DB Adapter Integration

Demo

Heba Owis

26 May 2024

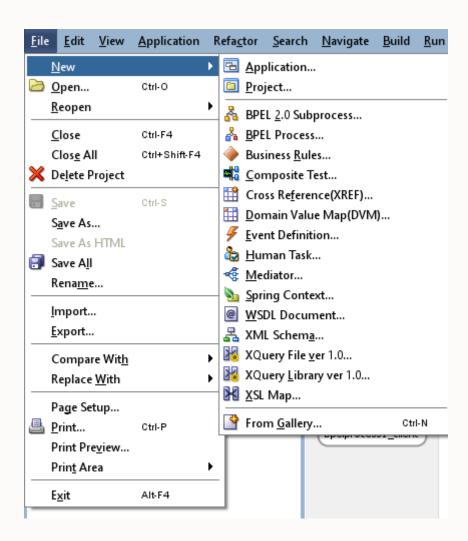
Agenda

- 1. Development of "QueryDept" SOA Composite
- 2. Deployment of SOA Composite

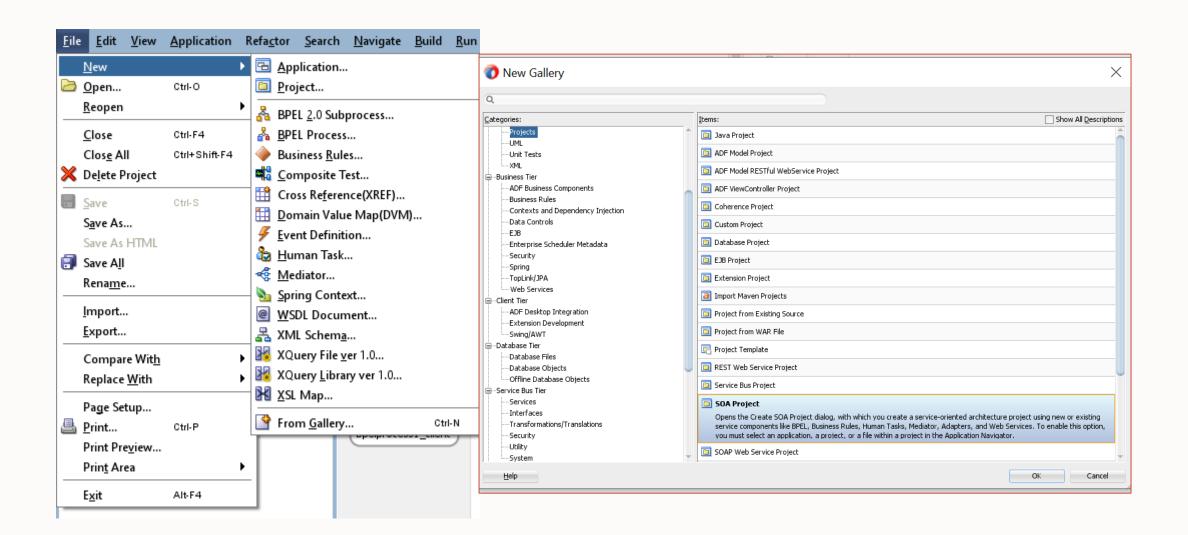
Development of "QueryDept" SOA Composite

