SOA Suite Setup for BPEL Process Flow Oracle FLEXCUBE Investor Servicing Release 14.5.1.0.0 [September] [2021]



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## ORACLE

# 1. Preface

### 1.1 Background

This document provides an overview of configuring SOA suite for Oracle FLEXCUBE Investor Servicing 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 Oracle FLEXCUBE Investor Servicing.

#### 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
НА	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 12.2.1.2.0 (WebLogic Installation)

V78156-01.zip- Oracle Fusion Middleware 12c (12.2.1.2.0) Infrastructure

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

V78169-01.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

HP-UX Itanium
IBM AIX on POWER Systems (64-bit)
IBM z/OS on System z
IBM: Linux on System z
Linux x86-64
Microsoft Windows (32-bit)
Microsoft Windows x64 (64-bit)
Oracle Solaris on SPARC (32-bit)
Oracle Solaris on SPARC (64-bit)
Oracle Solaris on x86-64 (64-bit)
Select Cancel

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	

**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.

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Please select the option based on the requirement:

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Installation Location	Feature Sets Installed At Selected Oracle Home: View		
Installation Type			
Prerequisite Checks			
Installation Summary			
Installation Progress			
Installation Complete			
	Oracle Home may only contain alphanumeric, underscore (_ begin with an alphanumeric character.	.), hyphen (-) or dot(.) charac	ters and it must

Step 4: Select fusion middleware infrastructure

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Security Updates Installation Summary Installation Progress Installation Complete	<ul> <li>■ Core Application Server 12.2.1.0.0</li> <li>Core Application Server 12.2.1.0.0</li> <li>Web 2.0 HTTP Pub-Sub Server 12.2.1.0.0</li> <li>Web Logic SCA 12.2.1.0.0</li> <li>WebLogic Client Jars 12.2.1.0.0</li> <li>■ Administrative Tools</li> <li>Administrative Tools</li> <li>Administration Console Additional Language Help Files 12.2.1.0.0</li> <li>Clie WLS Config 12.2.1.0.0</li> <li>■ Database Support</li> <li>Thirdparty JD8C Drivers 12.2.1.0.0</li> <li>■ Open Source Components</li> <li>Fusion Middleware Mayner Support 12.2.1.0.0</li> <li>■ JRF and Enterprise Manager</li> <li>WLS for FHW 12.2.1.0.0</li> <li>■ Oracle Automatic Diagnostic Repository Feature Set Group</li> </ul>	****
	FRW Platform Generic 12.2.1.0.0 OPatch 13.3.0.0.0	•
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curity Updates		
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Help		< Back Next > Finish Can

Step 6: Optional based on installation requirement





Step 8:

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	Performing String Substitutions
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	Post install scripts Post install scripts View Messages View Messages View Log
Help	Hardware and Software Engineered to Work Together

Step 9:

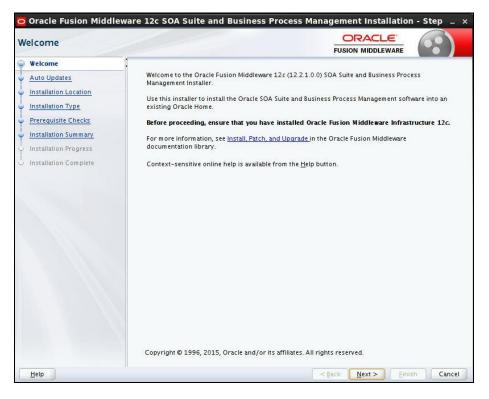
stallation Complete				
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Installation Location	Log File Location: /tmp/Oralnstall2016-03-29_05-08-24PM/install2016-03-29_05-08-24P M.log			
	Feature Sets Installed Successfully			
Prerequisite Checks	Fusion Middleware Maven Support 12.2.1.0.0			
Security Updates	Administration Console Additional Language Help Files 12.2.1.0.0			
	CIE WLS Config 12.2.1.0.0			
Installation Summary	Enterprise manager 12.2.1.0.0			
Installation Progress	Thirdparty JDBC Drivers 12.2.1.0.0			
Installation Complete	WLS for FMW 12.2.1.0.0			
instantion complete	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			
	Next Steps:			
	See the online help for next steps after installation.			
	Oracle Fusion Middleware 12c Infrastructure installation completed successfully			

