

Introduction to Oracle SOA Suite 12c Administration

Agenda

- Discuss the key course objectives
- Complete introductions, and share course audience and prerequisite details
- Examine the lesson objectives and course agenda
- Introduce Service-Oriented Architecture (SOA) concepts
- Introduce Oracle SOA Suite 12c products
- Describe an enterprise deployment roadmap

Course Objectives

The goals of this course are:

- Installing and configuring Oracle SOA Suite 12c based on the Enterprise Deployment Guide reference architecture
- Deploying composite applications and managing their life cycle
- Monitoring and managing Oracle SOA Suite 12c and composite application performance

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Class Introductions

Briefly introduce yourself by providing the following details:

- Name
- Title/position
- Company
- WebLogic Server experience
- Reasons for attending

Audience

The target audience includes the following:

- System architects
- SOA Administrators
- SOA Deployers
- Application administrators
- System administrators
- Web administrators

Prerequisites

To successfully complete this course, the following requirements are beneficial to maximize your experience:

- Working experience of Oracle WebLogic Server (required)
- Knowledge of SOA concepts (suggested)
- Basic database administration and SQL experience
- Basic network topology knowledge and configuration skills

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Lesson Objectives

After completing this lesson, you should be able to:

- Discuss Service-Oriented Architecture (SOA) concepts
- Describe Service Component Architecture (SCA) specifications
- Describe core Oracle SOA Suite 12c products
- Describe the roadmap for an enterprise deployment



