SOA Suite Setup for BPEL Process Flow
Oracle FLEXCUBE Universal Banking
Release 14.0.0.0.0
[February] [2018]

Table of Contents

1. PREFACE 1-1

1.1 BACKGROUND 1-1
1.2 AUDIENCE 1-1
1.3 ORGANIZATION 1-1
1.4 ACRONYMS AND ABBREVIATIONS 1-1

2. INSTALLING THE JDK, WEBLOGIC, RCU, SOA AND DOMAIN CREATION 2

2.1 INTRODUCTION 2
2.2 LIST OF DOWNLOADED FILESSS 2
2.3 INSTALL JDK 3
2.4 INSTALLING WEBLOGIC SERVER SOFTWARE 3
2.5 INSTALLING ORACLE FUSION MIDDLEWARE 12C SOFTWARE. 10
2.6 CREATING PRODUCT SCHEMAS IN ORACLE DATABASE 16
2.7 WEBLOGIC SERVER DOMAIN CONFIGURATION 23
2.8 REMOTE SETUP CONFIGURATION: 35

ORACLE

1. Preface

1.1 Background

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

Refer Oracle documentation for HA (FCUBS Switch Interface Gateway High Availability Configuration.pdf) 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 below oracle edelivery portal
https://edelivery.oracle.com

Refer to the Oracle certification matrix for qualified databases.

2.2 List of downloaded files

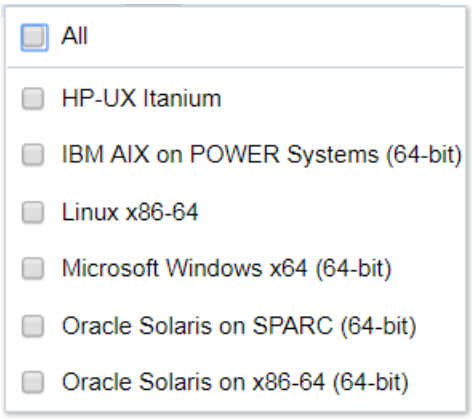
Search: Oracle JDK Latest JDK 1.8 Update 144 for Linux x86-64Search:
Oracle Fusion Middleware 12c Infrastructure 12.2.1.2.0

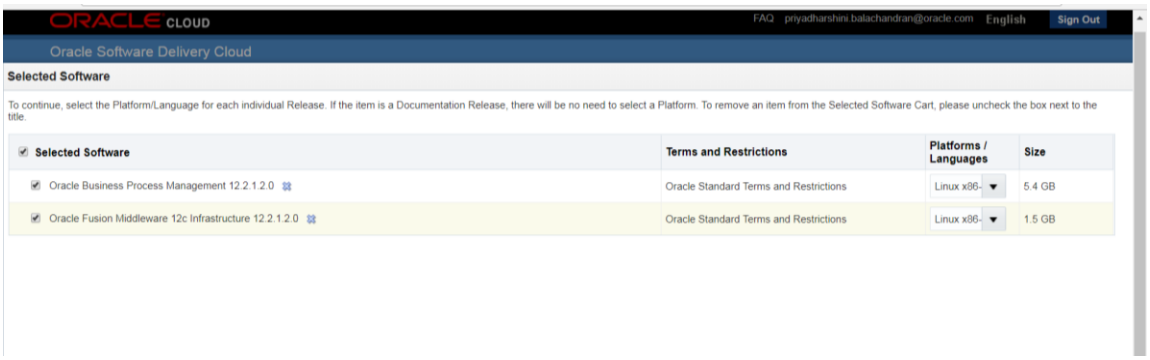
V779122-01.zip - Oracle Fusion Middleware 12c Infrastructure 12.2.1.2.0

Search: **Oracle Business Process Management** 12.2.1.2.0

V789369-01.zip - Oracle Fusion Middleware 12c (12.2.1.2.0) SOA Suite and Business Process Management

List of platform which can be selected based on the installation platform





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

Installation of the software can be done from local machine or from the app server

1. Installation from the app server location:

a) Login to the app server host and connect through putty

b) Copy the zipped file into the app server in the location /scratch/app/<[app_name]>

eg: /scratch/app/bpm12212

c) Unzip the file with the command “unzip V779122-01.zip”

d) Once it is unzipped, fmw_12.2.1.2.0_soa.jar and fmw_12212_readme.htm will be

extracted into the same path

e) execute the jar file to launch the installer for 12c SOA installation with the below command

“java –jar fmw_12.2.1.2.0_infrastructure.jar”

```
[oracle@wls12c-node1 ~]$ cd /scratch/app/fmwTemp1221/
[oracle@wls12c-node1 fmwTemp1221]$ unzip V779122-01.zip
Archive:  V779122-01.zip
inflating: fmw_12.2.1.2.0_infrastructure.jar
[oracle@wls12c-node1 fmwTemp1221]$ java -jar fmw_12.2.1.2.0_infrastructure.jar
```

2. Installation from the local path:

a) open the command prompt in “Run as Adminstrator” mode and move to the location where the zip file is available using the command “cd” followed by the path

eg: C:\Users\pribalac\Downloads

b) Unzip the file with the command “unzip V779122-01.zip”

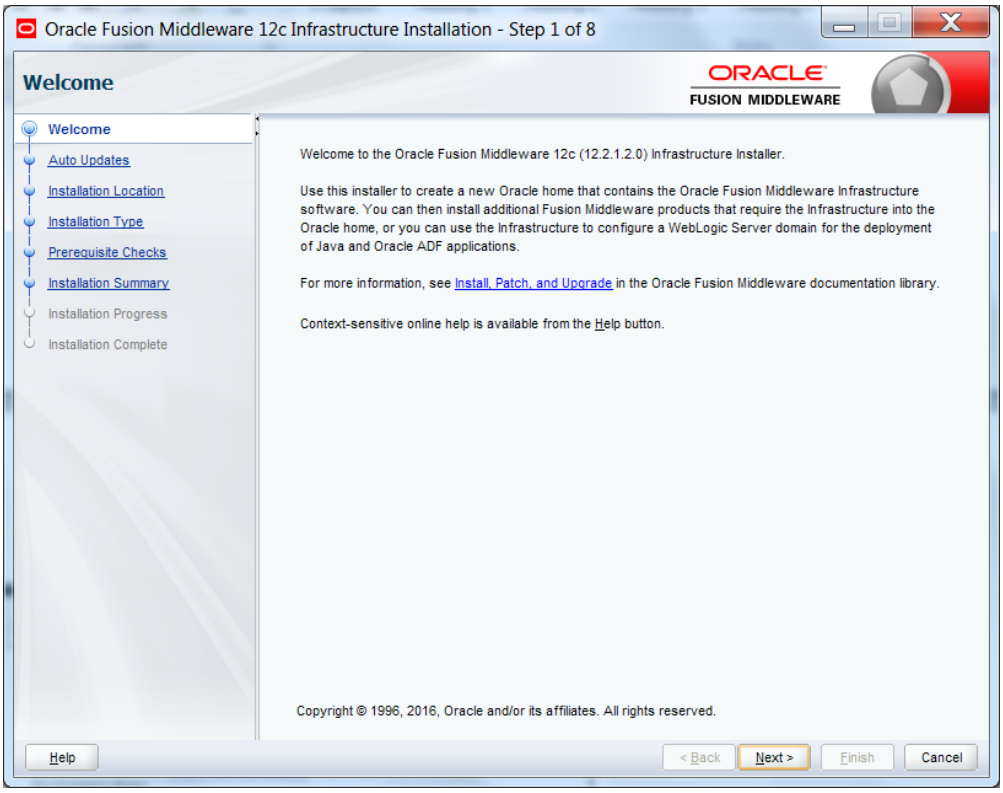
c) Once it is unzipped, fmw_12.2.1.2.0_soa.jar and fmw_12212_readme.htm will be extracted into the same path

d) execute the jar file to launch the installer for 12c SOA installation with the below command

“java –jar fmw_12.2.1.2.0_soa.jar”

```
[C:\Users\pribalac\ ~]$ cd C:\Users\pribalac\Downloads\V779122-01
[C:\Users\pribalac\Downloads\V779122-01]$ unzip V779122-01.zip
Archive:  V779122-01.zip
inflating: fmw 12.2.1.2.0 infrastructure.jar
[C:\Users\pribalac\Downloads\V779122-01]$ "C:\Program Files\Java\jdk1.8.0_144\bin\java" -jar
fmw_12.2.1.2.0_infrastructure.jar
```

Step 1:

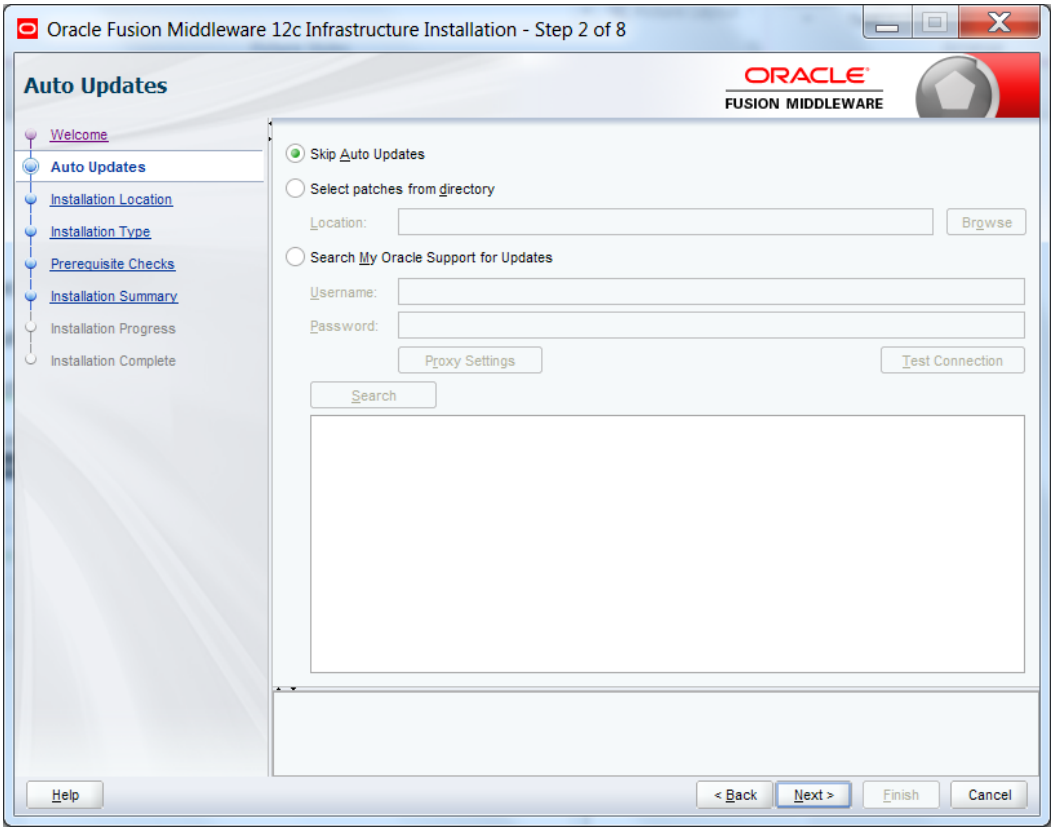


Step 2:

Select the option based on the requirement:

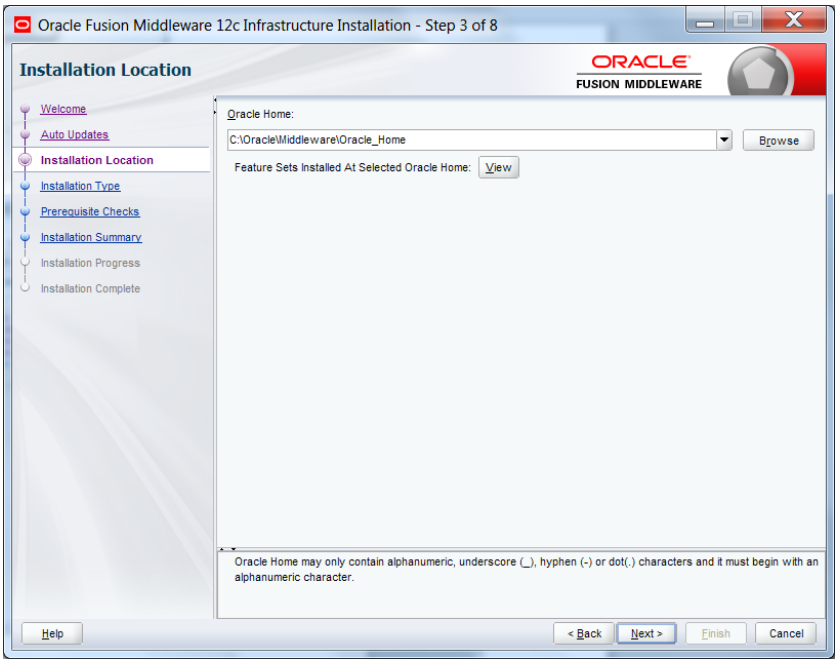
If you do not want the auto updates, select the first option.

If you are applying patches, select the second option.



