Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Create, Secure, and Publish APIs with IBM API Connect 10

CODE:	LENGTH:	PRICE:
WD515G	40 Hours (5 days)	£3,250.00

Description

This course teaches you how to configure a newly built API Connect 10 environment.
You are taught how to configure a catalog with the gateway, portal, and analytics services and set up the environment for API development. You then define API interfaces according to the OpenAPI specification. You build SOAP and REST based APIs along with a GraphQL API. You assemble message processing policies and define client authorization schemes, such as OAuth 2.0, in the API definition. You verify the proper sequencing of policies in the assembly tester and further test your APIs in the new Test tab and Local Test Environment. After building and testing your APIs, you publish them and make them available on the Developer Portal. You manage all aspects of the provider organization in the API Manager user interface to create, publish, version, and retire API artifacts such as products, plans and APIs themselves. You also learn how to manage consumer organizations who use the APIs that are made available on the Developer Portal. You learn how to add members to the consumer organization that provides access to the APIs on the Developer Portal. You learn how the layout of the Developer Portal can be customized. Finally, you call the APIs on the secure gateway and you view the graphs and metrics of API usage.

Objectives

- Configure services in Cloud Manager for an on-premises installation of API Connect
- Create a catalog and Developer Portal
- Create consumer and provider organizations
- Create, test, and publish SOAP, REST, and GraphQL APIs
- Create message processing policies that transform API requests and responses
- Authorize client API requests with security definitions
- Enforce an OAuth flow with an OAuth 2.0 API security provider
- Perform advanced testing of APIs by using the Test tab and the Local Test Environment
- Define products and plans in API Manager
- Stage, publish, version, migrate, deprecate, and retire products and APIs
- Manage member roles and permissions in the Developer Portal
- Create an application and subscribe to a plan
- Review API analytics in the Developer Portal
- Review analytics dashboards and visualizations in API Manager
- Customize the Developer Portal

Audience

This course is designed for API developers.

Prerequisites

- Basic understanding of web services and protocols
- Basic understanding of application programming
- Conceptual knowledge of APIs
- Basic understanding of Red Hat Linux

Programme

- Introduction to IBM API Connect V10
- Exercise: Reviewing the API Connect development and runtime environments
- Managing catalogs and organizations
- Exercise: Managing catalogs and consumer organizations
- Defining APIs in API Manager
- Exercise: Defining an API that calls an existing SOAP service
- Defining a REST API in API Manager
- Exercise: Defining a REST API from a target service
- Assembling message processing policies
- Exercise: Assembling message processing policies
- Declaring client authorization requirements
- Creating an OAuth 2.0 provider
- Exercise: Implementing OAuth 2.0 security
- Testing and debugging APIs
- Exercise: Introduction to the Test tab
- Creating and testing a GraphQL API
- Exercise: Creating and testing a GraphQL API
- Testing an API in the Local Test Environment
- Exercise: Testing an API in the Local Test Environment
- Publishing and managing products and APIs
- Exercise: ⍰Define and publish an API product
- The product lifecycle
- Exercise: Subscribing and testing APIs in the Developer Portal
- Exercise: Managing and approving API Products
- Subscribing and testing APIs in the Developer Portal API Analytics
- Exercise: Calling an API on the gateway and monitoring API usage
- Customizing the Developer Portal
- Exercise: Customizing the Developer Portal

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
29 Apr 2024	Virtual Classroom	BST	English	Instructor Led Online	Yes	£3,250.00
22 Jul 2024	Virtual Classroom	BST	English	Instructor Led Online	Yes	£3,250.00
14 Oct 2024	Virtual Classroom	BST	English	Instructor Led Online	Yes	£3,250.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.