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Oracle Integration Cloud with AI Course Content

1. Overview of Service-Oriented Architecture (SOA) for Integration

- SOA to a Layman
- Overview of Integration
- Advantages of Using SOA in Integration
- Importance of SOA and Integration
- Building Blocks of Integration

2. Integration Prerequisite Technologies Deep Dive

- XML (Extensible Markup Language)
- XSD (XML Schema Definition)
- WSDL (Web Services Description Language)
- JSON
- XPATH & XSLT

3. Integration Messaging Patterns

- Synchronous vs Asynchronous vs One-Way Integration
- Integration Principles

4. Oracle Integration Cloud Services (OIC) Overview

- Introduction to Core Components of OIC
- Integration Patterns in OIC





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- OIC Architecture
- Integration Workflow
- Integration Scenarios
- Integrations in OIC Overview

- OIC Integration Patterns
- App-Driven Orchestration
- Scheduled Integrations

5. Types of Adapters in OIC

- Webservice – SOAP and REST
- Data Base – ATP
- File – FTP
- Cloud Adapters - ERP and HCM Cloud

6. REST vs SOAP Web Services

- REST Web Services
- SOAP Web Services
- Comparison Between REST and SOAP

7. Adapter Inbound and Outbound Roles

- Understanding Adapter Roles
- Inbound vs Outbound Adapters





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8. OIC Deep Dive in Action

- What is a Connection?
- What is an Adapter?
- What is Integration?
- Packages in OIC
- Lookups and Their Importance
- Visual Mappers in OIC
- Enabling Tracking Parameters
- Deploying Your Integration
- Integration Tracing
- Scheduling Integrations in OIC
- Calling External REST API in OIC Using the REST Adapter.
- Creating an Integration in OIC to Expose SOAP Service
- File Management in OIC.
- Creating, Deleting, Moving, Copying, Reading, Listing Files
- Downloading, Zipping, and Unzipping Files
- REST Adapter Use Cases
 - PUT
 - PATCH
 - GET
 - POST
 - DELETE
- SOAP Adapter Use Cases
- FTP Adapter Use Cases
- Operations with Oracle ATP Adapter





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- Oracle ERP Adapter
- Oracle HCM Adapter
- Performing Database Operations
 - Insert
 - Update
 - Delete
 - Select
 - UPSERT
 - Stored Procedure
 - Pure SQL Query
- Using REST API to Manage Files in FTP Server
- Using SOAP API to Manage Files in FTP Server

9. OIC Dashboard and Monitoring

- a. Monitoring Live Integrations in OIC
- b. Tracking Integration Instances with Filters
- c. Managing and Monitoring Integrations
- d. Retrieving Runtime Data and Metrics
- e. Tracking Integrations Using Primary and Secondary Business Identifiers
- f. Notification and Global Fault Handler in OIC
- g. Exceptional Handling in OIC

10. OIC Versioning and Cloning

- a. Integration Promotion from One Instance to Another
- b. Creating Different Versions of Integrations





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- c. Cloning an Integration
- d. Cloning a Connection
- e. Versioning vs Cloning in OIC
- f. Exporting and Importing OIC Integrations Packages & Lookups

11. BI Publisher Reports Overview

- a. Introduction to BI Publisher
- b. Types of Reports in BI Publisher
- c. Integrating BI Publisher with OIC

12. Introduction & Overview to OCI AI Services

- a. Introduction to the suite of services: purpose, use cases, and benefits.
- b. Introduction to Document Understanding Service
- c. Introduction to OCI Vision Service
- d. Introduction to OCI Speech Service
- e. Introduction to OCI Language Service
- f. Introduction to OCI Gen AI Service
- g. Introduction to OCI Gen AI Agents Service

13. OCI Document Understanding Service Deep Dive

- a. Features and functionality deep dive
- b. Key Value Extraction using OCI DUS
- c. Text Extraction using OCI DUS
- d. Table Extraction using OCI DUS
- e. Document Classification using OCI DUS





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- f. Using DUS service for standard OOB documents e.g. Invoices to extract Invoice details.
- g. Demo: Automating document processing and data extraction – Invoice – using OIC.

14. OCI Vision

- a. Features and functionality deep dive.
- b. Object detection in an image using OCI Vision.
- c. Image classification using OCI Vision.
- d. Text extraction using OCI Vision.

15. OCI Speech

- a. Features and functionality deep dive
- b. Introduction to OCI Speech ASR model
- c. Introduction to OCI Speech Whisper model (Open AI)
- d. Speech-to-text transcription job
- e. SRT file generation

16. OCI Language

- a. Features and functionality deep dive
- b. Sentiment analysis
- c. Entity recognition
- d. Text translation
- e. Document Translation





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17. OCI Generative AI Service and Open AI

- a. Overview of generative models currently being used in OCI Gen AI.
- b. Gen AI API introduction and overview as to how to use the chat and embed API's.
- c. Integration with Cohere models using OCI Gen AI
- d. Integration with Meta's Llama models using OCI Gen AI
- e. Integration with Meta's Llama vision models using OCI Gen AI
- f. Integration with XAI's grok models using OCI Gen AI
- g. Integration with Open AI models
- h. Integration with Cohere.

18. OCI Generative AI Agents

- a. Overview of OCI Generative Agents.
- b. Creation of Data Sources (OCI Object Storage)
- c. Setting up of Knowledge bases
- d. Creation ingestion jobs
- e. Creation of Agents
- f. Creation of Agent endpoints for web service invocation
- g. Integration with OIC

