

Oracle SOA Suite 12c Training Course

Introduction

Overview of service-oriented architecture (SOA)
Oracle SOA 12c Features
XML, XSD, WSDL and SOAP Introduction

Installation

Overview of the fusion architecture
Overview of the Weblogic server & domain
Overview of the SOA server and Meta data schemas.

Part-1

Installation of SOA 12c
Creation of domains
Integrated domain
Standalone domain
Installation steps for SOA extension

Part-2

Installation steps Oracle Database (XE)
Installation /Creating steps required schemas (RCU) 12c
Installation steps SOA 12c
Creating the SOA domain
Installation steps SOA extension
Preparing the start and stop scripts for SOA server

Practice

Installation document for each installation

SCA Architecture

SCA Introduction & SCA components
Service Components & Binding Components
Description of Composite xml.
Describe SOA Composite Editor

BPEL Introduction & BPEL 2.0 Activities

BPEL overview
BPEL Templates
BPEL 2.0 features
BPEL 2.0 activities

Practice

Create Hello World BPEL process.
Deploy application to SOA server

Deployment, Debugging & Testing

Different deployment methods
SOA Debugger Introduction
HTTP Analyzer Introduction

Practice

Deploy Composite from EM console & Jdeveloper
Debugger Composite using SOA Debugger
Test composite from HTTP Analyzer & EM console

Templates & Sub Process

Template Introduction
Project Template
Component Template
Custom Activity Template
Sub processes Introduction
Inline Sub processes
Standalone Sub processes

Practice

Create, Import and Use Project Templates
Create, Import and Use Component Templates
Create, Import and Use Custom Activity Templates
Create, Import and Use Inline Sub processes
Create, Import and Use Standalone Sub processes

Mediator

Mediator introduction
Routing Rules in Mediator and Types

Practice

Create composite with Mediator component
Invoke Reference from Mediator

REST Service

REST introduction
WADL file introduction

Practice

Create RESTful services with GET & POST method with XML
Create RESTful services with POST method with JSON
Invoke RESTful services

MDS

MDS introduction
New features introduced in MDS
SOA Design time repository

Practice

Create, Delete MDS folders & Deploy Files to MDS
Export, Import of MDS files
Refer MDS files in Composite

Adapters and Accessing Adapter from BPEL

Adapter Framework
File/FTP Adapter
Advanced Queuing
Database Adapters
JMS adapters
Coherence Adapter Configuration
Default and Custom Cache for Coherence Adapter

Coherence Adapter Usage

Practice

File, JMS, DB Adapter

Coherence Adapter

Fault Handling and Exception Management

Fault types

Fault handling Framework new features

Design fault policies files

Catch and CatchAll blocks

Practice

Generate Business Fault and Handle it using Catch blocks

Handle technical (Run Time) Faults using Catch & catch All block

Handle faults using Fault Handling Framework

Enterprise Service Scheduler

ESS Introduction

ESS Components

Practice

Schedule SOA Composite

Managed File Transfer

MFT Introduction

MFT installation

MFT console overview

MFT components and features

Practice

File Transfer using MFT

Industrial SOA

Composites Lazy loading

SOA Composer

New FMW dashboard

Error Hospital and recovery