Course Scope

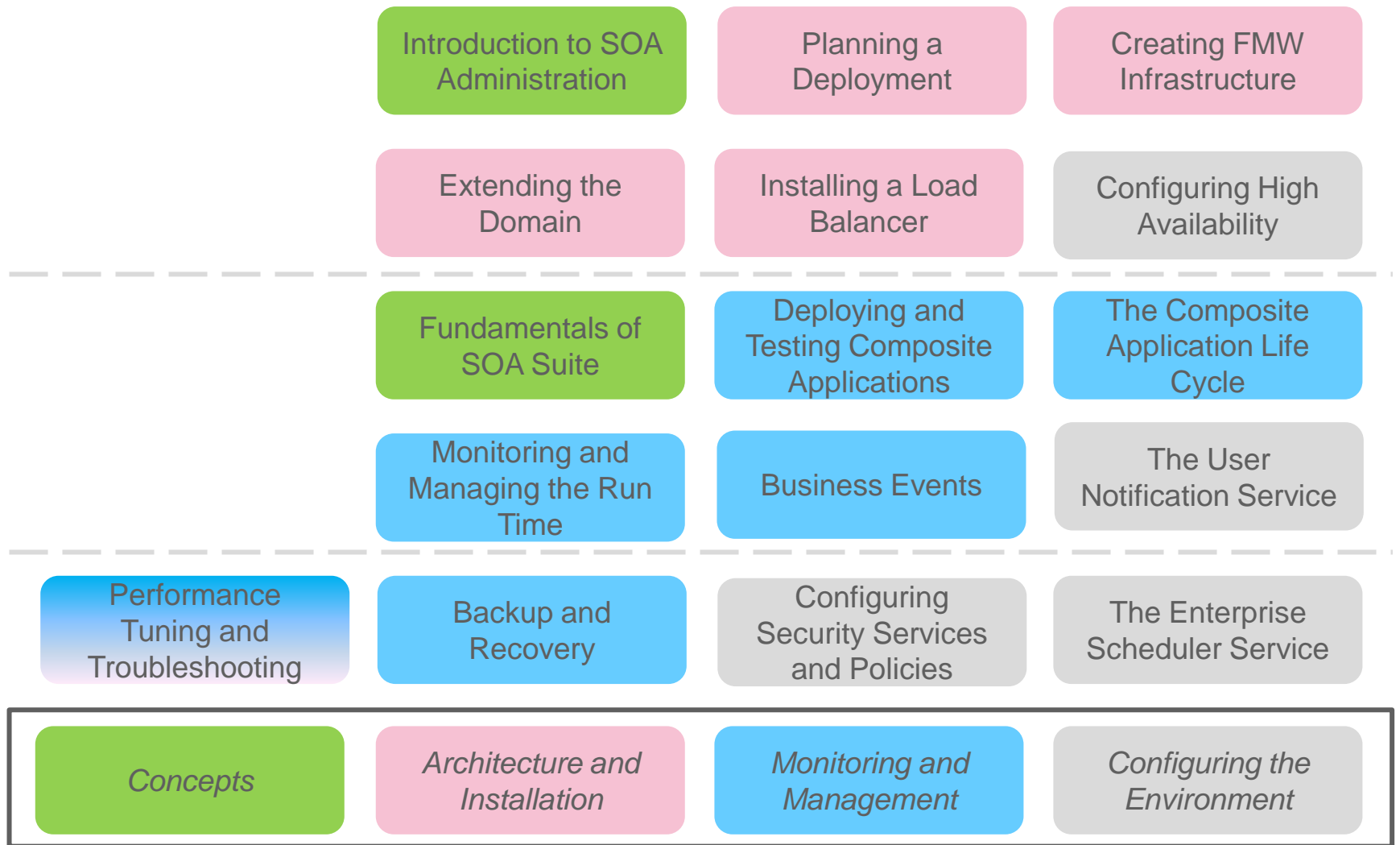
SOA Suite Installation

- Topology and high availability
- Oracle Enterprise Manager
- Service Infrastructure
- Oracle Mediator
- Oracle Adapters
- Oracle Business Rules
- Oracle BPEL Process Manager
- Human Workflow
- Business Events and Events Delivery Network
- Oracle Metadata Repository
- Oracle WSM Policy Manager
- Oracle User Messaging Service
- Oracle Enterprise Scheduler

- Oracle JDeveloper
- Spring Context
- Oracle Business Activity Monitoring
- Oracle B2B
- Oracle Service Bus
- Managed File Transfer
- Oracle Event Processing

This course explores these topics.

Course Map



Course Schedule

Session		Module
Day 1	A.M.	Lesson 1: Introduction to Oracle SOA Suite 12c Administration Lesson 2: Planning an Oracle SOA Suite 12c Deployment Architecture
	P.M.	Lesson 3: Installing Oracle SOA Suite 12c: Creating the Fusion Middleware Infrastructure
Day 2	A.M.	Lesson 4: Installing Oracle SOA Suite 12c: Extending the Domain with Oracle SOA Suite
	P.M.	Lesson 5: Installing Oracle SOA Suite 12c: Configuring the Load Balancer for Enterprise Deployment
Day 3	A.M.	Lesson 6: Configuring High Availability Lesson 7: Fundamentals of Oracle SOA Suite
	P.M.	Lesson 8: Deploying and Testing Composite Applications Lesson 9: Managing the Composite Application Life Cycle

Course Schedule

Session		Module
Day 4	A.M.	Lesson 10: Monitoring and Managing Instances, Service Components, and Service Engines Lesson 11: Managing Business Events
	P.M.	Lesson 12: Configuring User Messaging Services Lesson 13: Troubleshooting and Performance Tuning of Oracle SOA Suite 12c
Day 5	A.M.	Lesson 14: Backup and Recovery of Oracle SOA Suite Instances Lesson 15: Securing SOA Composites at Run Time
	P.M.	Lesson 16: Enterprise Scheduler Service (ESS)

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Service-Oriented Architecture: Overview

SOA is defined as:

- A “paradigm for organizing and utilizing distributed capabilities that may be under the control of different ownership domains”—Organization for the Advancement of Structured Information Standards (OASIS) definition
- An IT strategy that organizes the discrete functions contained in enterprise applications into interoperable, standards-based services to be combined and reused quickly to meet business requirements

From a technical perspective, SOA is a standards-based method of systems development and integration.

