# Oracle SOA Suite 11g: Administration

**Duration:** 5 Days

**What you will learn**

The Oracle SOA Suite 11g: Administration course describes how Oracle SOA Suite 11g, a Middleware component of Oracle Fusion Middleware, provides a complete set of service infrastructure components (such as Mediator, BPEL, Human Workflow, Business Rules, and Business Process Management components) for designing, deploying, and managing SOA composite applications. The participant is therefore required to have knowledge about essential Oracle WebLogic Server administration tasks. They learn how to install and configure Oracle SOA Suite 11g components in Oracle WebLogic Server domains. They learn to use the Oracle Enterprise Manager Fusion Middleware Control Console to perform administrative tasks such as deploying SOA composite applications, configuring SOA composite application resources, monitoring SOA composite applications, managing and monitoring service engines, and updating the state of SOA composite applications. They also learn how to troubleshoot SOA composite applications by performing corrective actions such as fault recovery. They are given a brief introduction to tuning and configuring Oracle SOA Suite 11g environment for high availability.

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

Configure Security Policies for SOA Composite applications

Backup and recover Oracle SOA Suite 11g

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**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: Conceptos Esenciales NUEVO

**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 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

**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 Iinformation
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 Management
Describing User Messaging Preferences

**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 Inplementation
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 Occurences

## 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 Oracel Fusion Middleware Environments
Recovering SOA Database Schemas