

SOA Suite Setup for BPEL Process Flow  
Oracle FLEXCUBE Investor Servicing  
Release 12.3.0.0.0  
[September] [2016]



---

# Table of Contents

<b>1.</b>	<b>PREFACE .....</b>	<b>1-1</b>
1.1	BACKGROUND .....	1-1
1.2	AUDIENCE .....	1-1
1.3	ORGANIZATION .....	1-1
1.4	ACRONYMS AND ABBREVIATIONS .....	1-1
<b>2.</b>	<b>INSTALLING THE JDK, WEBLOGIC, RCU, SOA AND DOMAIN CREATION.....</b>	<b>2</b>
2.1	INTRODUCTION .....	2
2.2	LIST OF DOWNLOADED FILES .....	2
2.3	INSTALL JDK.....	3
2.4	INSTALLING WEBLOGIC SERVER SOFTWARE.....	3
2.5	INSTALLING ORACLE FUSION MIDDLEWARE 12C SOFTWARE.....	9
2.6	CREATING PRODUCT SCHEMAS IN ORACLE DATABASE .....	13
2.7	WEBLOGIC SERVER DOMAIN CONFIGURATION.....	21
2.8	REMOTE SETUP CONFIGURATION .....	30

---

# 1. Preface

## 1.1 Background

This document provides an overview of configuring SOA suite for Oracle FLEXCUBE Universal Banking BPEL process deployment.

Refer to the Oracle documentation for HA and other configuration patterns.

## 1.2 Audience

The audience for this document will be the development groups of BPEL/BPM process flows FLEXCUBE Universal Banking.

## 1.3 Organization

This manual is organized as follows:

- The document helps in download and installation of Oracle SOA 12c.

## 1.4 Acronyms and Abbreviations

Acronym/Abbreviation	Description
BPEL	Business Process Execution Language
HA	High Availability

---

## 2. Installing the JDK, WebLogic, RCU, SOA and domain Creation

### 2.1 Introduction

The download of software can be done from the oracle edelivery portal

<https://edelivery.oracle.com>

Refer to the Oracle certification matrix for qualified databases.

### 2.2 List of downloaded files

Latest Oracle JDK 8 Update for Linux x86-64

Search: Oracle Fusion Middleware 12c Infrastructure 12.2.1(**WebLogic Installation**)

V78156-01.zip– Oracle Fusion Middleware 12c (12.2.1) Infrastructure

Search: Oracle Business Process Management 12.2.1.0.0(**BPM/BPEL**)

V78169-01.zip– Oracle Fusion Middleware 12c (12.2.1.0.0) SOA Suite and Business Process Management

List of platform which can be selected based on the installation

<input type="checkbox"/>	HP-UX Itanium
<input type="checkbox"/>	IBM AIX on POWER Systems (64-bit)
<input type="checkbox"/>	IBM z/OS on System z
<input type="checkbox"/>	IBM: Linux on System z
<input type="checkbox"/>	Linux x86-64
<input type="checkbox"/>	Microsoft Windows (32-bit)
<input type="checkbox"/>	Microsoft Windows x64 (64-bit)
<input type="checkbox"/>	Oracle Solaris on SPARC (32-bit)
<input type="checkbox"/>	Oracle Solaris on SPARC (64-bit)
<input type="checkbox"/>	Oracle Solaris on x86-64 (64-bit)

SelectCancel

platform

Search by
All
Start typing...
Select Platform

Download Queue		Continue
Selected Item	Platform	
Release: Oracle SOA Suite 12.2.1.0.0	Linux x86-64	
Release: Oracle Business Process Management 12.2.1.0.0	Linux x86-64	
Remove All		Continue

**NOTE (Doc ID 1904280.1):** As part of the new Release of SOA 12c, you need to get WebLogic 12c through the Oracle Fusion Middleware Infrastructure installation, which contains all required components for SOA. The standard WebLogic 12.2.1.0.0 Installer i.e. fmw\_12.2.1.0.0\_wls.jar, does not have the required JRF templates.

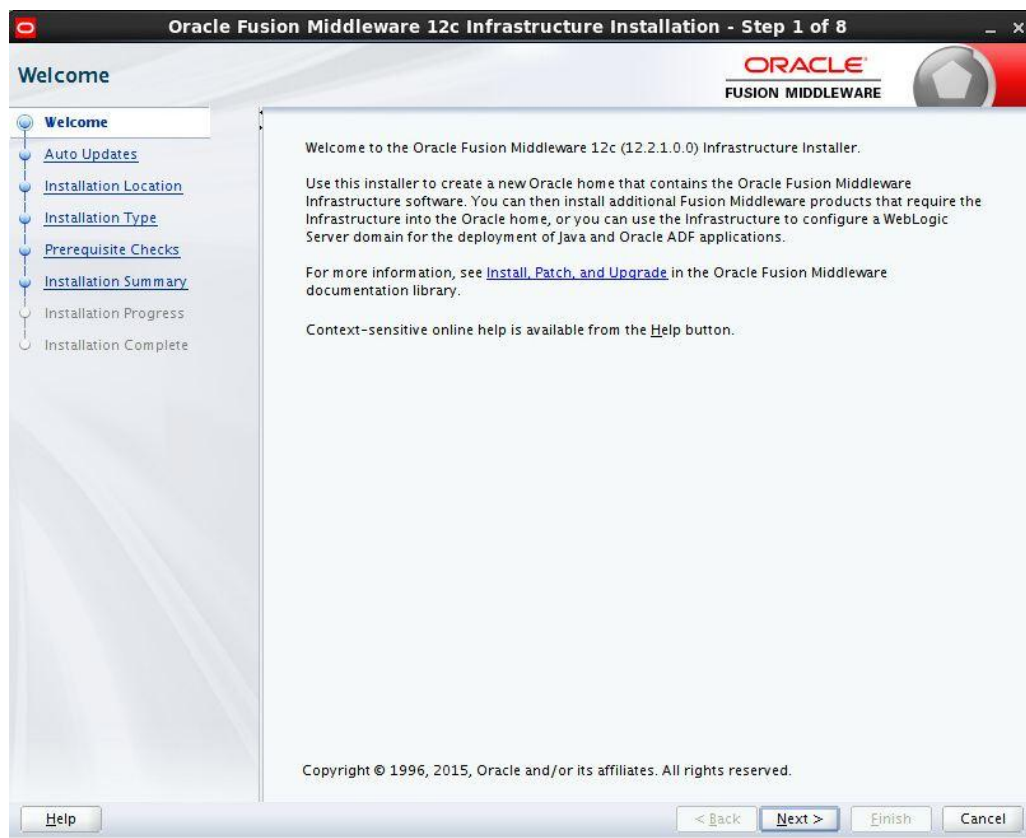
2.3 Install JDK

Login to WebLogic server host upload and install JDK package. Refer to the release certificate for the version of java JDK.

2.4 Installing WebLogic Server software

```
[oracle@wls12c-node1 ~]$ cd /scratch/app/fmwTemp1221/
[oracle@wls12c-node1 fmwTemp1221]$ unzip V78156-01.zip
Archive:  V78156-01.zip
inflating: fmw_12.2.1_infrastructure.jar
[oracle@wls12c-node1 fmwTemp1221]$ java -jar fmw_12.2.1_infrastructure.jar
```

Step 1:



Step 2 :

Option need to be selected based on the requirement :

If you don't want the auto updates, select the first option.

If you are applying patches , select the second option.

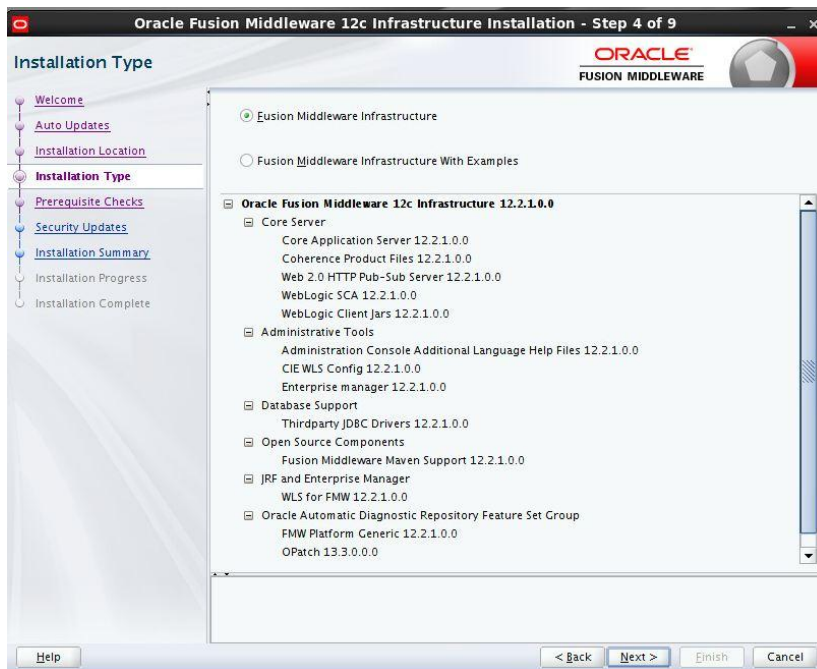
Please select the option based on the requirement :

The screenshot shows the 'Auto Updates' window in the Oracle Fusion Middleware 12c Infrastructure Installation wizard. The window title is 'Oracle Fusion Middleware 12c Infrastructure Installation - Step 2 of 8'. The left sidebar contains a navigation tree with the following items: Welcome, Auto Updates (selected), Installation Location, Installation Type, Prerequisite Checks, Installation Summary, Installation Progress, and Installation Complete. The main content area has the Oracle logo and 'FUSION MIDDLEWARE' text. Below this, there are three radio button options: 'Skip Auto Updates' (which is selected), 'Select patches from directory', and 'Search My Oracle Support for Updates'. The 'Select patches from directory' option has a 'Location:' text box and a 'Browse' button. The 'Search My Oracle Support for Updates' option has 'Username:' and 'Password:' text boxes, a 'Proxy Settings' button, a 'Test Connection' button, and a 'Search' button. At the bottom of the window, there are buttons for 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

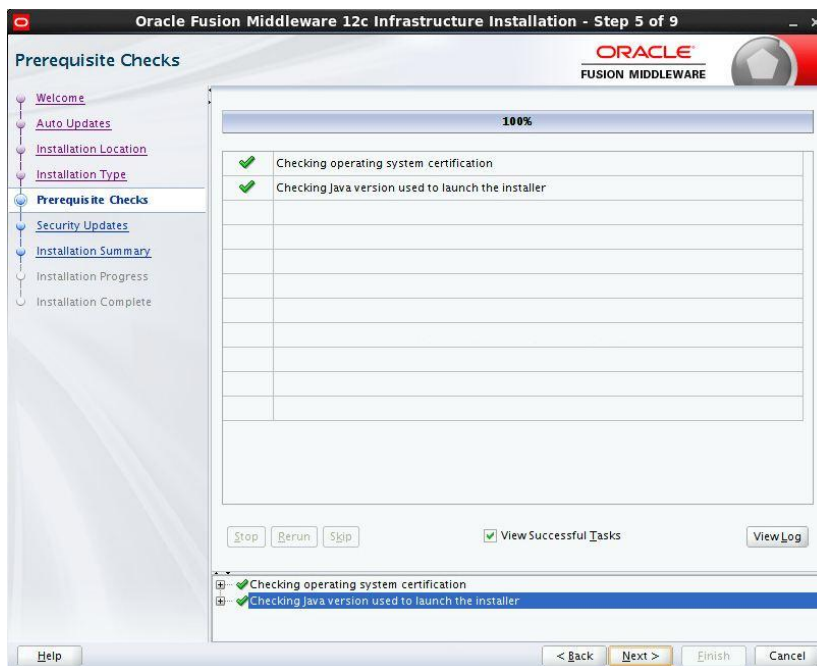
Step 3: Define the oracle home path

The screenshot shows the 'Installation Location' window in the Oracle Fusion Middleware 12c Infrastructure Installation wizard. The window title is 'Oracle Fusion Middleware 12c Infrastructure Installation - Step 3 of 8'. The left sidebar contains a navigation tree with the following items: Welcome, Auto Updates, Installation Location (selected), Installation Type, Prerequisite Checks, Installation Summary, Installation Progress, and Installation Complete. The main content area has the Oracle logo and 'FUSION MIDDLEWARE' text. Below this, there is a text box labeled 'Oracle Home:' containing the path '/scratch/app/fmwTemp1221/Oracle/Middleware/Oracle\_Home'. To the right of the text box is a 'Browse' button. Below the text box, there is a text box labeled 'Feature Sets Installed At Selected Oracle Home:' with a 'View' button. At the bottom of the window, there are buttons for 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'. A note at the bottom of the window states: 'Oracle Home may only contain alphanumeric, underscore (\_), hyphen (-) or dot(.) characters and it must begin with an alphanumeric character.'

