

Application Integration on Oracle Cloud Ed 4

Course Duration: 32 Hours

Course code:clouded4

1. Course Overview

This course provides in-depth training on integrating applications and services within Oracle Cloud Infrastructure (OCI). Participants will learn to design, deploy, and manage integration solutions using Oracle Integration services, enabling seamless connectivity between cloud and on-premises applications. Hands-on labs focus on developing, monitoring, and troubleshooting integration flows, with an emphasis on best practices and real-world use cases.

2. What you'll learn?

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

- Understand Oracle Cloud Integration services and their architecture
- Create, deploy, and manage integration flows between cloud and on-premises apps
- Use adapters, orchestrations, and pre-built integrations
- Implement REST and SOAP API integrations
- Monitor and troubleshoot integration solutions
- Apply security, error handling, and performance best practices
- Design event-driven and process-driven integration scenarios

3. Target Audience

- Integration Architects
- Cloud Application Developers
- Middleware Specialists
- IT Professionals responsible for enterprise application integration

4. Pre-Requisites

Familiarity with:

- Oracle Cloud Infrastructure (OCI)
- Basic application development concepts
- REST/SOAP services and APIs
- Enterprise application architecture

5. Course content

Module 1: Course Introduction

- Introduction
- Course Contents

Module 2: Introduction to Oracle Cloud Integration

- Overview of Oracle Integration Services
- Integration Architecture and Components
- Key Use Cases for Cloud Integration

Module 3: Designing Integration Flows

- Orchestration Concepts
- Process and Event-Driven Integration Flows
- Configuring Adapters for Cloud and On-Premises Applications
- Mapping Data Between Applications

Module 4: Developing Integrations

- Creating Integrations Using Oracle Integration Designer
- Implementing REST and SOAP-based Integrations
- Using Pre-Built Integrations and Templates
- Error Handling and Transaction Management

Module 5: Monitoring and Managing Integrations

- Integration Dashboard Overview

- Tracking Integration Instances and Logs
- Handling Failures and Retries
- Performance Monitoring and Optimization

Module 6: Security and Governance

- Authentication and Authorization
- Secure Connections to On-Premises Applications
- Encryption and Data Protection
- Governance and Compliance Considerations

Module 7: Advanced Integration Scenarios

- Event-Driven Architecture Integrations
- Process Automation and Orchestration
- Integrating with SaaS Applications (ERP, HCM, CRM)
- Handling Large-Scale Integration Workloads

Module 8: Hands-On Labs and Exercises

- Creating Cloud-to-Cloud Integration Flows
- On-Premises to Cloud Integration Implementation
- Monitoring and Troubleshooting Integrations
- Implementing Error Handling and Logging

Module 9: Best Practices and Wrap-Up

- Integration Design Guidelines
- Security and Performance Best Practices
- Summary of Key Concepts
- Q&A and Next Steps for Learning