## 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:

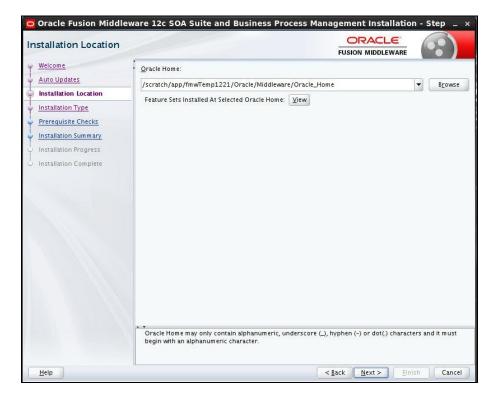
Option need to be selected based on the requirement:

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

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	Search	
Help		< <u>Back</u> Next > Finish Car

Please select the below option based on the requirement:

Step 3:



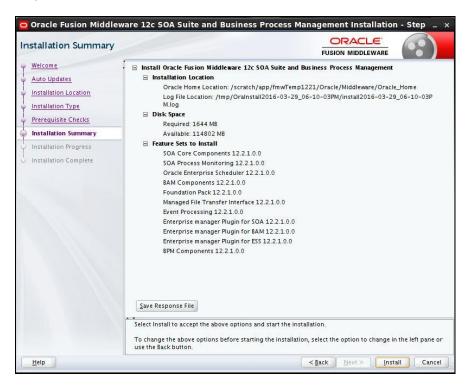
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Step 6:





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	Post install scripts
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Help	< <u>Back</u> Next> Einish Cancel

Step 8:



## 2.6 Creating Product Schemas in Oracle Database

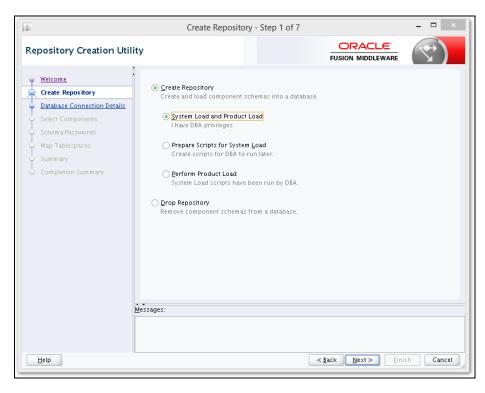
The Repository Creation Utility (RCU) is the tool used to create schemas in a database. This tool is available once we've installed the Oracle Fusion Middleware Infrastructure software (Point 2).

Refer to <u>Oracle Fusion Middleware Creating Schemas with the Repository Creation Utility</u> 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:

0	Welcome - Step 1 of 8 _ X
Welcome	
Verconne     Verconne     Create Repository     Database Connection Details     Select Components     Schema Passwords     Map Tablespaces     Summary     Completion Summary	Welcome to Repository Creation Utility 12.2.1.0.0 for Oracle Fusion Middleware.         The Repository Creation Utility enables you to create and drop database schemas that are required for Oracle Fusion Middleware products.
Help	Copyright © 1996,2015, Oracle and/or its affiliates. All rights reserved.



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.