#### Step 4: select fusion middleware infrastructure

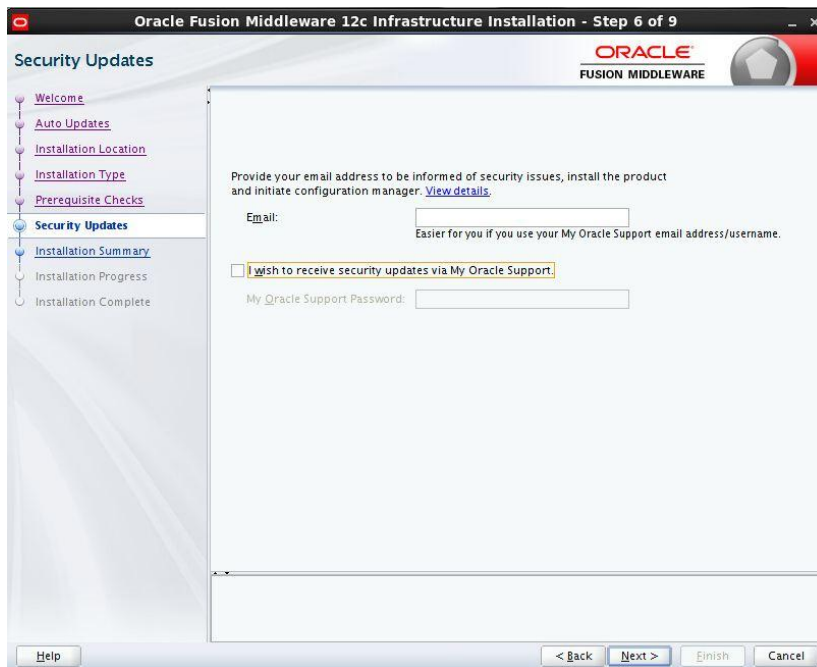


#### Step 5:





## Step 6: optional based on installation requirement



Oracle Fusion Middleware 12c Infrastructure Installation - Step 6 of 9

**Security Updates**

Welcome  
Auto Updates  
Installation Location  
Installation Type  
Prerequisite Checks  
**Security Updates**  
Installation Summary  
Installation Progress  
Installation Complete

Provide your email address to be informed of security issues, install the product and initiate configuration manager. [View details.](#)

Email:

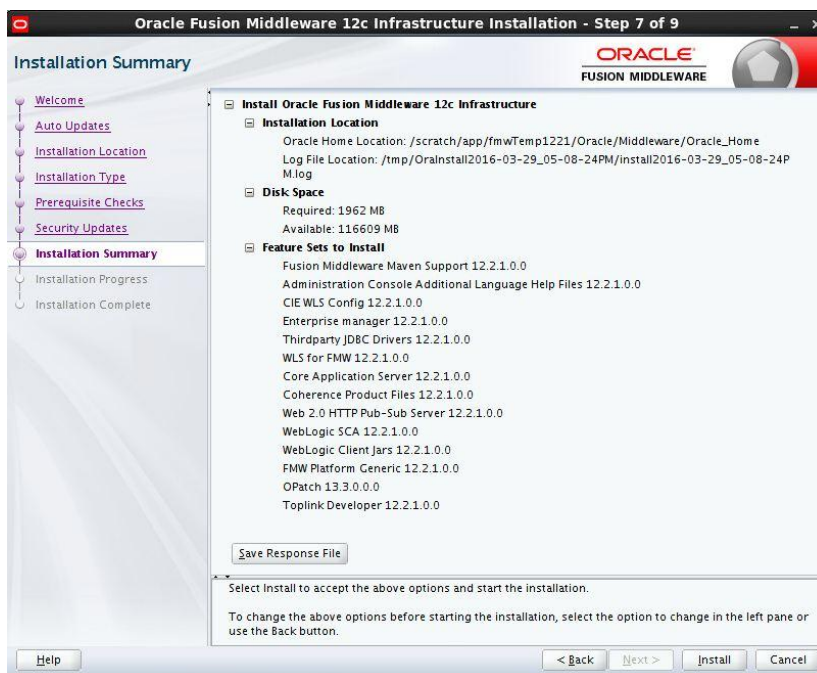
Easier for you if you use your My Oracle Support email address/username.

☐ I wish to receive security updates via My Oracle Support.

My Oracle Support Password:

Help < Back Next > Finish Cancel

## Step 7:



Oracle Fusion Middleware 12c Infrastructure Installation - Step 7 of 9

**Installation Summary**

Welcome  
Auto Updates  
Installation Location  
Installation Type  
Prerequisite Checks  
Security Updates  
**Installation Summary**  
Installation Progress  
Installation Complete

**Install Oracle Fusion Middleware 12c Infrastructure**

- Installation Location**
  - Oracle Home Location: /scratch/app/fmwTemp1221/Oracle/Middleware/Oracle\_Home
  - Log File Location: /tmp/Orainstall2016-03-29\_05-08-24PM/install2016-03-29\_05-08-24PM.log
- Disk Space**
  - Required: 1962 MB
  - Available: 116609 MB
- Feature Sets to Install**
  - Fusion Middleware Maven Support 12.2.1.0.0
  - Administration Console Additional Language Help Files 12.2.1.0.0
  - CIE WLS Config 12.2.1.0.0
  - Enterprise manager 12.2.1.0.0
  - Thirdparty JDBC Drivers 12.2.1.0.0
  - WLS for FMW 12.2.1.0.0
  - Core Application Server 12.2.1.0.0
  - Coherence Product Files 12.2.1.0.0
  - Web 2.0 HTTP Pub-Sub Server 12.2.1.0.0
  - WebLogic SCA 12.2.1.0.0
  - WebLogic Client Jars 12.2.1.0.0
  - FMW Platform Generic 12.2.1.0.0
  - OPatch 13.3.0.0.0
  - Toplink Developer 12.2.1.0.0

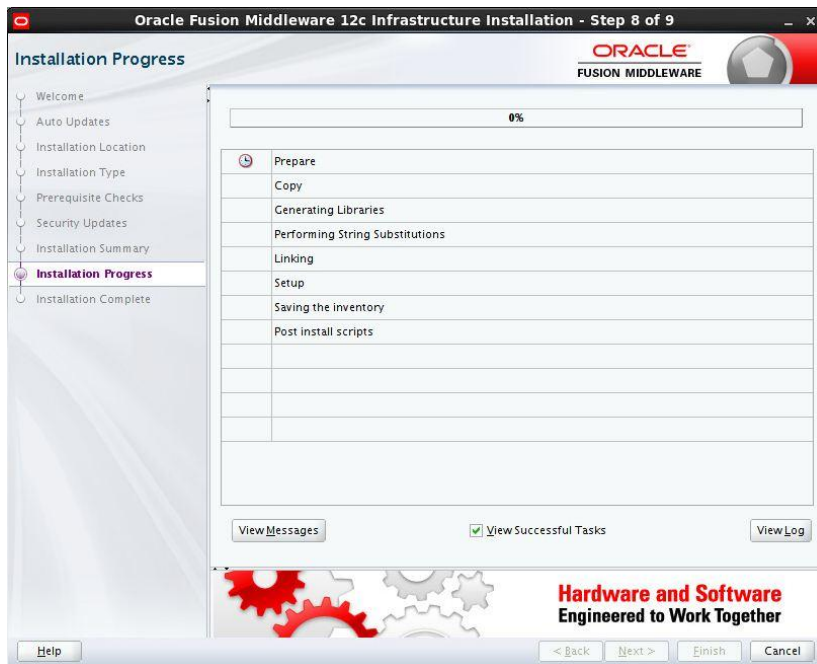
Save Response File

Select Install to accept the above options and start the installation.

To change the above options before starting the installation, select the option to change in the left pane or use the Back button.

Help < Back Next > Install Cancel

## Step 8:



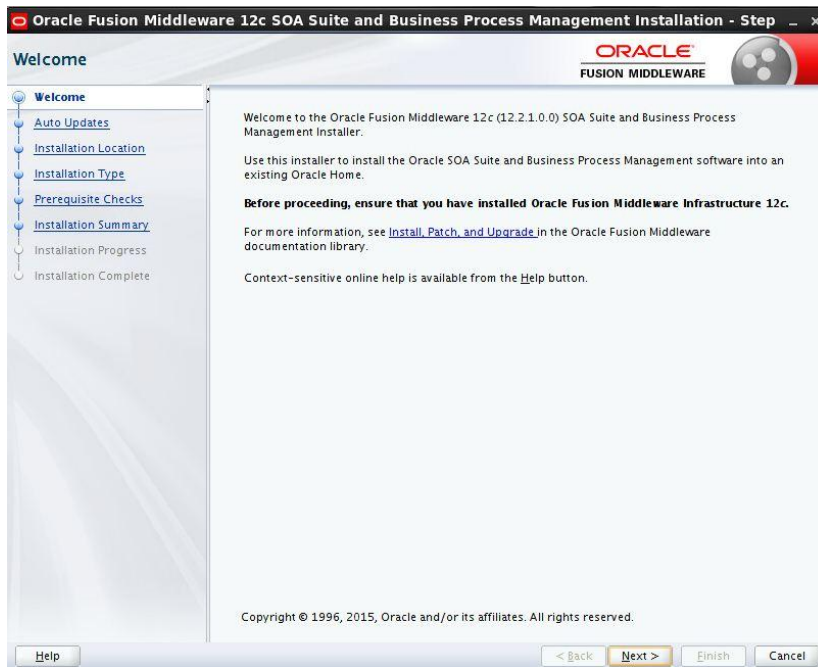
## Step 9:



## 2.5 Installing Oracle Fusion Middleware 12c Software

```
[oracle@wls12c-node1 ~]$ cd /scratch/app/fmwTemp1221/  
[oracle@wls12c-node1 fmwTemp1221]$ unzip V78169-01.zip  
Archive:  V78169-01.zip  
  inflating: fmw 12.2.1.0.0  soa.jar  
  
[oracle@wls12c-node1 fmwTemp1221]$ java -jar fmw_12.2.1_soa.jar
```

Step 1:

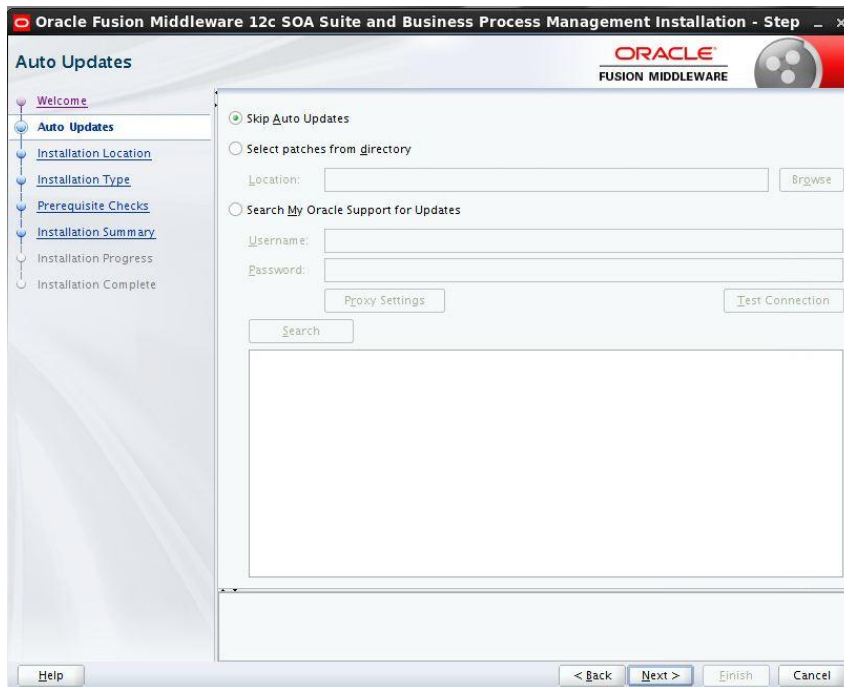


Step 2:

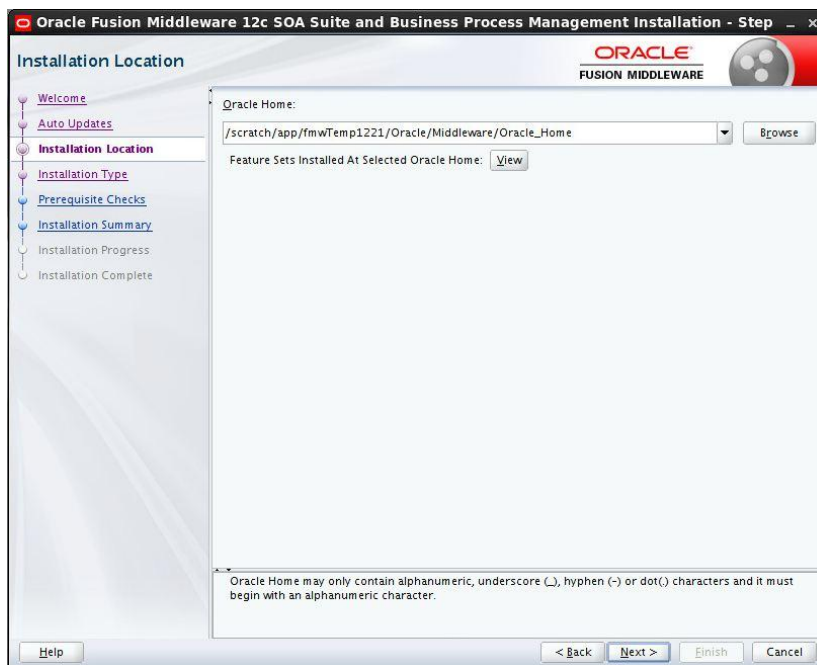
Option need to be selected based on the requirement :

- a) If you don't want the auto updates, select the first option.
- b) If you are applying patches , select the second option .