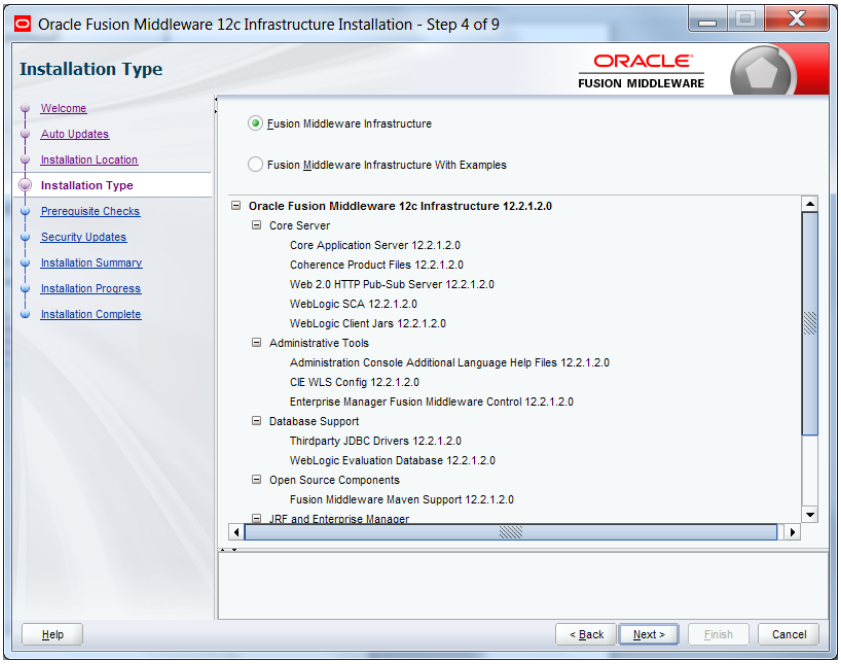
Step 3:

Define the oracle home path

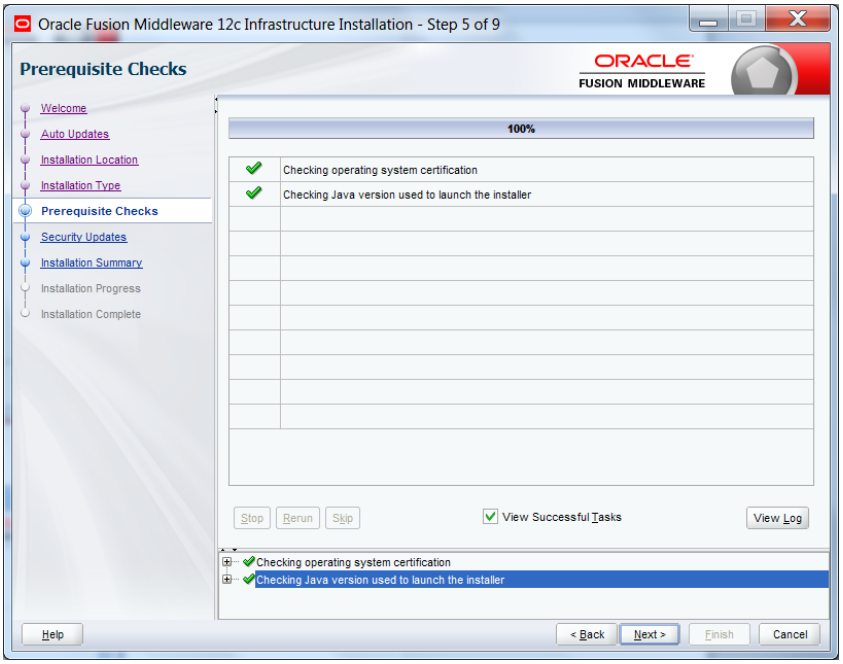


Step 4:

Select fusion middleware infrastructure

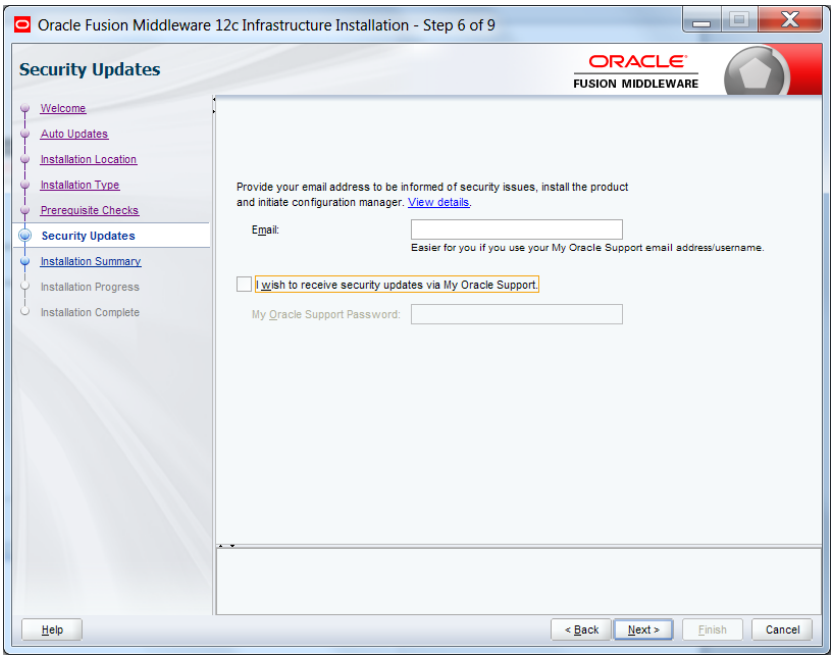


Step 5:

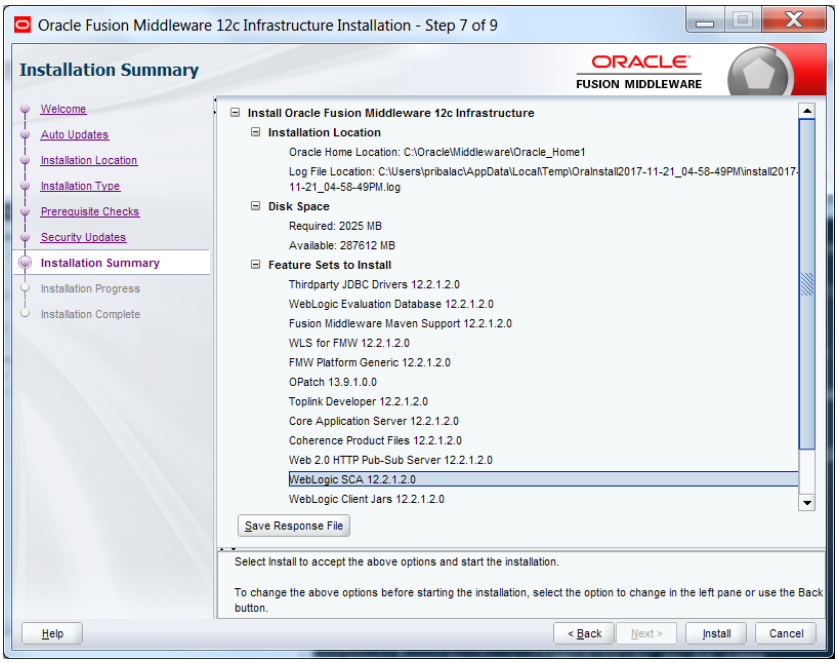


Step 6:

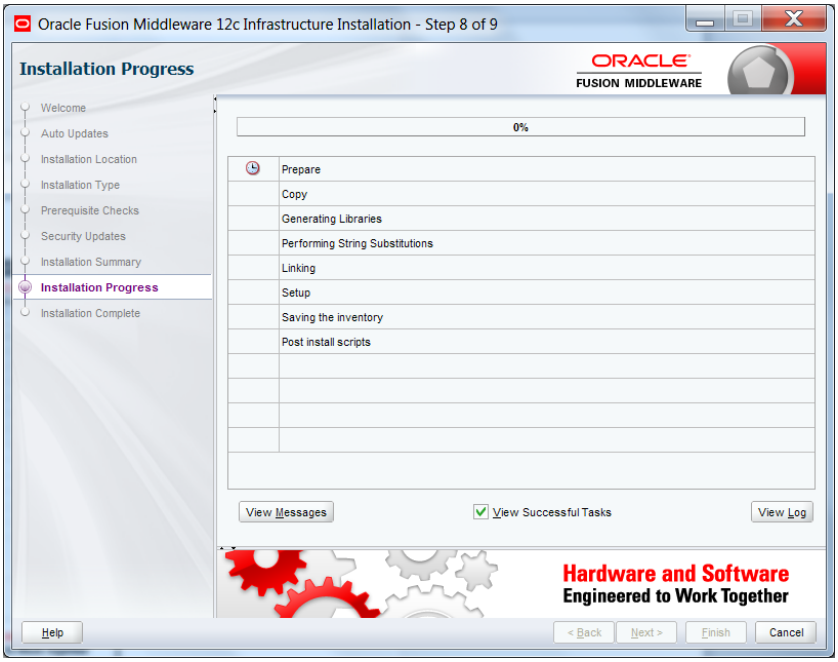
Optional based on installation requirement


Oracle Fusion Middleware 12c Infrastructure Installation - Step 6 of 9
Security Updates
ORACLE
FUSION MIDDLEWARE
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

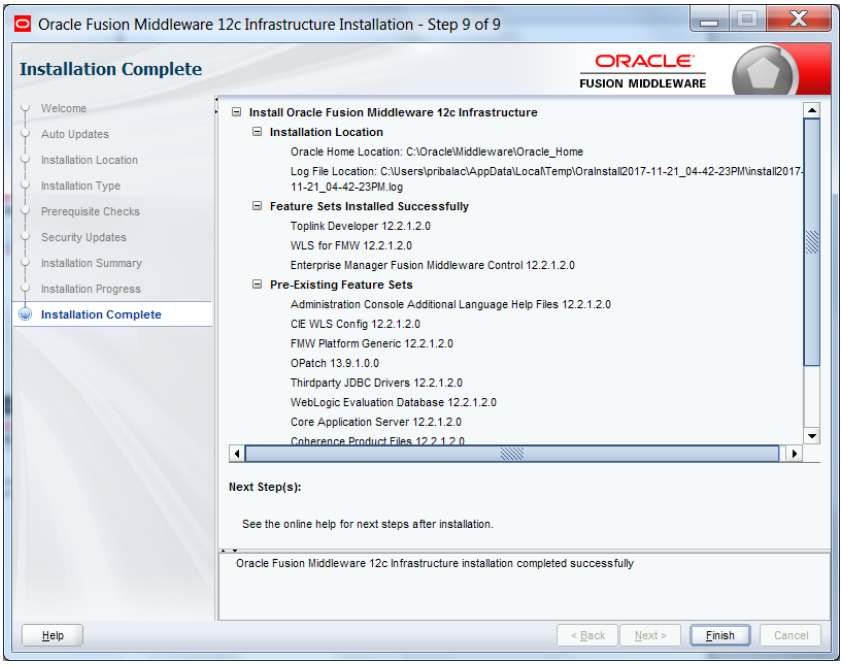
Step 7:


Oracle Fusion Middleware 12c Infrastructure Installation - Step 7 of 9
Installation Summary
ORACLE
FUSION MIDDLEWARE
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: C:\Oracle\Middleware\Oracle_Home1
Log File Location: C:\Users\pribalac\AppData\Local\Temp\OraInstall2017-11-21_04-58-49PM\install2017-11-21_04-58-49PM.log
Disk Space
Required: 2025 MB
Available: 287612 MB
Feature Sets to Install
Thirdparty JDBC Drivers 12.2.1.2.0
WebLogic Evaluation Database 12.2.1.2.0
Fusion Middleware Maven Support 12.2.1.2.0
WLS for FMW 12.2.1.2.0
FMW Platform Generic 12.2.1.2.0
OPatch 13.9.1.0.0
Toplink Developer 12.2.1.2.0
Core Application Server 12.2.1.2.0
Coherence Product Files 12.2.1.2.0
Web 2.0 HTTP Pub-Sub Server 12.2.1.2.0
WebLogic SCA 12.2.1.2.0
WebLogic Client Jars 12.2.1.2.0
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:


Oracle Fusion Middleware 12c Infrastructure Installation - Step 8 of 9
Installation Progress
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Security Updates
Installation Summary
Installation Progress
Installation Complete
0%
Prepare
Copy
Generating Libraries
Performing String Substitutions
Linking
Setup
Saving the inventory
Post install scripts
View Messages
View Successful Tasks
View Log
Hardware and Software
Engineered to Work Together
Help
< Back
Next >
Finish
Cancel

Step 9:


Oracle Fusion Middleware 12c Infrastructure Installation - Step 9 of 9
Installation Complete
ORACLE
FUSION MIDDLEWARE
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: C:\Oracle\Middleware\Oracle_Home
Log File Location: C:\Users\pribalac\AppData\Local\Temp\OraInstall2017-11-21_04-42-23PM\install2017-11-21_04-42-23PM.log
Feature Sets Installed Successfully
Toplink Developer 12.2.1.2.0
WLS for FMW 12.2.1.2.0
Enterprise Manager Fusion Middleware Control 12.2.1.2.0
Pre-Existing Feature Sets
Administration Console Additional Language Help Files 12.2.1.2.0
CIE WLS Config 12.2.1.2.0
FMW Platform Generic 12.2.1.2.0
OPatch 13.9.1.0.0
Thirdparty JDBC Drivers 12.2.1.2.0
WebLogic Evaluation Database 12.2.1.2.0
Core Application Server 12.2.1.2.0
Coherence Product Files 12.2.1.2.0
Next Step(s):
See the online help for next steps after installation.
Oracle Fusion Middleware 12c Infrastructure installation completed successfully
Help
< Back
Next >
Finish
Cancel

2.5 Installing Oracle Fusion Middleware 12c software.

Installation of the software can be done from local machine or from the app server

1. Installation from the app server location:

a) Login to the app server host and connect through putty

b) Copy the zipped file into the app server in the location /scratch/app/<[app_name]>

eg: /scratch/app/bpm12212

c) Unzip the file with the command “unzip V789369-01.zip”

d) Once it is unzipped, fmw_12.2.1.2.0_soa.jar and fmw_12212_readme.htm will be extracted into the same path

e) execute the jar file to launch the installer for 12c SOA installation with the below command

“java –jar fmw_12.2.1.2.0_soa.jar”

```
[bpm12212@whf00anl:~]$ cd /scratch/app/bpm12212/
[bpm12212@whf00anl:/scratch/app/bpm12212]$ unzip V789369-01.zip
Archive:  V789369-01.zip
  inflating: fmw_12.2.1.2.0_soa.jar

[bpm12212@whf00anl:/scratch/app/bpm12212]$ java -jar fmw_12.2.1.2.0_soa.jar
```

