

Practice 3-1: Deploying and Testing the HelloWorld Composite Application

Overview

In this practice, you deploy the HelloWorld composite application project to the SOA server and use the Enterprise Manager web application to test the service with a sample input. To complete this task, perform the following steps:

Assumptions

This practice assumes that you have completed Practice 2 successfully.

Tasks

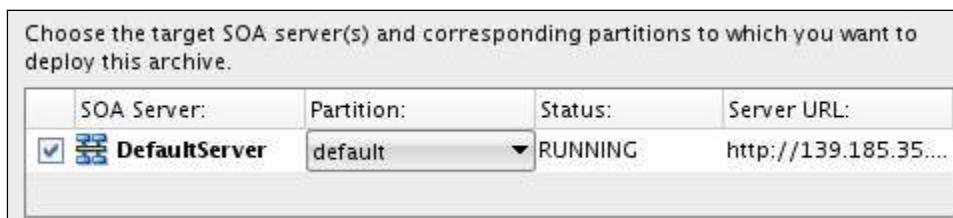
Deploying the HelloWorld Composite Application

1. In the JDeveloper Application Navigator, right-click the HelloWorld project and select Deploy > HelloWorld.

The Deploy HelloWorld wizard opens.

2. Use the instructions in the following table to complete the deployment:

Step	Window/Page Description	Choices or Values
a.	Deployment Action	Deploy to Application Server. Click Next.
b.	Deploy Configuration	Select the "Overwrite any existing composites with the same revision ID" check box. Click Next.
c.	Select Server	IntegratedWebLogicServer Click Next.
d.	SOA Servers	Verify that the DefaultServer status is RUNNING as shown in the following screenshot. Click Next.
e.	Summary	Click Finish.

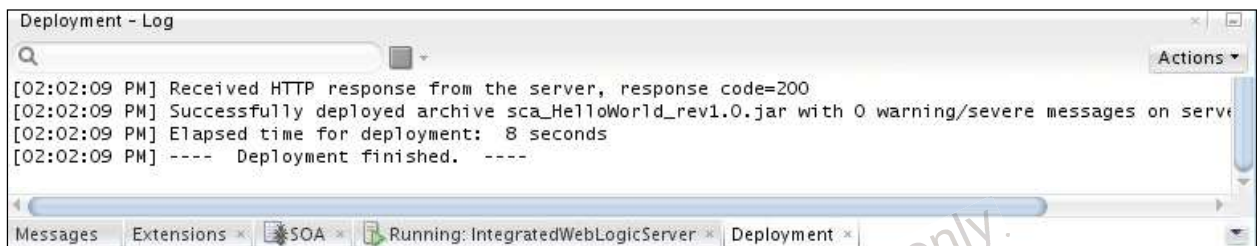


Deployment processing starts.

3. Monitor deployment progress and check for successful compilation in the SOA – Log window.



4. Verify that deployment is successful in the Deployment – Log window, similar to what is shown in the following screenshot:

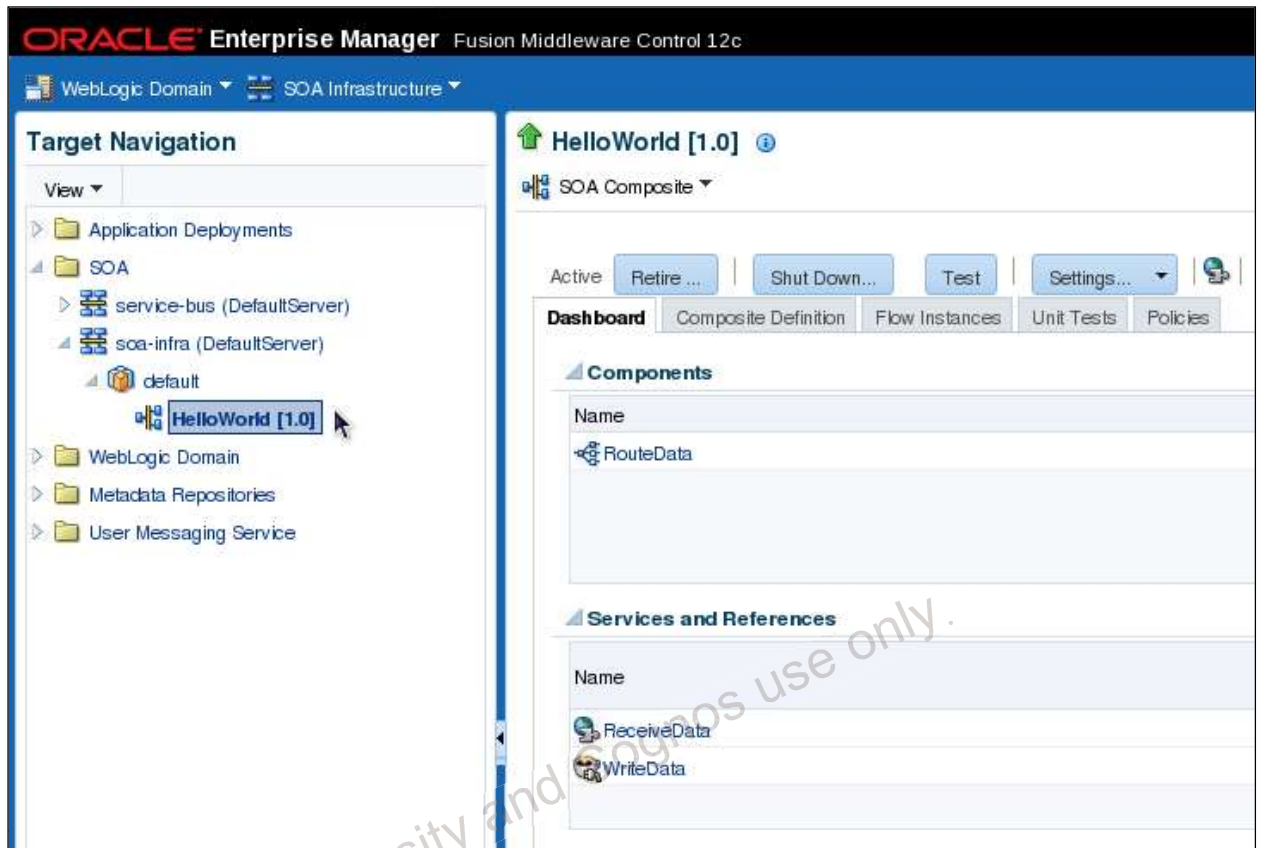


Testing HelloWorld by Using Enterprise Manager Web Interface

In this section, you use a web browser to access Oracle Enterprise Manager 12c Fusion Middleware Control and initiate a test of the deployed HelloWorld application.

5. Log in to the Oracle Enterprise Manager Fusion Middleware Control 12c application by performing the following steps:
 - a. Open a web browser and provide the URL `http://localhost:7101/em`.
 - b. Log in by using the username `weblogic` and the password `welcome1`.

6. In the Target Navigation pane, expand the SOA > soa-infra > default nodes in the tree and click the “HelloWorld [1.0]” link.