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<ul> <li>Welcome</li> <li>Create Repository</li> <li>Database Connection Deta</li> <li>Schema Password;</li> <li>Map Tablespaces</li> <li>Summary</li> <li>Completion Summ</li> <li>Y</li> </ul>	Specify a unique prefix for all s manage the schemas later. © Select existing prefix: © Create new prefix: Repository Creation I Sting Component Prerequisites Metadata Services Audit Services Append Audit Services Append Audit Services Viewer Oracle Platform Security Services WebLogic Services Oracle Enterprise Scheduler SoA Infrastructure	cchemas created in this	OCOLO         FUSION MIDE           session, so you can easi            rerequisites            00:00.101(ms)            00:00.102(ms)            00:00.105(ms)	DEWARE
<ul> <li>Welcome</li> <li>Create Repository</li> <li>Database Connection Deta</li> <li>Select Component</li> <li>Schema Password</li> <li>Map Tablespaces</li> <li>Summary</li> <li>Completion Summ</li> </ul>	Specify a unique prefix for all s manage the schemas later. © Select existing prefix: © Create new prefix: Repository Creation I Sting Component Prerequisites Metadata Services Audit Services Append Audit Services Append Audit Services Viewer Oracle Platform Security Services WebLogic Services Oracle Enterprise Scheduler SoA Infrastructure	DEV Utility - Checking P	OCOLO         FUSION MIDE           session, so you can easi            rerequisites            00:00.101(ms)            00:00.102(ms)            00:00.105(ms)	DEWARE
<ul> <li>Welcome</li> <li>Create Repository</li> <li>Database Connection Deta</li> <li>Select Component</li> <li>Schema Password</li> <li>Map Tablespaces</li> <li>Summary</li> <li>Completion Summ</li> </ul>	Specify a unique prefix for all s manage the schemas later. Select existing prefix: Create new prefix: Repository Creation I King Component Prerequisites Metadata Services Audit Services Append Audit Services Append Audit Services Append Audit Services Sepend Audit Services Sepend Audit Services Sepend Cracle Platform Security Services User Messaging Service WebLogic Services Oracle Enterprise Scheduler SoA Infrastructure Common Infrastructure Services	DEV Utility - Checking P	OCOLO         FUSION MIDE           session, so you can easi            rerequisites            00:00.101(ms)            00:00.102(ms)            00:00.105(ms)	-      -
Create Repository  Database Connection Deta Select Component  Schema Password  Map Tablespaces Summary Completion Summ	Specify a unique prefix for all s manage the schemas later. Select existing prefix: Create new prefix: Repository Creation I King Component Prerequisites Metadata Services Audit Services Append Audit Services Append Audit Services Append Audit Services Sepend Audit Services Sepend Audit Services Sepend Cracle Platform Security Services User Messaging Service WebLogic Services Oracle Enterprise Scheduler SoA Infrastructure Common Infrastructure Services	DEV Utility - Checking P	OCOLO         FUSION MIDE           session, so you can easi            rerequisites            00:00.101(ms)            00:00.102(ms)            00:00.105(ms)	DEWARE
<ul> <li>Welcome</li> <li>Create Repository</li> <li>Database Connection Deta</li> <li>Select Component</li> <li>Schema Password</li> <li>Map Tablespaces</li> <li>Summary</li> <li>Completion Summ</li> </ul>	Specify a unique prefix for all s manage the schemas later. Select existing prefix: Create new prefix: Repository Creation I King Component Prerequisites Metadata Services Audit Services Append Audit Services Append Audit Services Append Audit Services Sepend Audit Services Sepend Audit Services Sepend Cracle Platform Security Services User Messaging Service WebLogic Services Oracle Enterprise Scheduler SoA Infrastructure Common Infrastructure Services	DEV Utility - Checking P	OCOLO         FUSION MIDE           session, so you can easi            rerequisites            00:00.101(ms)            00:00.102(ms)            00:00.105(ms)	-      -
<ul> <li>Welcome</li> <li>Create Repository</li> <li>Database Connection Deta</li> <li>Select Component</li> <li>Schem a Passwordi</li> <li>Map Tablespaces</li> <li>Summary</li> <li>Completion Summ</li> <li>Y</li> </ul>	Specify a unique prefix for all s manage the schemas later. Select existing prefix: © Create newprefix: Repository Creation I Ching Component Prerequisites Metadata Services Audit Services Append Audit Services Append Audit Services Viewer Oracle Platform Security Services User Messaging Service WebLogic Services Oracle Enterprise Scheduler SOA Infrastructure Common Infrastructure Services	DEV Utility - Checking P	OCOLO         FUSION MIDE           session, so you can easi            rerequisites            00:00.101(ms)            00:00.102(ms)            00:00.105(ms)	-      -

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

Step 4: Define the password for the schemas.

