple message flows
- Unit 7. Preparing for production
- Exercise 8. Preparing for production by creating a runtime-aware message flow
- Course summary