SOA Suite Setup for BPEL Process Flow Oracle FLEXCUBE Universal Banking Release 12.87.06.0.0 [May] [2020]



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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 (<u>FCUBS Switch Interface Gateway High Availability</u> <u>Configuration.pdf</u>) 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
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 below oracle edelivery portal <u>https://edelivery.oracle.com</u>

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.



Oracle Fusion Middleware	e 12c Infrastructure Installation - Step 2 of 8	_ — X
Auto Updates		
Vielcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	Skip Auto Updates Select patches from directory Location: Search My Oracle Support for Updates Username: Password: Proxy Settings	Brgwse Image: Connection
Help		< Back Next > Finish Cancel



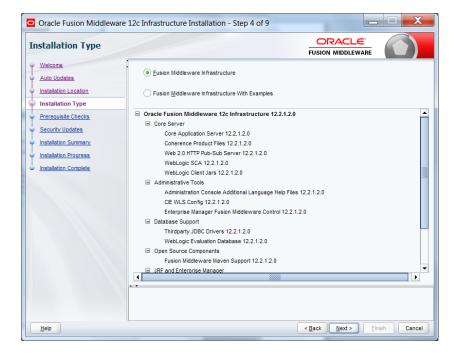
Step 3:

Define the oracle home path

Oracle Fusion Middleware	2 12c Infrastructure Installation - Step 3 of 8
Installation Location	
<u>Welcome</u>	Oracle Home:
<u>Auto Updates</u>	C:\Oracle\Middleware\Oracle_Home
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 (_), hyphen (-) or dot(.) characters and it must begin with an alphanumeric character.
Help	< <u>Back</u> <u>Next></u> Einish Cancel

Step 4:

Select fusion middleware infrastructure





Step 5:

Oracle Fusion Mid	dleware 12c Infrast	ructure Installation - Step 5 of 9			
Prerequisite Che	cks				
<u>Welcome</u>	:				
Auto Updates		100%			
Installation Location	× (hecking operating system certification			
Installation Type		hecking Java version used to launch the installer			
Prerequisite Checks					
 Security Updates 					
Installation Summary					
Installation Progress					
o Installation Complete					
	<u>Stop</u>	erun Skip View S	uccessful <u>T</u> asks	View Log	
		ng operating system certification			
		ng operating system certification ng Java version used to launch the installer			
Help	11		< Back Next > Fir	ish Cancel	

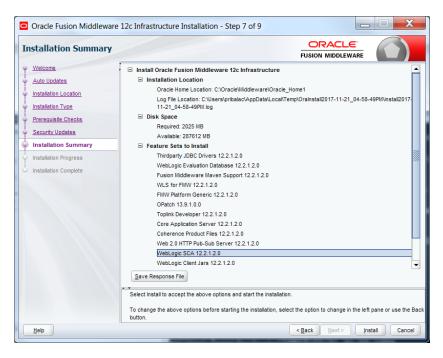
Step 6:

Optional based on installation requirement

Oracle Fusion Middleware	12c Infrastructure Installation	- Step 6 of 9		. 🗆 🗙
Security Updates				
<u>Welcome</u> <u>Auto Updates</u>				
Installation Location	Provide your email address to be i	formed of security issues, ins	tall the product	
Prerequisite Checks Security Updates	and initiate configuration manager.			
Installation Summary	I wish to receive security upda		My Oracle Support email addres	ss/username.
Installation Progress Installation Complete	My Oracle Support Password:	tes via my Oracle Support.		
	· •			
Help			< Back Next > E	inish Cancel



Step 7:

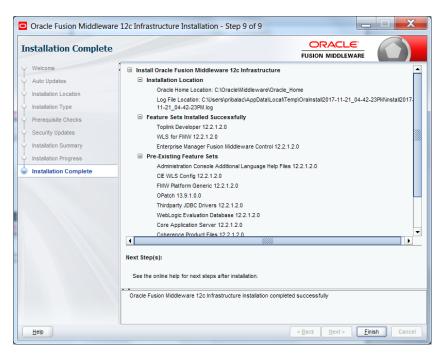


Step 8:

nstallation Progress				
Welcome		0%		
Auto Updates		0%		
Installation Location	Prepare			
Installation Type	Сору			
Prerequisite Checks	Generating Libraries			
Security Updates	Performing String Substitut	ions		
Installation Summary	Linking			
Installation Progress	Setup			
Installation Complete	Saving the inventory			
	Post install scripts			
	View Messages	View Successful Task	is	View Lo
	Mark 1		lware and So neered to Work T	



Step 9:





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:

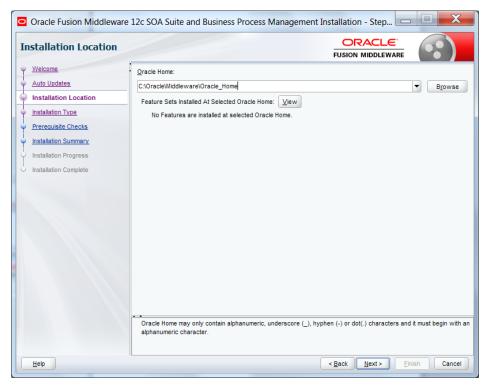
Option need to be selected based on the requirement :

- 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:



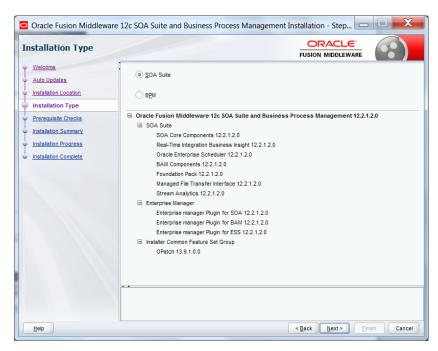
Step 3:





Step 4:

Select BPM if the environment requires BPM process flow deployment

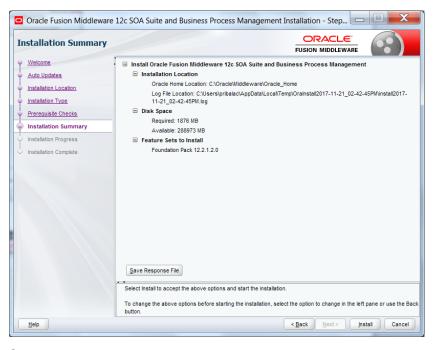


Step 5:

rerequisite Checks				(\cdot, \cdot)
Welcome			100%	
Auto Updates Installation Location		1		
Installation Type		Checking operating system certification		
Prerequisite Checks	- 🖌	Checking Java version used to launch t	the installer	
Installation Summary				
Installation Progress				
Installation Progress				
Installation Complete				
	Stop	Rerun Skip	View Successful Tasks	View Log
	Stob	70.01 070p		VICH/LOG
		cking operating system certification		
	⊞ �Che	cking Java version used to launch the ins	staller	



Step 6:



Step 7:

nstallation Progress		
Welcome Auto Updates	100%	
Installation Location	Prepare Prepare	
Prerequisite Checks	Copy Generating Libraries	
Installation Summary	Performing String Substitutions Linking	
Installation Complete	Clinking Setup Saving the inventory	
	Post install scripts	
	View Messages	View Log
	Hardware an Engineered to V	



Step 8:

Installation Complete			
Welcome	□ Install Oracle Fusion Middleware 12c SOA Suite and Business Process Management		
Auto Updates	Installation Location		
Installation Location	Oracle Home Location: C:\Oracle\Middleware\Oracle_Home		
Installation Type	Log File Location: C:\Users\pribalac\AppData\Local\Temp\Orainstall2017-11-21_02-42-45PM\install2017- 11-21_02-42-45PM.log		
Prerequisite Checks	Feature Sets Installed Successfully		
	Foundation Pack 12.2.1.2.0		
Installation Summary	Pre-Existing Feature Sets		
Installation Progress	Enterprise manager Plugin for SOA 12.2.1.2.0		
Installation Complete	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 quide for more information.		
	Oracle Fusion Middleware 12c SOA Suite and Business Process Management installation completed successfully		