4	Schem	na Passwords - Step 4 of 8		- 🗆 🗡
Repository Creation Util	ity			$\checkmark$
<ul> <li>Welcome</li> <li>Create Repository</li> <li>Database Connection Details</li> <li>Select Components</li> <li>Schema Passwords</li> <li>Custom Variables</li> <li>Map Tablespaces</li> <li>Summary</li> <li>Completion Summary</li> </ul>	Use same password     Password: <u>C</u> onfirm Password:     Use <u>m</u> ain schema p	Alpha numeric only.Cannot start No special characters except: \$, ;		
Help			< <u>B</u> ack <u>N</u> ext > <u>F</u> ini	sh Cancel

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

K		Custom	Variables - Step 5 of 8		_ □ >
Repositor	y Creation Util	ity	i		)</th
Q Welcome		<ul> <li>Enter value for the followi</li> </ul>	ng custom variables.		
↓ ♀ Create Rep	pository	Component	Custom Variable	١	/alue
) O Database (	Connection Details	SOA Infrastructure	Database Profile (SMALL/MED/LAF		
Select Con			Healthcare Integration(YES/NO)	NO	
Schema Pa					
Custom V	/ariables				
Map Table	spaces				
Summary					
) O Completio	on Summary				
		Messages:			
Help			< <u>B</u> au	:k <u>N</u> ext > Eir	nish Cancel

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

#### Step 6:

epository Creation Ut	ility				
)Welcome ∠ Create Repository			ed components appear in th lespaces,use the 'Manage T		
<ul> <li>Database Connection Details</li> <li>Select Components</li> </ul>	Component	Schema Owner	Default Tablespace	Temp Tablespace	
	Metadata Services	DEV_MDS	*DEV_MDS	*DEV_IAS_TEMP	
) Schema Passwords	Audit Services	DEV IAU	*DEV IAS IAU	*DEV IAS TEMP	
Custom Variables	Audit Services Append		*DEV_IAS_IAU	*DEV_IAS_TEMP	
	Audit Services Viewer	DEV_IAU_VIEWER	*DEV_IAS_IAU	*DEV_IAS_TEMP	
Map Tablespaces	Oracle Platform Secu	DEV_OPSS	*DEV_IAS_OPSS	*DEV_IAS_TEMP	
Summary	User Messaging Service		*DEV IAS UMS	*DEV_IAS_TEMP	
	WebLogic Services	DEV_WLS	*DEV_WLS	*DEV IAS TEMP	
Completion Summary	Oracle Enterprise Sch	DEV_ESS	*DEV_ESS	*DEV_IAS_TEMP	
	SOA Infrastructure	DEV_SOAINFRA	*DEV_SOAINFRA	*DEV_IAS_TEMP	
	Common Infrastructu	DEV_STB	*DEV_STB	*DEV_IAS_TEMP	
	* Default tablespaces (spe	ified in the configurat	ion files) are to be created u	pon confirmation.	
	* Default tablespaces (specified in the configuration files) are to be created upon confirmation. *** Messages:				

<u>\$</u> .		Map Tab	lespaces - Step 6	of 8	- 🗆 🛛
Rep	oository Creation Util	ity			
	Welcome Create Repository Database Connection Details Select Components			ed components appear in th lespaces,use the 'Manage T Default Tablespace	
		Metadata Services	DEV MDS	*DEV_MDS	*DEV_IAS_TEMP
Ý	Schema Passwords	Audit Services	DEV IAU	*DEV_IAS_IAU	*DEV_IAS_TEMP
6	Custom Variables	Audit Services Append	DEV_IAU_APPEND	*DEV_IAS_IAU	*DEV_IAS_TEMP
		Audit Services Append	DEV TALL VIEWED		*DEV LAS TEMP
0	Map Tablespaces		Repository Creation	on Utility - Confirmatio	n ×
			created. ck OK to create tablesp ck Cancel to return to t	ihe wizard.	JK <u>C</u> ancel
		* Default tablespaces (spec	ified in the configurati	ion files) are to be created u	pon confirmation.
!	Help			< <u>B</u> ack <u>N</u> ext	> Einish Cancel

<b>S</b>	Map Tal	olespaces - Step 6	of 8	- 🗆 ×
Repository Creation U	tility			
Welcome     Create Repository     Database Connection Details     Select Components     Schema Passwords     Custom Variables	Default and temporary tab To create newtablespaces Component Metadata Services Audit Services Audit Services Append	or modify existing ta Schema Owner DEV_MDS DEV_IAU		
	Repository Creat ing and Creating Tablespaces heck tablespace requirement reate tablespaces in the repo ion completed. Click OK to com	sitory database		
	* Default tablespaces (spe Messages:	cified in the configura	tion files) are to be created	d upon confirmation.
Help			< <u>B</u> ack No	ext > Einish Cancel