DB Adapter

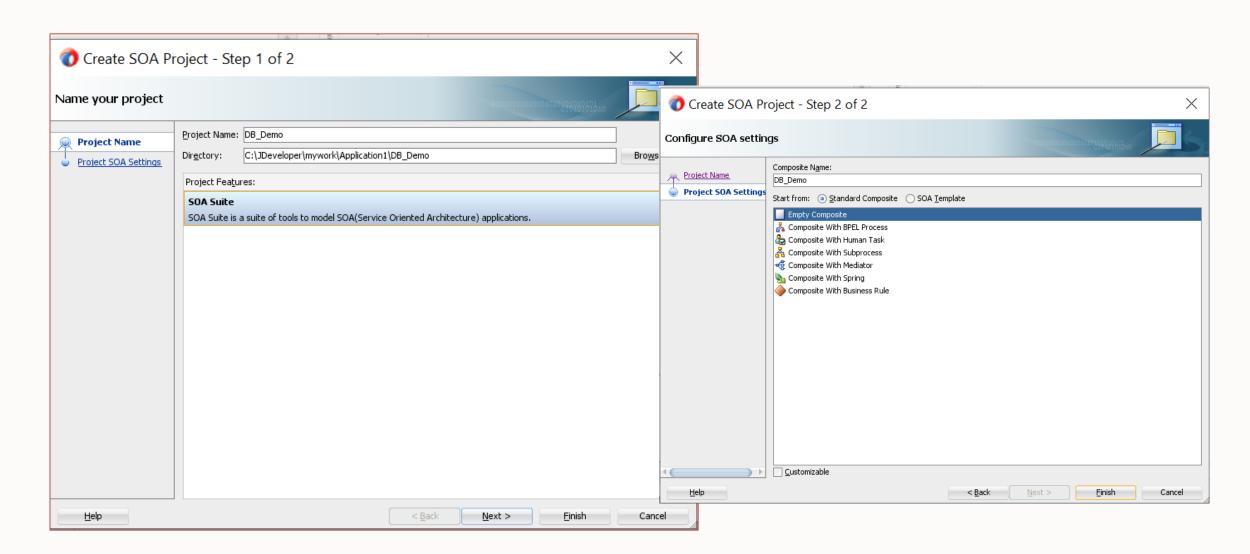
New Project



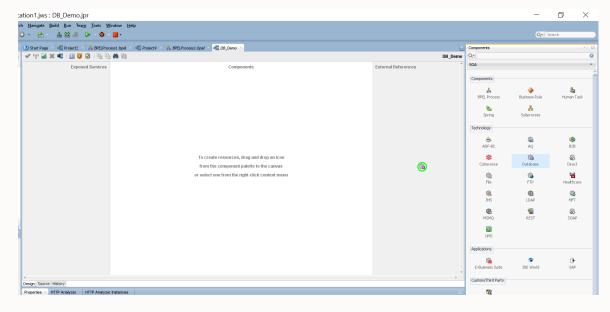
New Project

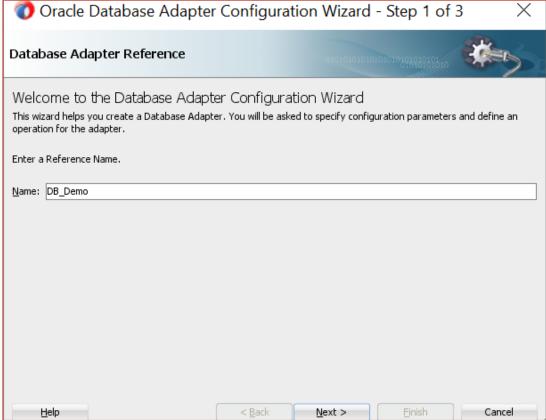


Project Details

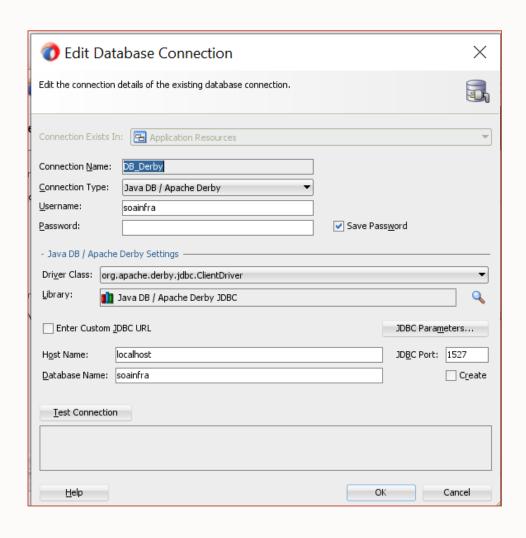


Database Adapter



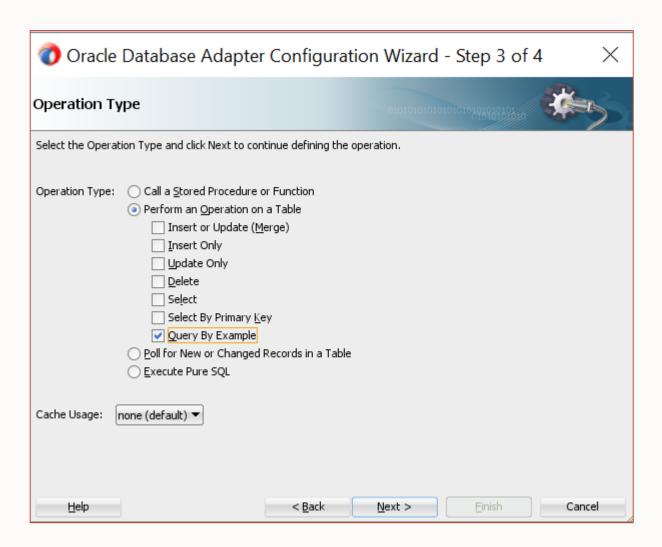


DB Connection - JNDI

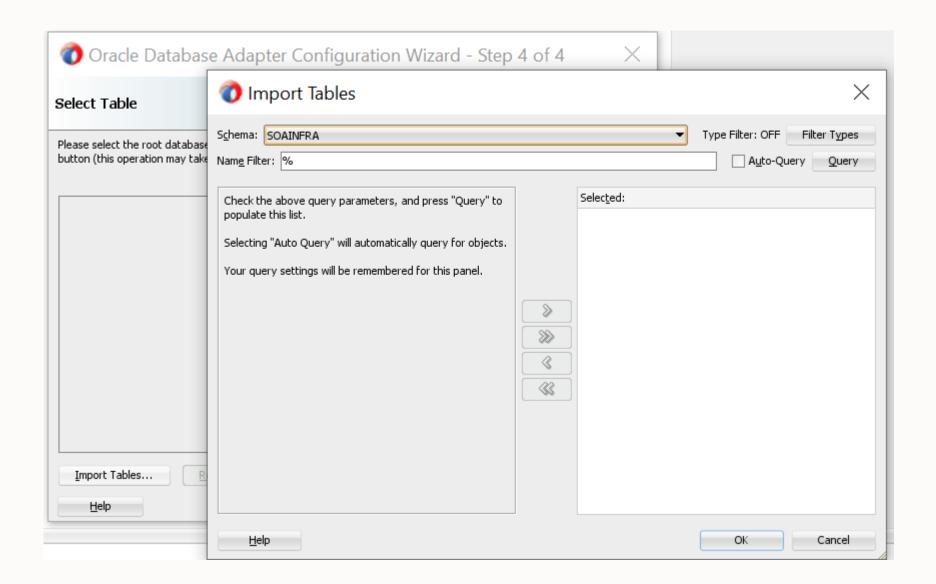




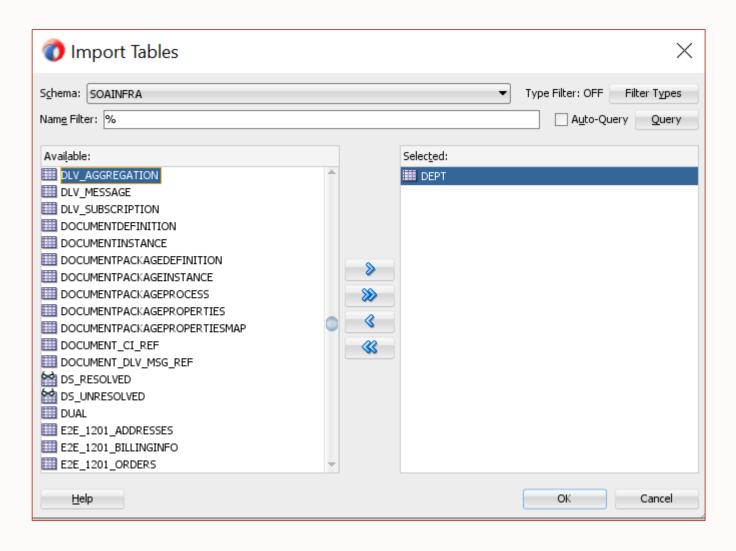
