

Dell Boomi - API Design and Management

Course Description

This comprehensive course on Dell Boomi's API Design and Management will guide participants through the essential principles and practical steps required to design, create, manage, and troubleshoot APIs using Dell Boomi. The course will cover both REST and SOAP protocols, API service components, proxy components, and delve into the use of Atoms, Environments, and Gateways. Participants will also learn about authentication methods, plans, applications, subscriptions, and how to utilize the Developer Portal effectively. The course is designed to equip learners with the skills needed to handle the full lifecycle of API management within the Dell Boomi platform.

Audience

This course is ideal for integration developers, API designers, and IT professionals who are involved in API development and management using Dell Boomi. It is also suitable for system architects and administrators who are responsible for deploying and maintaining APIs within their organizations.

Pre-requisite Knowledge/Skills

Participants must have completed the following prerequisites:

- Integration Essentials
- Associate Integration Developer
- Professional Integration Developer

Course Objectives

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

- Design and expose APIs using Dell Boomi
- Create and manage REST and SOAP APIs
- Utilize API service and proxy components
- Deploy APIs on both Linux and Windows environments
- Configure and use Atoms, Environments, and Gateways
- Implement various authentication methods
- Create and assign plans, applications, and subscriptions
- Utilize the Developer Portal for API management
- Apply recommended practices for API management and troubleshooting

Course Outline

Module 1: Introduction to API Design and Management

- Overview of API Design
- API Design Starts in Integration
- Try-It: Loading an Integration Process
- Exposing a Web Service
- Try-It: Exposing a Web Service

Module 2: Creating REST and SOAP APIs

- Creating a REST API by Importing a Boomi Process
- Try-It: Creating a REST API by Importing a Boomi Process
- Creating a REST API by Using an External File
- Try-It: Creating a REST API by Using an External File
- OData Protocol
- Try-It: Creating an OData Protocol Endpoint
- SOAP Protocol
- Try-It: Creating a SOAP Protocol Endpoint

Module 3: Deployed APIs and Swagger Visualization Portal

- Deployed APIs and Swagger Visualization Portal
- Try-It: Using Deployed APIs and Swagger Visualization Portal
- Troubleshooting

Module 4: API Management Components

- API Management Overview
- API Service Component
- Activity 1: Creating API Service Components
- API Proxy Component
- Activity 2: API Proxy Component

Module 5: Atoms, Environments, and Gateways

- Atoms, Environments, and Gateways
- Activity Introduction

Module 6: Windows Environment Setup

- Activity 3: Install a Local Atom (Windows)
- Activity 5: Update Local Atom Settings (Windows or Linux)
- Activity 6: Deploy APIs (Windows or Linux)
- Activity 7: Installing a Gateway (Windows)

Module 7: Shared Activities

- Activities 9-11: Migrate Environment, Troubleshooting, Cloud Instance Configuration

Module 9: Authentication Methods

- Authentication
- Activities 12-13: Basic Authentication
- Activities 14-16: Gateway Authentication

Module 9: Plans, Applications, and Subscriptions

- Plans, Applications, and Subscriptions
- Activities 17-18: Create and Assign Plans
- Activities 19-22: Create an Application and Subscriptions, Call APIs, and Troubleshooting

Module 10: The Developer Portal

- The Developer Portal
- Activities 23-27: Developer Portal Settings and APIs
- Troubleshooting Developer Portal Access
- Activity 28: Customize Your Developer Portal

Module 11: Extra Tools and API Lifecycle

- Troubleshooting
- API Lifecycle Simplifies API Management
- Activity 29: Explore and Use the API Lifecycle Page

Module 12: Recommended Practices

- Recommended Practices
- Additional Resources for Managing Your APIs