Step 7:

	Completion Summ	ary - Step 8 of	8	- 🗆 🗡	
epository Creation Util	ity				
Welcome		ion.local			
C Database Connection Details	Port: 1522 Service Name: PDB01	ZION.LOCAL			
Select Components	Connected As: sys				
		and Data Load co	ncurrently 2014-07-17_22-48/rci	ulaa	
) Schema Passwords	Component Log Directory: /u01/a			ullog	
) Custom Variables		utes 55 seconds			
) Map Tablespaces	ViewLog: rcu.	log			
Summary	Prefix for (prefixable) Schema Owne	rs:DEV			
Completion Summary	Component	Status	Time	Logfile(Click to view)	
	Metadata Services	Success	00:11.435(sec)	mds.log	
	Audit Services	Success	00:11.217(sec)	iau.log	
	Audit Services Append	Success	00:09.193(sec)	iau_append.log	
	Audit Services Viewer	Success	00:09.148(sec)	iau_viewer.log	
	Oracle Platform Security Services	Success	00:15.581(sec)	opss.log	
	User Messaging Service	Success	00:13.453(sec)	ucsums.log	
	WebLogic Services	Success	00:10.039(sec)	wis.log	
	Oracle Enterprise Scheduler	Success	00:13.767(sec)	ess.log	
	SOA Infrastructure	Success	00:59.186(sec)	soainfra.log	
	Common Infrastructure Services	Success	00:09.259(sec)	stb.log	

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

SQL> select comp\_name, version from schema\_version\_registry;

		" <b>" "</b> "							
SQ	L	Output Statistics							
SE	LE	CT comp_name, version FRO	M	Sche	ma_\	/ers	ion_	Regis	stry
				a 1			1	1	1
Ħ	ŧ.	• 🔒 + - 🗸 🔻 🖄		A 1	$\sim$	$\bigtriangleup$	-48		5
		COMP_NAME		VER	SION			1	
▶	1	Audit Service		12.2.1	1.0.0				
_	2	Audit Service Append		12.2.1	1.0.0				
-	3	Audit Service Viewer		12.2.1	1.0.0				
	4	Metadata Services		12.2.1	0.0.1				
_		Oracle Platform Security Services		12.2.1	1.0.0				
	5	oracle r lationin becunity bervices							
	-	SOA Infrastructure Services		12.2.1	0.0.1				
	-			12.2.1 12.2.1		•••			
	6 7	SOA Infrastructure Services	···		1.0.0				

## 2.7 <u>WebLogic Server Domain Configuration</u>

Step 1:

E Fu	usion Middleware Configuration Wizard - Page 1 of 8	. ×
Configuration Type		
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	What do you want to do?         Image: Create a new domain         Update an existing domain         Domain Location: 'Oracle/Middleware/Oracle_Home/user_projects/domains/wis_domain]         Brows         Create a new domain.	e
Help	< <u>B</u> ack Next > Einish Cance	:

#### Step 2: Domain creation template

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

🗃 Fusi	ion Middleware Configuration Wizard - Page 2 of 12 ×
Templates	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Progress End Of Configuration	Oracle Bomain Using Product Templates:   Template Categories: All Templates   Available Templates   Basic WebLogic Server Domain - 12.2.1 [wserver]* Oracle BPM Suite - 12.2.1 [soa] Oracle BRM Suite - 12.2.1 [soa] Oracle Enterprise Scheduler Service Basic - 12.2.1 [oracle_common] Oracle Enterprise Scheduler Service Basic - 12.2.1 [soa] Oracle User Messaging Service Basic - 12.2.1 [soa] Oracle User Messaging Service Basic - 12.2.1 [cm] Oracle USM Policy Manager - 12.2.1.0 [oracle_common] Oracle RAS Session Service - 12.2.1.0 [oracle_common] Oracle FN SOAP/IMS Web Services - 12.2.1 [oracle_common] Oracle FN SOAP/IMS Web Services - 12.2.1 [cmale_common] Oracle Enterprise Manager-Restricted IRE - 12.2.1 [smal Create Domain Using Custom Template: Template location: [scratch/app/fmwTemp1221/Oracle/Middleware/Oracle_Home Browse
Help	< <u>Back</u> Next> Einish Cancel

