

Oracle SOA Suite 11g: Administration

Duration: 5 Days

What you will learn

The course describes how Oracle SOA Suite 11g, a Middleware component of Oracle Fusion Middleware, provides a complete set of service infrastructure components. These components include Mediator, BPEL, Human Workflow, Business Rules and Business Process Management for designing, deploying and managing SOA composite applications.

Learn To:

Install Oracle SOA Suite 11g.

Deploy SOA Composite Applications.

Configure and administer Oracle SOA Suite 11g and its components.

Monitor, troubleshoot and tune Oracle SOA Suite 11g components.

Troubleshoot SOA composite applications by performing corrective actions, like fault recovery.

Configure Security Policies for SOA Composite applications.

Backup and recover Oracle SOA Suite 11g.

Tune and configure the Oracle SOA Suite 11g environment for high availability (through a brief introduction).

Prerequisite Skills & Knowledge

You're required to understand essential Oracle WebLogic Server administration tasks before taking this course. You'll learn how to install and configure Oracle SOA Suite 11g components in Oracle WebLogic Server domains.

Oracle Enterprise Manager Fusion Middleware Control

Expert instructors will also teach you how to use the Oracle Enterprise Manager Fusion Middleware Control Console. You'll use this console to perform the following administrative tasks: deploy SOA composite applications, configure SOA composite application resources, monitor SOA composite applications, manage and monitor service engines and update the state of SOA composite applications.

Audience

Administrator

SOA Architect

Security Administrators

System Administrator

System Integrator

Technical Administrator

Related Training

Required Prerequisites

Basic knowledge of SQL queries

Familiarity with basic Web Service concepts

Familiarity with command line scripts and interfaces

Oracle WebLogic Server 11g: Administration Essentials

Suggested Prerequisites

Oracle SOA Suite 11g: Essential Concepts

Course Objectives

Describe the Oracle SOA Suite 11g Architecture

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

Course Topics

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

Installing Oracle SOA Suite 11gSOA

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

Managing SOA Composite Applications

Describing Composite Application Structure and Dependencies

Deploying Composite Applications

Testing and Monitoring Composite Applications

Managing Composite Application Life Cycle

Administering the SOA Infrastructure

Configuring Oracle SOA Suite 11g SOA Infrastructure Properties

Monitoring SOA Infrastructure Run-time Information

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

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

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

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

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

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 ManagementApplication

Describing User Messaging PreferencesPreferences

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

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

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

Administering Business Events

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

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

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

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

Configuring High Availability for Oracle SOA Suite

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

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