Query by Example



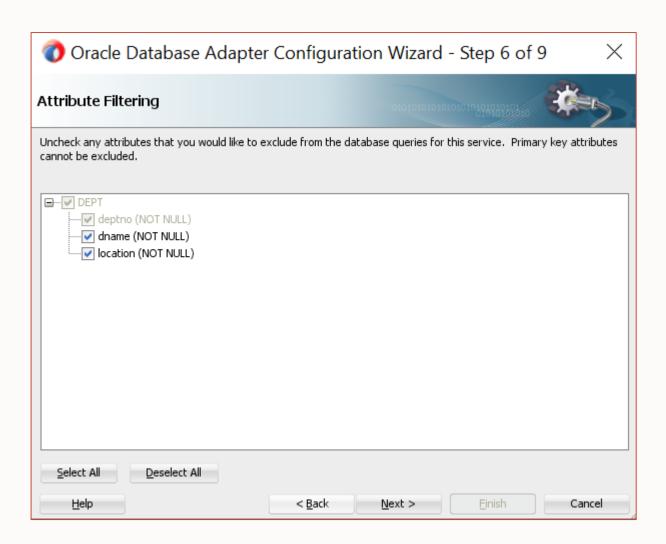
Select Table



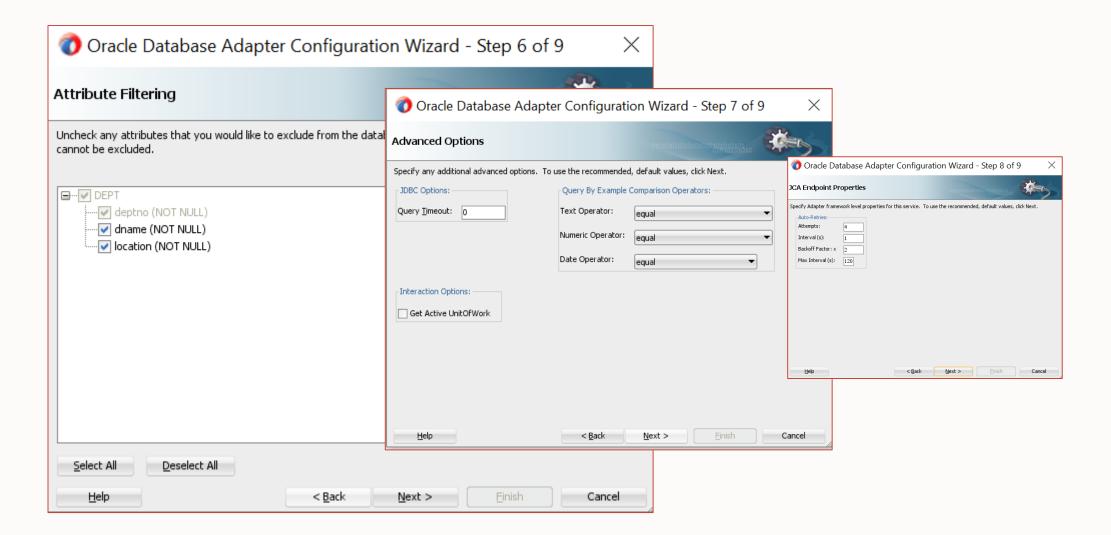
Import Table



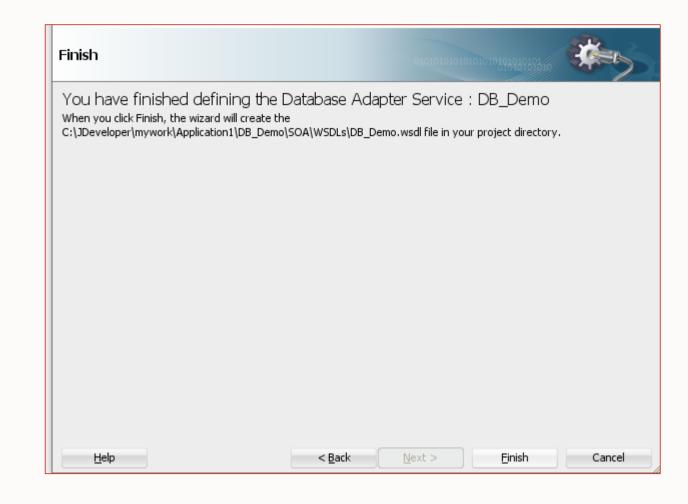
Filtering



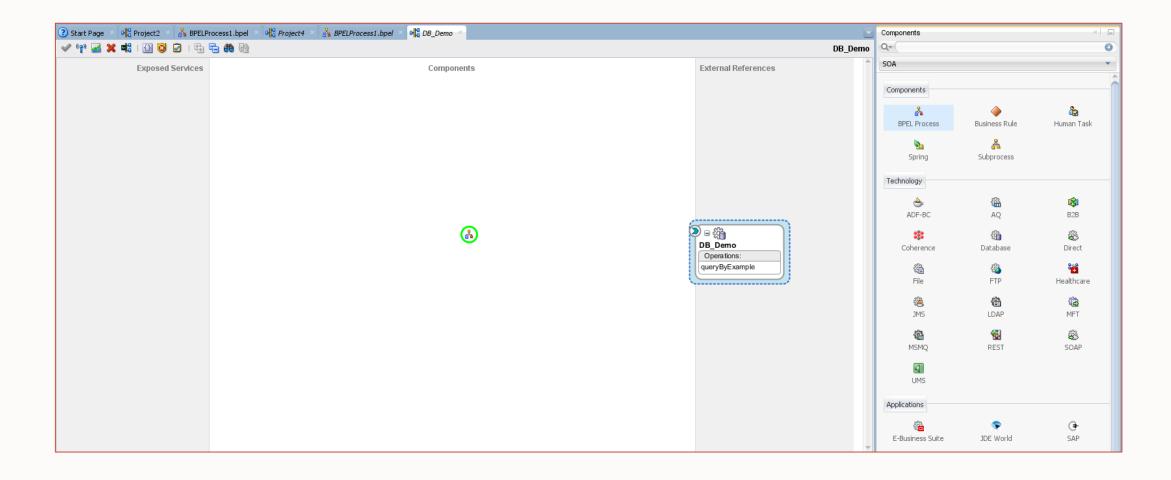
Filtering- Accept Default Values



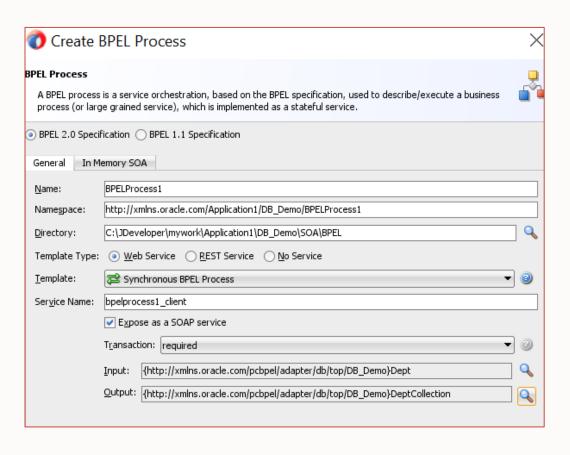
Finish

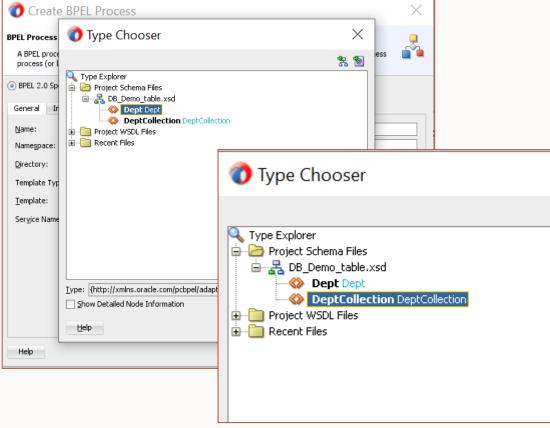