2. 1) Installation from the local path:

a) open the command prompt in “Run as Adminstrator” mode and move to the location where the zip file is available using the command “cd” followed by the path

eg: C:\Users\pribalac\Downloads

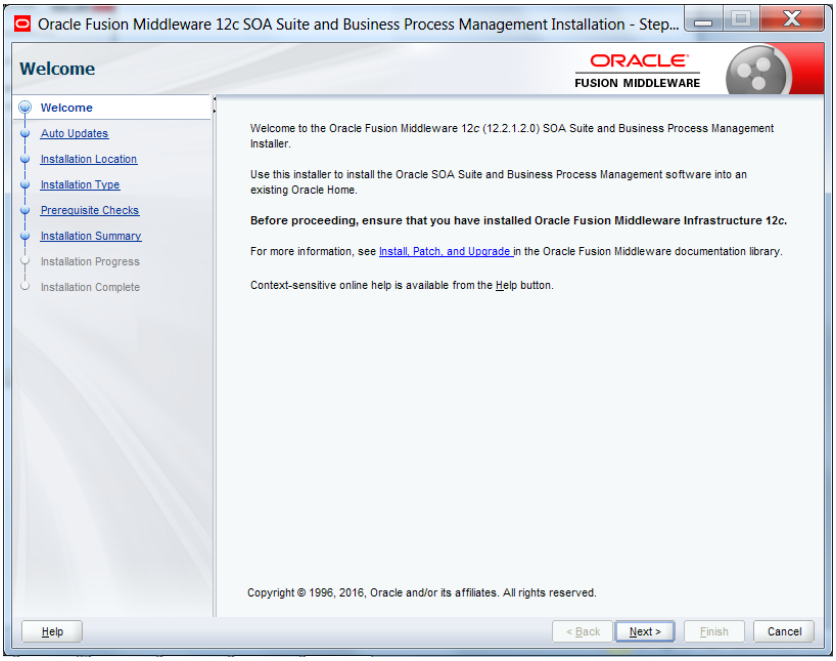
b) Unzip the file with the command “unzip V789369-01.zip”

c) Once it is unzipped, fmw_12.2.1.2.0_soa.jar and fmw_12212_readme.htm will be extracted into the same path

d) execute the jar file to launch the installer for 12c SOA installation with the below command

“java –jar fmw_12.2.1.2.0_soa.jar”

Step 1:



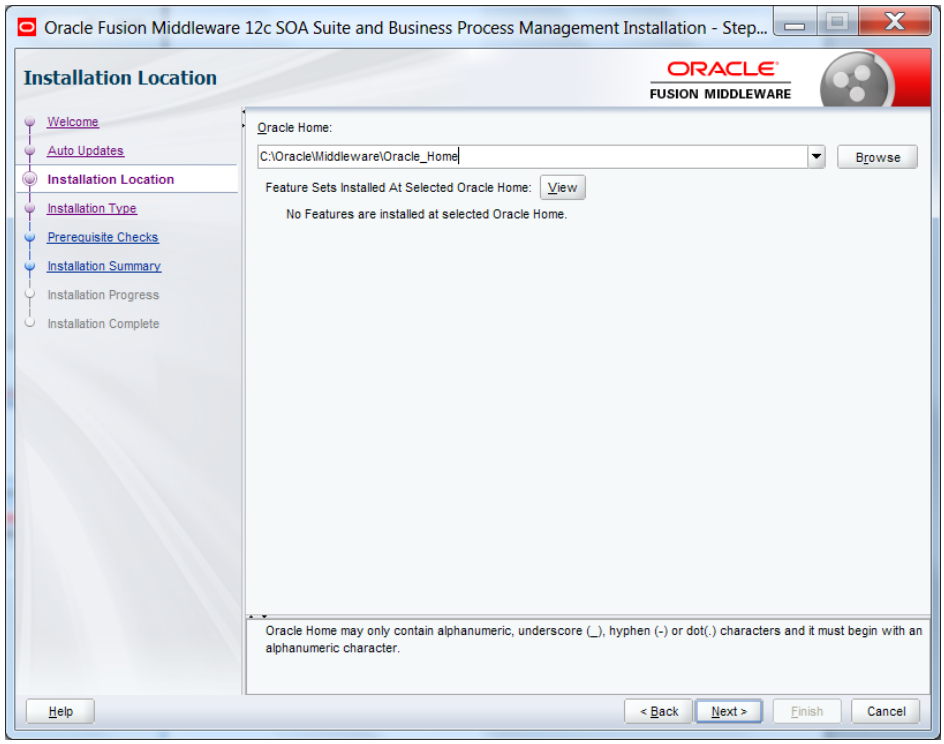
Step 2:

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 .

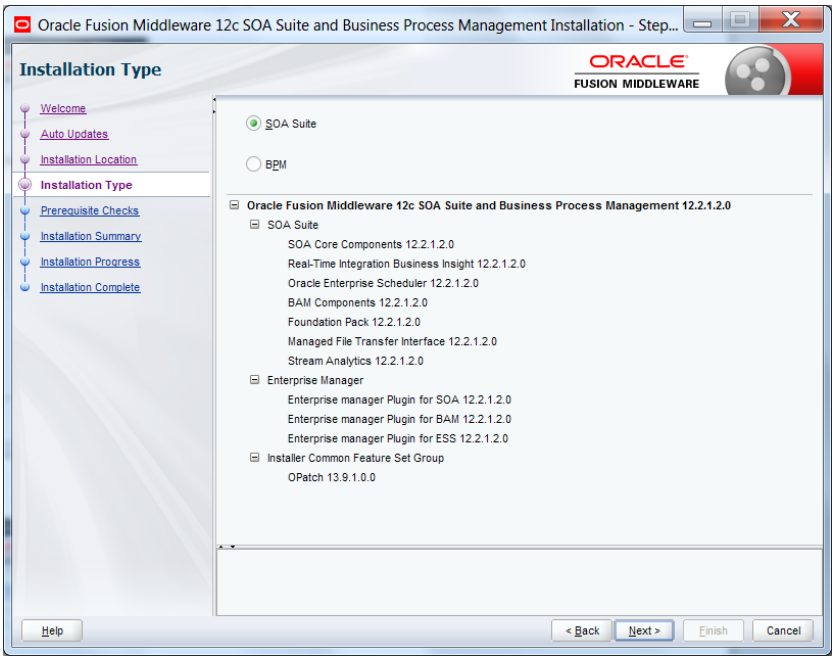
Please select the below option based on the requirement:

Step 3:

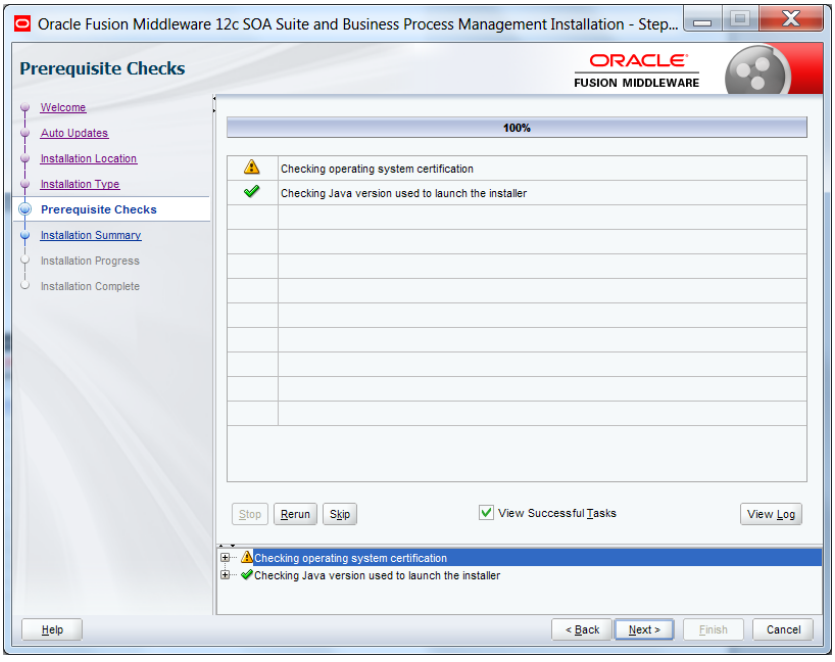

Oracle Fusion Middleware 12c SOA Suite and Business Process Management Installation - Step...
Installation Location
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
Oracle Home:
C:\Oracle\Middleware\Oracle_Home
Browse
Feature Sets Installed At Selected Oracle Home:
View
No Features are installed at selected Oracle Home.
Oracle Home may only contain alphanumeric, underscore (_), hyphen (-) or dot(.) characters and it must begin with an alphanumeric character.
Help
< Back
Next >
Finish
Cancel

Step 4:

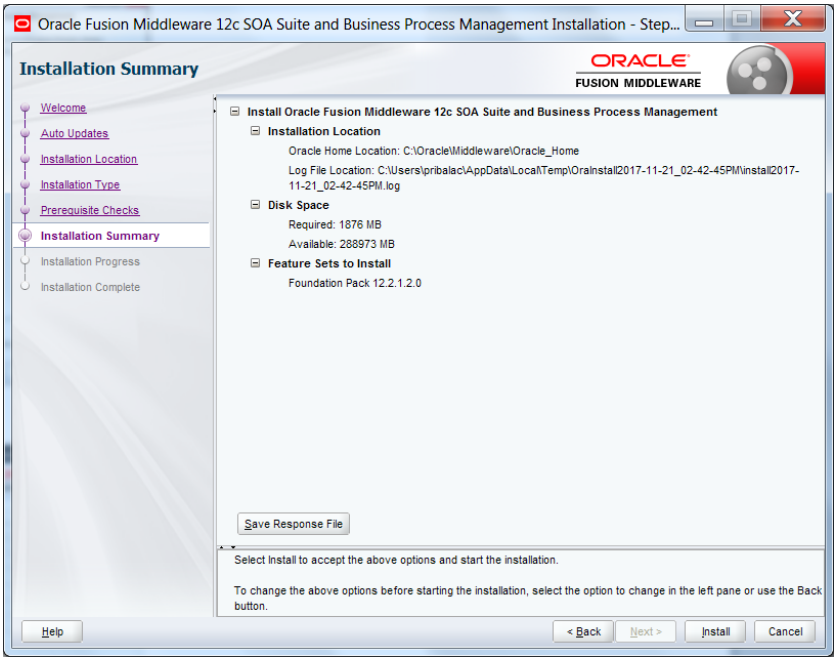
Select BPM if the environment requires BPM process flow deployment



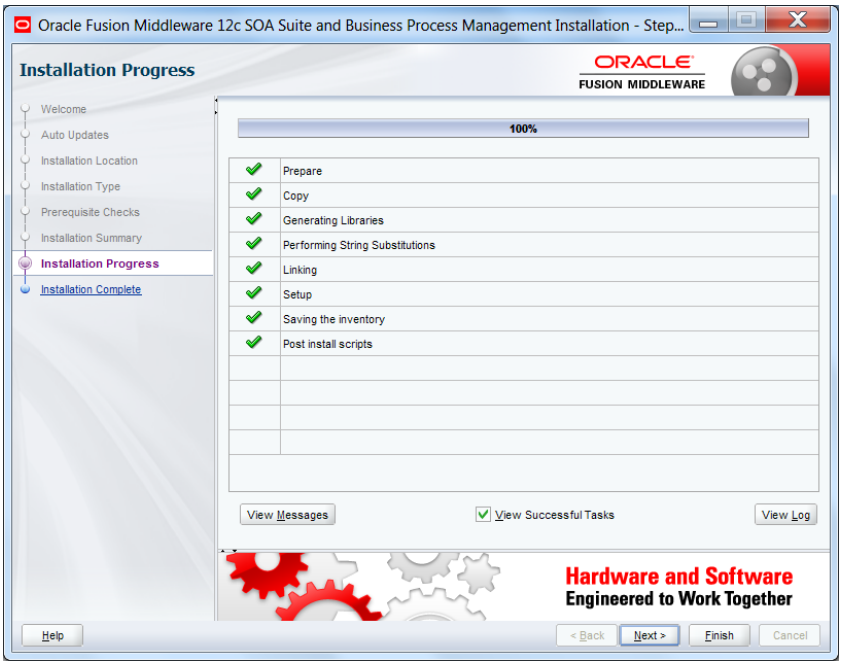
Step 5:



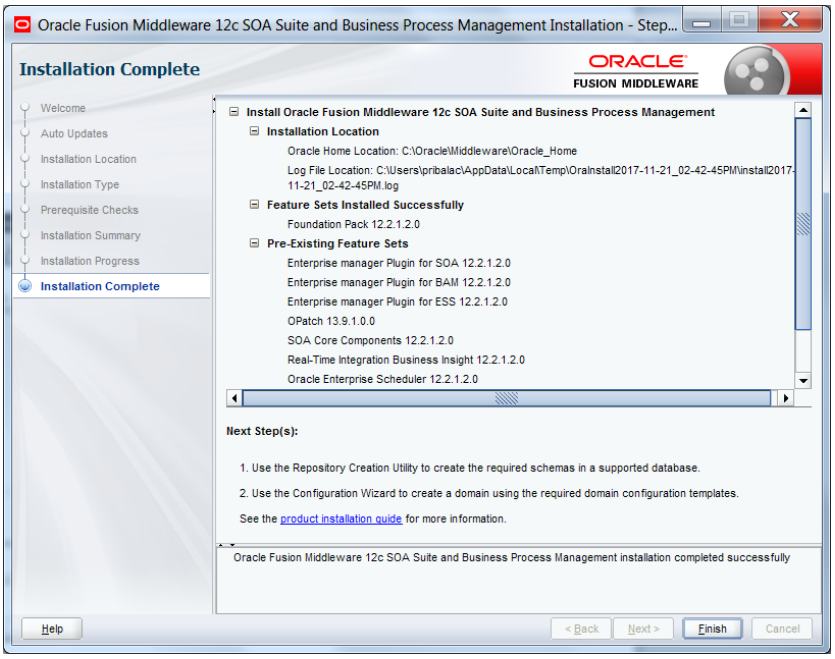
Step 6:


Oracle Fusion Middleware 12c SOA Suite and Business Process Management Installation - Step...
Installation Summary
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
Install Oracle Fusion Middleware 12c SOA Suite and Business Process Management
Installation Location
Oracle Home Location: C:\Oracle\Middleware\Oracle_Home
Log File Location: C:\Users\pribalac\AppData\Local\Temp\OraInstall2017-11-21_02-42-45PM\install2017-11-21_02-42-45PM.log
Disk Space
Required: 1876 MB
Available: 288973 MB
Feature Sets to Install
Foundation Pack 12.2.1.2.0
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 7:


Oracle Fusion Middleware 12c SOA Suite and Business Process Management Installation - Step...
Installation Progress
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
100%
Prepare
Copy
Generating Libraries
Performing String Substitutions
Linking
Setup
Saving the inventory
Post install scripts
View Messages
View Successful Tasks
View Log
Hardware and Software
Engineered to Work Together
Help
< Back
Next >
Finish
Cancel

Step 8:


Oracle Fusion Middleware 12c SOA Suite and Business Process Management Installation - Step...
Installation Complete
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
Install Oracle Fusion Middleware 12c SOA Suite and Business Process Management
Installation Location
Oracle Home Location: C:\Oracle\Middleware\Oracle_Home
Log File Location: C:\Users\pribalac\AppData\Local\Temp\OraInstall2017-11-21_02-42-45PM\install2017-11-21_02-42-45PM.log
Feature Sets Installed Successfully
Foundation Pack 12.2.1.2.0
Pre-Existing Feature Sets
Enterprise manager Plugin for SOA 12.2.1.2.0
Enterprise manager Plugin for BAM 12.2.1.2.0
Enterprise manager Plugin for ESS 12.2.1.2.0
OPatch 13.9.1.0.0
SOA Core Components 12.2.1.2.0
Real-Time Integration Business Insight 12.2.1.2.0
Oracle Enterprise Scheduler 12.2.1.2.0
Next Step(s):
1. Use the Repository Creation Utility to create the required schemas in a supported database.
2. Use the Configuration Wizard to create a domain using the required domain configuration templates.
See the product installation guide for more information.
Oracle Fusion Middleware 12c SOA Suite and Business Process Management installation completed successfully
Help
< Back
Next >
Finish
Cancel

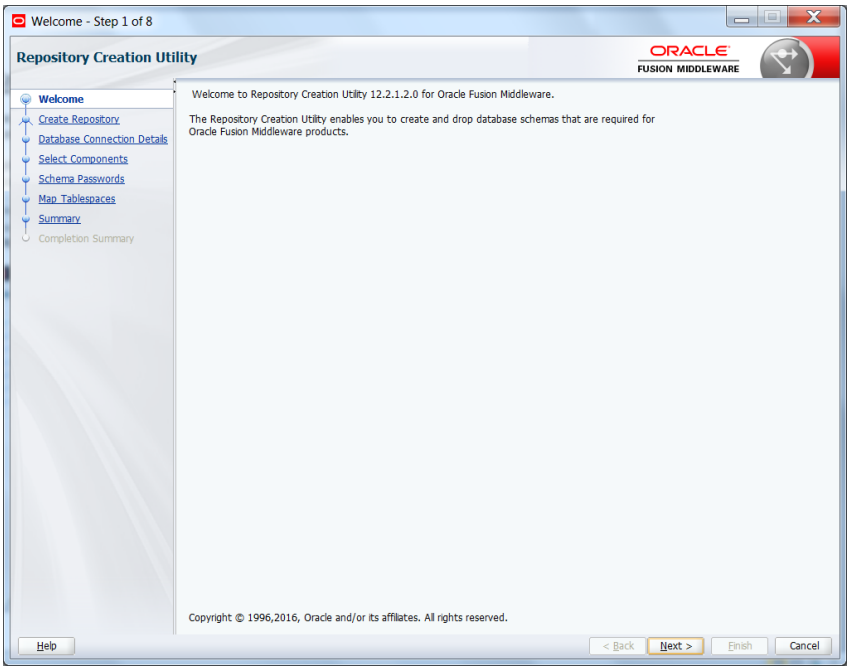
2.6 Creating product schemas in Oracle database

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.

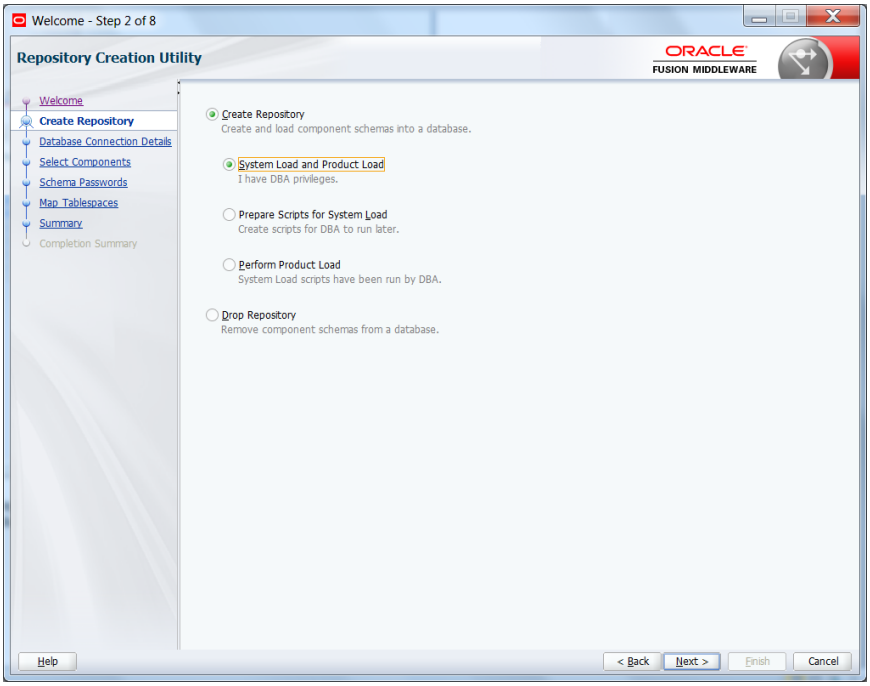
```
[oracle@wls12c-node1 fmwTemp1221]$ cd /scratch/app/fmwTemp1221/Oracle/Middleware/Oracle_Home/bin/
[oracle@wls12c-node1 bin]$ ./rcu
```

Step 1:



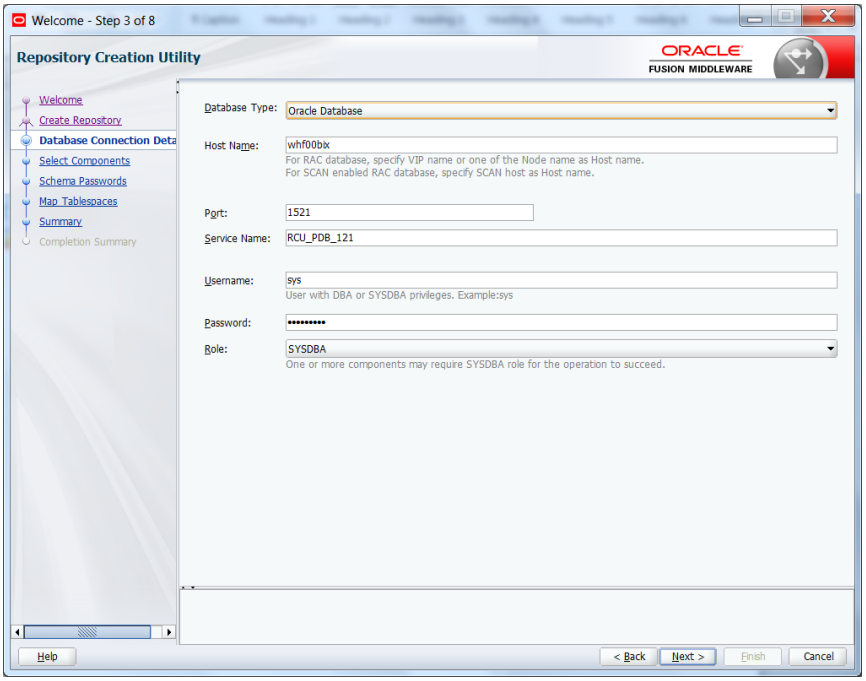
Step 2:

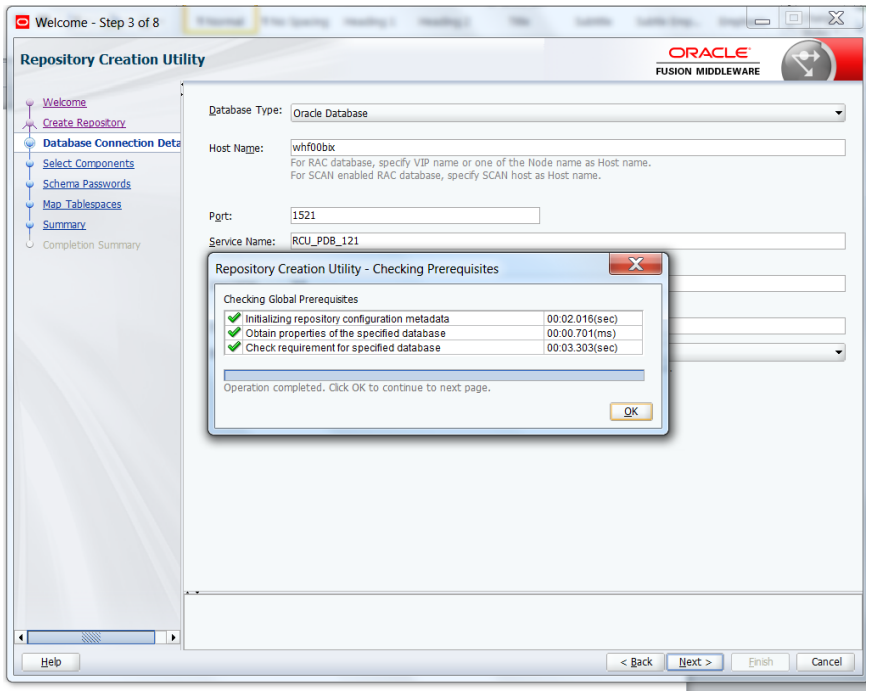
Select the option as System Load and Product Load and click on Next



Step 3:

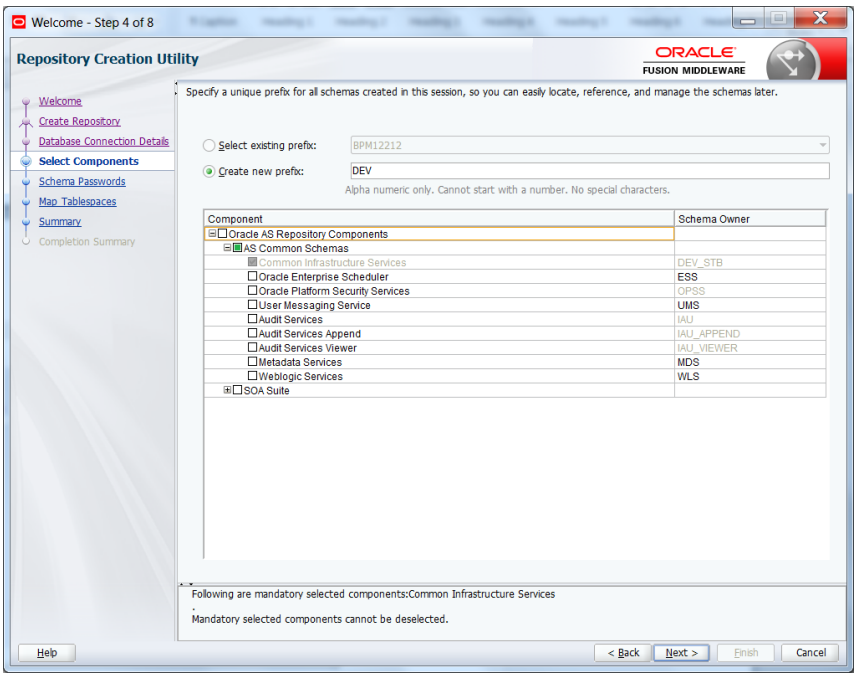
Define the host name port username and password for creating the RCU schemas in the database. The sys user required to create the rcu schemas.

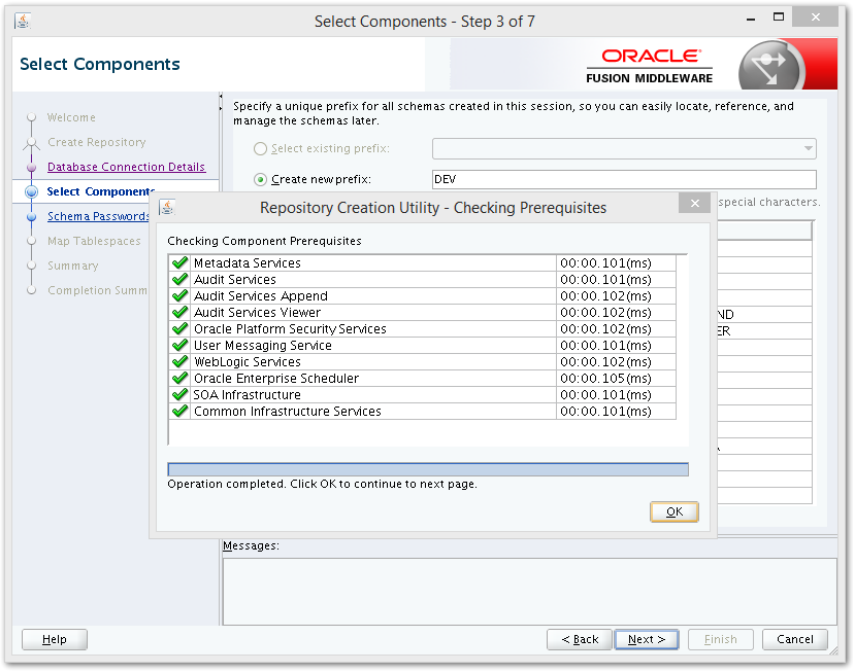




Step 4:

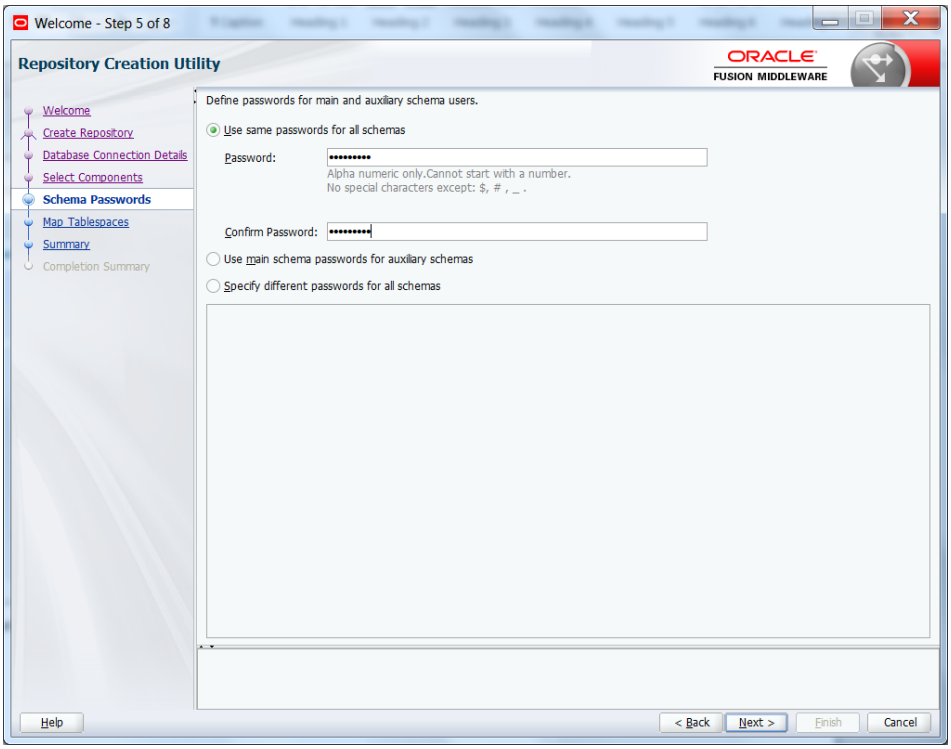
Define the prefix to be used for the schemas