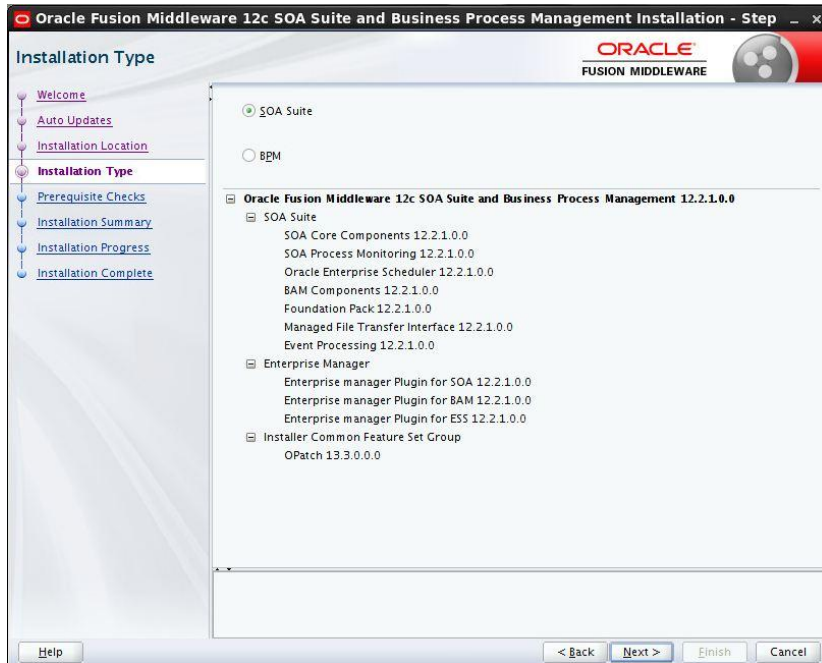
Please select the below option based on the requirement:



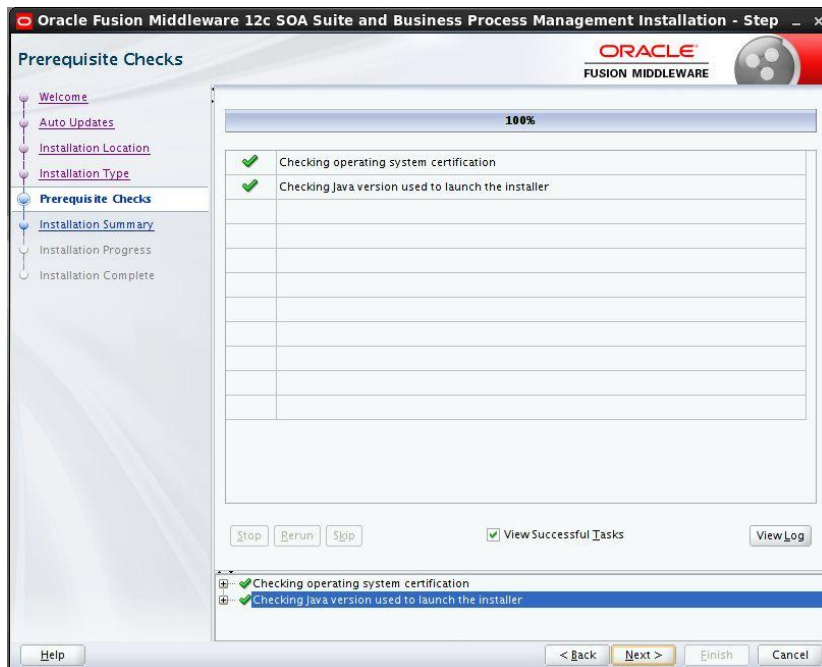
Step 3:



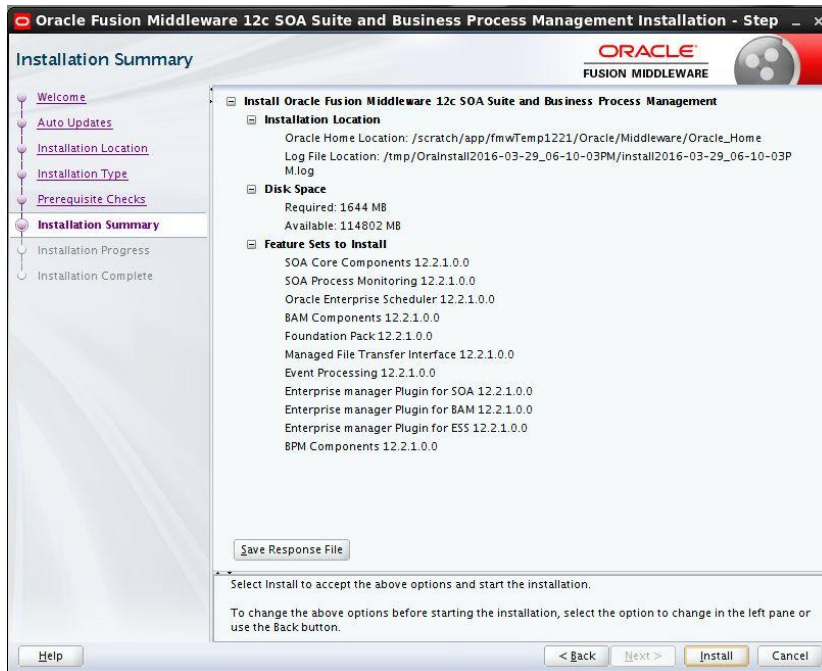
Step 4:  Please select BPM if the environment requires BPM process flow deployment



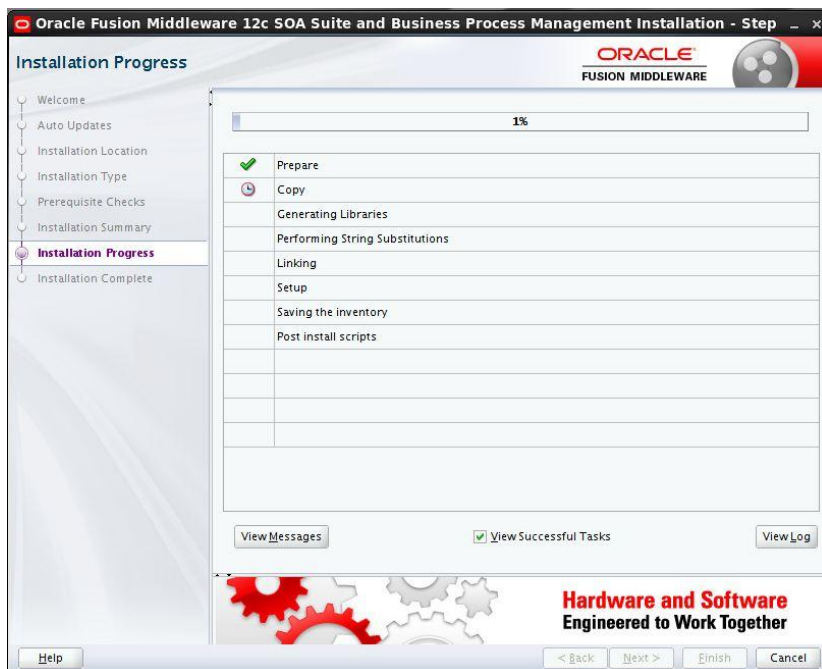
Step 5:



## Step 6:

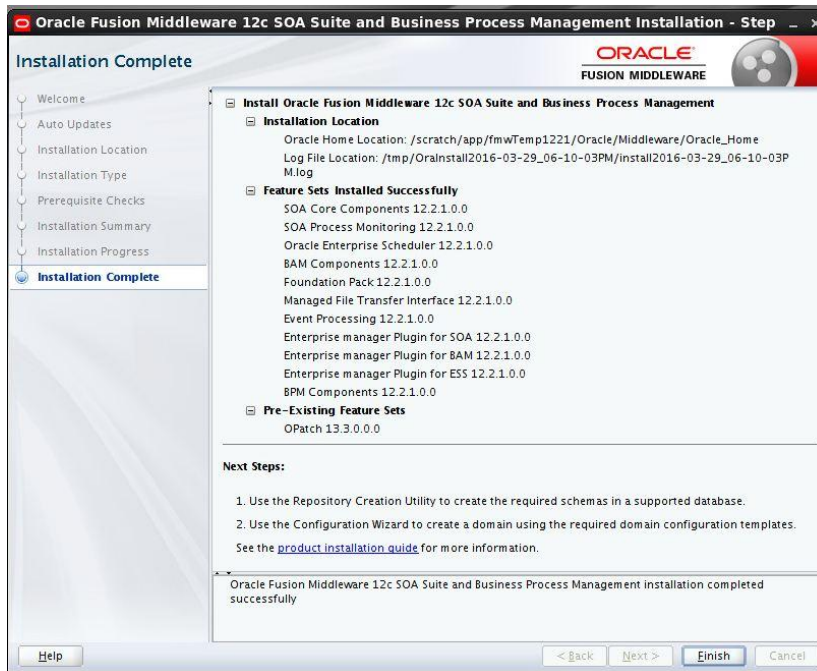


## Step 7:





Step 8:



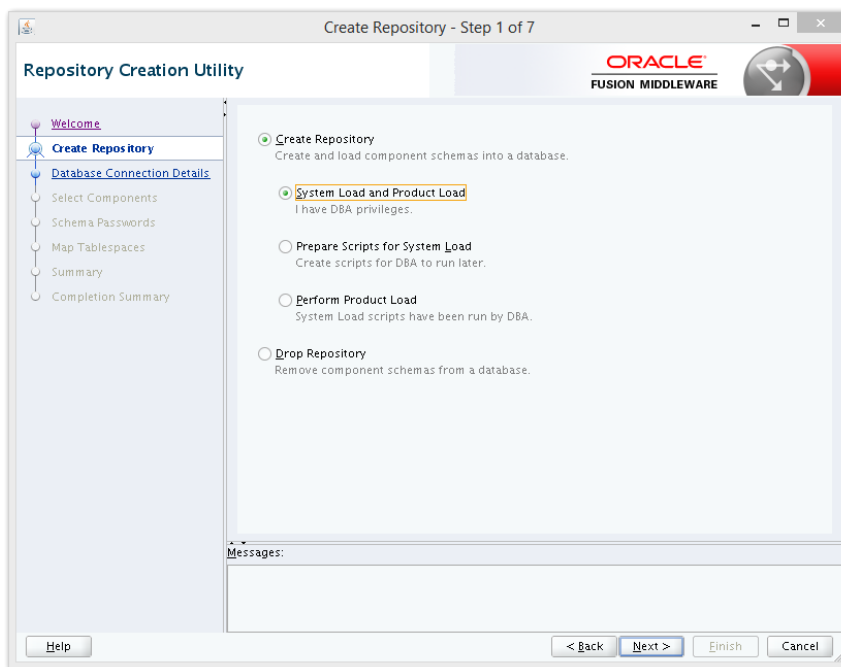
## 2.6 Creating product schemas in Oracle database

The Repository Creation Utility (RCU) is the tool used to create schemas in a database. This tool is available once we've installed the Oracle Fusion Middleware Infrastructure software (Point 2).