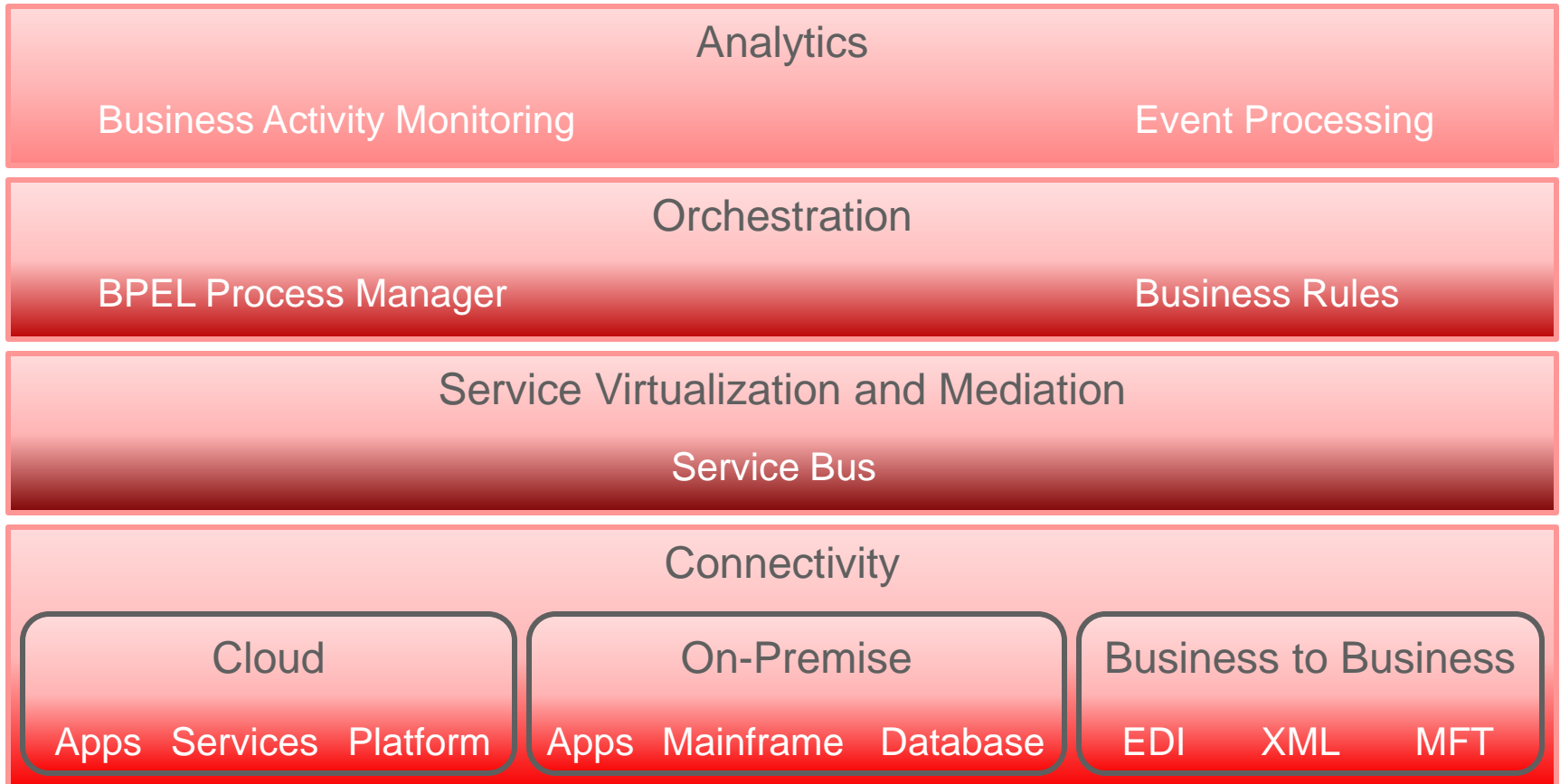
SOA Applications and Services

- Services:
 - Provide access to data, business processes, and IT infrastructure, ideally in an asynchronous manner
 - Are building blocks for SOA-based applications, which are implemented by using web services standards such as XML and Web Service Definition Language (WSDL)
- SOA application implementations can be thought of as:
 - A collection of services on a network that communicate with one another
 - A set of services that are loosely coupled, with well-defined, reusable, platform-independent interfaces
 - A higher level of application development