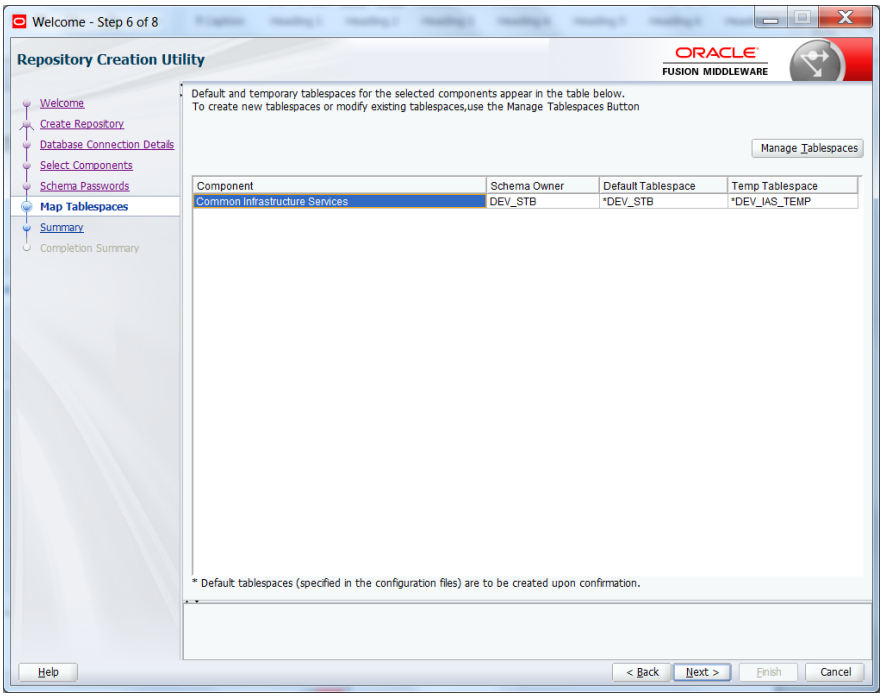
Step 5:

Define the password for the schemas.

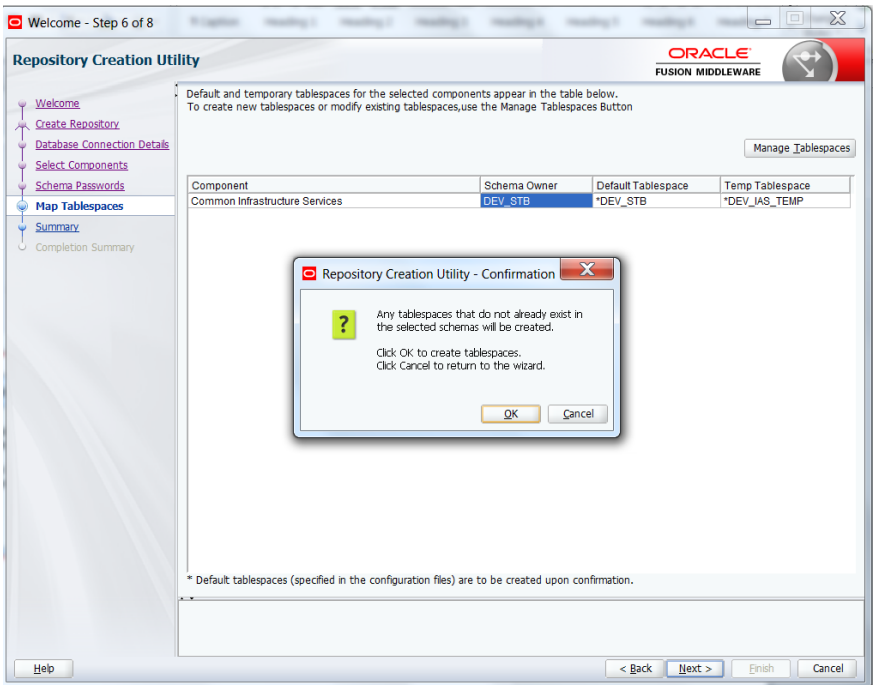


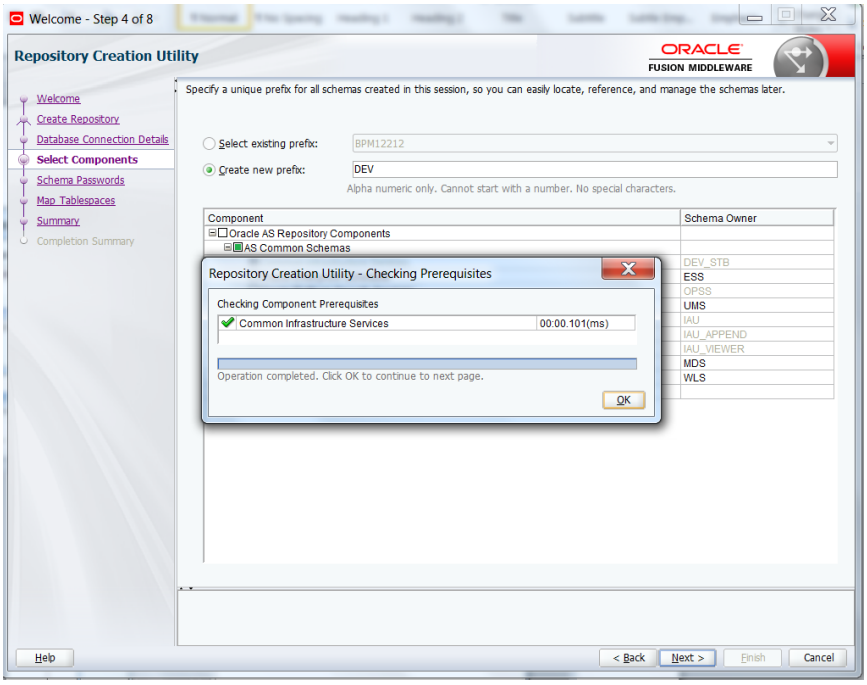
Note: It is important to remember the password or passwords that you enter during the process.

Step 6:

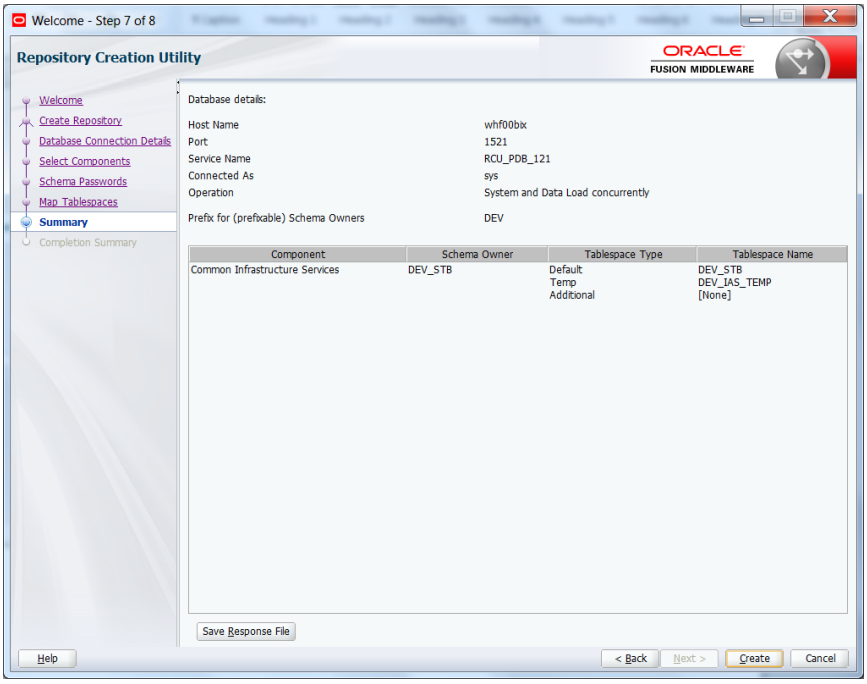

Welcome - Step 6 of 8
Repository Creation Utility
ORACLE
FUSION MIDDLEWARE
Welcome
Create Repository
Database Connection Details
Select Components
Schema Passwords
Map Tablespaces
Summary
Completion Summary
Default and temporary tablespaces for the selected components appear in the table below.
To create new tablespaces or modify existing tablespaces,use the Manage Tablespaces Button
Manage Tablespaces
Component
Schema Owner
Default Tablespace
Temp Tablespace
Common Infrastructure Services
DEV_STB
*DEV_STB
*DEV_IAS_TEMP
* Default tablespaces (specified in the configuration files) are to be created upon confirmation.
Help
< Back
Next >
Finish
Cancel

Step 7:


Welcome - Step 6 of 8
Repository Creation Utility
ORACLE
FUSION MIDDLEWARE
Welcome
Create Repository
Database Connection Details
Select Components
Schema Passwords
Map Tablespaces
Summary
Completion Summary
Default and temporary tablespaces for the selected components appear in the table below.
To create new tablespaces or modify existing tablespaces,use the Manage Tablespaces Button
Manage Tablespaces
Component
Schema Owner
Default Tablespace
Temp Tablespace
Common Infrastructure Services
DEV_STB
*DEV_STB
*DEV_IAS_TEMP
Repository Creation Utility - Confirmation
Any tablespaces that do not already exist in the selected schemas will be created.
Click OK to create tablespaces.
Click Cancel to return to the wizard.
OK
Cancel
* Default tablespaces (specified in the configuration files) are to be created upon confirmation.
Help
< Back
Next >
Finish
Cancel

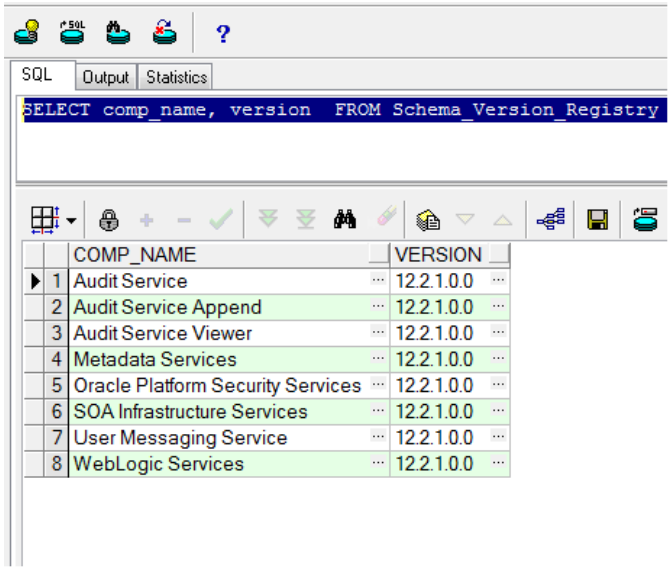

Welcome - Step 4 of 8
Repository Creation Utility
ORACLE
FUSION MIDDLEWARE
Welcome
Create Repository
Database Connection Details
Select Components
Schema Passwords
Map Tablespaces
Summary
Completion Summary
Specify a unique prefix for all schemas created in this session, so you can easily locate, reference, and manage the schemas later.
Select existing prefix:
BPM12212
Create new prefix:
DEV
Alpha numeric only. Cannot start with a number. No special characters.
Component
Schema Owner
Oracle AS Repository Components
AS Common Schemas
DEV_STB
ESS
OPSS
UMS
IAU
IAU_APPEND
IAU_VIEWER
MDS
WLS
Repository Creation Utility - Checking Prerequisites
Checking Component Prerequisites
Common Infrastructure Services
00:00.101(ms)
Operation completed. Click OK to continue to next page.
OK
Help
< Back
Next >
Finish
Cancel

Step 7:


Welcome - Step 7 of 8
Repository Creation Utility
ORACLE
FUSION MIDDLEWARE
Welcome
Create Repository
Database Connection Details
Select Components
Schema Passwords
Map Tablespaces
Summary
Completion Summary
Database details:
Host Name
whf00bix
Port
1521
Service Name
RCU_PDB_121
Connected As
sys
Operation
System and Data Load concurrently
Prefix for (prefixable) Schema Owners
DEV
Component
Schema Owner
Tablespace Type
Tablespace Name
Common Infrastructure Services
DEV_STB
Default
Temp
Additional
DEV_STB
DEV_IAS_TEMP
[None]
Save Response File
Help
< Back
Next >
Create
Cancel

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

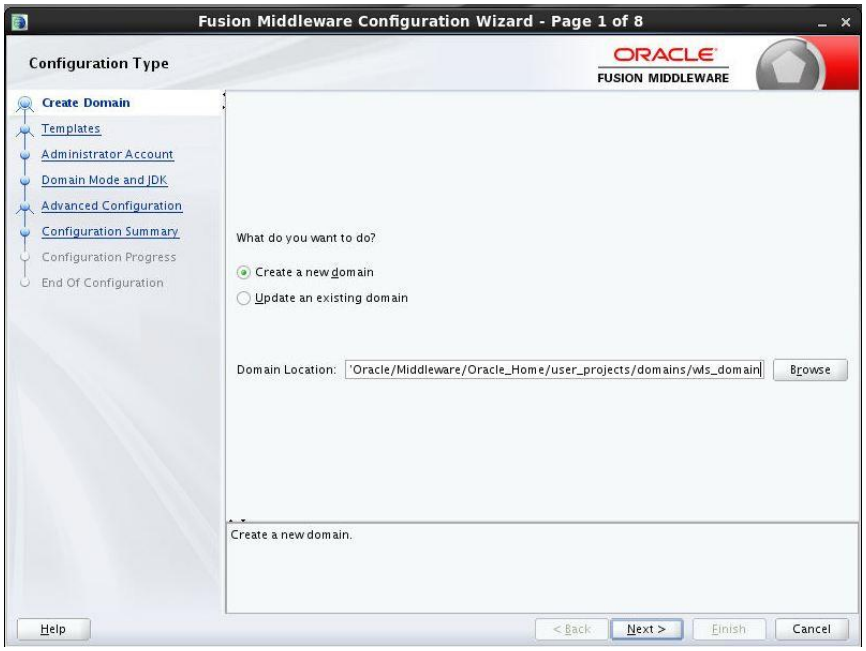
```
SQL> select comp_name, version from schema_version_registry;
```