Refer to [Oracle Fusion Middleware Creating Schemas with the Repository Creation Utility](#) for more information about the Repository Creation Utility.

```
[oracle@wls12c-node1 fmwTemp1221]$ cd /scratch/app/fmwTemp1221/Oracle/Middleware/Oracle_Home/bin/  
[oracle@wls12c-node1 bin]$ ./rcu
```

Step 1:





Step 2: Define the host name port username and password for creating the RCU schemas in the database. The sys user required to create the rcu schemas.

Database Connection Details - Step 2 of 7

Repository Creation Utility

Database Type: Oracle Database

Host Name:

Port: 1522

Service Name: ORCL

Username: sys  
User with DBA or SYSDBA privileges. Example: sys

Password:

Role: SYSDBA  
One or more components may require SYSDBA role for the operation to succeed.

Messages:

< Back Next > Finish Cancel

Database Connection Details - Step 2 of 7

Repository Creation Utility

Database Type: Oracle Database

Host Name:

Port: 1522

Service Name: ORCL

Username: sys  
User with DBA or SYSDBA privileges. Example: sys

Password:

Role: SYSDBA  
One or more components may require SYSDBA role for the operation to succeed.

Messages:

< Back Next > Finish Cancel

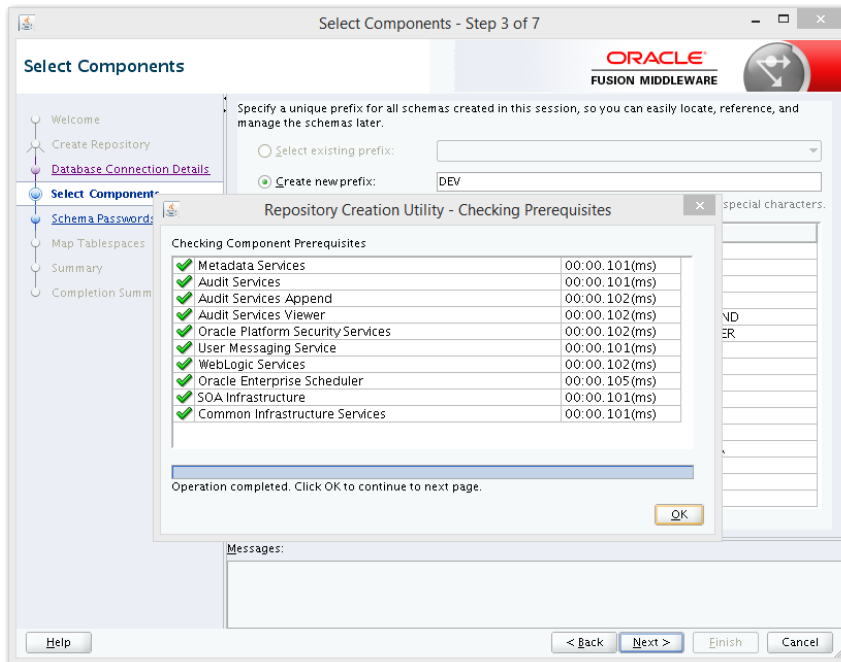
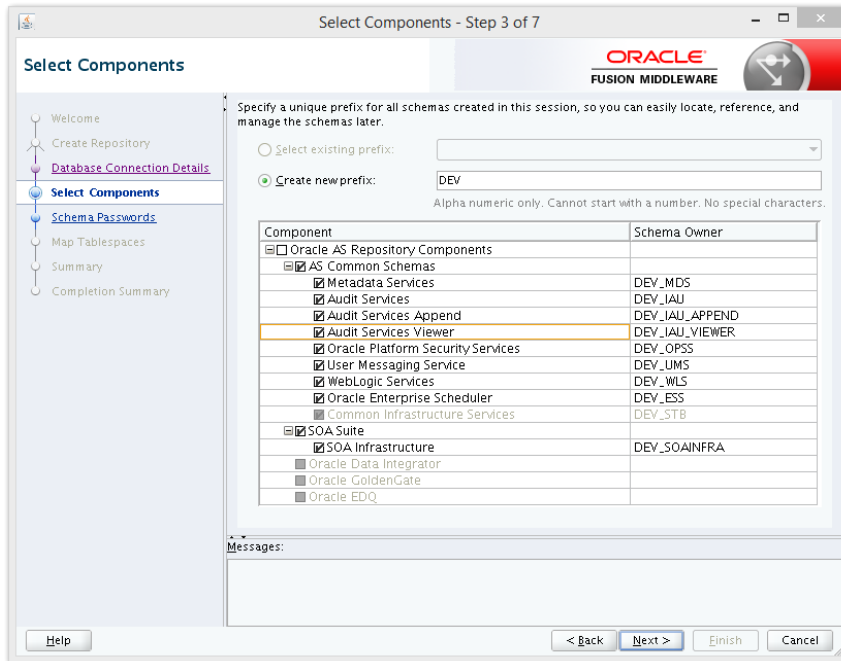
Repository Creation Utility - Checking Prerequisites

Checking Global Prerequisites	
✓ Initializing repository configuration metadata	00:01.215(sec)
✓ Obtain properties of the specified database	00:00.102(msec)
✓ Check requirement for specified database	00:01.625(sec)

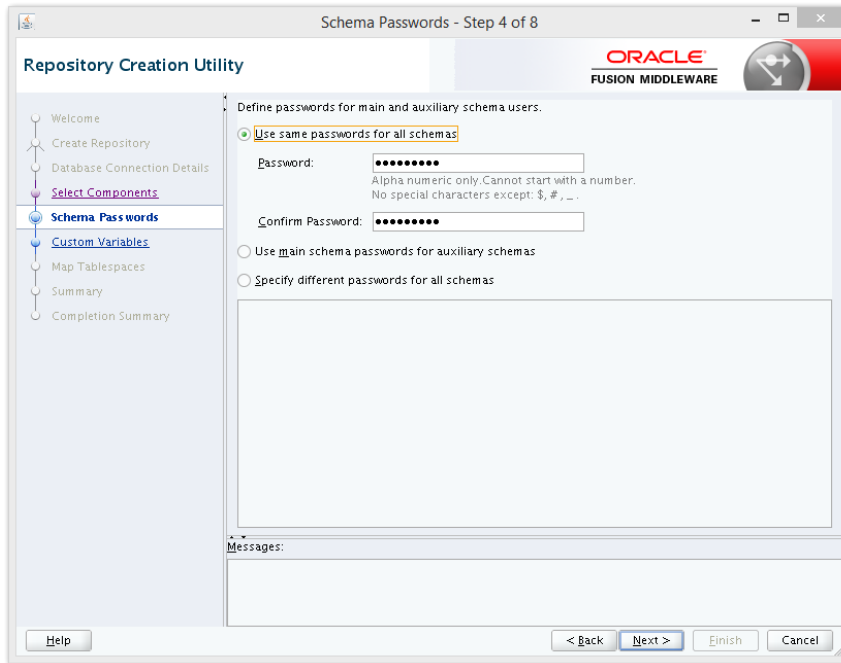
Operation completed. Click OK to continue to next page.

OK

### Step 3: Define the prefix to be used for the schemas



Step 4: Define the password for the schemas.



The screenshot shows the 'Schema Passwords' window in the Oracle Fusion Middleware Repository Creation Utility. The window title is 'Schema Passwords - Step 4 of 8'. The left sidebar shows the progress: Welcome, Create Repository, Database Connection Details, Select Components, Schema Passwords (current), Custom Variables, Map Tablespaces, Summary, and Completion Summary. The main area is titled 'Define passwords for main and auxiliary schema users.' and contains three radio buttons: 'Use same passwords for all schemas' (selected), 'Use main schema passwords for auxiliary schemas', and 'Specify different passwords for all schemas'. Below the first option are two password fields, both filled with dots. A note specifies: 'Alpha numeric only. Cannot start with a number. No special characters except: \$, #, \_'. At the bottom are 'Back', 'Next >', 'Finish', and 'Cancel' buttons.

Schema Passwords - Step 4 of 8

Repository Creation Utility

Define passwords for main and auxiliary schema users.

☒ Use same passwords for all schemas

Password: [REDACTED]

Confirm Password: [REDACTED]

☐ Use main schema passwords for auxiliary schemas


☐ Specify different passwords for all schemas

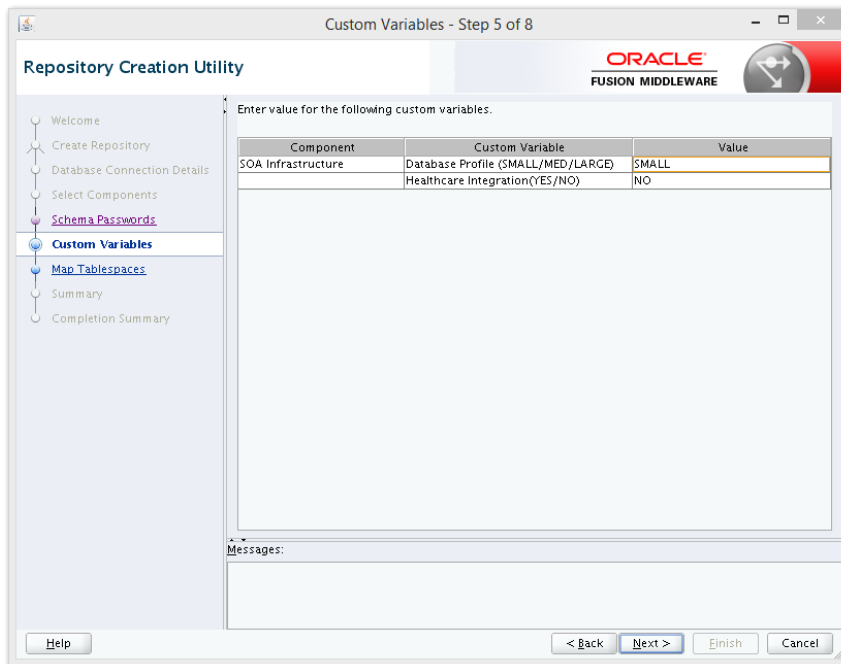
Alpha numeric only. Cannot start with a number.  
No special characters except: \$, #, \_

Messages:

< Back Next > Finish Cancel

**Note:** It is important to remember the password or passwords that you enter during the process.

Step 5:  Please select the database profile based on requirement (SMALL/MED/LARGE)



The screenshot shows the 'Custom Variables' window in the Oracle Fusion Middleware Repository Creation Utility. The window title is 'Custom Variables - Step 5 of 8'. The left sidebar shows the progress: Welcome, Create Repository, Database Connection Details, Select Components, Schema Passwords, Custom Variables (current), Map Tablespaces, Summary, and Completion Summary. The main area is titled 'Enter value for the following custom variables.' and contains a table with three columns: Component, Custom Variable, and Value. The table has two rows: 'SOA Infrastructure' with 'Database Profile (SMALL/MED/LARGE)' and 'SMALL', and 'Healthcare Integration(YES/NO)' with 'NO'. Below the table is a large empty text area. At the bottom are 'Back', 'Next >', 'Finish', and 'Cancel' buttons.