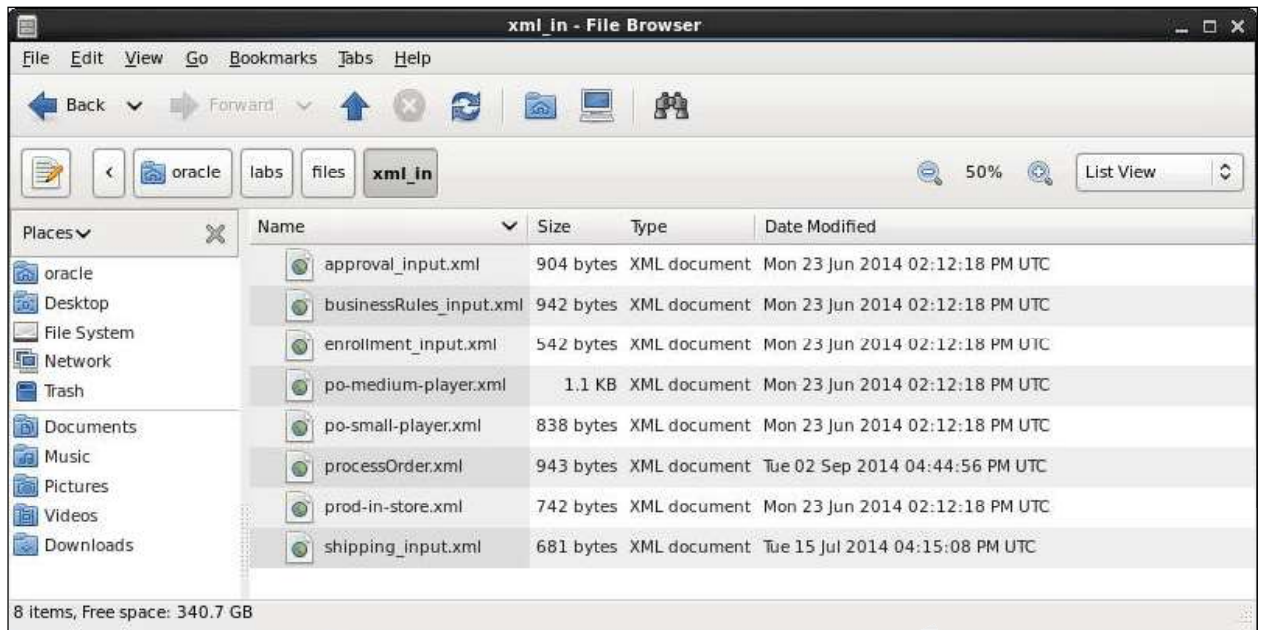


7. To initiate a test of the HelloWorld composite, perform the following steps:
 - a. On the “HelloWorld [1.0]” home page, click Test.



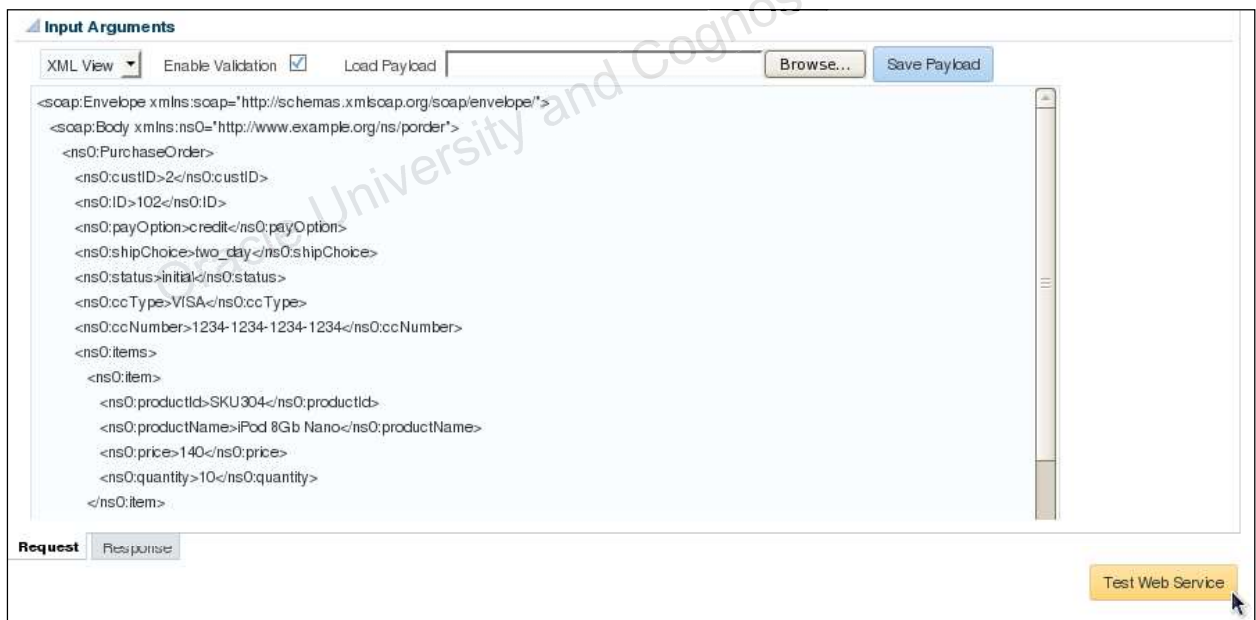
- b. On the Request tab, click the Browse button and navigate to the /home/oracle/labs/files/xml_in folder.