	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:

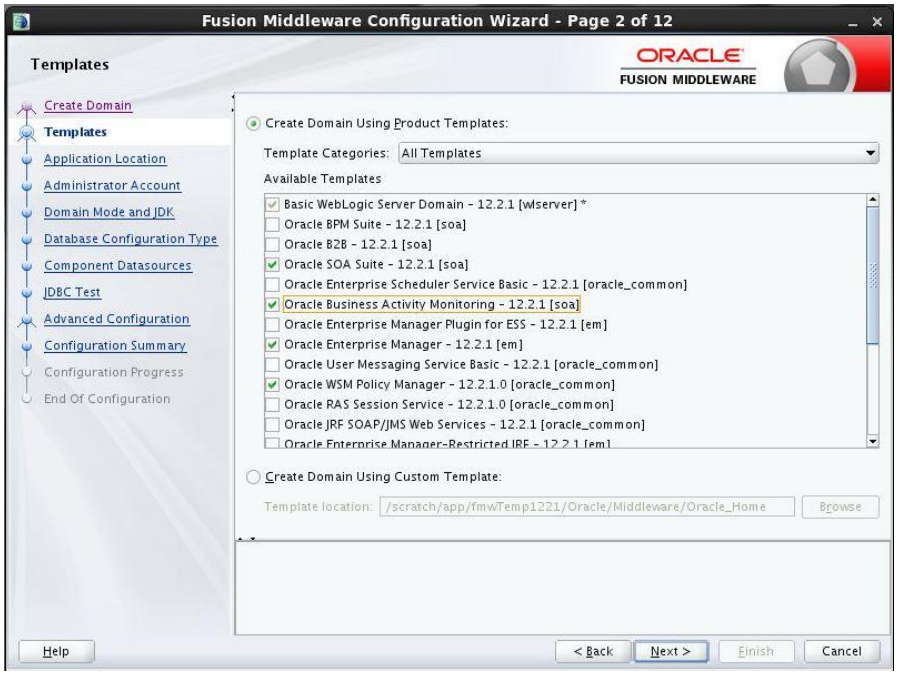


Step 2:

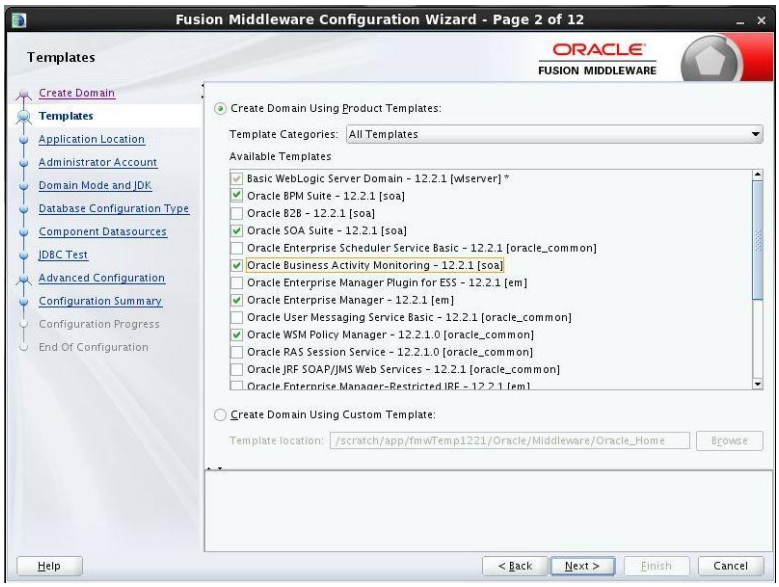
Domain creation template

For BPEL only domain

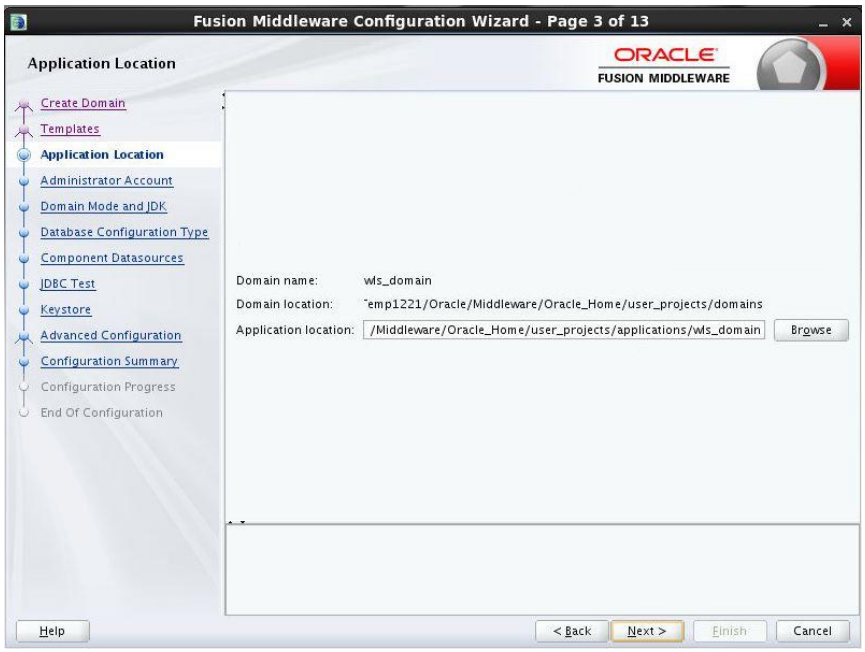
Based on the requirement select the Oracle Business Activity Monitoring (BAM) check box.



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

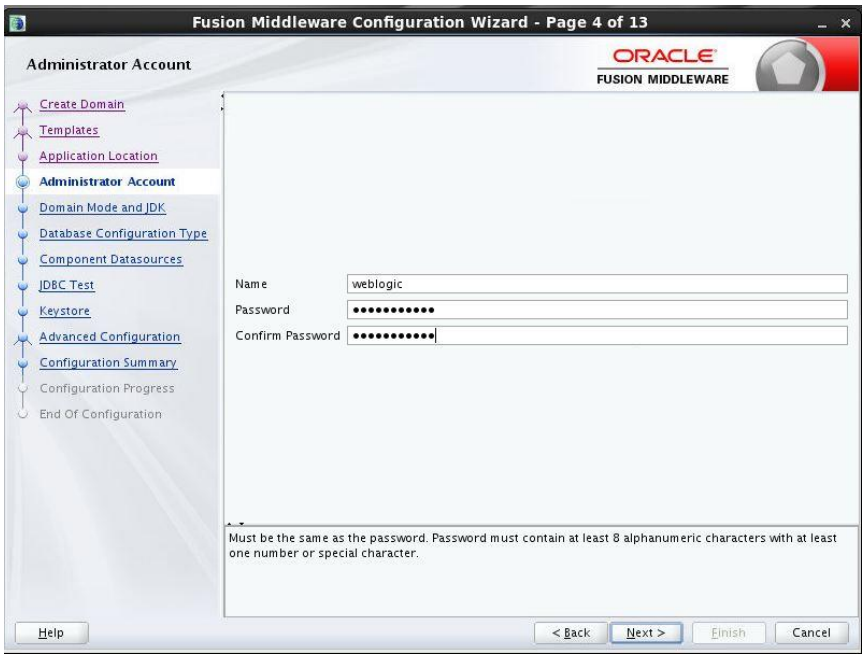

Fusion Middleware Configuration Wizard - Page 2 of 12
Templates
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Application Location
Administrator Account
Domain Mode and JDK
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration
Create Domain Using Product Templates:
Template Categories: All Templates
Available Templates
Basic WebLogic Server Domain - 12.2.1 [wlserver] *
Oracle BPM Suite - 12.2.1 [soa]
Oracle B2B - 12.2.1 [soa]
Oracle SOA Suite - 12.2.1 [soa]
Oracle Enterprise Scheduler Service Basic - 12.2.1 [oracle_common]
Oracle Business Activity Monitoring - 12.2.1 [soa]
Oracle Enterprise Manager Plugin for ESS - 12.2.1 [em]
Oracle Enterprise Manager - 12.2.1 [em]
Oracle User Messaging Service Basic - 12.2.1 [oracle_common]
Oracle WSM Policy Manager - 12.2.1.0 [oracle_common]
Oracle RAS Session Service - 12.2.1.0 [oracle_common]
Oracle JRF SOAP/JMS Web Services - 12.2.1 [oracle_common]
Create Domain Using Custom Template:
Template location: /scratch/app/fmwTemp1221/Oracle/Middleware/Oracle_Home
Browse
Help
< Back
Next >
Finish
Cancel

Step 3:



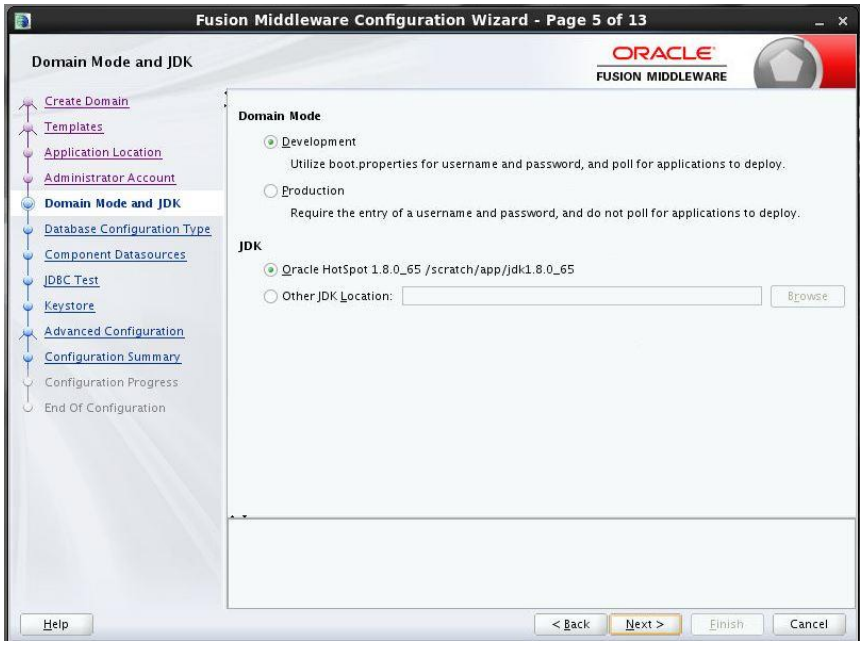
Step 4:

Defining the domain user name and password



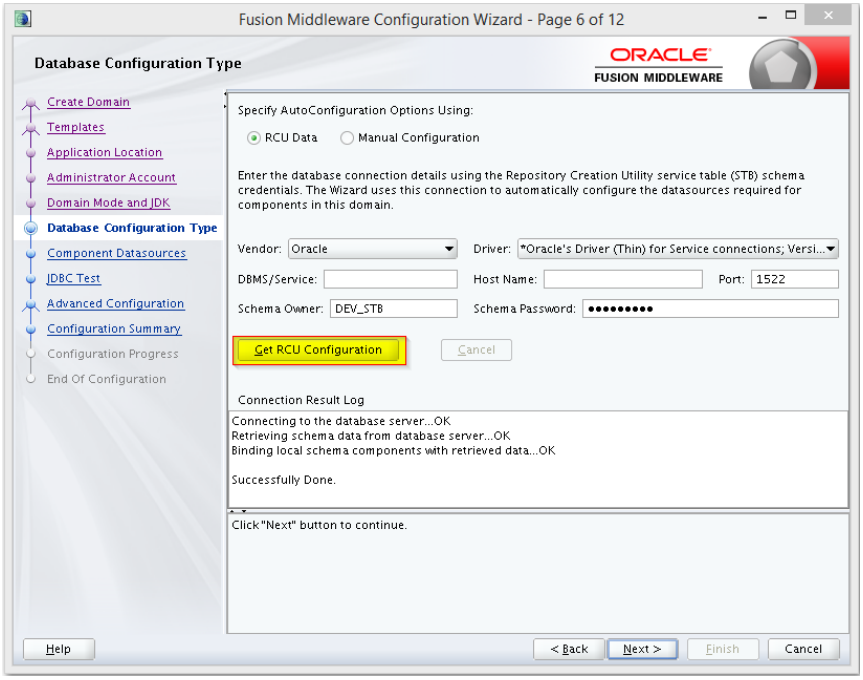
Step 5:

Domain mode needs to be production for all installations.