Custom Variables - Step 5 of 8

Repository Creation Utility

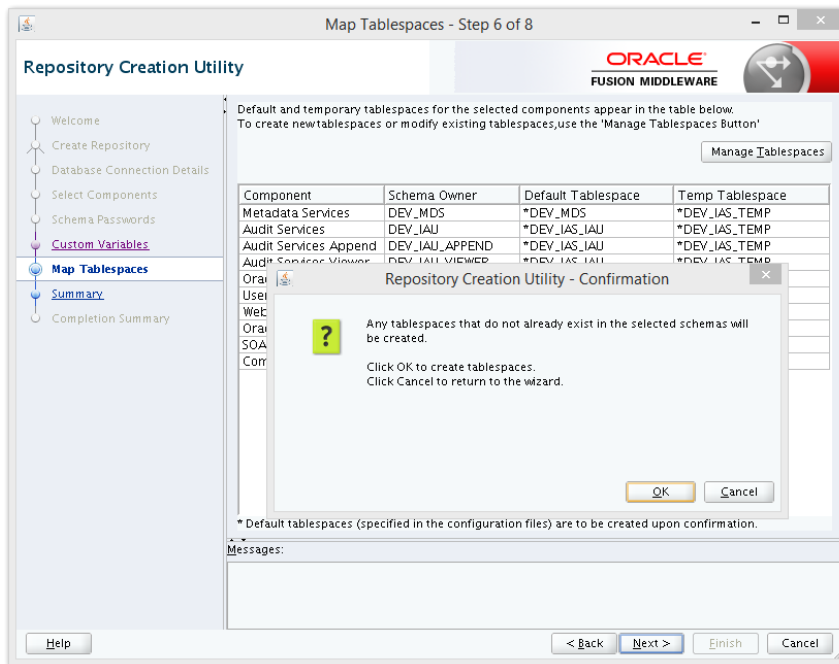
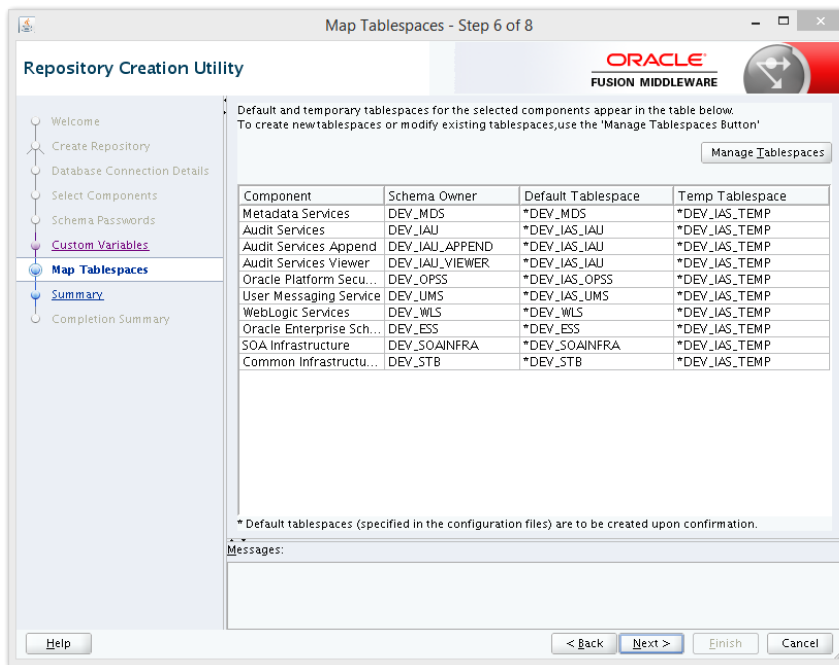
Enter value for the following custom variables.

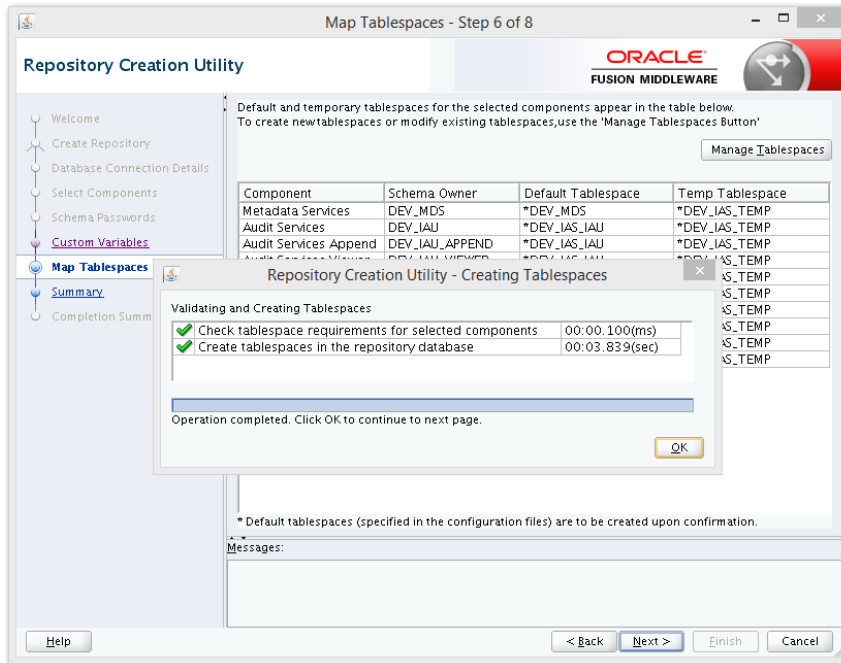
Component	Custom Variable	Value
SOA Infrastructure	Database Profile (SMALL/MED/LARGE)	SMALL
	Healthcare Integration(YES/NO)	NO

Messages:

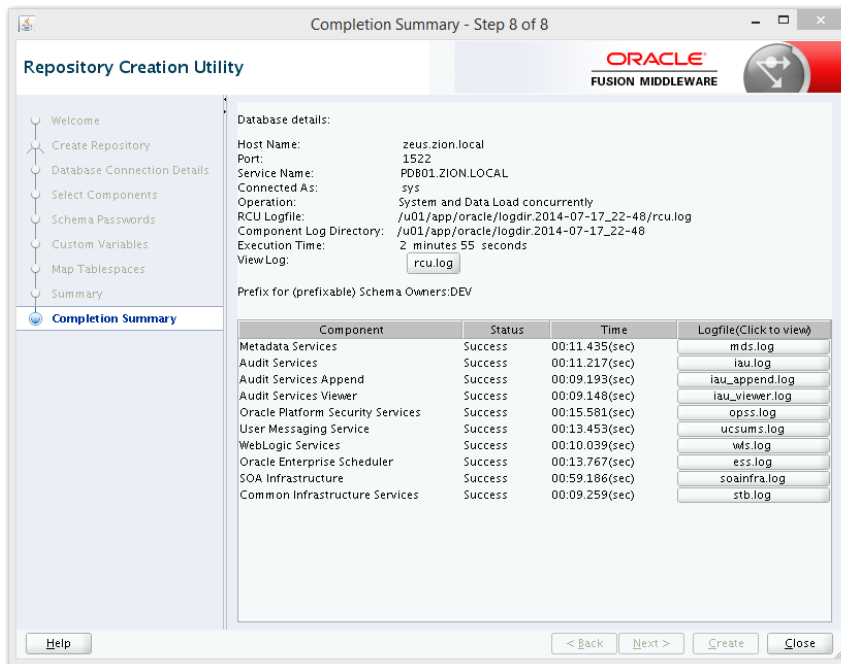
< Back Next > Finish Cancel

## Step 6:



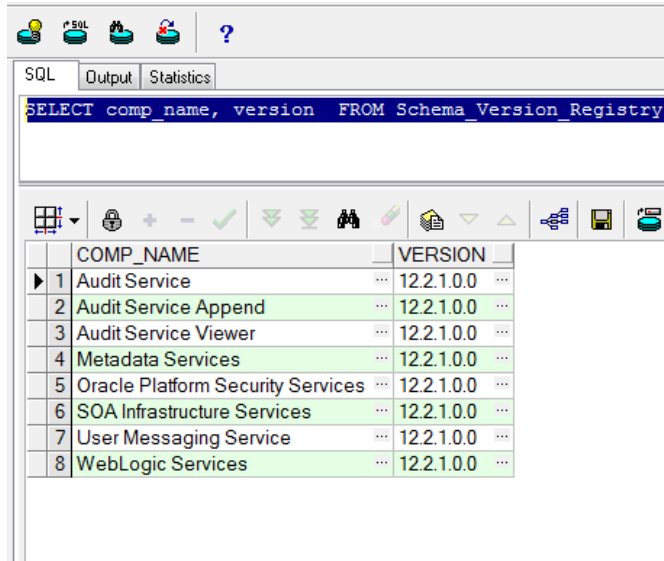


Step 7:



Note: Verifying Schema Version Numbers in the database where RCU is executed

```
SQL> select comp_name, version from schema_version_registry;
```

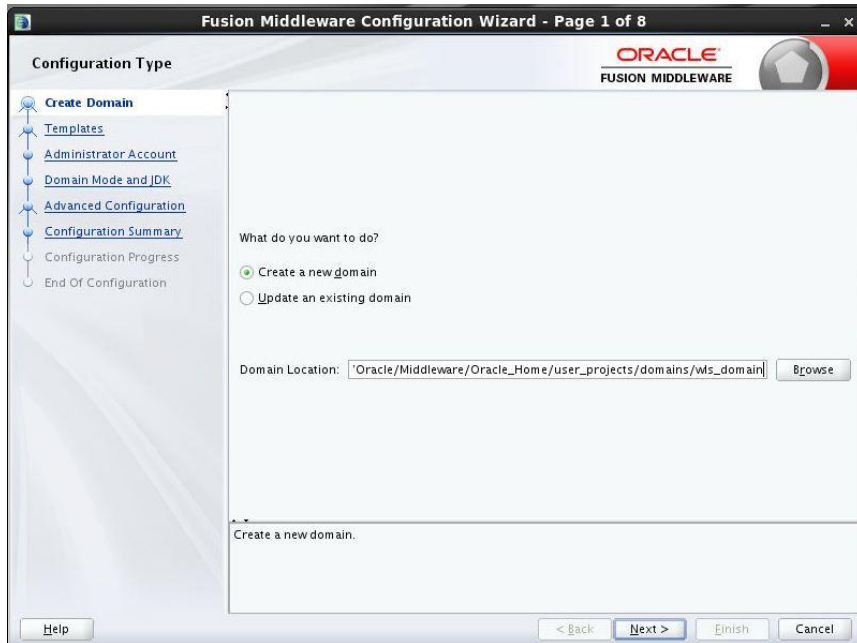


The screenshot shows the SQL Developer interface. The top toolbar includes icons for file operations, SQL execution, and help. Below the toolbar, the 'SQL' tab is active, displaying the query: `SELECT comp_name, version FROM Schema_Version_Registry`. The 'Output' tab shows the results of the query in a table format. The table has two columns: 'COMP\_NAME' and 'VERSION'. There are 8 rows of data, all showing version '12.2.1.0.0'. The rows are numbered 1 through 8 in the first column.


	COMP_NAME	VERSION
1	Audit Service	12.2.1.0.0
2	Audit Service Append	12.2.1.0.0
3	Audit Service Viewer	12.2.1.0.0
4	Metadata Services	12.2.1.0.0
5	Oracle Platform Security Services	12.2.1.0.0
6	SOA Infrastructure Services	12.2.1.0.0
7	User Messaging Service	12.2.1.0.0
8	WebLogic Services	12.2.1.0.0

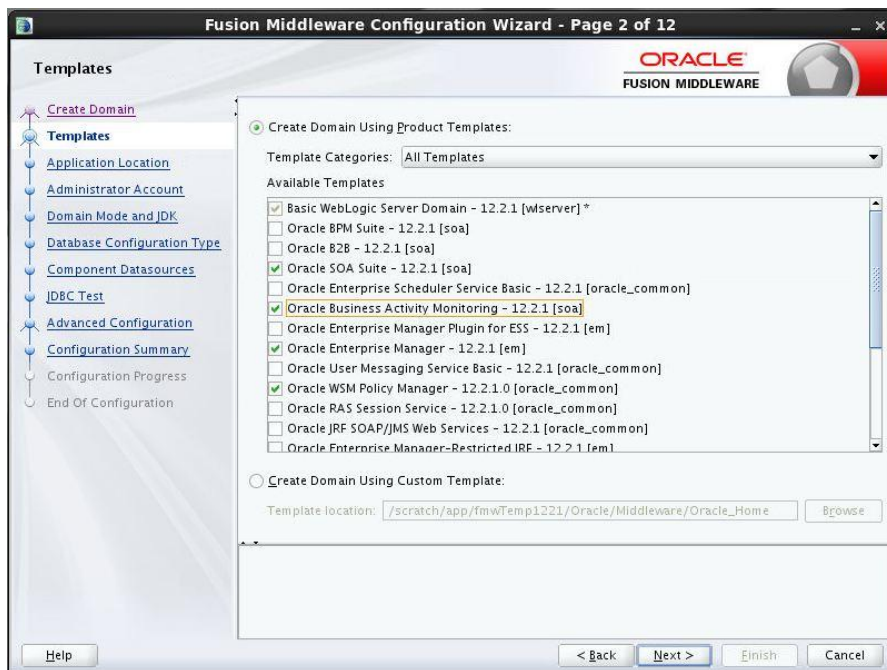
## 2.7 WebLogic Server Domain Configuration

Step 1:

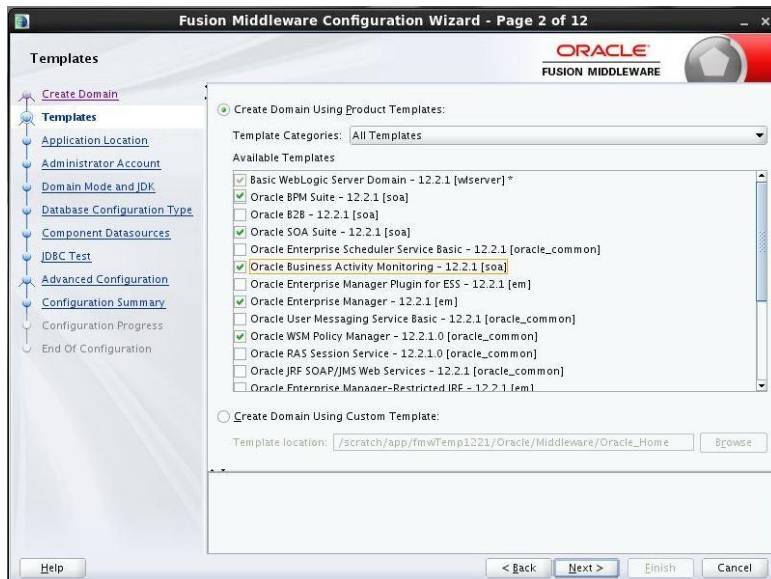


Step 2: Domain creation template

- a. For BPEL only domain
- b.  Based on the requirement select the Oracle Business Activity Monitoring (BAM) check box.

