

Oracle Fusion DBA:Course Essentials

Course Objectives

- Describe the Oracle SOA Suite 11g Architecture
- Describe the Oracle Weblogic Server 11g
- Administration with Oracle Weblogic Server 11g
- Monitoring, Troubleshooting and Deployment using Oracle Weblogic Server 11g
- Discuss Service Component Architecture (SCA)
- Discuss Service Oriented Architecture (SOA) concepts
- Install Oracle SOA Suite 11g
- Deploy SOA Composite Applications
- Backing up and recovering Oracle SOA Suite 11g
- Overview of high availability with Oracle SOA Suite 11g
- Configure Security Policies for SOA Composite applications
- Configure and Administer Oracle SOA Suite 11g and its components
- Monitor, troubleshoot, and tune Oracle SOA Suite 11g components
- Monitor, troubleshoot and Deploy using Oracle Weblogic server 11g
- Install, configure Oracle Data Integrator 11g
- Working with ODI Components.
- Monitor, troubleshoot using Oracle Business Intelligence 11g
- Install, configure Oracle Business Intelligence 11g
- Monitor, troubleshoot using Oracle Business Intelligence 11g
- Working with OBIEE Components

Course Topics

1. Introducing SOA and Oracle SOA Suite 11g

- Describing Service-Oriented Architecture (SOA) Concepts
- Introducing Service Component Architecture (SCA) Composite Applications
- Describing Oracle SOA Suite 11g Architecture and Components
- Introducing Oracle SOA Suite 11g Administration Tools

2. Installing Oracle SOA Suite 11g

- Creating SOA Schemas with the Repository Creation Utility
- Installing Oracle SOA Suite 11g
- Configuring an Oracle WebLogic Domain with SOA Suite 11g Components
- Exploring Oracle Enterprise Manager Fusion Middleware Control Console

3. Managing SOA Composite Applications

- Describing Composite Application Structure and Dependencies
- Deploying Composite Applications
- Testing and Monitoring Composite Applications
- Managing Composite Application Life Cycle

4. Administering the SOA Infrastructure

- Configuring Oracle SOA Suite 11g SOA Infrastructure Properties
- Monitoring SOA Infrastructure Run-time Information

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5. Administering Oracle JCA Adapters and Binding Components

- Describing JCA Adapters and Binding Components
- Configuring JCA Adapter Properties
- Configuring File, Database, and JMS JCA Adapter Run-time Resources
- Monitoring JCA Adapter Instances and Faults

6. Administering BPEL Process Service Components and Engines

- Describing BPEL Components and Service Engine
- Configuring BPEL Service Engine Properties
- Tracking Messages in a Composite Application With a BPEL Process
- Monitoring BPEL Process Component Instances
- Managing BPEL Process Component Instances and Faults

7. Administering Oracle Mediator Service Components and Engines

- Describing Mediator Components and Service Engines
- Configuring Mediator Service Engine Properties
- Monitoring Mediator Component Instances and Routing Information
- Managing Mediator Faults

8. Administering Decision Service Components and Business Rules Service Engines

- Describing Decision Services and Business Rules Service Engines
- Monitoring Business Rules Service Engine Instances and Faults

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9. Administering Oracle User Messaging Service

- Describing User Messaging Service (UMS) Architecture and Components
- Configuring UMS for Human Workflow and BPEL Process Components
- Configuring Oracle WebLogic Server Embedded LDAP Server
- Configuring the Email Messaging Driver
- Testing UMS Services

10. Administering Human Task Service Components and Human Workflow Service Engines

- Describing Human Workflow Components and Service Engine
- Configuring the Human Workflow Services
- Configuring Human Workflow Task Service Properties
- Exploring the Worklist Application for Task Management
- Describing User Messaging Preferences

11. Administering Oracle BPMN Process Service Components and Engines

- Describing BPMN Process Service Components and Engines
- Configuring BPMN Process Service Components and Engines
- Monitoring Oracle BPMN Process Service Components and Engines

12. Administering Oracle Business Activity Monitoring

- Describing Oracle BAM Components and Architecture
- Configuring the Oracle BAM Adapter
- Configuring Oracle BAM Server Properties
- Managing Oracle BAM Users and Distribution Lists
- Monitoring BAM Activity and Components

13. Administering Oracle B2B

- Describing the B2B Components and Concepts
- Describing the B2B Console and Administration Tasks
- Configuring a B2B Implementation
- Testing a B2B Implementation
- Monitoring B2B Messages in Oracle B2B Console

14. Administering Business Events

- Describing Business Events
- Describing the Event Delivery Network Architecture
- Managing Business Event Subscriptions
- Monitoring Business Event Occurrences