Drag BPEL Process

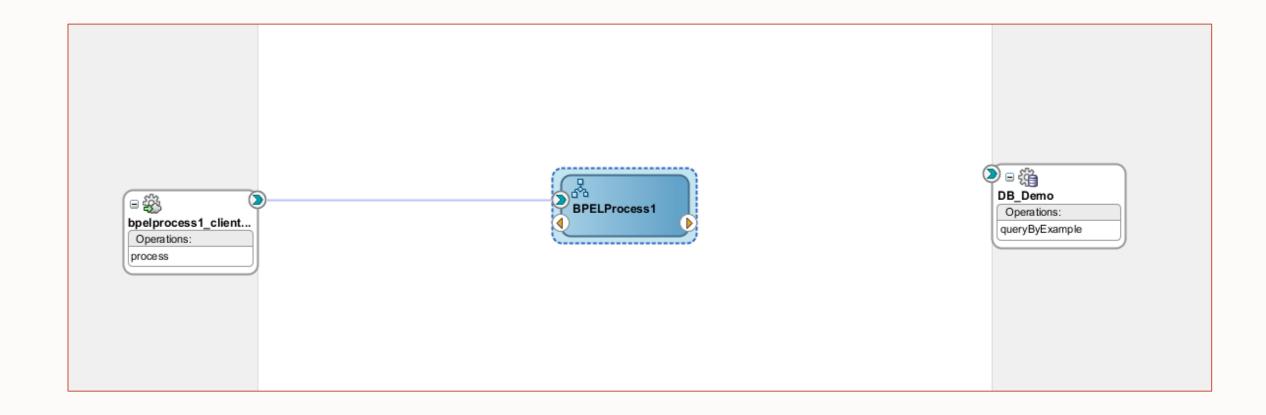


Synchronous Process

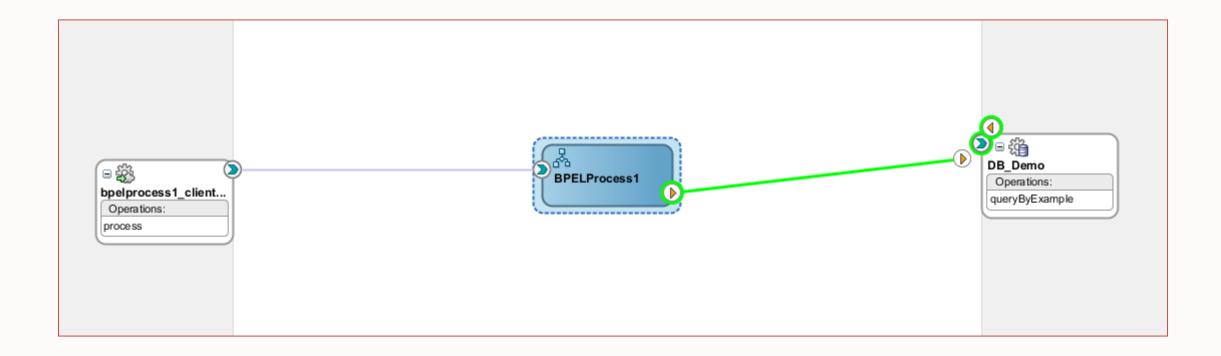




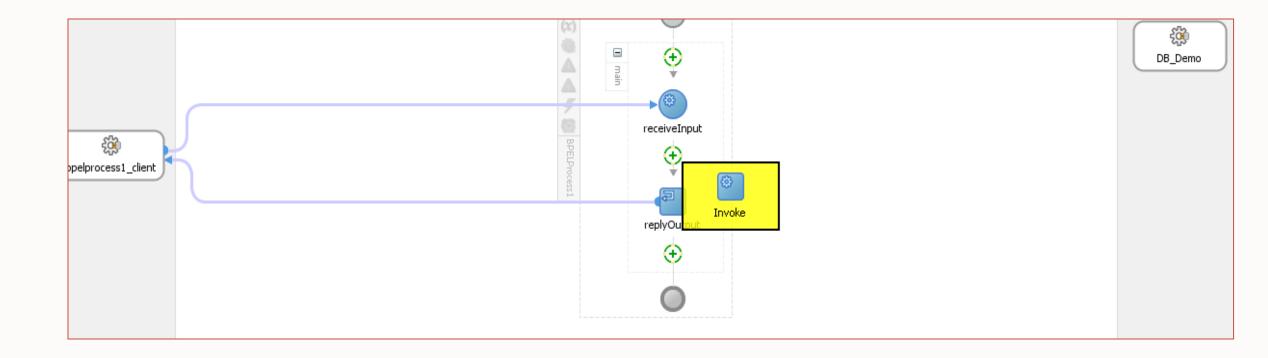
BPEL Interface



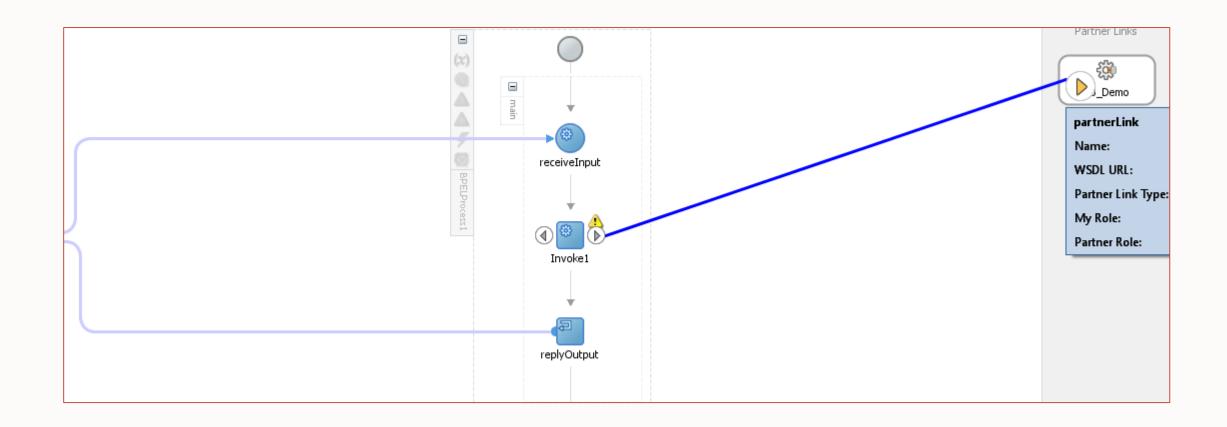
Link BPEL to DB Adapter



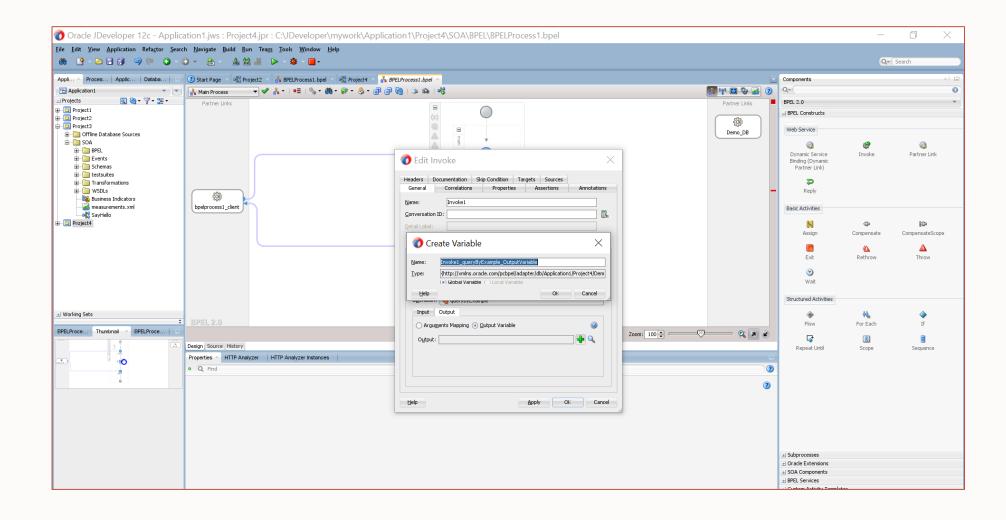
Drag Invoke



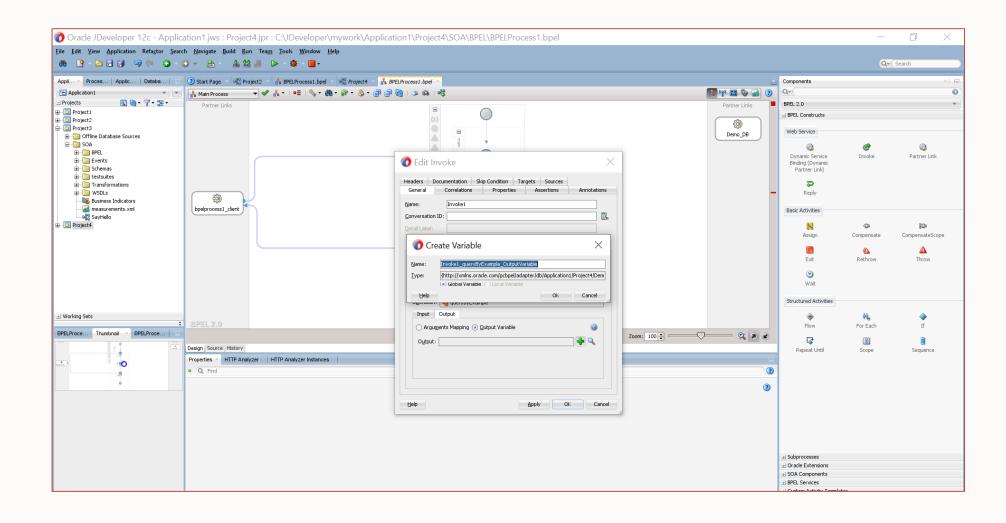
Link Invoke to DB Adapter