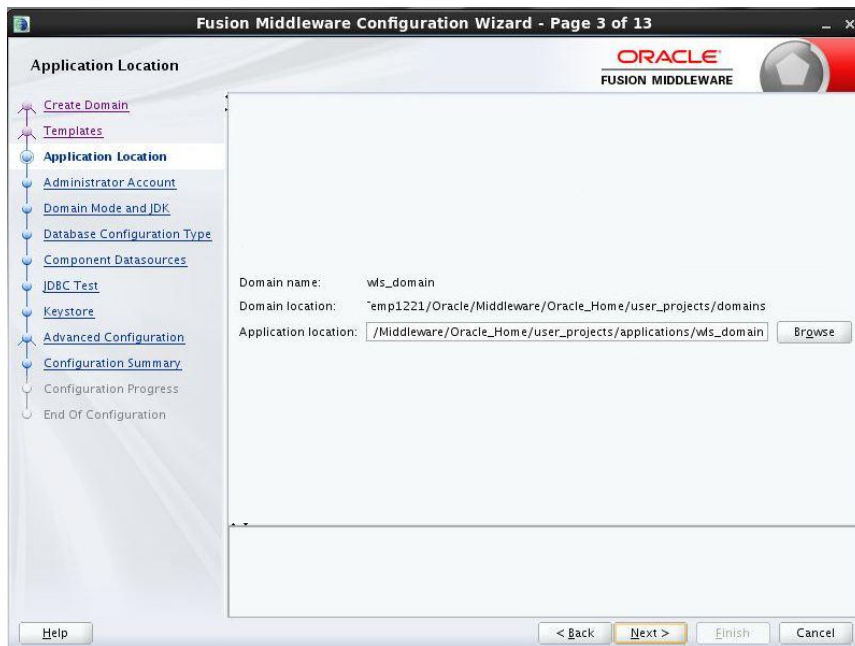


- c. For BPM enabled domain (\_If BPM process flows deployment is required then we have to select the Oracle BPM Suite – 12.2.1 )





### Step 3:

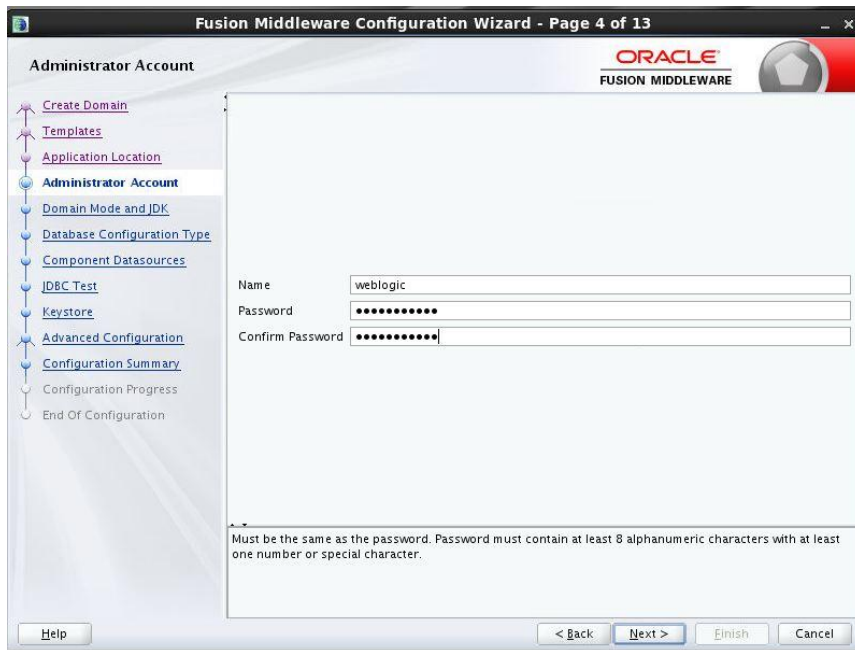


The screenshot shows the 'Application Location' step of the Fusion Middleware Configuration Wizard. The left sidebar contains a tree view with the following items: 'Create Domain' (highlighted), 'Templates', 'Application Location' (selected), 'Administrator Account', 'Domain Mode and JDK', 'Database Configuration Type', 'Component Datasources', 'JDBC Test', 'Keystore', 'Advanced Configuration', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area displays the following configuration details:

- Domain name: ws\_domain
- Domain location: \*emp1221/Oracle/Middleware/Oracle\_Home/user\_projects/domains
- Application location: /Middleware/Oracle\_Home/user\_projects/applications/ws\_domain (with a 'Browse' button)

At the bottom, there are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is located in the bottom left corner.

### Step 4: Defining the domain user name and password




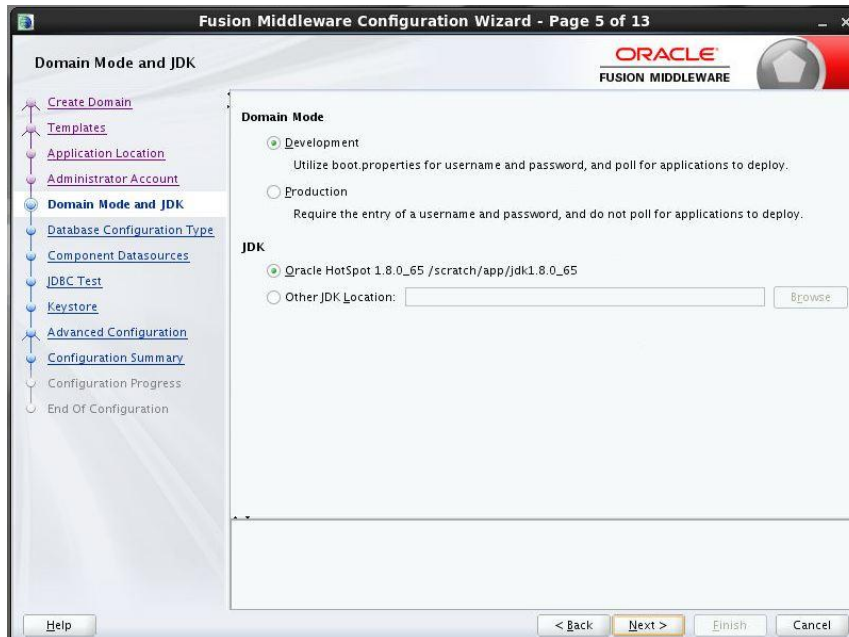
The screenshot shows the 'Administrator Account' step of the Fusion Middleware Configuration Wizard. The left sidebar contains a tree view with the following items: 'Create Domain', 'Templates', 'Application Location', 'Administrator Account' (selected), 'Domain Mode and JDK', 'Database Configuration Type', 'Component Datasources', 'JDBC Test', 'Keystore', 'Advanced Configuration', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area displays the following configuration details:

- Name: weblogic
- Password: (masked with dots)
- Confirm Password: (masked with dots)

Below the input fields, a note states: 'Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.'

At the bottom, there are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is located in the bottom left corner.

Step 5:  Domain mode needs to be production for all installations.



The screenshot shows the 'Domain Mode and JDK' configuration page. The left sidebar lists the configuration steps, with 'Domain Mode and JDK' selected. The main area is titled 'Domain Mode' and contains two radio buttons: 'Development' (selected) and 'Production'. Below this, the 'JDK' section shows 'Oracle HotSpot 1.8.0\_65 /scratch/app/jdk1.8.0\_65' selected. At the bottom, there are navigation buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.

**Domain Mode and JDK**

**Domain Mode**

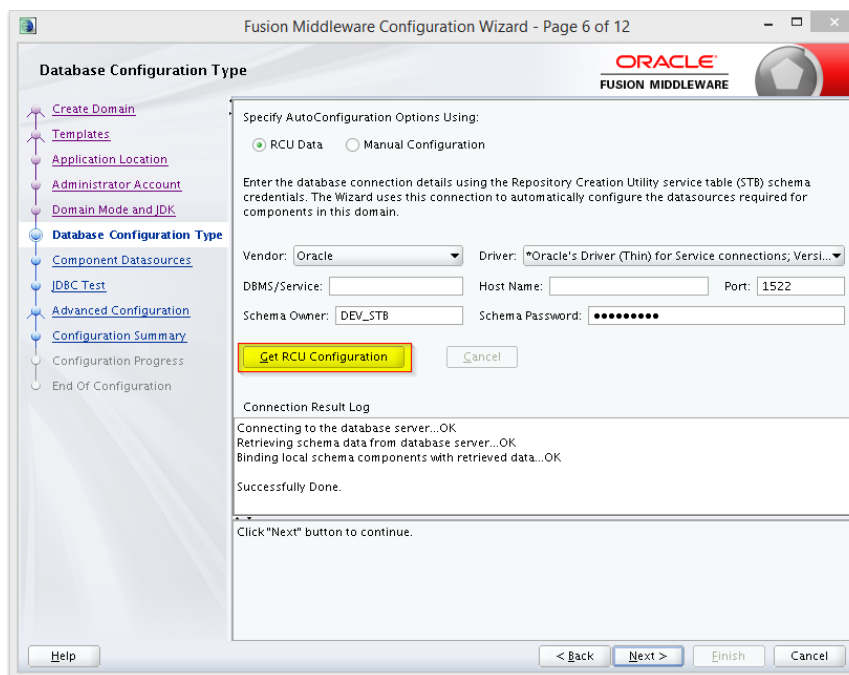
- ☒ Development  
Utilize boot.properties for username and password, and poll for applications to deploy.
- ☐ Production  
Require the entry of a username and password, and do not poll for applications to deploy.

**JDK**

- ☒ Oracle HotSpot 1.8.0\_65 /scratch/app/jdk1.8.0\_65
- ☐ Other JDK Location:

Help < Back Next > Finish Cancel

Step 6: Define the RCU schema details and the TNS connection details



The screenshot shows the 'Database Configuration Type' page. The left sidebar lists the configuration steps, with 'Database Configuration Type' selected. The main area is titled 'Specify AutoConfiguration Options Using:' and contains two radio buttons: 'RCU Data' (selected) and 'Manual Configuration'. Below this, there are fields for 'Vendor' (Oracle), 'Driver' (Oracle's Driver (Thin) for Service connections; Versi...), 'DBMS/Service', 'Host Name', 'Port' (1522), 'Schema Owner' (DEV\_STB), and 'Schema Password'. A yellow 'Get RCU Configuration' button is highlighted. At the bottom, there are navigation buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.

**Database Configuration Type**

Specify AutoConfiguration Options Using:

- ☒ RCU Data
- ☐ Manual Configuration

Enter the database connection details using the Repository Creation Utility service table (STB) schema credentials. The Wizard uses this connection to automatically configure the datasources required for components in this domain.

Vendor: Oracle Driver: \*Oracle's Driver (Thin) for Service connections; Versi...

DBMS/Service: Host Name: Port: 1522

Schema Owner: DEV\_STB Schema Password: .....

Connection Result Log

Connecting to the database server...OK  
Retrieving schema data from database server...OK  
Binding local schema components with retrieved data...OK

Successfully Done.

