

Oracle Tuxedo 10g R3: Build SOA Applications Using SALT

Duration: 3 Days

What you will learn

This course describes how to enable current Tuxedo applications for SOA and how to build new SOA components using the Service Component Architecture (SCA) with Tuxedo as the platform.

Since SCA is a new feature of Services Architecture Leveraging Tuxedo (SALT), and is dependent on the SALT Web Services infrastructure, the course also describes how to configure and deploy SALT components in Tuxedo.

The addition of SALT and SCA in the Tuxedo infrastructure also delivers a number of new tools, which will be covered in the course.

Learn To:

- Create, load and maintain Tuxedo Service Metadata
- Advertise Tuxedo services as Web Services
- Use external web services from Tuxedo services
- Create, deploy and maintain SCA components
- Use SCA components from Tuxedo and other clients
- Configure and deploy SALT web service servers

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Audience

- Application Developers
- Developer
- SOA Architect

Related Training

Required Prerequisites

C/C++ programming experience

XML and schema knowledge

Web Services knowledge

Proficiency in ATMI programming

Oracle Tuxedo 10g R3: Application Administration

Course Objectives

Configure and deploy SALT servers

Create, load and maintain Tuxedo Service Metadata Repository

Advertise Tuxedo services as web services

Use external web services from Tuxedo services

Explain the Service Component Architecture (SCA)

Create and deploy SCA components in Tuxedo

Access Tuxedo services from SCA components

Use SCA services from different types of clients

Course Topics

Introduction to Oracle Tuxedo

What is Oracle Tuxedo

History of Oracle Tuxedo

SALT Overview

What is SOA

Designing with an SOA approach

Introducing SALT

SALT Web Services Overview

What are Web Services

What are SALT Web Services

SALT Architecture

SALT Use Cases

Configuring and Deploying SALT Web Services

The Tuxedo Service Metadata Repository

Configuring a Tuxedo Service to be Advertised as a Web Service

Configuring a Tuxedo Service to Use a Web Service

SALT Deployment

SALT Administration

SALT SCA Overview

What is SCA

Why SCA is important

The SCA Standard

SCA key concepts

SCA Architecture

Service Data Objects (SDO)

SCA and SDO in Tuxedo SALT

Programming SCA Components

Directory Structure and Important Files

Writing the Interface

Writing the Business Logic

Calling Other Components

Error Handling

The buildscacomponent Tool

The buildscaserver Tool

Additional Tools

Data Mapping

Simple and Complex Data Types

The Benefits of SDO

SDO and Tuxedo ATMI

Exceptions

SDO and XML

The mk*fromschema Utilities

Interoperability, Transactions, Security and Administration

Tuxedo Features and SCA (MSSQ, LDBAL etc)

Tuxedo Domain and MP Features and SCA

Transaction Policies

Security Policy

Tracing

Multithreading and Multicontext Considerations

Features of scaadmin

SCA Web Services Binding

Review SCA Domain and Composite Definitions

Web Service Binding – Architecture

Web Service Binding – SALT Configuration

Expose SCA Operation as Web Service

Use a Web Service from a SCA Component

buildscacomponent Specifics

buildscaserver Specifics

Programming SALT SCA Clients

Types of Clients

Implementing a SCA Client