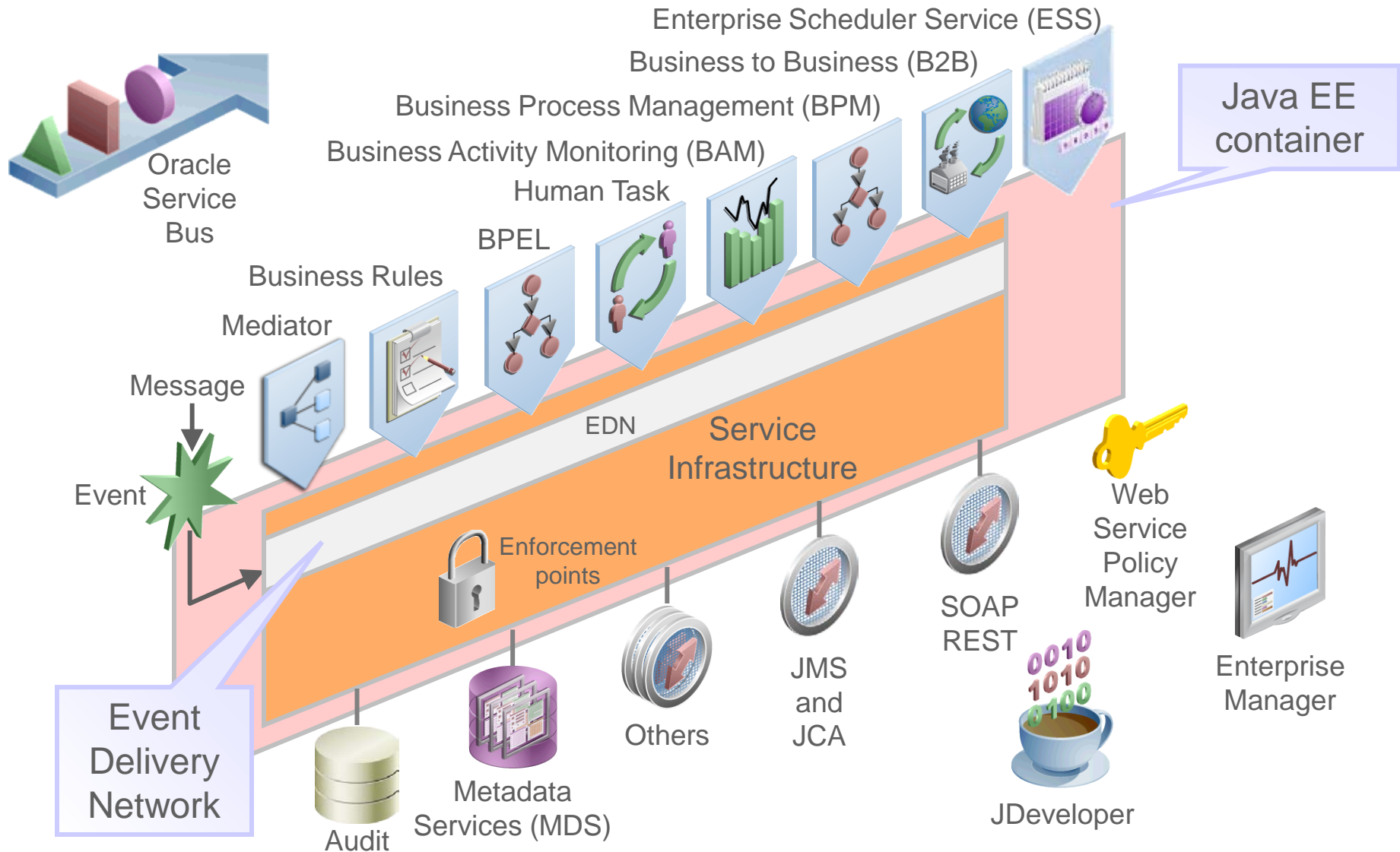
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Introducing Oracle SOA Suite 12c



