Oracle Fusion Middleware 11g: Administration Overview

Duration: 5 Days

What you will learn

This Oracle Fusion Middleware 11g course reviews some of the principal products and components under the Oracle Fusion Middleware umbrella. Get a high-level overview of the tools, tasks and techniques used to administer these products and components.

Learn To:

Describe Oracle Fusion Middleware architecture.

Create and configure a WebLogic domain for Fusion Middleware.

Deploy applications, including SOA Composite applications.

Monitor and control Fusion Middleware components using Enterprise Manager Fusion Middleware Control and other tools.

Use the most common Fusion Middleware administration utilities.

Key Products Covered

By enrolling in this course, you'll learn more about a wide range of products and tools, including: WebLogic Server, SOA Suite, Web Tier and Fusion Middleware Control.

Course Recommendations

This course is a great starting point if you're a system administrator who uses Oracle Fusion Middleware. To learn more about courses that provide more in depth coverage, please refer to the "Related Training" suggestions tab or to the Oracle University catalog.

Audience
System Administrator
Technical Administrator

Related Training

Suggested Prerequisites
Familiarity with one or more Oracle FMW products

System administration experience

Course Objectives
Install Fusion Middleware components

Configure the Metadata Repository for Fusion Middleware components

Create and extend WebLogic domains for Fusion Middleware components

Register system components with a WebLogic domain to enable monitoring by using Fusion Middleware Control

Configure Oracle Web Tier components as front-ends to Fusion Middleware components

Start, stop, reconfigure, and monitor WebLogic Server by using Fusion Middleware Control

Perform backup and recovery of a Fusion Middleware environment

Describe a high availability implementation for Fusion Middleware

Move a Fusion Middleware system from test to production by using Fusion Middleware utilities

Course Topics

Fusion Middleware Products and Architecture
What is Middleware
Oracle Fusion Middleware Architecture
Oracle Fusion Middleware Products
Fusion Middleware Tools Overview

Fusion Middleware Repositories
The Metadata Repository and Which Products Use It
The Repository Creation Utility
SOA Suite Schema Overview
WebCenter Schema Overview
Identity Management Schema Overview

Fusion Middleware Installation Overview
Supported Configurations Overview
Installation Planning Overview
Enterprise Deployment Guides (EDG) Overview
Installation Directory Structure
WLS Installation Overview
SOA Installation Overview
Identity Management Installation Overview
Installing Patches

WebLogic Server Concepts
WebLogic Domain
Managed Server / Administration Server
Cluster/Machine
Starting / Stopping Servers
Node Manager
Application Deployment Concepts
Data Source Concepts
Java Message Service (JMS) Concepts

Core WebLogic Server Administration and Monitoring
Starting Servers with Start Scripts
Boot Identity File (boot.properties)
WLS Administration Console Overview
Enterprise Manager Fusion Middleware Control
MBean Basics and JMX
Comparison of Fusion Middleware Control and the WebLogic Server Admin Console
Enterprise Manager Grid Control
WebLogic Scripting Tool (WLST)

Node Manager
Node Manager Architecture
Node Manager Configuration (Java-based Node Manager)
Basic Node Manager Properties
Enrolling Node Manager with a Domain
Node Manager Files
Node Manager Control of Servers (start/stop/auto restart)
Node Manager Best Practices

Configuring Fusion Middleware Components
Fusion Middleware Configuration Wizard Templates
Configuring Oracle Internet Directory
Configuring Oracle HTTP Server
Registering the Web Tier with WebLogic Server
Oracle HTTP Server (OHS) Basics
OHS as the Proxy to a WebLogic Server Cluster
Controlling OHS from Fusion Middleware Control
Configuring OHS to Front the Administration Server

Fusion Middleware Security
Oracle Platform Security Services
Users, Groups, and Roles
Identity Store
Identity Store and Authentication Providers
Configuring Authentication Providers
Credential and Policy Stores
Authorization Relationship to the Policy Store
SSL

Backup and Recovery
Introduction to Backup and Recovery
Homes: Oracle, Middleware, WebLogic
Backups
Recovery

Fusion Middleware High Availability
Fusion Middleware High Availability Overview
WebLogic Cluster Overview
SOA High Availability Considerations
ADF High Availability Architecture
WebCenter High Availability

Development to Production

The Software Lifecycle and WebLogic

Deployment Terms

What Can Be Deployed

Deployment Review

Deployment Plans

Moving from Test to Production (First Time)

Moving from Test to Production (Later)

Fusion Middleware Performance

Performance Tuning Methodology

JVM Tuning Overview

WebLogic Server Tuning

Tune Oracle HTTP Server (OHS)

Check Database Configuration

Basic SOA Suite Tuning

Basic WebCenter Tuning

Basic Identity Management Tuning