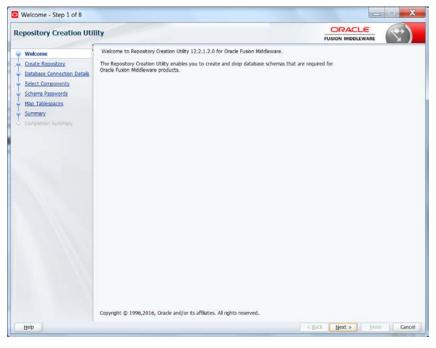
2.6 Creating product schemas in Oracle database

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:



Step 2:

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



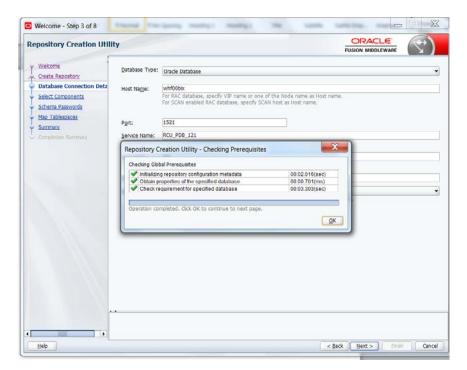


Step 3:

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.

Repository Creation Utili	ty	
Y Welcome	<u>D</u> atabase Type:	Oracle Database
Create Repository Database Connection Deta Select Components	Host Name:	whf00bx For RAC database, specify VIP name or one of the Node name as Host name. For SCAN enabled RAC database, specify SCAN host as Host name.
Schema Passwords Map Tablespaces	Port:	For SUMM enabled KAC database, spectry SUMM nost as Host name.
Completion Summary	Service Name:	RCU_PDB_121
	Username:	995 User with DBA or SYSDBA privleges: Example:sys
	Password:	
	<u>B</u> ole:	SYSDBA One or more components may require SYSDBA role for the operation to succeed.
Help		< Back Next > Finish Cance





Step 4:

Define the prefix to be used for the schemas

epository Creation Uti	lity		
Wekome Create Repository Database Connection Details	Specify a unique prefix for all sch	hemas created in this session, so you can easily [BPM12212	locate, reference, and manage the schemas later.
Select Components	Oreate new prefix:	DEV	
Schema Passwords Map Tablespaces	-	Alpha numeric only. Cannot start with a num	iber. No special characters.
	Component		Schema Owner
Summary	Comparison of Co	Components	Science
Completion Summary	HEAS Common Scher		
	Common Infrasi		DEV. STB
	Oracle Enterpris		ESS
	Oracle Platform		OP88
	User Messaging Service		UMS
	Audit Services	o de mos	IAU
	Audit Services A	onend	IAU_APPEND
	Audit Services V		
		Metadata Services	
	Weblogic Servic		MDS WLS
	⊞ SOA Suite	~~	1100
	Following are mandatory select Mandatory selected componen	ted components:Common Infrastructure Service	85



	Select Compo	nents - Step 3 of 7 – 🗖 🗙
elect Components		
Summary Completion Summ Quart Completion Summ Quart Completion Summ Quart Quart Completion Summ Quart Completion Summ Quart Quart Completion Summ Quart Completion Summart Completion Summart Completio	manage the schemas later. Select existing prefix: Create new prefix:	operated in this session, so you can easily locate, reference, and DEV and the session of t
Help		< <u>B</u> ack <u>N</u> ext > <u>Einish</u> Cancel

Step 5:

Define the password for the schemas.