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

Templates	ion Middleware Configuration Wizard - Page 2 of 12 > CRACLE FUSION MIDDLEWARE
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources IDBC 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 [wserver]*   Oracle BPM Suite - 12.2.1 [soa] Oracle B2B - 12.2.1 [soa] Oracle E2B - 12.2.1 [soa] Oracle Eaterprise Scheduler Service Basic - 12.2.1 [oracle_common] Oracle Enterprise Manager Plugin for E5S - 12.2.1 [em] Oracle Enterprise Manager - 12.2.1 [cm] Oracle Enterprise Manager - 12.2.1 [oracle_common] Oracle Enterprise Manager - 12.2.1 [oracle_common] Oracle Enterprise Manager - 12.2.1 [oracle_common] Oracle RAS Session Service - 12.2.1 [oracle_common] Oracle RAS Session Service - 12.2.1 [oracle_common] Oracle RAS Session Services - 12.2.1 [oracle_common] Oracle RAS Session Service RAS Reservices - 12.2.1 [oracle_common] Oracle RAS Session S
Help	< <u>Back</u> <u>Next</u> > <u>Einish</u> Cancel

#### Step 3:

🛐 Fus	ion Middleware (	Configuration Wizard - F	Page 3 of 13	_ × _
Application Location				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain name: Domain location: Application location:		racle_Home/user_projects/domains r_projects/applications/wls_domain	
Help	1		< <u>B</u> ack <u>N</u> ext > <u>E</u> inish	Cancel

Step 4: Defining the domain user name and password

🚺 Fus	ion Middleware	Configuration Wizard - Page	e 4 of 13	X
Administrator Account				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources IDEC Test Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as one number or spec	the password. Password must contain at	least 8 alphanumeric charad	ters with at least
Help	8 	< <u>B</u> ac	ck <u>N</u> ext > <u>F</u> inisl	Cancel

🛐 Fus	ion Middleware Configuration Wizard - Page 5 of 13
Domain Mode and JDK	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources IDBC Test Keystore Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode <ul> <li> <u>D</u>evelopment             Utilize boot.properties for username and password, and poll for applications to deploy. <u>P</u>roduction             Require the entry of a username and password, and do not poll for applications to deploy. <u>JDK</u> </li></ul> <li> <u>O</u> racle HotSpot 1.8.0_65 /scratch/app/jdk1.8.0_65 Other JDK Location: <u>Browse</u> </li>
Help	< Back Next > Einish Cancel

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

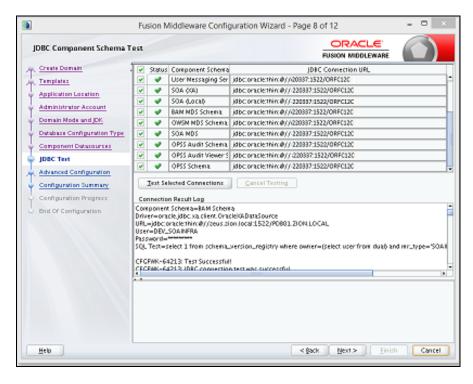
Database Configuration	Type ORACLE FUSION MIDDLEWARE
Create Domain Templates Application Location Administrator Account Domain Mode and JDK	Specify AutoConfiguration Options Using: <ul> <li>RCU Data</li></ul>
<ul> <li>Database Configuration Typ</li> <li><u>Component Datasources</u></li> </ul>	Vendor: Oracle Driver: *Oracle's Driver (Thin) for Service connections; Versi*
JDBC Test	DBMS/Service: Host Name: Port: 1522
Advanced Configuration Configuration Summary Configuration Progress	Schema Owner: DEV_STB Schema Password: ••••••••
End Of Configuration	Connection Result Log
	Connecting to the database serverOK Retrieving schema data from database serverOK Binding local schema components with retrieved dataOK Successfully Done.
	Click "Next" button to continue.