- c. Select `po-medium-player.xml`. Click Open.



The initially supplied XML text is replaced by the contents of the file.

8. Click Test Web Service.

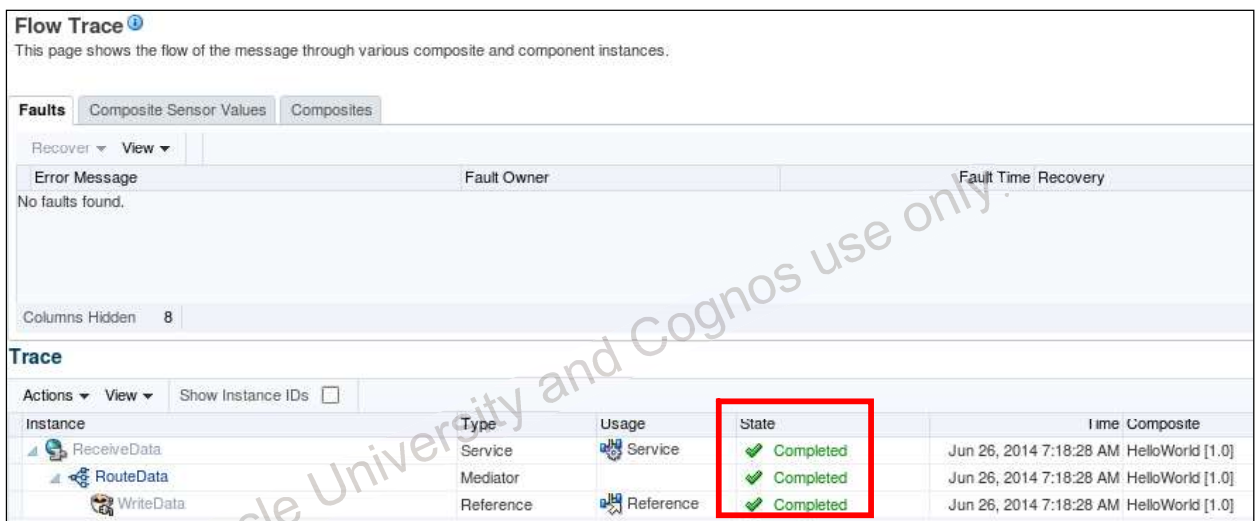


Note: This action sends the XML data as an input message to the HelloWorld composite application. It might take several seconds for the page to refresh with the response that is displayed on the Response tab. Wait until the page is refreshed.

9. On the “HelloWorld [1.0]” Response tab page, click the Launch Flow Trace button to view the results of the asynchronous composite application.