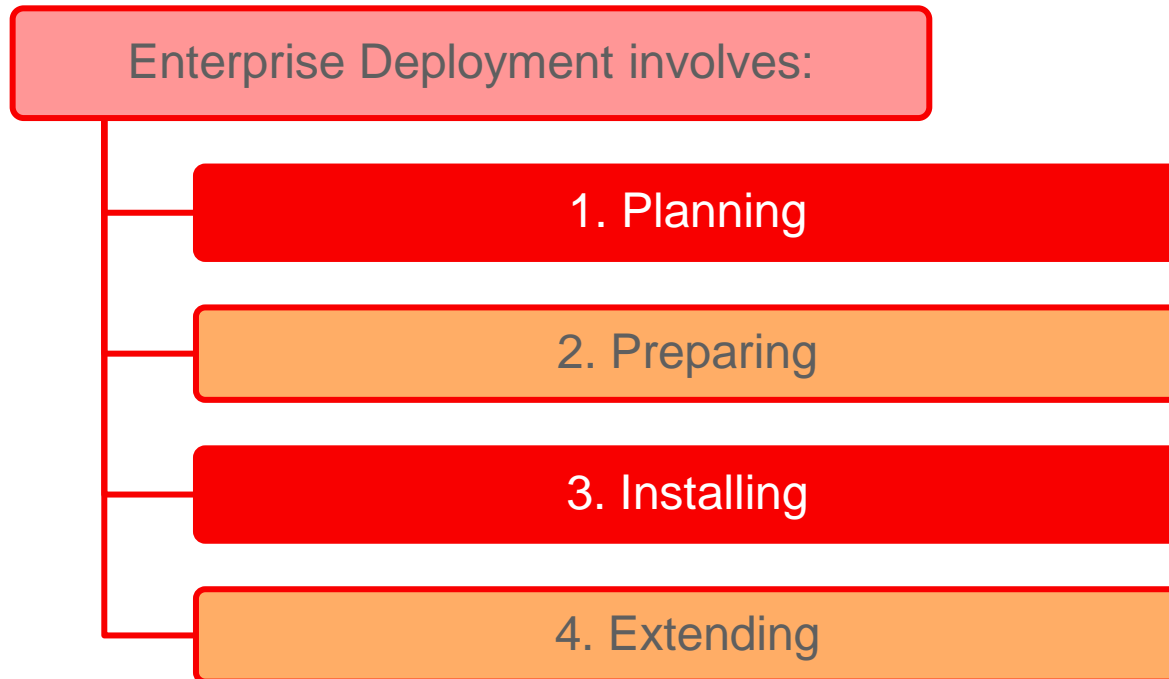
Oracle SOA Suite 12c Components



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Roadmap for Implementing an Enterprise Deployment



Planning an Enterprise Deployment

Explaining a typical Enterprise Deployment

Appreciating the Oracle SOA Suite Reference Topology

Documenting plans with the Oracle SOA Suite Workbook

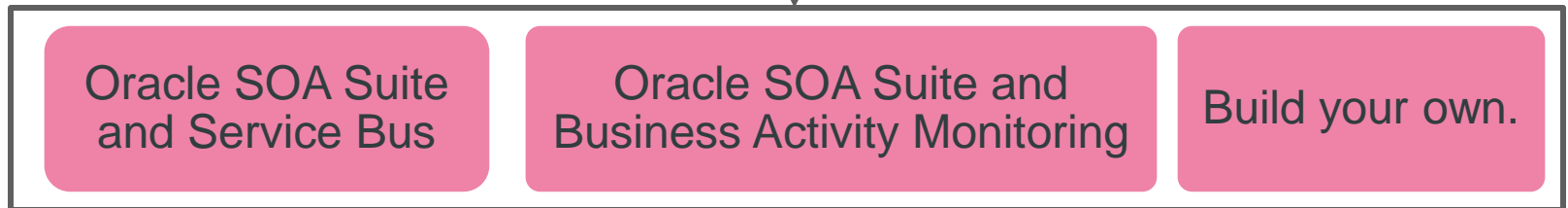
Procuring hardware, network, and software resources

Installing the Initial Enterprise Deployment

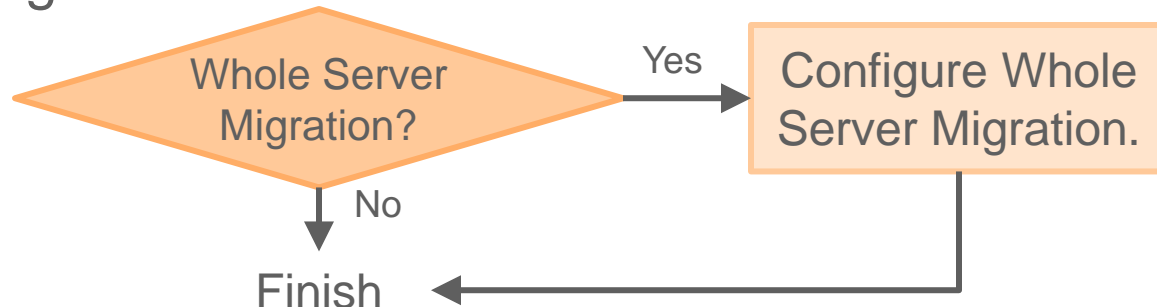
- Initial installation and configuration tasks:



- Extending the deployment:

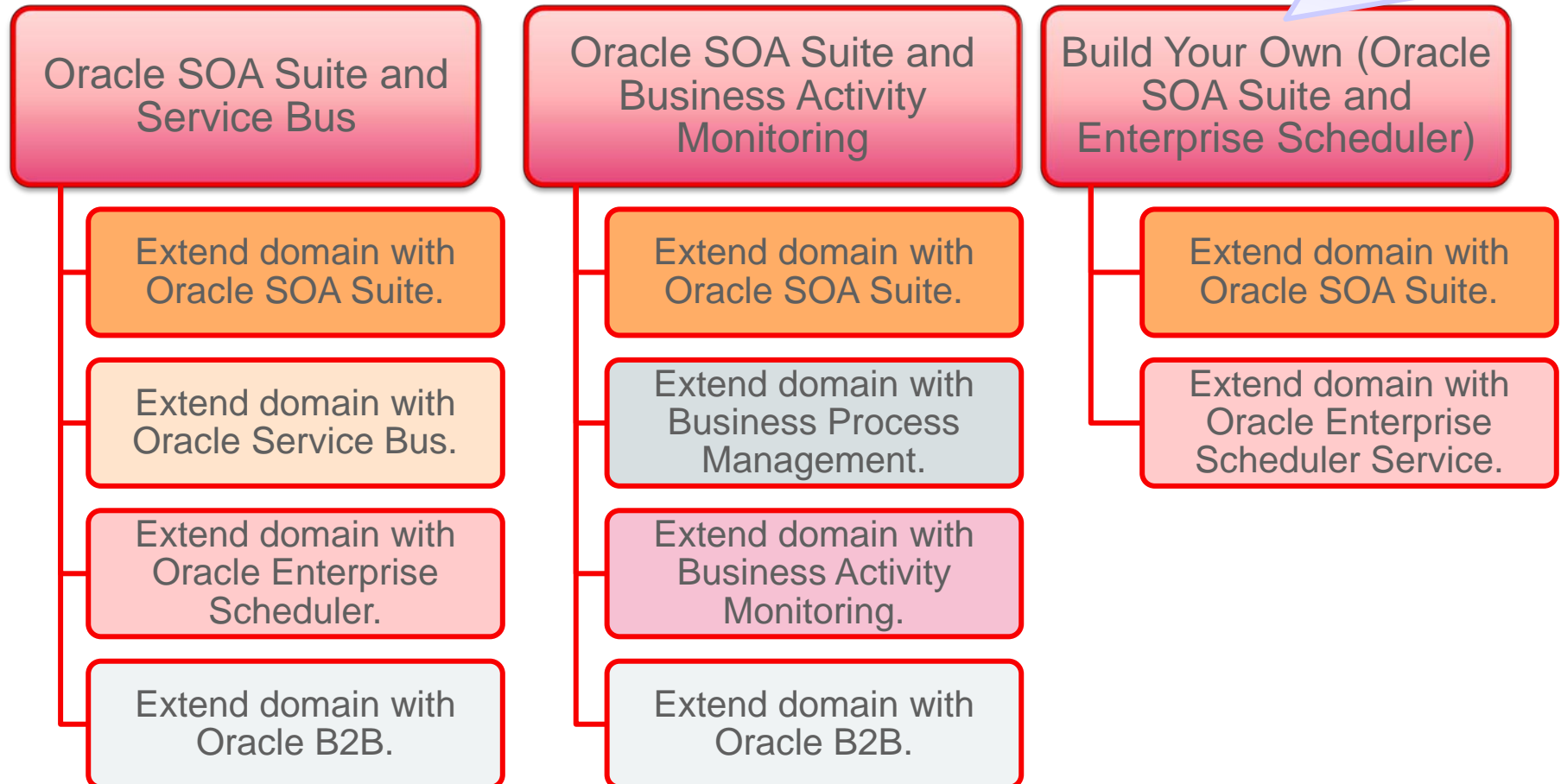


- Post-configuration tasks:

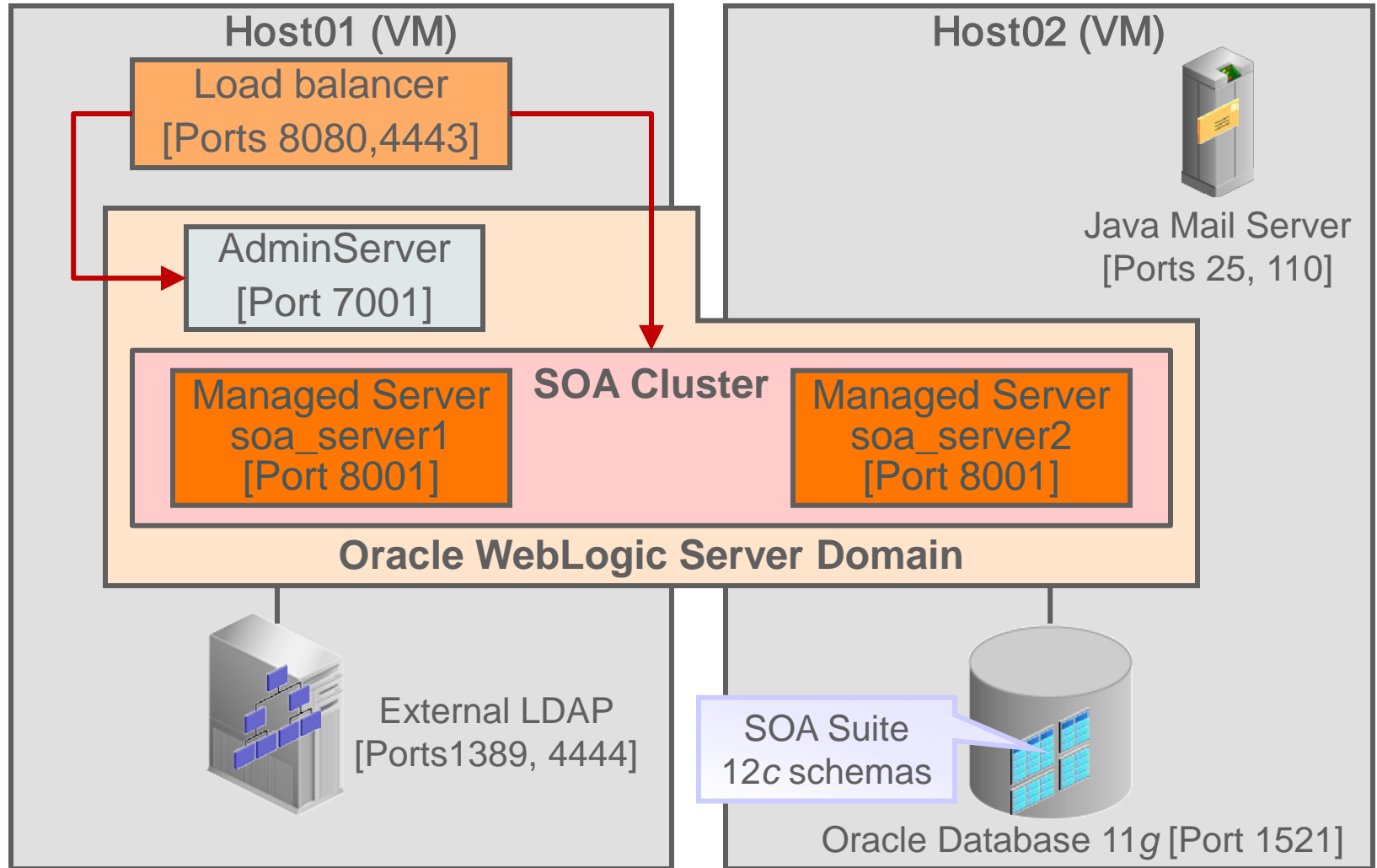


Extending an Enterprise Deployment: Selecting Your Topology or Building Your Own

The “build your own” example is one of many custom configurations possible.



Course Enterprise Deployment Topology: Overview



How Can I Learn More?

Topic	Website
Education and Training	http://education.oracle.com
Product Documentation	http://www.oracle.com/technology/documentation
Product Downloads	http://www.oracle.com/technology/software
Product Articles	http://www.oracle.com/technology/pub/articles
Product Support	http://www.oracle.com/support
Product Forums	http://forums.oracle.com
Product Tutorials	http://www.oracle.com/technology/obe
Sample Code	http://www.oracle.com/technology/sample_code
Topology Suggestions	https://blogs.oracle.com/soa/
Upgrading to SOA Suite 12c	https://apexapps.oracle.com/pls/apex/f?p=44785:24:0::::P24_CONTENT_ID,P24_PREV_PAGE:9768,1

Summary

In this lesson, you should have learned how to describe the following:

- Service-Oriented Architecture (SOA) concepts
- Core Oracle SOA Suite 12c products
- The roadmap for an enterprise deployment