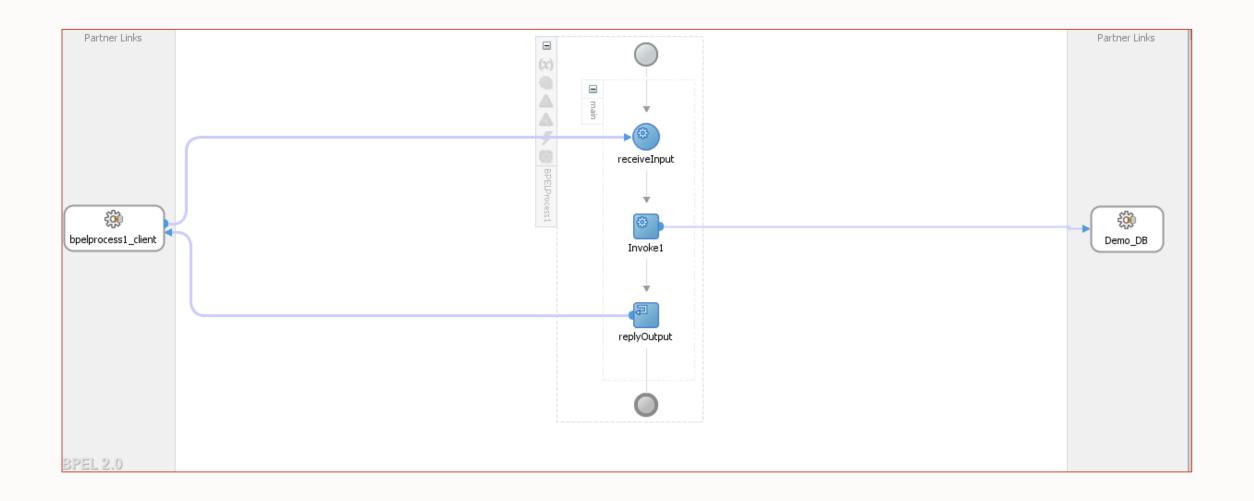
Create Invoke Input Variable



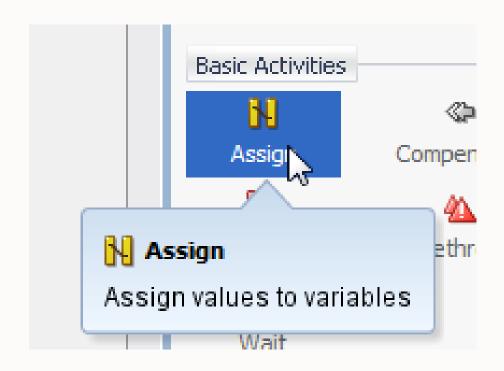
Create Invoke Output Variable



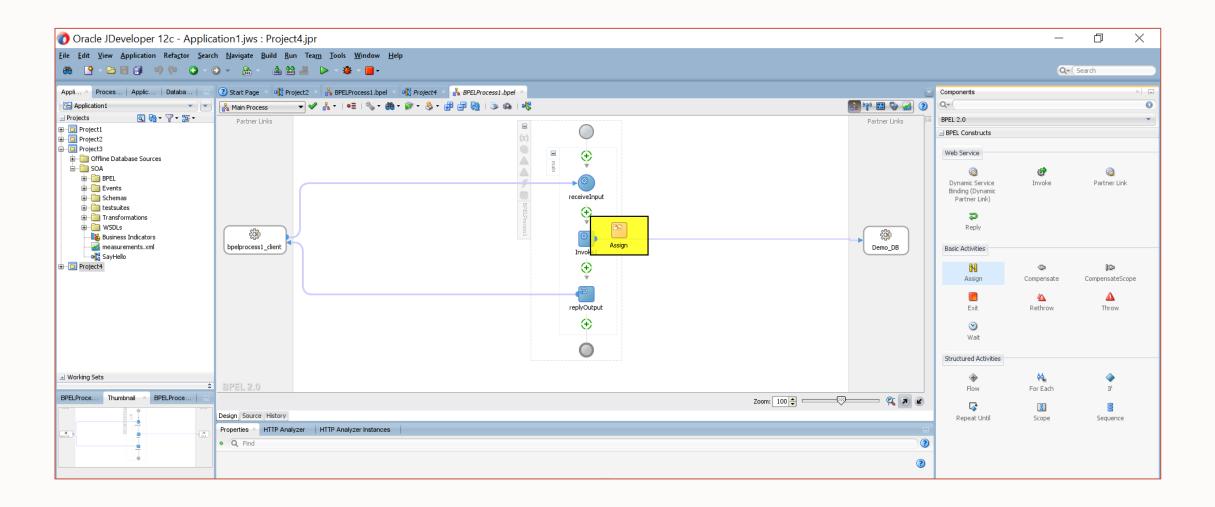
Invoke made Successfully



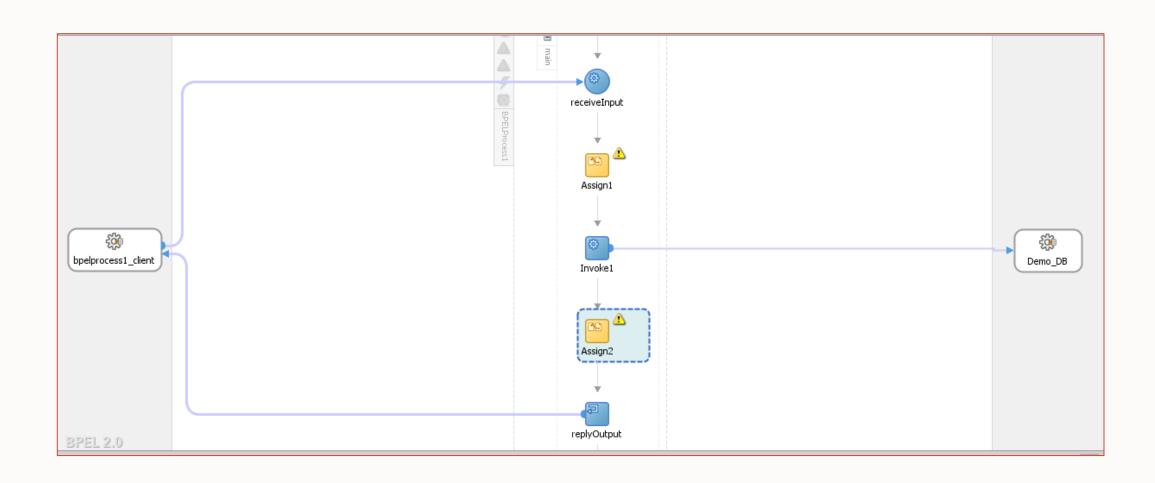
Select Assign Activity



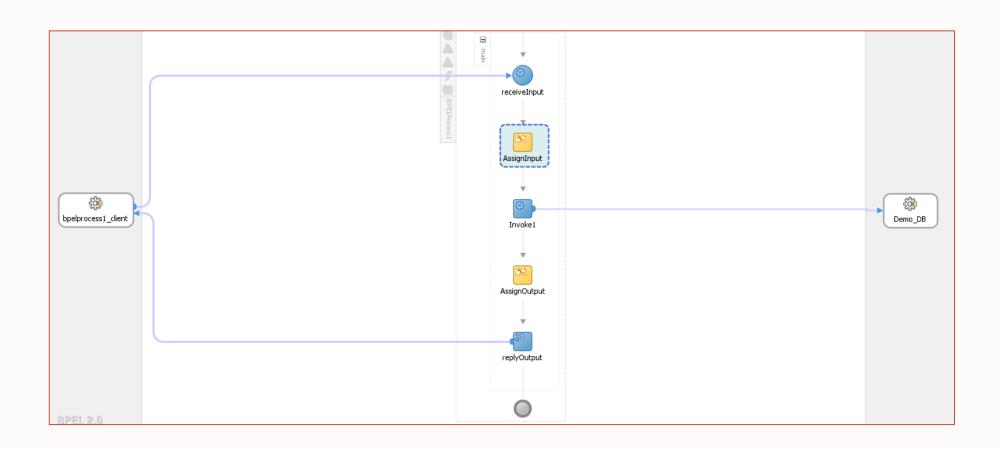
Drag Assign Activity



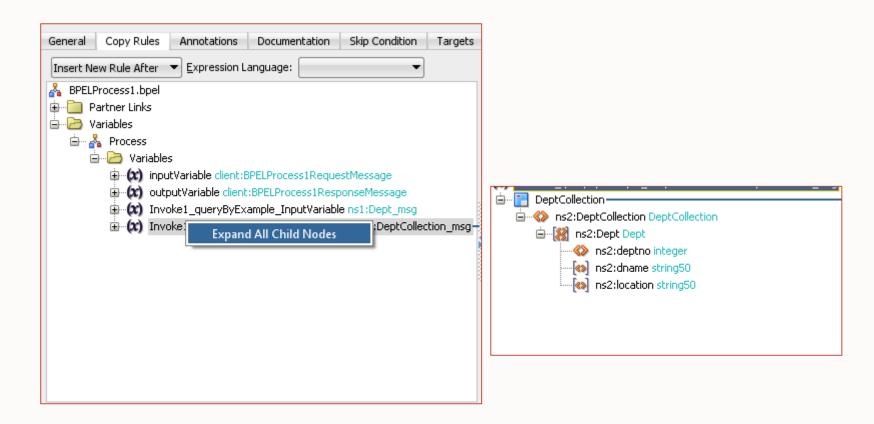
