### Contents

## 1 Getting Started with Oracle SOA Suite on Marketplace

Objectives 1-2

Oracle SOA Suite on Marketplace: Overview 1-3

Introduction to Oracle SOA Suite on Marketplace 1-4

Oracle SOA Suite on Marketplace: Features 1-6

Features of Oracle SOA Suite on Marketplace 1-7

Oracle SOA Cloud Service Vs. SOA Suite on Marketplace 1-8

Oracle SOA Suite on Marketplace: Components 1-10

Components of Oracle SOA Suite on Marketplace 1-11

OCI for Oracle SOA Suite: Components 1-13

Components of OCI – For SOA Suite 1-14

Managing the Life Cycle of Oracle SOA Suite onMarketplace Instances:

Workflow 1-15

Workflow for Managing the Life Cycle of Oracle SOA Suite on Marketplace

Instances 1-16

Oracle SOA Suite on Marketplace Topologies 1-18

Oracle Cloud Infrastructure: Networking Basics 1-19

Oracle SOA Suite on Marketplace Topologies: Scenario A 1-20

Oracle SOA Suite on Marketplace Topologies: Scenario B 1-21

Oracle SOA Suite on Marketplace Topologies: Scenario C 1-22

Summary 1-23

## 2 Prerequisites for SOA Provisioning

Objectives 2-2

Prerequisites for SOA Suite Provisioning 2-3

Create a Compartment 2-5

Creating a New Compartment in OCI 2-6

View the Compartment Details 2-8

Set Up a Virtual Cloud Network 2-9

View the Virtual Cloud Network Details 2-12

Configure Security Lists 2-13

Generate an SSH Key Pair 2-14

Generating the SSH Keys from Cloud Shell 2-15

Generate an SSH Key Pair on Windows Using PuTTYgen 2-16

Create an Oracle Database for Oracle SOA Suite 2-17

Create an OCI Database for Oracle SOA Suite 2-19

Create an ATP Database for Oracle SOA Suite 2-20

Autonomous Processing Database Details 2-22

Summary 2-23

Practice 2: Prerequisites for SOA Provisioning 2-24

## 3 Provision an Oracle SOA Suite on Marketplace Instance

Objectives 3-2

Provision an Oracle SOA Suite on Marketplace Instance 3-3

Provision an Oracle SOA Suite on Marketplace Instance Using OCI Console 3-5

Creating an SOA Suite Instance: Oracle Cloud Infrastructure 3-6

Creating an SOA Suite Instance: Launch Stack 3-7

Creating an SOA Suite Instance: Stack Information 3-8

Creating an SOA Suite Instance: Configure Variables 3-10

Creating an SOA Suite Instance: Networking 3-12

Creating an SOA Suite Instance: Configure Database 3-13

Creating an SOA Suite Instance: Review Configuration 3-14

Oracle SOA Suite Stack: Provision Status 3-15

View Oracle SOA Suite Stack Details 3-16

View Oracle SOA Suite: Job Details 3-18

View Compute Instance Details 3-19

View Virtual Cloud Network: Details 3-20

Provisioning an Oracle SOA Suite Instance: Quick Start 3-21

Oracle SOA Suite on Marketplace Quick Start Instance 3-22

Oracle a SOA Suite Quick Start Instance: Launch Stack 3-23

Create a Quick Start Instance: Stack Information 3-25

Create a Quick Start Instance: Configure Variables 3-26

Creating a SOA Suite Instance: Review Configuration 3-27

Oracle SOA Suite Quick Start Instance: Provision Status 3-28

Complete Post-Provisioning Tasks 3-29

Add Ingress Rules to Access WebLogic Server and Other Consoles 3-30

Add Ingress Rules to Access WebLogic Server and Enterprise Manager 3-31

Access an Oracle SOA Suite on Marketplace Instance 3-32

Access an Oracle SOA Suite-Job Details 3-33

Access an Oracle SOA Suite: Outputs 3-34

Access WebLogic Server Administration Console 3-35

Access Oracle Enterprise Manager 3-36

Summary 3-37

Practice 3: Provision Oracle SOA Suite on Marketplace Instances 3-38

# 4 Deploy Applications for Oracle SOA Suite on Marketplace

Objectives 4-2

Deployment Tasks for an Oracle SOA Suite Instance 4-3

Deployment Tasks for an Oracle SOA Suite on Marketplace Instance 4-4

Deploy an Application Using Oracle JDeveloper 4-5

Set Up the JDeveloper Environment 4-7

Add an Ingress Rule to Allow the JDeveloper Connection 4-8

Set the Manual Proxy in Oracle JDeveloper 4-10

Create an Application Server Connection 4-11

Deploy a SOA Composite Application from JDeveloper 4-13

Test the Deployed Application from Enterprise Manager 4-15

Deploy an Application Using Oracle Enterprise Manager Fusion Middleware Control 4-17