Click "Next" button to continue.

Help < Back Next > Finish Cancel

## Step 7:

Fusion Middleware Configuration Wizard - Page 7 of 12

**JDBC Component Schema**

Vendor:  Driver:

DBMS/Service:  Host Name:  Port:

Schema Owner:  Schema Password:

Oracle RAC configuration for component schemas:

☐ Convert to GridLink ☐ Convert to RAC multi data source ☐ Don't convert

Edits to the data above will affect all checked rows in the table below:

<input type="checkbox"/>	Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password
<input type="checkbox"/>	BAM Schema	ORFCL2C		1522	DEV_SQAINFR	*****
<input type="checkbox"/>	BAM Job Sched Schema	ORFCL2C		1522	DEV_WLS	*****
<input type="checkbox"/>	SOA EDN (QA)	ORFCL2C		1522	DEV_SQAINFR	*****
<input type="checkbox"/>	SOA EDN (Local)	ORFCL2C		1522	DEV_SQAINFR	*****
<input type="checkbox"/>	LocalSvcTbl Schema	ORFCL2C		1522	DEV_STB	*****
<input type="checkbox"/>	User Messaging Svc	ORFCL2C		1522	DEV_UMS	*****
<input type="checkbox"/>	SOA (QA)	ORFCL2C		1522	DEV_SQAINFR	*****
<input type="checkbox"/>	SOA (Local)	ORFCL2C		1522	DEV_SQAINFR	*****
<input type="checkbox"/>	BAM MDS Schema	ORFCL2C		1522	DEV_MDS	*****
<input type="checkbox"/>	QWSM MDS Schema	ORFCL2C		1522	DEV_MDS	*****

Help < Back Next > Finish Cancel

## Step 8

Fusion Middleware Configuration Wizard - Page 8 of 12

**JDBC Component Schema Test**

Status: ☒ Component Schema: ☒ JDBC Connection URL: ☒

Status	Component Schema	JDBC Connection URL
<input checked="" type="checkbox"/>	User Messaging Ser	jdbc:oracle:thin://203.37.1522/ORFCL2C
<input checked="" type="checkbox"/>	SOA (QA)	jdbc:oracle:thin://203.37.1522/ORFCL2C
<input checked="" type="checkbox"/>	SOA (Local)	jdbc:oracle:thin://203.37.1522/ORFCL2C
<input checked="" type="checkbox"/>	BAM MDS Schema	jdbc:oracle:thin://203.37.1522/ORFCL2C
<input checked="" type="checkbox"/>	QWSM MDS Schema	jdbc:oracle:thin://203.37.1522/ORFCL2C
<input checked="" type="checkbox"/>	SOA MDS	jdbc:oracle:thin://203.37.1522/ORFCL2C
<input checked="" type="checkbox"/>	OPSS Audit Schema	jdbc:oracle:thin://203.37.1522/ORFCL2C
<input checked="" type="checkbox"/>	OPSS Audit Viewer	jdbc:oracle:thin://203.37.1522/ORFCL2C
<input checked="" type="checkbox"/>	OPSS Schema	jdbc:oracle:thin://203.37.1522/ORFCL2C

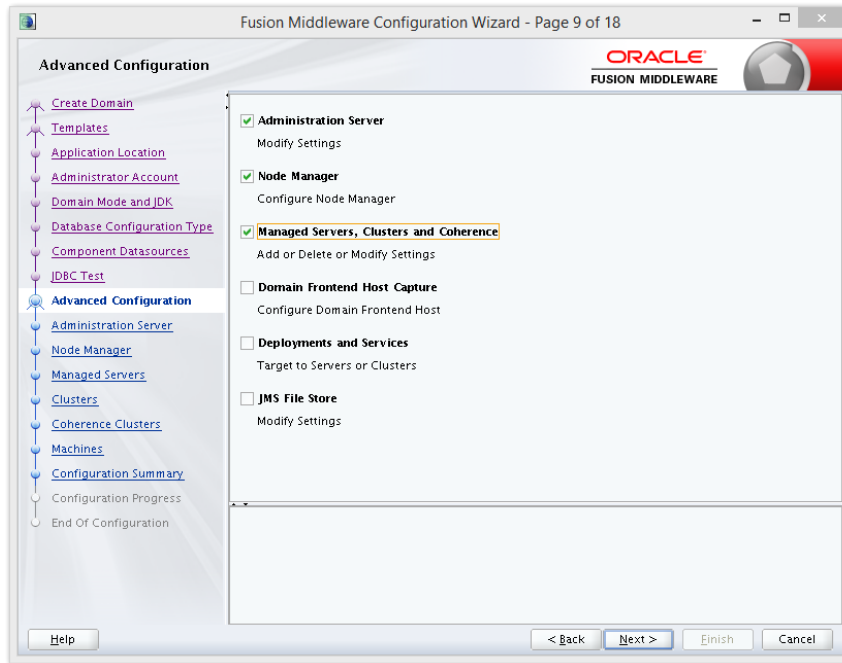
Test Selected Connections Cancel Testing

Connection Result Log

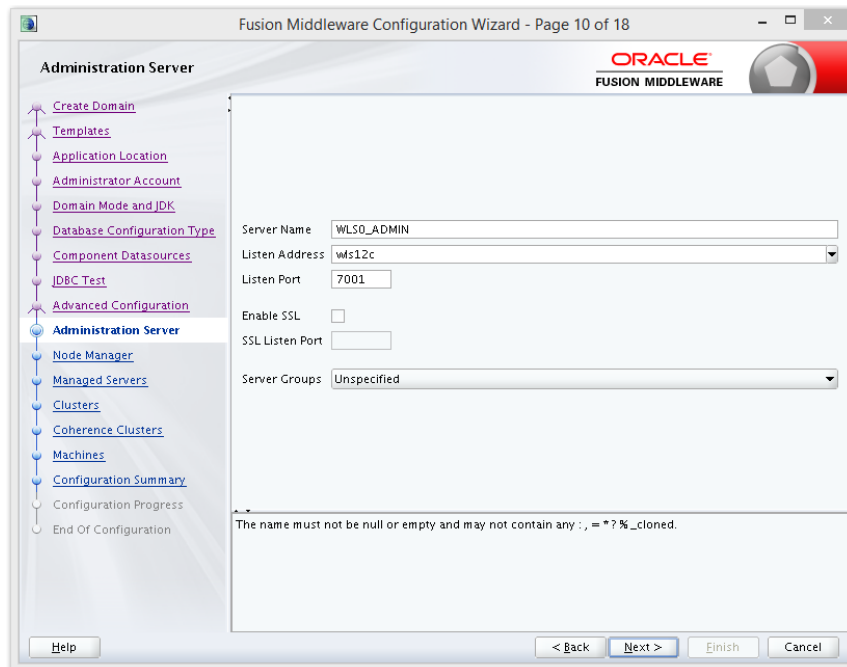
Component Schema=BAM Schema  
Driver=oracle.jdbc.ia.client.OracleIADataSource  
URL=jdbc:oracle:thin://203.37.1522/ORFCL2C  
User=DEV\_SQAINFR  
Password=\*\*\*\*\*  
SQL Test=select 1 from schema\_version\_registry where owner=(select user from dual) and nrv\_type=SOA  
CPFWK-64213: Test Successful  
CPFWK-64213: JDBC connection test was successful

Help < Back Next > Finish Cancel

Step 9: Select the admin server, node manager and managed servers.

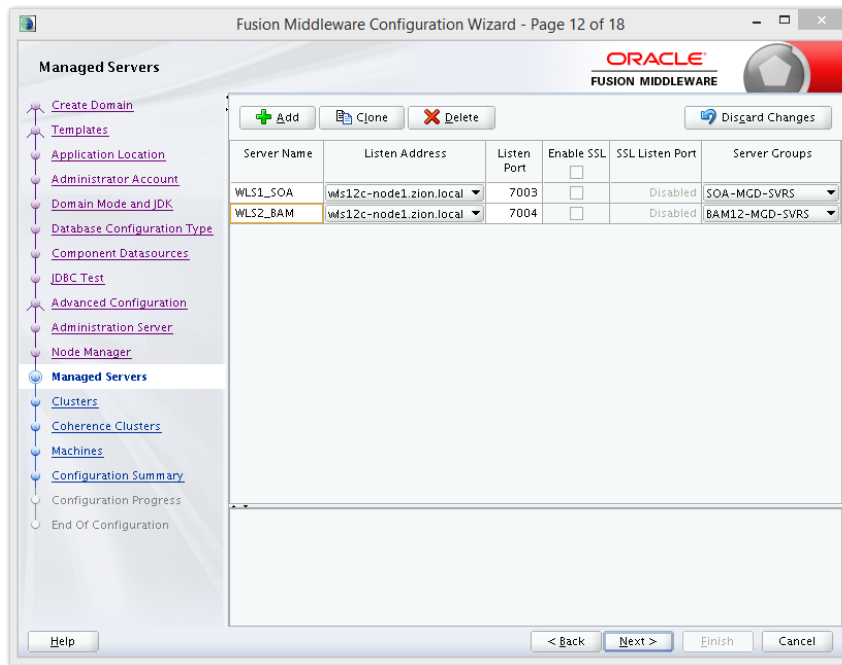


Step 10: Specify the server name as AdminServer and listener address as hostname. Based on the installation requirement SSL need to be enabled.

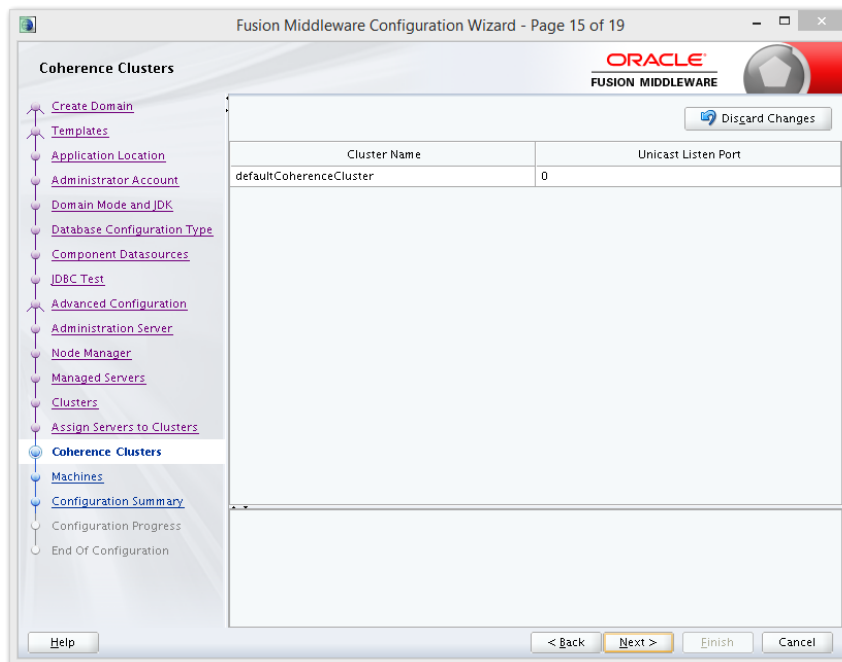


Step 11: specify the server name as soa\_server1 and bam\_server1 for the managed servers.