Welcome - Step 5 of 8	A Laplace much	Applant (plant Lydner Ly	maning 1 m		
Repository Creation Uti	lity		i		\checkmark
Welcome	Define passwords for m	ain and auxiliary schema users.			
Create Repository	Use same password	s for all schemas			
Database Connection Details					
Select Components	Password:	Alpha numeric only.Cannot start with a number.			
Schema Passwords		No special characters except: \$, # ,			
Map Tablespaces					
Summary	Confirm Password:	•••••			
Completion Summary	🔘 Use <u>m</u> ain schema pa	asswords for auxiliary schemas			
	<u>Specify different pa</u>	sswords for all schemas			
Help			< <u>B</u> ack	<u>N</u> ext > Einis	h Cancel

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

Step 6:



epository Creation Uti	lity				
Welcome Create Repository Database Connection Details Select Components	Default and temporary tablespac To create new tablespaces or m	es for the selected compone odify existing tablespaces, usi	ents appear in the tabl e the Manage Tablesp:	e below. aces Button	Manage <u>T</u> ablespace
Schema Passwords	Component		Schema Owner	Default Tablespace	Temp Tablespace
Map Tablespaces	Common Infrastructure Services		DEV_STB	*DEV_STB	*DEV_IAS_TEMP
	* Default tablespaces (specified i	n the configuration files) are	to be created upon c	onfirmation.	

Step 7:

Welcome - Step 6 of 8	Rights maked make	reading 1 read	-	t mailing i	
Repository Creation Uti	lity				
Y Wekome Y Create Repository P Database Connection Details Y Select Components	Default and temporary tablespaces for the To create new tablespaces or modify exist	ing tablespaces, use the Man	age Tablespaces	Button	Manage Tablespaces
Schema Passwords	Component			efault Tablespace	Temp Tablespace
Map Tablespaces Summary Completion Summary	? Arth	Creation Utility - Confirm y tablespaces that do not a selected schemas will be co ck OK to create tablespaces dc Cancel to return to the v QK figuration files) are to be created figuration files) are to be created	nation Keady evist in reated. itærd.	nation.	PDEV_IAS_TEMP
Help				< <u>B</u> ack <u>N</u> ext	> Enish Cancel



Repository Creation Util	ity	i	
Viekome Greate Repostory Database Connection Details Select Components Schema Passwords Map Tablespaces	Specify a unique prefix for all sch Select existing prefix: Preate new prefix:	BPM12212 DEV Alpha numeric only. Cannot start with a number. No special charac	
Summary	Component		Schema Owner
Completion Summary	GOracle AS Repository C		
	Repository Creation Uti	lity - Checking Prerequisites	DEV_STB ESS OPSS
	Checking Component Prer		UMS
	Common Infrastructu	re Services 00.00.101(ms)	IAU IAU APPEND IAU VIEWER
			MDS
	Operation completed. Clcl	k OK to continue to next page.	WLS
			,
Heb		< ₿ack	Next > Finish Canco

Step 7:

Repository Creation Uti	lity		and the second se	
Wekome Crate Repository Database Connection Details Select Components Schema Passwords Map Tablespaces Summary	Database detais: Host Name Port Service Name Connected As Operation Prefix for (prefixable) Schema Owners	whfoobs: 1521 RCL_PDB sys System at DEV	_121 nd Data Load concurrently	
Dompleton Summury	Component Common Infrastructure Services	Scherra Owner DEV_STB	Tablespace Type Defaut Temp Additional	Tablespace Name DEV_STB DEV_LAS_TEMP [None]
Нер	Save Response File		< Back III	ext > Create Cancel



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

SQL> select comp_name, version from schema_version_registry;

sQ		🖺 🏝 🗳 🤶 ? Output Statistics						
SE	LE	CT comp name, version FRO	M	Schema	Vers	sion F	Regis	stry
		<u> </u>		_	-	_		
-								
₽	- 1	• 🔒 + - 🗸 🔻 🖄 🗛		🎽 🏫 🤝	7 🛆	-65	H	ë
		COMP_NAME		VERSIO	N 📃			
▶	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)			
		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.