15. Configuring Security Services and Policies

- Describing Oracle Web Services Manager Functionality
- Describing Web Service Security Concepts
- Creating a Simple Web Service Security Policy
- Securing a Service Endpoint with the Security Policy
- Monitoring Web Service Security Violations

16. Tuning Performance of Oracle SOA Suite and Components

- Implementing Best Practice Starting and Stopping Managed Servers
- Extending SOA Database Tablespaces
- Managing connection thresholds
- Optimizing Loading of Enterprise Manager Metric Page Information
- Purging data from Dehydration Store

17. Troubleshooting Oracle SOA Suite

- Resolving Managed Server Startup Problems
- Managing Connection Timeouts

- Identifying Log Files
- Configuring Log Levels
- Viewing Log File Entries
- Identifying and Resolving Common Application Problems

18. Configuring High Availability for Oracle SOA Suite

- Describing Types of High Availability Options
- Describing High Availability Implementations

19. Backing Up and Recovery of Oracle SOA Suite Instances

- Adopting a Backup and Recovery Strategy
- Backing up Oracle Fusion Middleware Environments
- Backing up the SOA Database Schemas
- Recovering Oracle Fusion Middleware Environments
- Recovering SOA Database Schemas

20. Oracle Data Integrator

- Architecture
- Architecture Overview
- What Is Oracle Data Integrator?
- The Oracle Data Integrator Architecture

- Components
- Graphical Modules
- Run-Time Components
- Metadata Navigator

21. Topology Concepts

- Overview of the Topology
- What Is the Topology?
- Data Servers and Physical Schemas
- What Is a Data Server?
- Important Note

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- What Is a Physical Schema?
- Properties of Physical Schemas
- The Physical Architecture in Oracle Data Integrator

22. Connecting to Your Data

- Topology Manager
- What Is the Topology?
- What Topology Manager Contains
- The Physical Architecture View
- Data Servers and Physical Schemas
- Prerequisites for Connecting to a Server
- Creating a Data Server
- Some Examples of Drivers and URLs

23. Defining the Logical Architecture

- Topology Manager
- Overview of Topology Manager
- Logical Architecture/Context Views
- Defining Contexts
- Defining a Context
- Declaring Logical Schemas and Agents
- Creating a Logical Schema
- Linking the Logical and Physical Architecture

24. Setting Up a New Project

- What Is a Project?
- Overview of Oracle Data Integrator Projects
- What Does a Project Represent?
- Creating a New Project
- Folders
- What Is a Folder?
- What Is a Knowledge Module?
- Exporting and Importing

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25. Releasing Projects

- What Is a Scenario?
- Properties of Scenarios
- Managing Scenarios
- Generating a Scenario
- Generation Versus Regeneration
- Executing a Scenario from the GUI
- Executing a Scenario from a Project
- Preparing Scenarios for Deployment

26. Oracle Data Integrator Model Concepts

- What Is a Model?
- The Relational Paradigm
- Relational Model Support in Oracle Data Integrator
- Additional Metadata in Oracle Data Integrator
- Reverse-Engineering
- What Is Reverse-Engineering?
- Methods for DBMS Reverse-Engineering
- Standard Versus Customized Reverse-Engineering

27. Creating and Reverse-Engineering Models

- What Is a Model?
- What Is Reverse-Engineering?
- Methods for DBMS Reverse-Engineering
- How to Create a Model by Reverse-Engineering
- How to Start the Reverse-Engineering Process
- Selective Reverse-Engineering

28. Introduction to Oracle Business Intelligence

- Installation of Oracle Business Intelligence
- Business Intelligence and Transactional Applications
- Daily Business Intelligence
- Business Intelligence Balanced Scorecard

- Enterprise Planning and Budgeting
- Activity-Based Management for Business Intelligence
- Oracle Integration Components Enabling Business

Intelligence

- Business Intelligence Data Hubs
- Business Activity Monitoring
- BPEL Process Manager
- Enterprise Messaging Service
- Custom Data Warehouse Solutions
- The Role of the Oracle Database in Business Intelligence
- Oracle Warehouse Builder
- Oracle Business Intelligence Standard Edition
- Oracle Business Intelligence Enterprise Edition
- Business Intelligence (XML) Publisher
- Oracle Portal
- Spreadsheet Add-ins
- Building Custom Business Intelligence Applications
- Emerging Trends in Business Intelligence
- Integration of OBIEE with ODI
- Integration of OBIEE with EBS
- Migration of RPD
- Migration of objects
- Migration of WEBCATALOG
- Working with Catalog Manager
- Troubleshooting and discussing the issues related with OBIEE



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