

Oracle SOA Suite 12c: System Architecture and Administration

Duration: 5 Days

What you will learn

This Oracle SOA Suite 12c: Architecture and Administration training helps you develop the knowledge and skills to plan, prepare and install an Enterprise Deployment Architecture to run Oracle SOA Suite 12c products. You'll learn the step-by-step process needed to create an Oracle SOA Suite 12c configuration by using two virtual machines for creating a cluster of WebLogic Server instances.

Learn To:

Install and configure Oracle SOA Suite 12c in a cluster configuration.

Initiate and create run-time instances.

Configure a Weblogic Server clustered domain with Oracle Fusion Middleware Infrastructure components.

Deploy application, monitor, tune and troubleshoot the environment for optimal day-to-day operations.

Configure and test the email notification service used by SOA composite applications and the human workflow operations.

Install and use Oracle Enterprise Scheduler Service.

Create Oracle Database schemas for Oracle Fusion Middleware products.

Configure a load balancer for servicing client requests.

Benefits to You

By taking this course, you'll build a solid foundation to create an environment that supports scalability and high availability, and that is integrated with an LDAP server for authentication and authorization services. You'll walk away from this course with the ability to monitor and take action to tune Oracle SOA Suite 12c, the Oracle Database and SOA Suite components for optimal performance.

Audience

Administrator
Application Server Administrators
Architect
Network Administrator
Security Administrators
System Administrator
System Integrator
Systems Architects

Related Training

Course Objectives

Configure a Weblogic Server clustered domain with Oracle Fusion Middleware Infrastructure components

Extend the WebLogic Cluster with Oracle SOA Suite 12c

Deploy, test, and troubleshoot SOA composite applications

Monitor and take action to tune Oracle SOA Suite 12c, the Oracle Database, and SOA Suite components for optimal performance

Configure a Load Balancer for servicing client requests

Integrate an LDAP Server for authorization and authentication

Extend the Weblogic Domain to include Oracle Enterprise Scheduler Service

Plan and design an Enterprise Deployment SOA architecture

Create Oracle Database schemas for Oracle Fusion Middleware products

Install Oracle Fusion Middleware Infrastructure 12c software

Install Oracle SOA 12c software

Course Topics

Introduction to Oracle SOA Suite 12c Administration

About Service-Oriented Architecture (SOA) concepts

Overview of Oracle SOA Suite 12c products

Exploring the road map for creating an Enterprise Deployment architecture

Planning Oracle SOA Suite 12c Deployments

Choosing an appropriate deployment topology

Preparing the network environment and file system for Oracle SOA Suite 12c

Preparing and planning the database strategy

Planning an SOA deployment topology based on the Enterprise Deployment architecture reference model

Planning an architecture for scalability, high availability, and failover

Installing Oracle SOA Suite 12c: Creating the Fusion Middle Infrastructure

Choosing the type domain and installation approach

Installing Oracle Fusion Middleware Infrastructure software

Creating the Oracle Database schemas for Oracle Fusion Middleware Infrastructure

Creating a WebLogic Domain with Oracle Fusion Middleware Infrastructure

Configuring WebLogic Server to use an external LDAP server for authentication and authorization

Installing Oracle SOA Suite 12c: Extending the Domain with Oracle SOA Suite

Managing web-tier installation and configuration tasks

Installing Oracle SOA Suite 12c

Creating the Oracle Database schemas for Oracle SOA Suite 12c

Extending the WebLogic domain with Oracle SOA Suite 12c components

Installing Oracle SOA Suite 12c: Configuring the Load Balancer for Enterprise Deployment

Explain the load balancer configuration requirements for an Enterprise Deployment topology

Create and configure a WebLogic Managed Server as a (software) load balancer

Configuring High Availability for Oracle SOA Suite 12c

Reviewing the high availability architecture

Scaling out an enterprise deployment topology

Configuring high availability for the Administration Server

Configuring JCA Adapter (File, Database, and JMS) Resources for SOA applications

Fundamentals of Oracle SOA Suite

Describing service-oriented architecture (SOA)

Explaining how services communicate

Describing the functionality of each type of Oracle SOA Suite 12c service component

Deploying and Testing SOA Composite Applications

Deploying a Composite application by using Ant tools

Deploying and Testing Composite applications by using Oracle Enterprise Manager

Tracking Message flow through a Composite Application

Deploying a Composite application using Ant tools and Oracle Enterprise Manager

Describing a Composite application package and its dependencies

Managing Composite Applications and Their Life-Cycle

Deploying new versions of a Composite application

Creating partitions and deploy Composites to those partitions

Identifying Composite application dependencies

Managing the Composite application life-cycle using configuration plans and global token variables

Monitoring and Managing Instances, Service Components, and Service Engines

Configuring Logging, Audit Levels, and Sensors

Managing Faults in the Error Hospital

Managing Business Events

Describing Business Events and the Event Delivery Network

Managing events using Oracle Enterprise Manager

Configuring and Testing Oracle User Messaging Services

Introduction to Oracle User Messaging Services

Configuring Oracle User Messaging Services

Troubleshooting and Tuning Performance of Oracle SOA Suite 12c

Designing a tuning methodology

Identifying top areas that require tuning

Monitoring and tuning Oracle SOA Suite by collecting performance information and using diagnostic tools

Configuring selective tracing

Troubleshooting common problems

Backing Up and Recovery of Oracle SOA Suite Instances

Adopting a backup and recovery strategy
Backing up your Oracle Fusion Middleware environment
Recovering Oracle Fusion Middleware and Oracle SOA Suite

Configuring Security Services and Policies

Describing Web services security

Describing Oracle Web Services Manager Policy Framework

Creating or modifying security policy

Attaching a security policy to Web services

Monitoring the performance of Web services

Enterprise Scheduler Service (ESS)

Describing Enterprise Scheduler Service Installing Enterprise Scheduler Service Configuring scheduled jobs and related metadata Administering running and completed jobs