Drop Assign



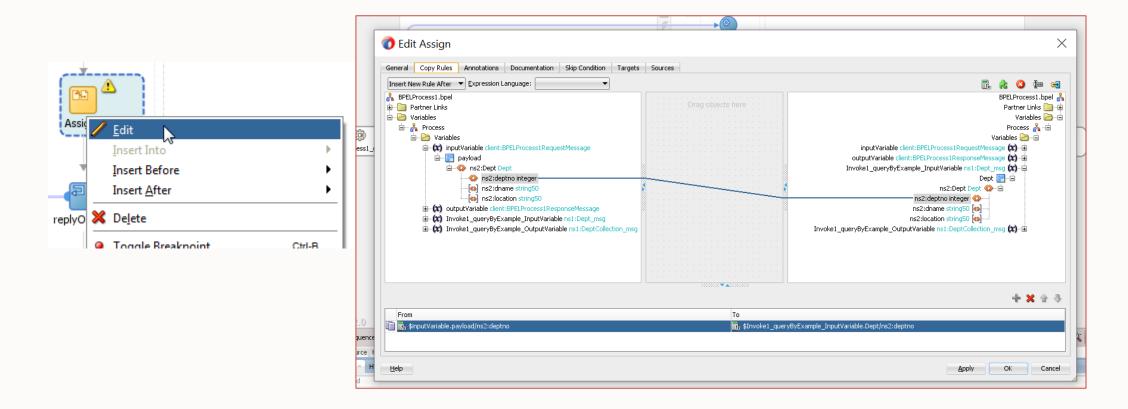
Edit Assign



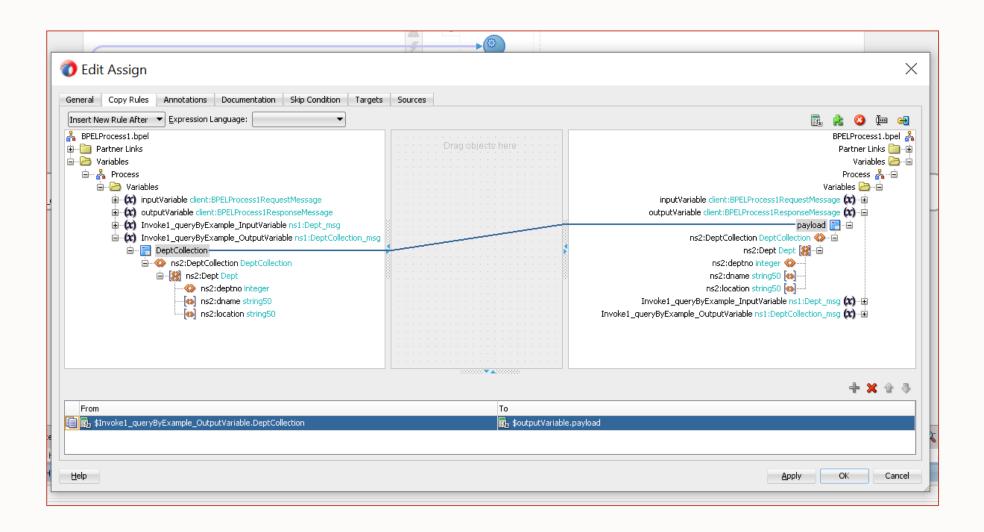
Expand All Child



Edit Assign Input

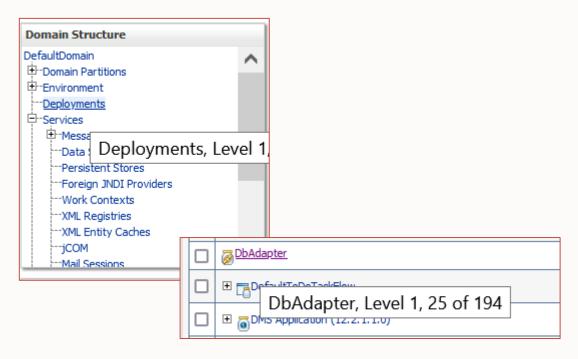


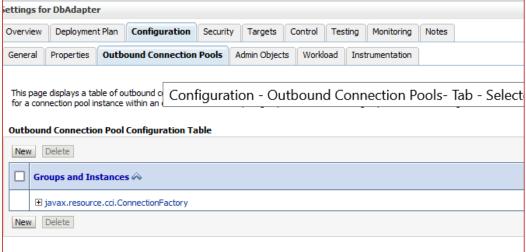
Edit Assign Output



Deployment

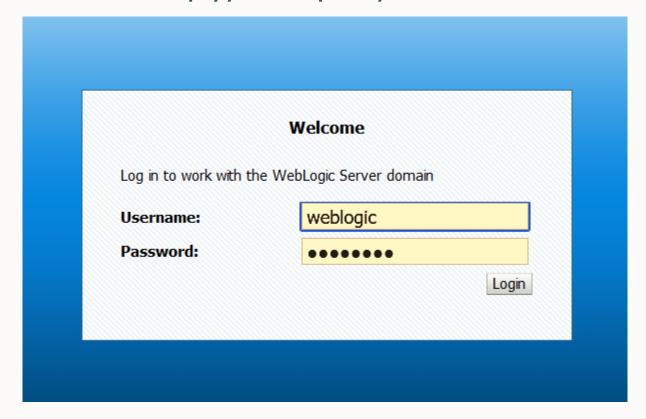
Setting Connection Factory for Database Adapter