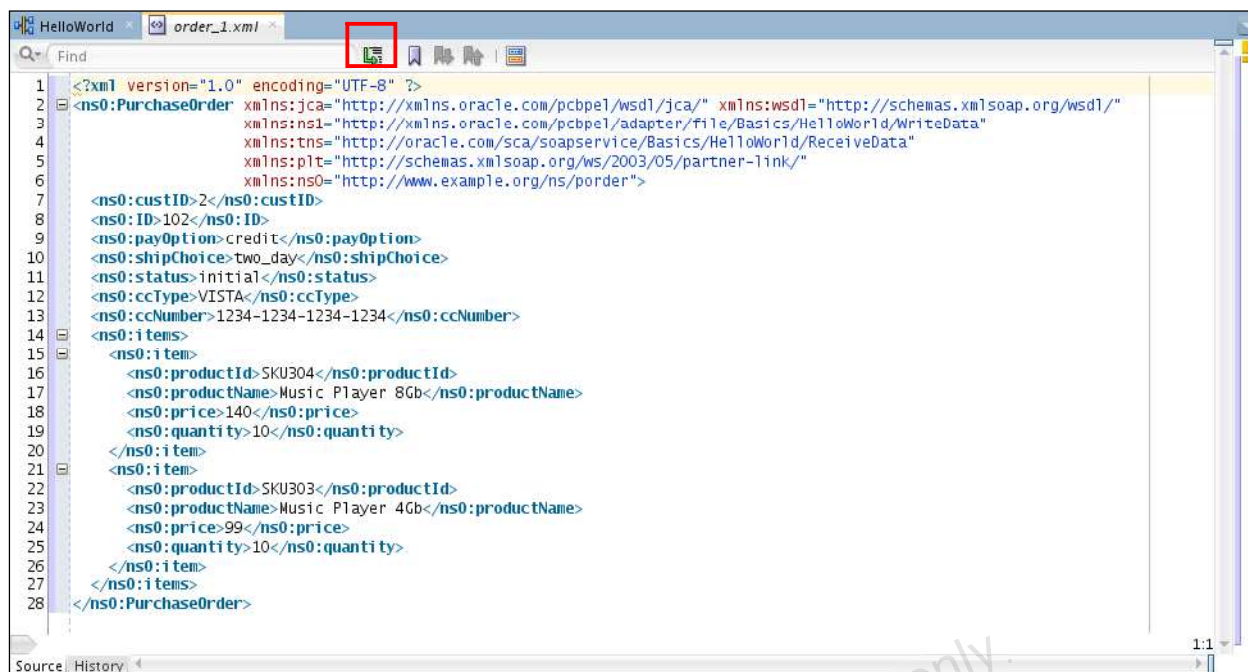


10. On the Flow Trace page, verify that the ReceiveData, RouteData, and WriteData components have a Completed state, indicating that the application executed successfully.



11. Close the Flow Trace window and minimize your browser.
12. Using JDeveloper, open the output file
/home/oracle/labs/output/podata/order_1.xml to view its contents.
13. Click the Reformat icon.

14. Verify that the XML file contains data similar (or identical) to the following screenshot:



```
1 <?xml version="1.0" encoding="UTF-8" ?>
2 <ns0:PurchaseOrder xmlns:jca="http://xmlns.oracle.com/pcbpel/wsdl/jca/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
3   xmlns:ns1="http://xmlns.oracle.com/pcbpel/adapters/file/Basic/HelloWorld/WriteData"
4   xmlns:tns="http://oracle.com/sca/soapService/Basic/HelloWorld/ReceiveData"
5   xmlns:plt="http://schemas.xmlsoap.org/ws/2003/05/partner-link/"
6   xmlns:ns0="http://www.example.org/ns/porder">
7   <ns0:custID>2</ns0:custID>
8   <ns0:ID>102</ns0:ID>
9   <ns0:payOption>credit</ns0:payOption>
10  <ns0:shipChoice>two_day</ns0:shipChoice>
11  <ns0:status>initial</ns0:status>
12  <ns0:ccType>VISTA</ns0:ccType>
13  <ns0:ccNumber>1234-1234-1234-1234</ns0:ccNumber>
14  <ns0:items>
15    <ns0:item>
16      <ns0:productId>SKU304</ns0:productId>
17      <ns0:productName>Music Player 8Gb</ns0:productName>
18      <ns0:price>140</ns0:price>
19      <ns0:quantity>10</ns0:quantity>
20    </ns0:item>
21    <ns0:item>
22      <ns0:productId>SKU303</ns0:productId>
23      <ns0:productName>Music Player 4Gb</ns0:productName>
24      <ns0:price>99</ns0:price>
25      <ns0:quantity>10</ns0:quantity>
26    </ns0:item>
27  </ns0:items>
28 </ns0:PurchaseOrder>
```

15. In the JDeveloper window, close the order_1.xml window.