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

#### Step 7:

JDBC Componen	t Schema				_		
Create Domain Templates Application Location Administrator Acc Domain Mode and Database Configure	on Sch ourt Ora	uder: HS/Service: ens Owner: tole RAC configuration f	or component s	hiver:	data cous	Pert:	
Component Datas		O conterto o	NUM. 010	And the root of the root	0474.5018	Ce O com	convert
IDIC Test	Edit	ts to the data above will	affect all checke	d nows in the table	bel ow:		
Advanced Configu	cotion 🔲	Component Schema	DBMS/Service	Host Name	Part	Schere's Owner	Schema Passware
		SAM Schema	0490120		1522	DEV_SOAINER	*****
Configuration Sur		SAM Job Sched Scheme	0996320		1522	DEV_WLS	*******
Configuration Pro	gress	SOA EDN (OA)	ORFC13C		1522	DEV_SOAINER	*******
<ul> <li>End Of Configurat</li> </ul>	ion 🗌	SOA EDN (Local)	ORFC13C		1522	DEV_SOAINER	*******
		LocalSvcTb1Schema	0996320	1.00	1522	DEV_STB	*******
		Uper Mexinging Servic	0996320		1522	DEV_UMS	*******
		SOA (KA)	0696320	1. Sec. 1. Sec	1522	DEV_SOAINER	*******
		SOA (Local)	0040350		1522	DEV_SOAINER	*******
		SAM MDS Schertin	0640330		1522	DEV_MDS	*****
		ONSM MOS Seberts	0490120		1522	DEV MDS	





Advanced Configuration	Fusion Middleware Configuration Wizard - P		
Create Domain     Templates     Application Location     Administrator Account     Domain Mode and JDK     Database Configuration Type     Component Datasources     IDBC Test     Advanced Configuration     Administration Server     Managed Servers     Clusters     Configuration Summary     Configuration Summary     Configuration Progress     End Of Configuration	Administration Server Modify Settings  Node Manager Configure Node Manager Managed Servers, Clusters and Coherence Add or Delete or Modify Settings Domain Frontend Host Capture Configure Dom ain Frontend Host Deployments and Services Target to Servers or Clusters JJMS File Store Modify Settings		
Неір		< <u>Back</u> Next > Einist	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		
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 WS12c Listen Port 7001 Enable SSL SSL Listen Port Server Groups Unspecified The name must not be null or empty and may not contain any :, = *? %_cl	oned.
Help	<back nex<="" td=""><td>t &gt; Einish Cancel</td></back>	t > Einish 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

Managed Servers					
Create Domain	d 🗈 Clone 🔀 Delete				Discard Changes
Application Location Server Na Serve	ame Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
WLS1_SOA	wis12c-node1.zion.local 🔻	7003		Disabled	SOA-MGD-SVRS
Domain Mode and JDK WLS2_BAM Database Configuration Type	wis12c-node1.zion.local 🔻	7004		Disabled	BAM12-MGD-SVRS
Advanced Configuration     Administration Server     Node Manager     Managed Servers     Clusters     Coherence Clusters     Machines					
Configuration Summary					
Configuration Progress					
End Of Configuration					



	Fusion Middleware Configuration	Wizard - Page 15 of 19	- 🗆 🛛
Coherence Clusters			
Create Domain Templates		<b>(</b> )	iscard Changes
Application Location	Cluster Name	Unicast Listen P	ort
Administrator Account	defaultCoherenceCluster	0	
Domain Mode and JDK			
Database Configuration Type			
Component Datasources			
UDBC Test			
Advanced Configuration			
Administration Server			
v Node Manager			
Wanaged Servers			
Clusters			
Assign Servers to Clusters			
Coherence Clusters			
Machines			
<ul> <li><u>Configuration Summary</u></li> </ul>			
Configuration Progress			
End Of Configuration			
Help		< <u>B</u> ack <u>N</u> ext > <u>F</u> inis	h Cancel

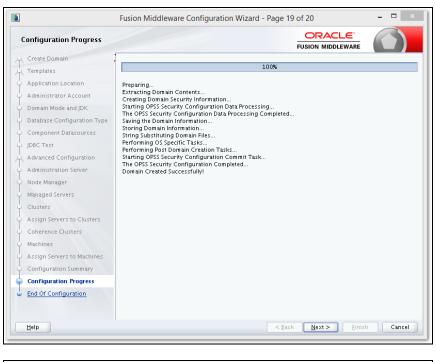
Step 13:

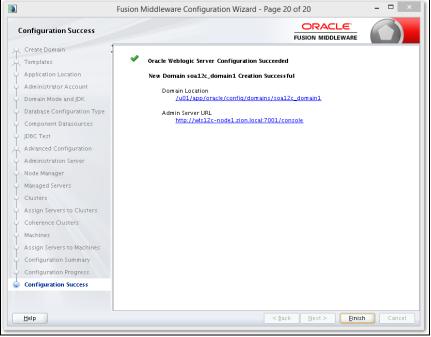
3	Fusion Middleware	Configur	ation Wi	zard - Pag	ge 16 of 2	20 -	
Machines							
Templates Application Location	Machine Unix Machire					🕼 Dis <u>c</u> ard C	hanges
Administrator Account     Domain Mode and JDK     Database Configuration Type	Name	Enable Post Bind GID	Post Bind GID	Enable Post Bind UID	Post Bind UID	Node Manager Listen Address	Node Manager Listen Port
Component Datasources     JDBC Test     Advanced Configuration     Administration Server     Node Manager     Managed Servers     Clusters     Coherence Clusters     Coherence Clusters     Machines     Assign Servers to Machines	MACHINE_wis12c-node		nobody		nobody	Ws12c-node1.zion.local 🔻	5556
Configuration Summary Configuration Progress End Of Configuration				-	< <u>B</u> ack	Next > Einish	Cancel

Step 14:

	Fusion Middleware Configuration Wizar	d - Pag	ge 17 of 20	- 🗆 🛛
Assign Servers to Machine	5			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources IDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Coherence Clusters Coherence Clusters Coherence Clusters Coherence Clusters Coherence Clusters Coherence Clusters Coherence Clusters Coherence Clusters Coherence Clusters Configuration Summary Configuration Progress End Of Configuration	Servers Select one or more servers in the left pane and on button (>) to assign the server or servers to the m		Machines → Unix Machine → MLINE_M412c-node1 → WLSQ_ADMIN → WLSQ_BAM → WLSQ_BAM → WLSQ_BAM → WLSQ_BAM → WLSQ_BAM	
Help			< Back Next > Einish	Cancel

#### 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		
tracking-fabric.jar	%Middleware Home%/soa/soa/modules/oracle.soa.fabric_11.1.1	
tracking-api.jar		
jrf-api.jar	%Middleware Home%/oracle_common/modules/oracle.jrf	
orabpel-common.jar		
orabpel-thirdparty.jar	%Middleware Home%/soa/soa/modules/oracle.soa.bpel 11.1.1	
orabpel.jar		
soa-infra-mgmt.jar	%Middleware Home%/soa/soa/modules/oracle.soa.mgmt_11.1.1	
xml.jar	%Middleware	
xmlparserv2.jar	Home%/oracle_common/modules/oracle.xdk	
mdsrt.jar	%Middleware Home%/oracle_common/modules/oracle.mds	
com.oracle.webservices.fmw.wsc lient-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 oracle.bpm.bpm- services.interface.jar	%Middleware Home%/soa/soa/modules/oracle.bpm.client_11.1.1
oracle.bpm.project.draw.jar	%Middleware
oracle.bpm.project.model.jar	Home%/soa/soa/modules/oracle.bpm.project_11.1.1
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.prope	
	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	s=RF2MRTP/MG8TB1T5QG6InQ== (Remote soa server
	password)	
	dedicated.connection	=true
	domain.name	=default (Remote soa server partition)
	domain.pwd	=RF2MRTP/MG8TB1T5QG6InQ== (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

縃 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 instance 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. Mo 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 an external security policies. The valid values are cs, true, or false. More Info
🕑 🚓 Enforce Strict URL Pattern		Specifies whether the system should enforce strict URL pattern., " $l$ " 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
🗌 <sub>6</sub> 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 ${\rm Info}\ldots$
Allow Security Management Operations if Non	n-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
	Confirm Credential:         NodeManager Username:         NodeManager Password:         Confirm NodeManager Password:         Confirm NodeManager Password:         Imager Dessword:         Imager Dessword: <t< td=""><td>Confirm Credential:      </td></t<>	Confirm Credential:



SOA Suite Setup for BPEL Process Flow [September] [2021] Version 14.5.1.0.0

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