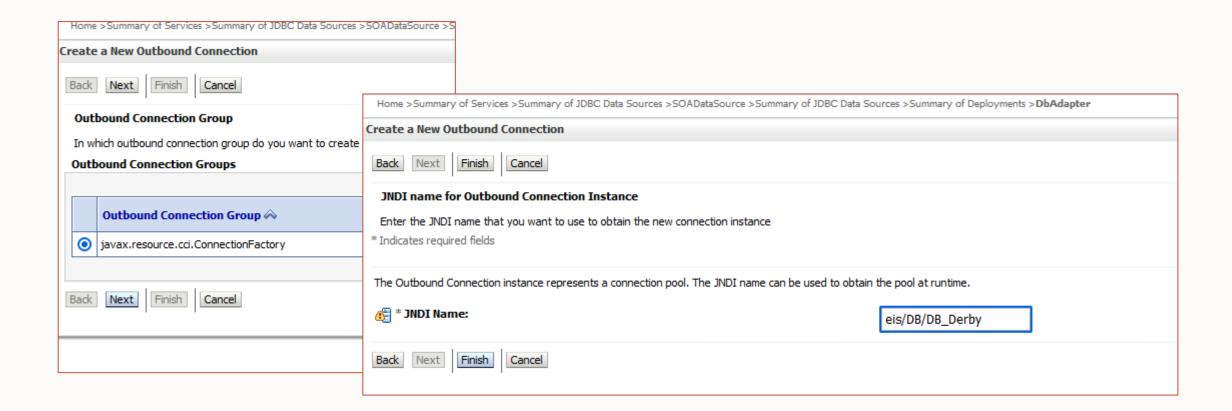


Login to WebLogic Console

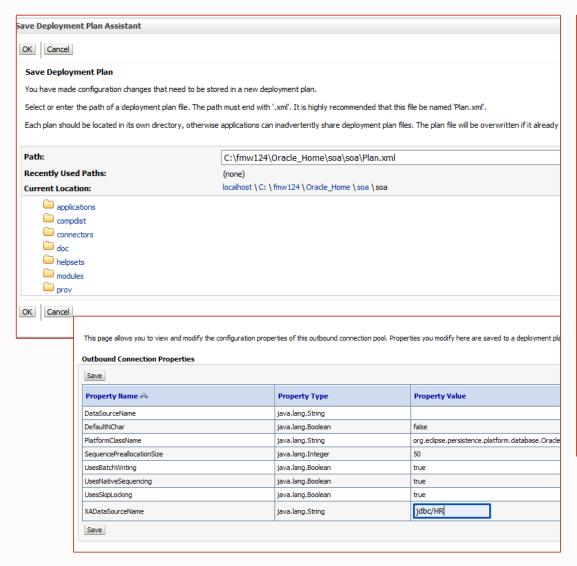
http://host:port/console



Create Outbound Connection Pool

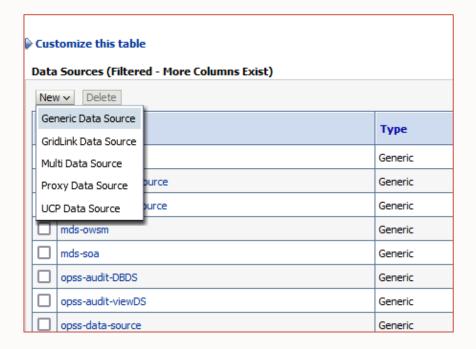


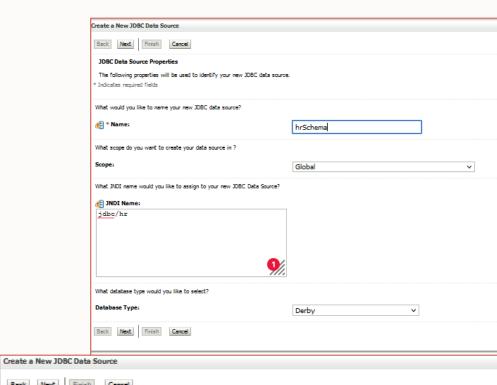
Save Changes

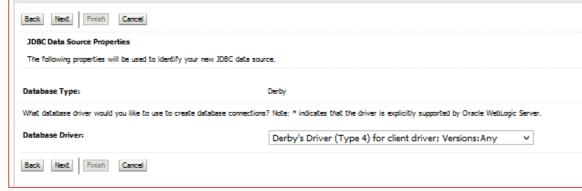


 ✓ All changes have been activated. No restarts are necessary. ✓ A new deployment plan has been successfully created in C: \fmw124\Oracle_Home\soa\soa\Plan.xml. ✓ Your deployment configuration has been updated to include the new plan. 											
Settings for DbAdapter											
Overview	Deployment Plan	Configuration	Security	Targets	Control	Testing	Monitoring	Notes			
Save											
This page displays basic information about this resource adapter.											
Name:					DbAdapter						
Scope:					Global						
Source Path:					$ C:\ fmw124\ Oracle_Home\ soa\ soa\ connectors\ DbAdapter.\ rar$						
Deployment Plan:					C:\fmw124\Oracle_Home\soa\soa\Plan. xml						
Staging Mo	ode:				nostage						
Plan Staging Mode:					(not specified)						
Security Model:					DDOnly						
E Deployment Order:					100						
E Deployment Principal Name:											
Save											

Create Data Source







Connection Details - Test

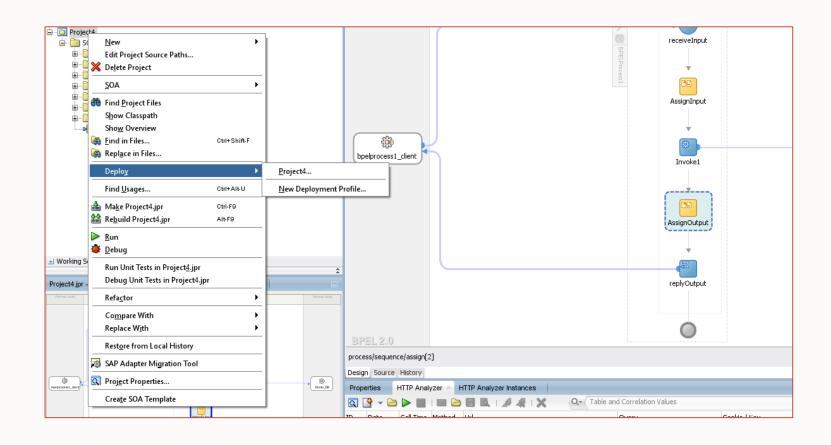
Back Next Fnish Cancel		
Connection Properties		
Define Connection Properties.		
What is the name of the database you would like to connect to?		
Database Name:	soainfra	
What is the name or IP address of the database server?		
Host Name:	localhost	
What is the port on the database server used to connect to the database?		
Port:	1527	
What database account user name do you want to use to create database connections?		
Database User Name:	soainfra	
What is the database account password to use to create database connections?		
Password:		
Confirm Password:		
Back Next Finish Cancel		

T.D.I. C.	
Test Database Connection Test the database availability and the o	onnection properties you provided.
	river class used to create database connections in the connection pool?
(Note that this driver class must be in th	e classpath of any server to which it is deployed.)
Driver Class Name:	org.apache.derby.jdbc.ClientDriver
What is the URL of the database to con	ect to? The format of the URL varies by JDBC driver.
URL:	jdbc:derby://localhost:1527/soainfra;ServerName=loc
What database account user name do y	ou want to use to create database connections?
Database User Name:	soainfra
What is the database account password	to use to create database connections? Messages
(Note: for secure password managemen	e, enter the password in the Password field instead of Connection test succeeded.
Password:	
Confirm Password:	
What are the properties to pass to the 3	DBC driver when creating database connections?
Properties:	
user=soainfra portNumber=1527 databaseName=soainfra:cr	

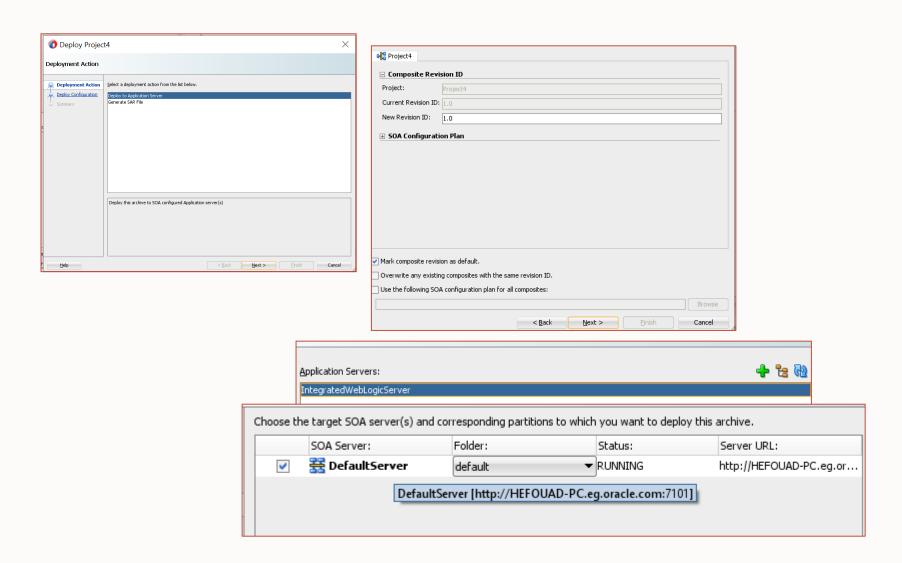
Add the DataSouce to Connection Factory



Deploy to Server



Deploy to Integrated Server



Verify Deployment

```
Buildfile: C:\mwKW\soa\bin\ant-sca-compile.xml

scac:

[input] skipping input as property scac.input has already been set.

[scac] Validating composite "C:\JDeveloper\mywork\Application1\Project4\SOA\composite.xml"

[scac] Setting BPELC option 'classpath' to C:\mwKW\soa\soa\modules\oracle.bpm.client_11.1.1\oracle.bpm.bpm-services.interface.jar;C:\mwKW\soa\soa\modules\oracle.bpm.client_11.1.1\

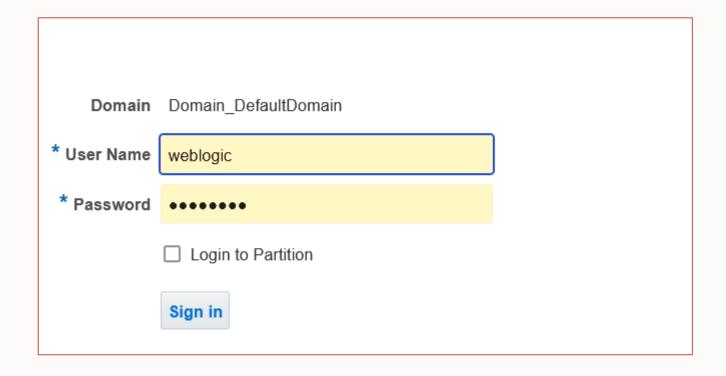
BUILD SUCCESSFUL

Total time: 8 seconds
```