Deploying an Application Using Oracle Enterprise Manager 4-18

Oracle Enterprise Manager Fusion Middleware Control - Deploying an Application 4-21

Access the Deployed Application - Oracle Enterprise Manager 4-22

Undeploying an Application Using Oracle Enterprise Manager Fusion Middleware Control 4-25

Deploying an Application Using the WebLogic Server Administration Console 4-26

Deploying an Application - WebLogic Server Administration Console 4-28

Access the Deployed Application from WebLogic Server Administration Console 4-34

Undeploying an Application - WebLogic Server Administration Console 4-37

Summary 4-38

Practice 4: Deploy Applications for Oracle SOA Suite on Marketplace 4-39

#### 5 Manage Oracle SOA Suite on Marketplace Instance

Objectives 5-2

Manage Oracle SOA Suite on Marketplace Instance: Overview 5-3

Manage Oracle SOA Suite on Marketplace Instance 5-4

Edit an Oracle SOA Suite on Marketplace Instance 5-5

Add a Load Balancer 5-7

Load Balancer 5-8

Add a New Load Balancer in a New Subnet 5-10

Remove the Managed Server Security List from Subnet 5-11

Edit the Stack to Add a New Load Balancer in New Subnet 5-12

Execute the Terraform Plan Operation 5-13

Execute the Terraform Apply Operation 5-14

Get the Load Balancer Details and Validate Results 5-15

Update the Load Balancer Details in the WebLogic Server Administration Console 5-16

Restart the Servers 5-18

Verify the Load Balancer Health 5-19

Access the Application Using Load Balancer 5-20

Add a New Load Balancer in an Existing Subnet 5-21

Delete a Load Balancer 5-22

Delete a Load Balancer When Added in a New Subnet 5-23

Delete a Load Balancer When Added in an Existing Subnet 5-24

Access a VM Through a Secure Shell (SSH) 5-25

Connect to the Administration and Managed Server VM 5-27

Change VM Users 5-29

Create an SSH Tunnel 5-30

Accessing the WebLogic Administration Console 5-32

Run WLST Commands on a VM 5-33

Summary 5-34

Practice 5: Manage Oracle SOA Suite on Marketplace Instance 5-35

# 6 Perform Database Operations for an Oracle SOA Suite on Marketplace Instance

Objectives 6-2

Discover the Default Database Schema Prefix and Password 6-3

Create a Data Source for an Oracle Autonomous Transaction Processing

Database 6-4

Create a Data Source for an Oracle ATP 6-5

Download the ATP Wallet 6-6

Configure a Data Source for an ATP Database Using Create Script 6-8

Configure a Data Source for an ATP Database Using WebLogic Administration Console 6-9

Configure a Data Source Using WebLogic Administration Console 6-10

Summary 6-13

Practice 6: Perform Database Operations for an Oracle SOA Suite on Marketplace Instance 6-14

### 7 Manage the Life Cycle of an Oracle SOA Suite on Marketplace Instance

Objectives 7-2

Perform Life Cycle Operations on an Oracle SOA Suite Instance 7-3

Overview of Scaling 7-5

Cluster Scale Out and Instance Up Oracle SOA Suite Instance 7-6

Execute the Terraform Plan Operation 7-7

Execute the Terraform Apply Operation 7-8

Validate the Results - WebLogic Console 7-9

Validate the Results - Compute Instance 7-10

Stop or Start an Oracle SOA Suite on Marketplace Instance 7-11

Start Admin and Managed Servers 7-14

Stop and Start the Managed Server - WebLogic Administration Console 7-15

Disable Server Restart During an Instance Reboot 7-16

Summary 7-18

Practice 7: Manage the Life Cycle of an Oracle SOA Suite on Marketplace Instance 7-19