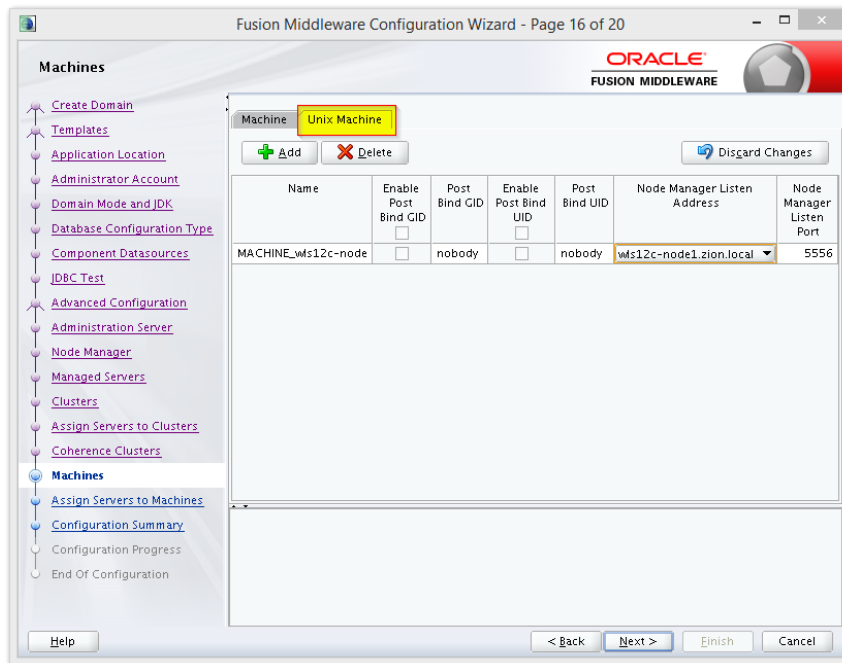
Based on the installation requirement SSL need to be enabled for managed servers



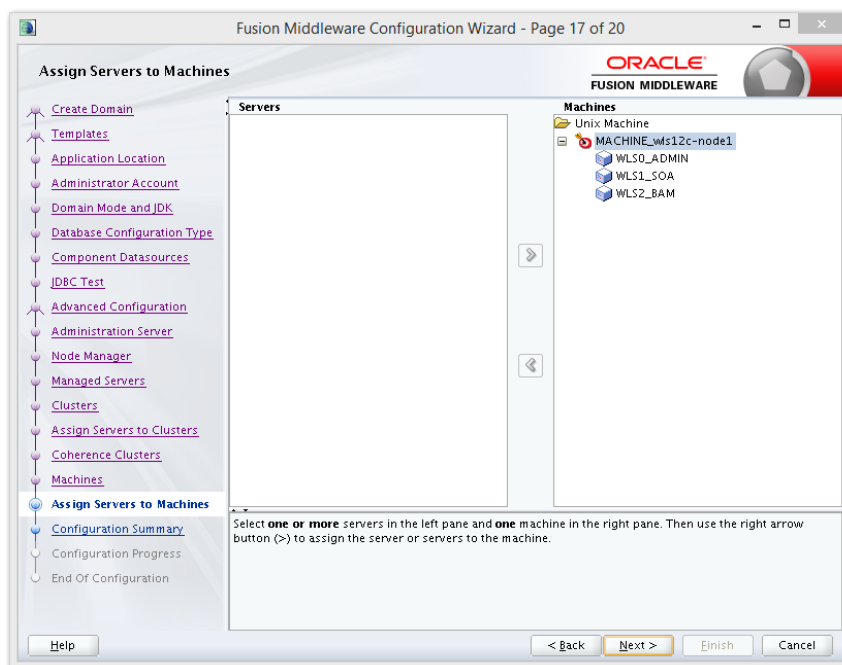
Step 12:



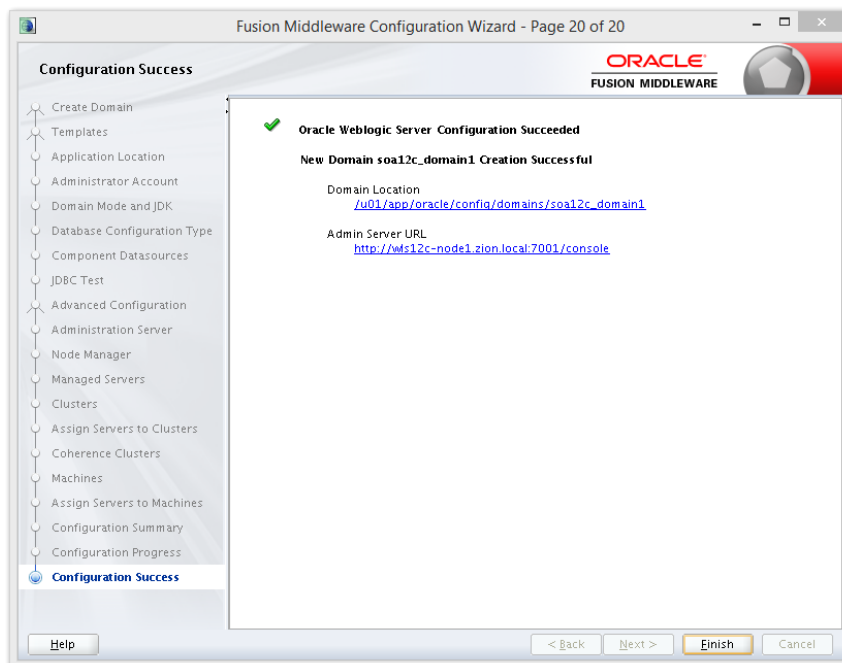
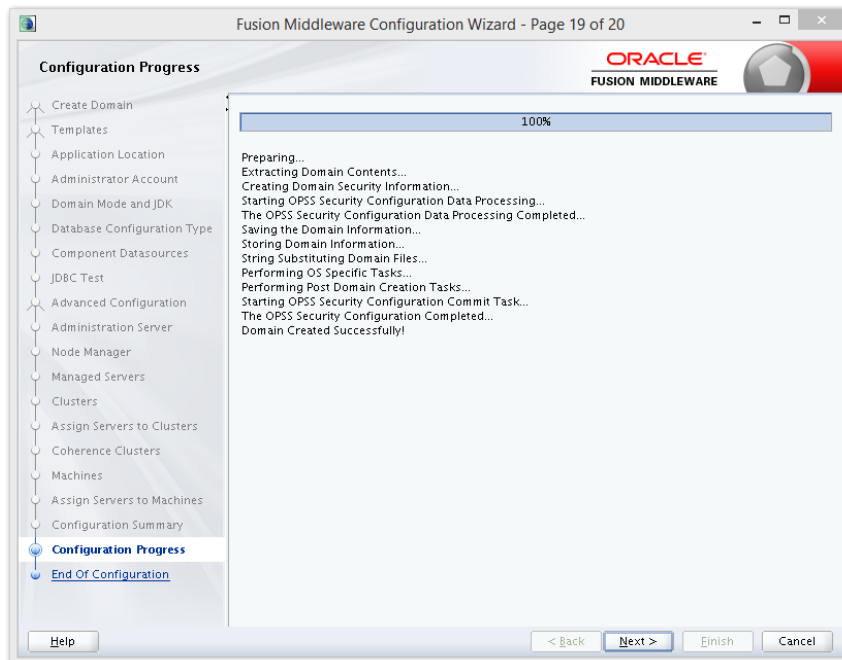
### Step 13:



### Step 14:



## Step 15:



## 2.8 Remote Setup Configuration

Remote setup means SOA is installed in different machine and EAR is running in different machine.

**Configuring Flexcube Application to point to remote BPEL instances.**

1. Following Jars has to be copied to <Weblogic\_home>\<domain>\lib

Jar to be copied	Path where the jar is available in SOA Middleware
bpm-services.jar	%Middleware Home%/soa/soa/modules/oracle.soa.workflow_11.1.1
fabric-runtime.jar	%Middleware Home%/soa/soa/modules/oracle.soa.fabric_11.1.1
tracking-fabric.jar	
tracking-api.jar	
jrf-api.jar	%Middleware Home%/oracle_common/modules/oracle.jrf
orabpel-common.jar	%Middleware Home%/soa/soa/modules/oracle.soa.bpel_11.1.1
orabpel-thirdparty.jar	
orabpel.jar	
soa-infra-mgmt.jar	%Middleware Home%/soa/soa/modules/oracle.soa.mgmt_11.1.1
xml.jar	%Middleware Home%/oracle_common/modules/oracle.xdk
xmlparserv2.jar	
mdsrt.jar	%Middleware Home%/oracle_common/modules/oracle.mds
com.oracle.webservices.fmw.wsclient-rt-impl.jar	%Middleware Home%/oracle_common/modules

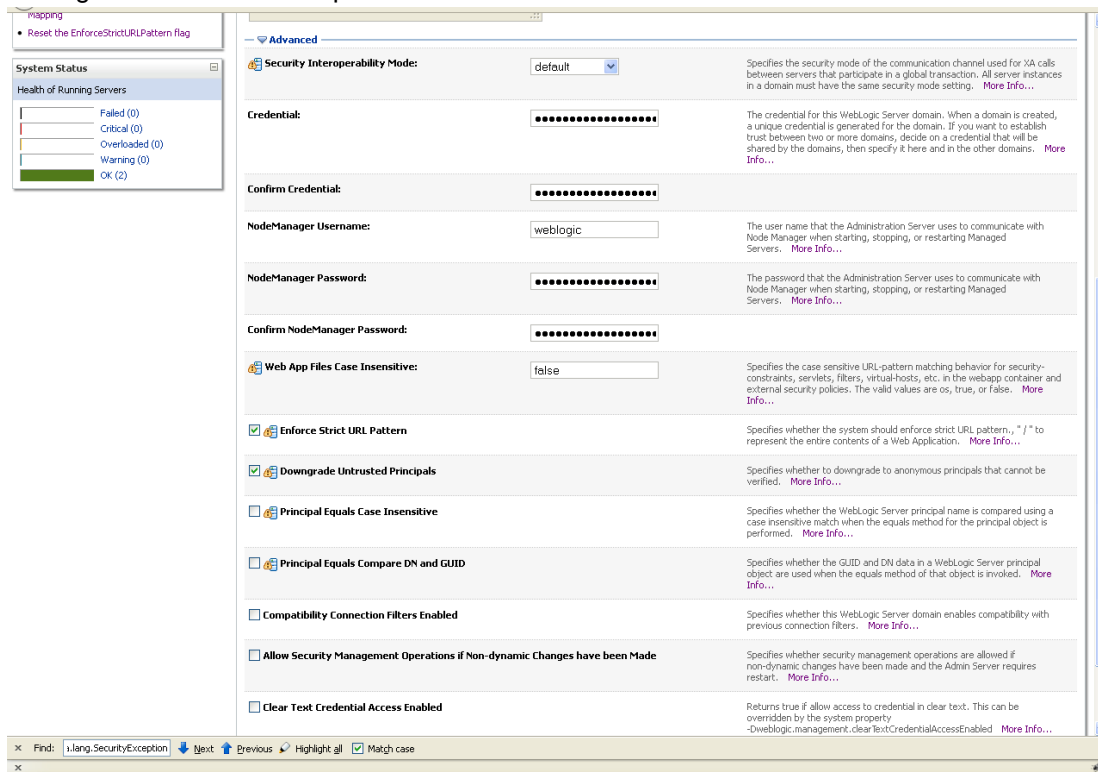
2. Additionally if BPMN enabled

Jar to be copied	Path where the jar is available in SOA Middleware
oracle.bpm.bpm-services.client.jar	%Middleware Home%/soa/soa/modules/oracle.bpm.client_11.1.1
oracle.bpm.bpm-services.interface.jar	
oracle.bpm.project.draw.jar	%Middleware Home%/soa/soa/modules/oracle.bpm.project_11.1.1
oracle.bpm.project.model.jar	



oracle.bpm.core.jar	%Middleware Home%/soa/soa/modules/oracle.bpm.runtime_11.1.1
oracle.bpm.ui.jar	%Middleware Home%/soa/soa/modules/oracle.bpm.workspace_11.1.1
oracle.bpm.casemgmt.interface.jar	%Middleware Home%/soa/soa/modules/oracle.bpm.runtime_11.1.1

- The jars copied have to be from same soa-suite version where BPEL processflows deployed. Ie, We cannot have jars from soa12.1.3.0.0 and BPEL deployed in soa12.2.1.0.0 It should be consistent.
- The properties file **fcubs.properties** should read as below  
WORKFLOW\_CLIENT\_TYPE =REMOTE  
java.naming.provider.url =t3://10.184.74.143:8001/?partitionName=DOMAIN (Remote soa server provider url)  
java.naming.security.principal =weblogic (Remote bpel server userid)  
java.naming.security.credentials=RF2MRTP/MG8TB1T5QG6lnQ== (Remote soa server password)  
dedicated.connection =true  
domain.name =default (Remote soa server partition)  
domain.pwd =RF2MRTP/MG8TB1T5QG6lnQ== (Remote soa server password)
- Configure domain password same as for both fcj ear domain and remote BPEL domain and DowngradeUntrusted Principals has to be checked





SOA Suite Setup for BPEL Process Flow  
[September] [2016]  
Version 12.3.0.0.0

Oracle Financial Services Software Limited  
Oracle Park  
Off Western Express Highway  
Goregaon (East)  
Mumbai, Maharashtra 400 063  
India

Worldwide Inquiries:  
Phone: +91 22 6718 3000  
Fax: +91 22 6718 3001  
[www.oracle.com/financialservices/](http://www.oracle.com/financialservices/)

Copyright © [2007], [2016], Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

**U.S. GOVERNMENT END USERS:** Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.