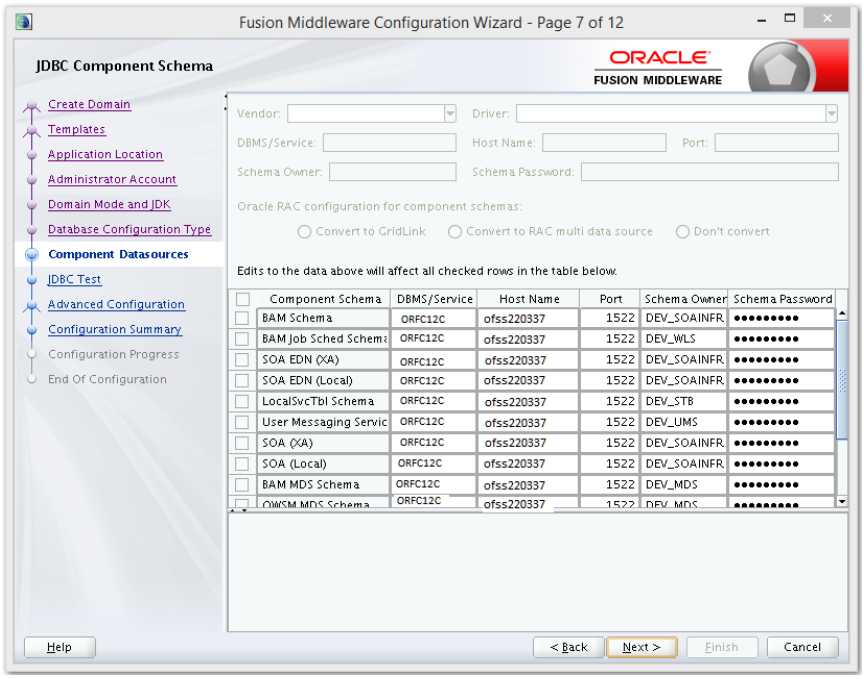


Step 6:

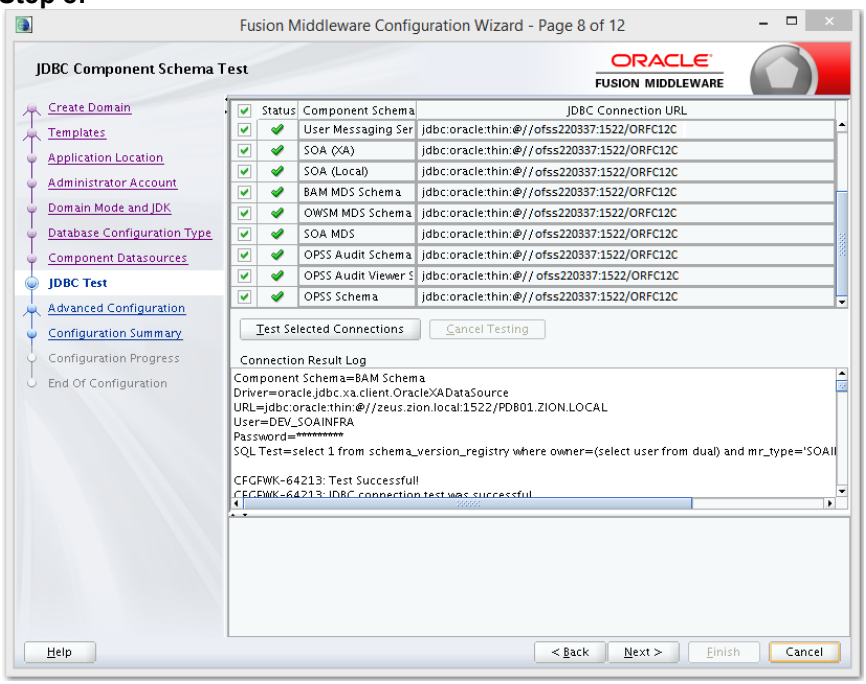
Define the RCU schema details and the TNS connection details



Step 7:

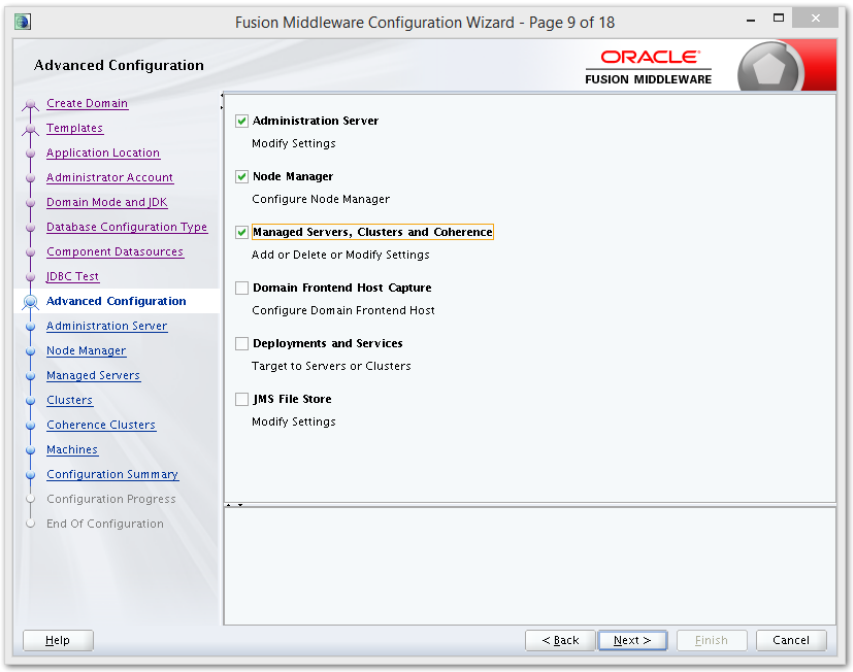

Fusion Middleware Configuration Wizard - Page 7 of 12
JDBC Component Schema
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Application Location
Administrator Account
Domain Mode and JDK
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration
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.
Component Schema
DBMS/Service
Host Name
Port
Schema Owner
Schema Password
BAM Schema
BAM Job Sched Schema
SOA EDN (XA)
SOA EDN (Local)
LocalSvcTbl Schema
User Messaging Servic
SOA (XA)
SOA (Local)
BAM MDS Schema
ORFC12C
ofss220337
1522
DEV_SOAINFR
DEV_WLS
DEV_STB
DEV_UMS
DEV_MDS
Help
< Back
Next >
Finish
Cancel

Step 8:


Fusion Middleware Configuration Wizard - Page 8 of 12
JDBC Component Schema Test
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Application Location
Administrator Account
Domain Mode and JDK
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration
Status
Component Schema
JDBC Connection URL
User Messaging Ser
SOA (XA)
SOA (Local)
BAM MDS Schema
OWSM MDS Schema
SOA MDS
OPSS Audit Schema
OPSS Audit Viewer S
OPSS Schema
jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
Test Selected Connections
Cancel Testing
Connection Result Log
Component Schema=BAM Schema
Driver=oracle.jdbc.xa.client.OracleXADataSource
URL=jdbc:oracle:thin:@//zeus.zion.local:1522/PDB01.ZION.LOCAL
User=DEV_SOAINFRA
Password=**********
SQL Test=select 1 from schema_version_registry where owner=(select user from dual) and mr_type='SOAI
CFGFWK-64213: Test Successful!
Help
< Back
Next >
Finish
Cancel

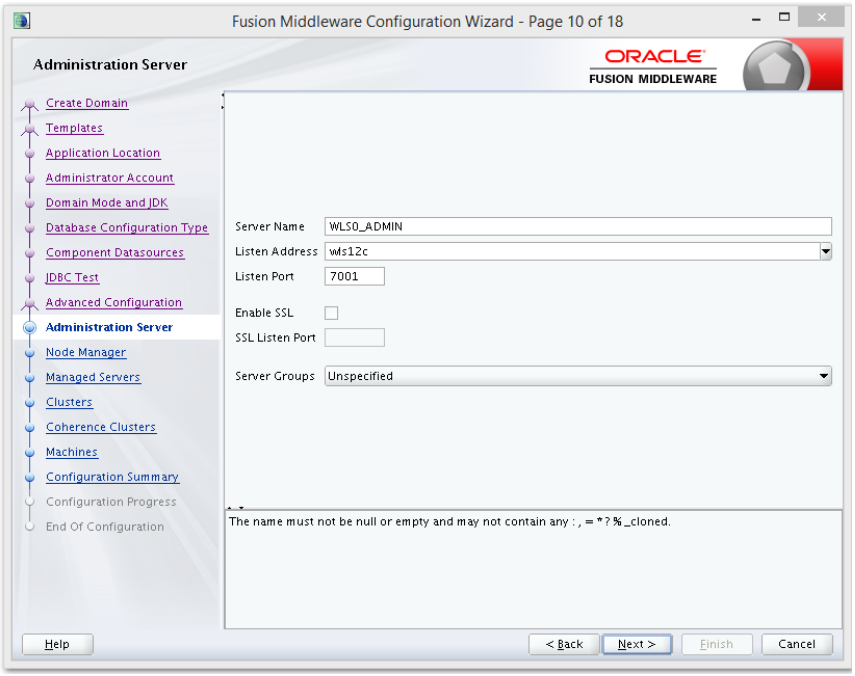
Step 9:

Select the admin server, node manager and managed servers.



Step 10:

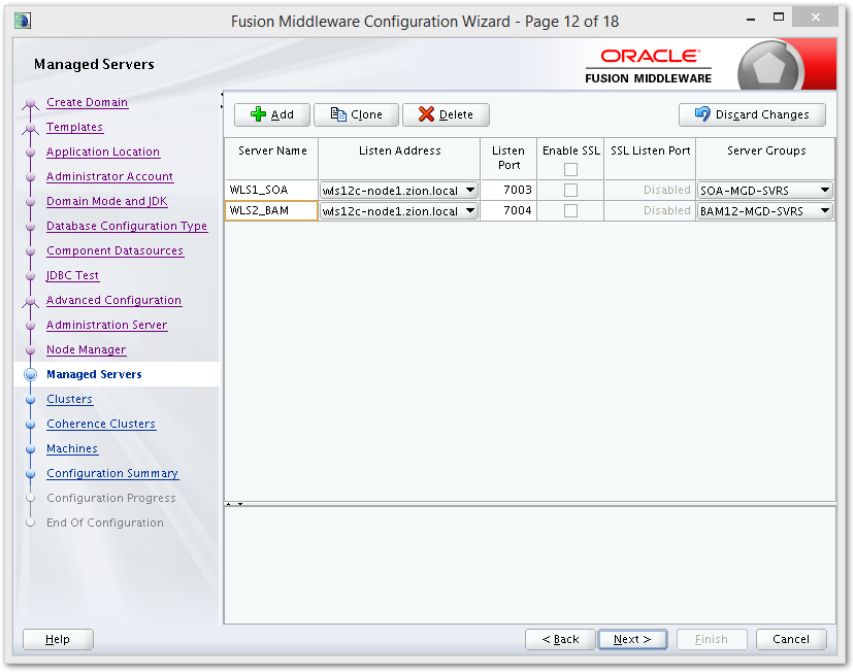
Specify the server name as AdminServer and listener address as hostname. Based on the installation requirement SSL need to be enabled.


Fusion Middleware Configuration Wizard - Page 10 of 18
Administration Server
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Application Location
Administrator Account
Domain Mode and JDK
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Administration Server
Node Manager
Managed Servers
Clusters
Coherence Clusters
Machines
Configuration Summary
Configuration Progress
End Of Configuration
Server Name
WLS0_ADMIN
Listen Address
wls12c
Listen Port
7001
Enable SSL
SSL Listen Port
Server Groups
Unspecified
The name must not be null or empty and may not contain any : , = * ? % _cloned.
Help
< Back
Next >
Finish
Cancel

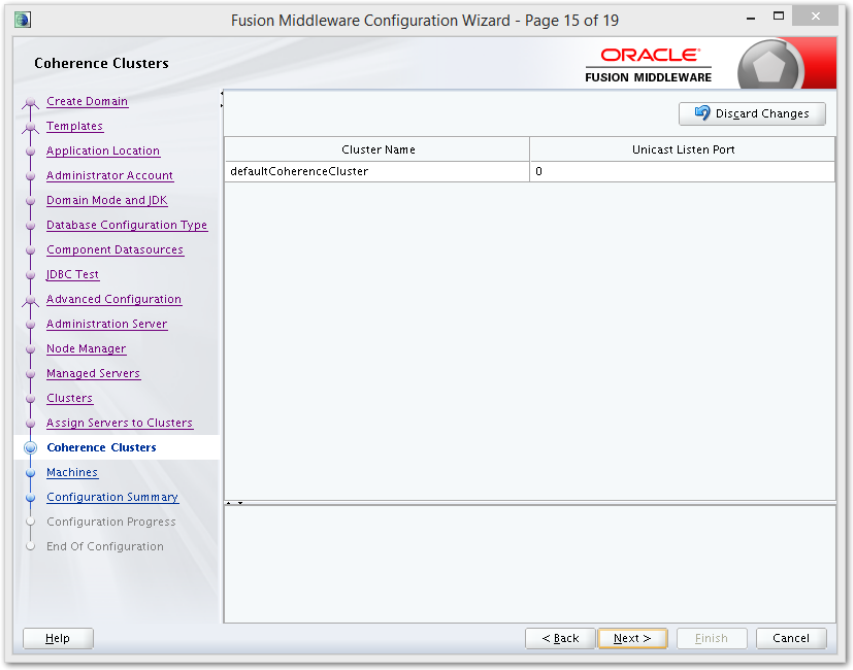
Step 11:

Specify the server name as soa_server1 and bam_server1 for the managed servers.