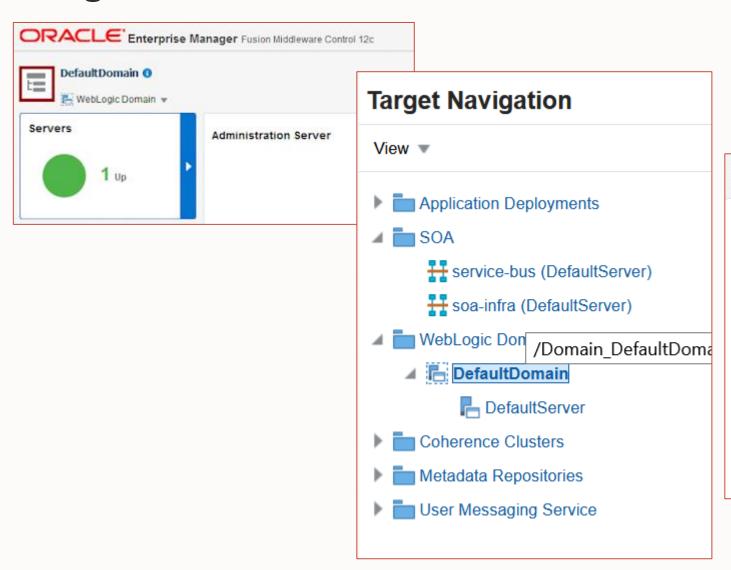
```
[11:11:01 PM] ---- Deployment started. ----
[11:11:01 PM] Target platform is (Weblogic 12.x).
[11:11:01 PM] Running dependency analysis...
                                                                                                   Deployment messages
[11:11:01 PM] Building...
[11:11:10 PM] Deploying profile...
[11:11:10 PM] WARNING: Connection DB Derby has no password. DB Derby-jdbc.xml file not generated for connection DB Derby.
[11:11:11 PM] Wrote Archive Module to C:\JDeveloper\mywork\Application1\Project4\deploy\sca_Project4.jar
[11:11:11 PM] Deploying sca_Project4.jar to partition "default" on server DefaultServer [http://HEF0UAD-PC.eg.oracle.com:7101]
[11:11:11 PM] Processing sar=/C:/JDeveloper/mywork/Applicationl/Project4/deploy/sca_Project4.jar
[11:11:11 PM] Adding sar file - C:\JDeveloper\mywork\Applicationl\Project4\deploy\sca_Project4.jar
[11:11:11 PM] Preparing to send HTTP request for deployment
[11:11:11 PM] Creating HTTP connection to host:HEFOUAD-PC.eg.oracle.com, port:7101
[11:11:11 PM] Sending internal deployment descriptor
[11:11:11 PM] Sending archive - sca_Project4.jar
[11:11:12 PM] Received HTTP response from the server, response code=200
[11:11:12 PM] Successfully deployed archive sca_Project4.jar with 0 warning/severe messages to partition "default" on server DefaultServer [http://HEF0UAD-PC.eg.oracle.com:7101]
[11:11:12 PM] Elapsed time for deployment: 11 seconds
[11:11:12 PM] ---- Deployment finished. ----
```

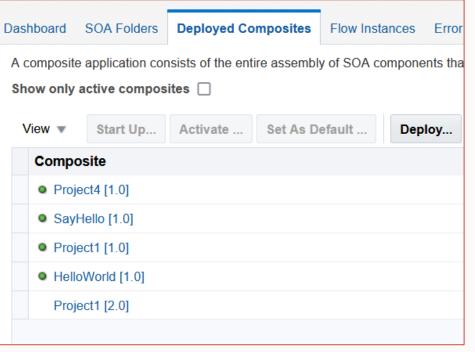
EM



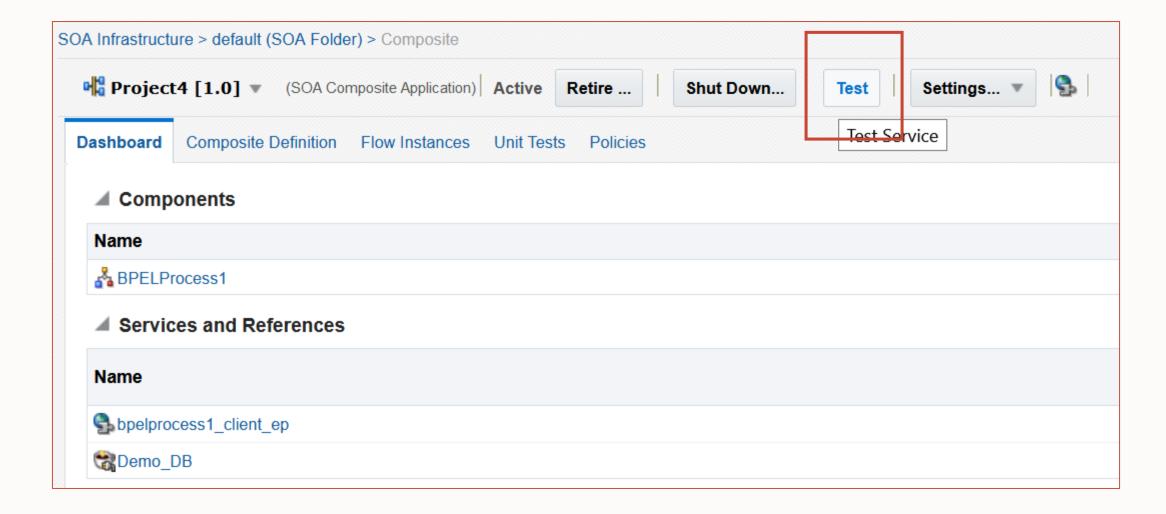


Navigation

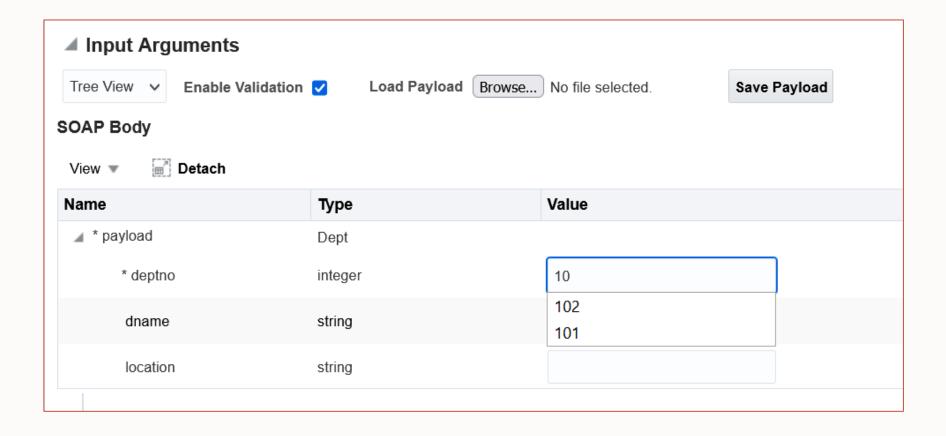




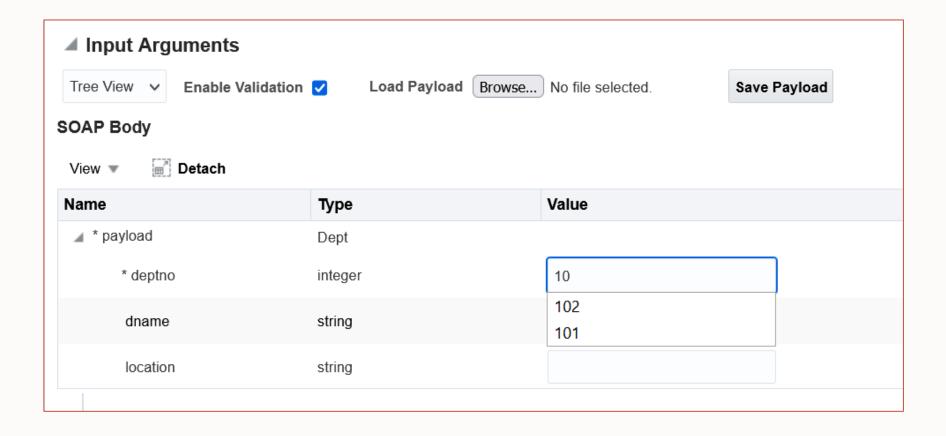
Test



Input Arguments for Testing



Result





Tutorials

Topic	Website
Oracle SOA Suite	https://docs.oracle.com/en/middleware/soa- suite/soa/12.2.1.4/index.html
Product Forums	http://forums.oracle.com
Sample Code	http://www.oracle.com/technology/sample_code