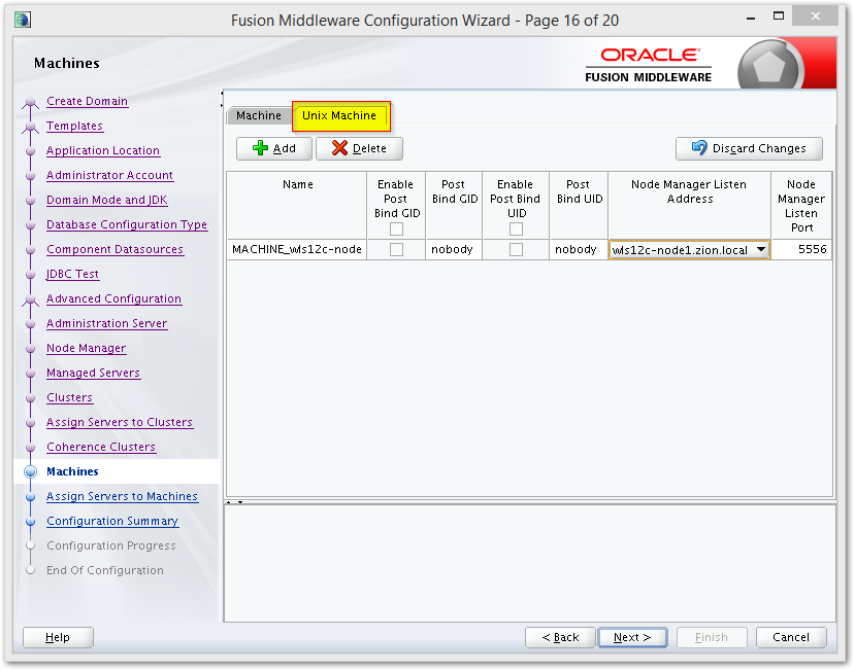
Based on the installation requirement SSL need to be enabled for managed servers



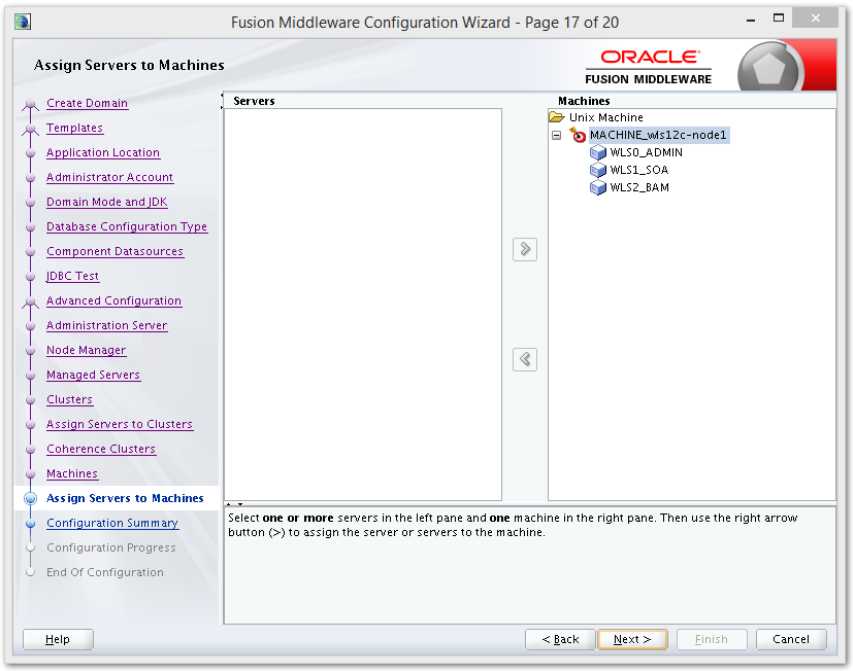
Step 12:


Fusion Middleware Configuration Wizard - Page 15 of 19
Coherence Clusters
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Application Location
Administrator Account
Domain Mode and JDK
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Administration Server
Node Manager
Managed Servers
Clusters
Assign Servers to Clusters
Coherence Clusters
Machines
Configuration Summary
Configuration Progress
End Of Configuration
Discard Changes
Cluster Name
Unicast Listen Port
defaultCoherenceCluster
0
Help
< Back
Next >
Finish
Cancel

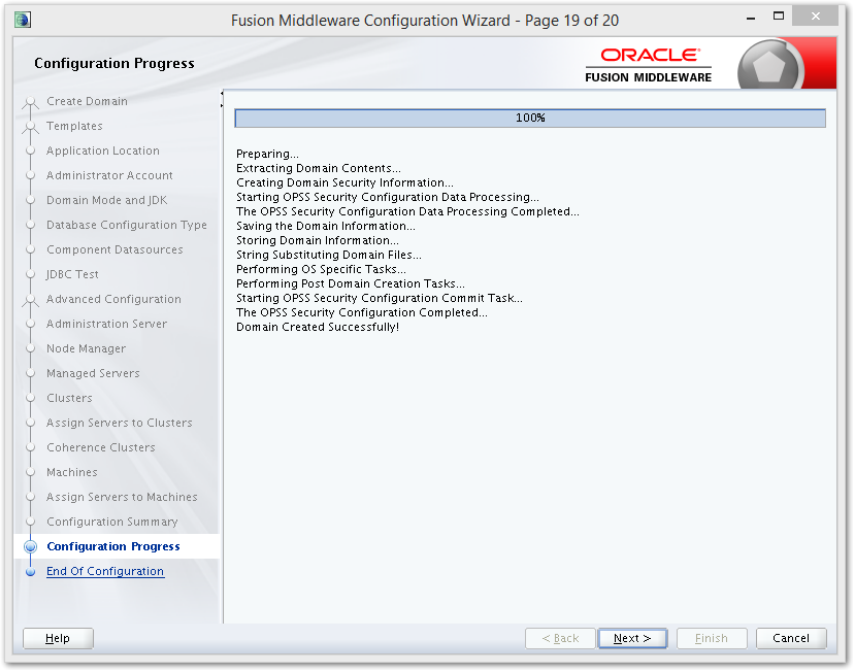
Step 13:

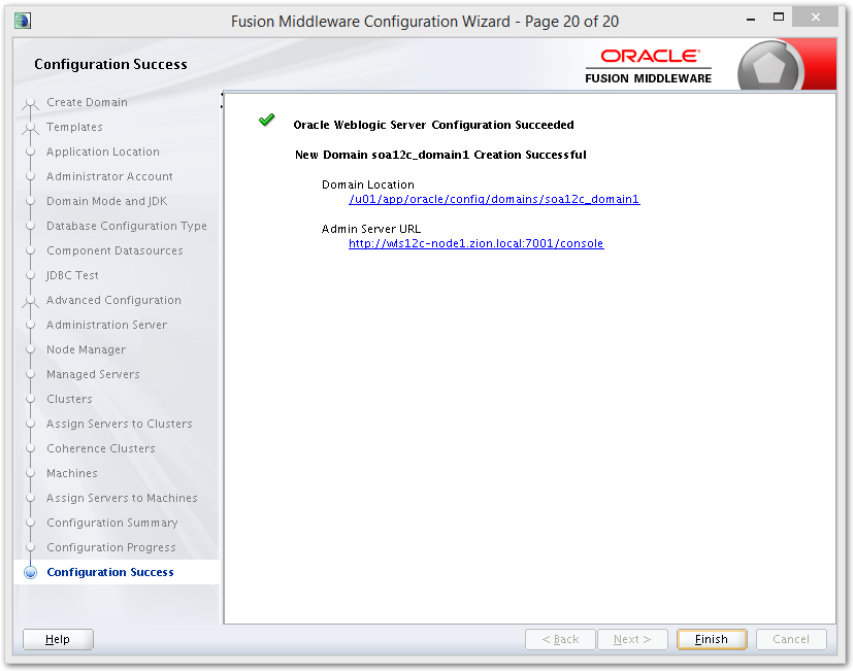


Step 14:



Step 15:


Fusion Middleware Configuration Wizard - Page 19 of 20
Configuration Progress
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Application Location
Administrator Account
Domain Mode and JDK
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Administration Server
Node Manager
Managed Servers
Clusters
Assign Servers to Clusters
Coherence Clusters
Machines
Assign Servers to Machines
Configuration Summary
Configuration Progress
End Of Configuration
100%
Preparing...
Extracting Domain Contents...
Creating Domain Security Information...
Starting OPSS Security Configuration Data Processing...
The OPSS Security Configuration Data Processing Completed...
Saving the Domain Information...
Storing Domain Information...
String Substituting Domain Files...
Performing OS Specific Tasks...
Performing Post Domain Creation Tasks...
Starting OPSS Security Configuration Commit Task...
The OPSS Security Configuration Completed...
Domain Created Successfully!
Help
< Back
Next >
Finish
Cancel


Fusion Middleware Configuration Wizard - Page 20 of 20
Configuration Success
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Application Location
Administrator Account
Domain Mode and JDK
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Administration Server
Node Manager
Managed Servers
Clusters
Assign Servers to Clusters
Coherence Clusters
Machines
Assign Servers to Machines
Configuration Summary
Configuration Progress
Configuration Success
Oracle Weblogic Server Configuration Succeeded
New Domain soa12c_domain1 Creation Successful
Domain Location
/u01/app/oracle/config/domains/soa12c_domain1
Admin Server URL
http://wls12c-node1.zion.local:7001/console
Help
< Back
Next >
Finish
Cancel

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

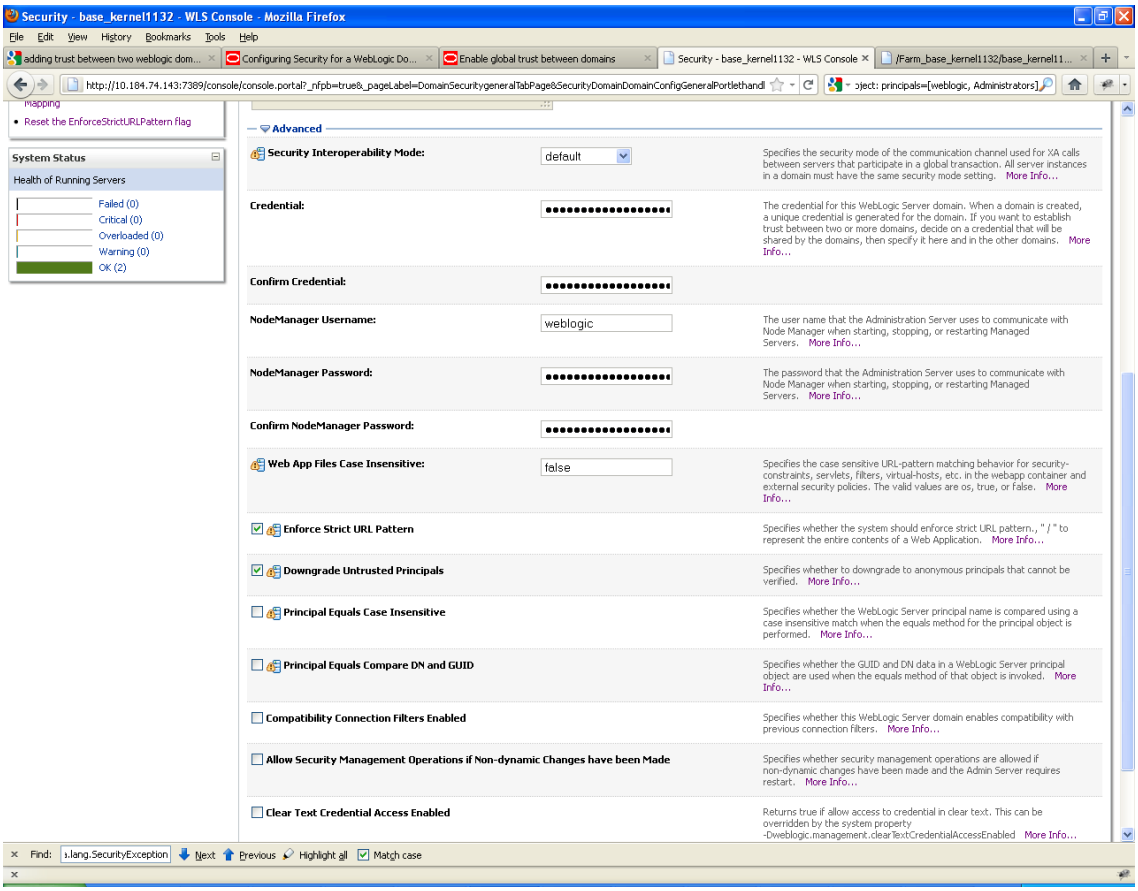
Jar to be copied	Path where the jar is available in SOA Middleware
bpm-services.jar	%Middleware Home%/soa/soa/modules/oracle.soa.workflow_11.1.1
fabric-runtime.jar	%Middleware Home%/soa/soa/modules/oracle.soa.fabric_11.1.1
tracking-fabric.jar	
tracking-api.jar	
jrf-api.jar	%Middleware Home%/oracle_common/modules/oracle.jrf
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

3. 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.
4. 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)
5. Configure domain password same as for both fcj ear domain and remote BPEL domain and DowngradeUntrusted Principals has to be checked


Security - base_kernel1132 - WLS Console - Mozilla Firefox
File Edit View History Bookmarks Tools Help
adding trust between two weblogic dom...
Configuring Security for a WebLogic Do...
Enable global trust between domains
Security - base_kernel1132 - WLS Console
/Farm_base_kernel1132/base_kernel11...
http://10.184.74.143:7389/console/console.portal?_nfpb=true&_pageLabel=DomainSecuritygeneralTabPage&SecurityDomainDomainConfigGeneralPortlethandl
oject: principals=[weblogic, Administrators]
Mapping
Reset the EnforceStrictURLPattern flag
System Status
Health of Running Servers
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (2)
Advanced
Security Interoperability Mode:
default
Specifies the security mode of the communication channel used for XA calls between servers that participate in a global transaction. All server instances in a domain must have the same security mode setting. More Info...
Credential:
The credential for this WebLogic Server domain. When a domain is created, a unique credential is generated for the domain. If you want to establish trust between two or more domains, decide on a credential that will be shared by the domains, then specify it here and in the other domains. More Info...
Confirm Credential:
NodeManager Username:
weblogic
The user name that the Administration Server uses to communicate with Node Manager when starting, stopping, or restarting Managed Servers. More Info...
NodeManager Password:
The password that the Administration Server uses to communicate with Node Manager when starting, stopping, or restarting Managed Servers. More Info...
Confirm NodeManager Password:
Web App Files Case Insensitive:
false
Specifies the case sensitive URL-pattern matching behavior for security-constraints, servlets, filters, virtual-hosts, etc. in the webapp container and external security policies. The valid values are os, true, or false. More Info...
Enforce Strict URL Pattern
Specifies whether the system should enforce strict URL pattern., " / " to represent the entire contents of a Web Application. More Info...
Downgrade Untrusted Principals
Specifies whether to downgrade to anonymous principals that cannot be verified. More Info...
Principal Equals Case Insensitive
Specifies whether the WebLogic Server principal name is compared using a case insensitive match when the equals method for the principal object is performed. More Info...
Principal Equals Compare DN and GUID
Specifies whether the GUID and DN data in a WebLogic Server principal object are used when the equals method of that object is invoked. More Info...
Compatibility Connection Filters Enabled
Specifies whether this WebLogic Server domain enables compatibility with previous connection filters. More Info...
Allow Security Management Operations if Non-dynamic Changes have been Made
Specifies whether security management operations are allowed if non-dynamic changes have been made and the Admin Server requires restart. More Info...
Clear Text Credential Access Enabled
Returns true if allow access to credential in clear text. This can be overridden by the system property -Dweblogic.management.clearTextCredentialAccessEnabled More Info...
Find: l.lang.SecurityException
Next
Previous
Highlight all
Match case

SOA Suite Setup for BPEL Process Flow
[February] [2018]
Version 14.0.0.0.0

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
https://www.oracle.com/industries/financial-services/index.html