Templates			F			()
	Oracle BPM Suite - Oracle B2B + 12.2.3 Oracle SOA Suite - Oracle Enterprise B Oracle Enterprise N Oracle Enterprise N Oracle Enterprise N Oracle User Messa Oracle User MSN Policy Oracle IRF SOAPJIN Oracle FIterprise N Oracle Enterprise N Oracle FIterprise N Oracle SNP Policy Oracle SNP Policy	All Templates ver Domain - 12.2.1 [wisen 12.2.1 [soa] [soa] 12.2.1 [soa] cheduler Service Basic - 12 danager Plugin for ESS - 12 danager - 12.2.1 [m] ging Service Basic - 12.2.1 Manager - 12.2.1.0 [oracle_ service - 12.2.1.0 [.2.1 [oracle_ soa] 2.1 [em] oracle_com common] common] acle_comm(2.1 [em]	mon]	_Home	Browse
Help	L		< <u>B</u> ack	Next >	Finish	Cancel

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

🛐 Fus	ion Middleware Configuration Wizard - Page 2 of 12 _ ×
Templates	
Create Domain Templates Application Location Application Location Domain Mode and JDK Onfiguration Type Component Datasources ID8C Test Advanced Configuration Configuration Progress End Of Configuration	Create Domain Using Product Templates: Template Categories: All Templates Available Templates Basic WebLogic Server Domain - 12.2.1 [w/server]* Oracle BPM Suite - 12.2.1 [soa] Oracle SPM Suite - 12.2.1 [soa] Oracle SoA Suite - 12.2.1 [soa] Oracle Enterprise Scheduler Service Basic - 12.2.1 [oracle_common] Oracle Enterprise Manager Plugin for ESS - 12.2.1 [goal Oracle Enterprise Manager Plugin for ESS - 12.2.1 [em] Oracle Enterprise Manager - 12.2.1.0 [oracle_common] Oracle BFS SoAP/IMS Service Basic - 12.2.1 [oracle_common] Oracle FISS FOAP/IMS Version Service File 2.2.1 [oracle_common] Cracle FISS Common Service File 2.2.1 [oracle_common] Cracle FISS SoAP/IMS Version Service File 1.2.2.1 [oracle_common] Cracle FISS SoAP/IMS Version Service File 2.2.1 [oracle_common] Cracle FISS SoAP/IMS Version Service File 1.2.2.1 [oracle_common] Cracle FISS SoAP/IMS Version Service File 1.2.2.1 [oracle_common] Cracle FISS SoAP/IMS Version Service File 1.2.2.1 [oracle_common] Cracle FILE FISS SoAP/IMS Version Service File 1.2.2.1 [oracle_common] Cracle FILE FILE Manager File Service File 1.2.2.1 [oracle_common] Cracle FILE FILE MANAGER-RESTRICTED (IRE - 12.2.1 [oracle_common] Cracle FILE M
Help	< <u>Rack Next</u> Einish Cancel



Step 3:

Create Domain Image: Create Domain Create Domain Location Application Location Administrator Account Domain Mode and JDK Domain name: wis_domain Domain Datasources Domain name: wis_domain JDBC Test Domain name: 'emp1221/Oracle/Middleware/Oracle_Home/user_projects/domains Advanced Configuration Domain location: 'emp1221/Oracle/Middleware/Oracle_Home/user_projects/domains Configuration Summary Configuration Maplication location: /Middleware/Oracle_Home/user_projects/applications/wis_domain Brgwse Find Of Configuration Progress Find Of Configuration Find Of Configuration Find Of Configuration	Application Location			
	Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Keystore Advanced Configuration Configuration Summary Configuration Progress	Domain location:	remp1221/Oracle/Middleware/Oracle_Home/user_projects/domains	Browse

Step 4:

Defining the domain user name and password

🛐 Fus	ion Middleware	Configuration Wizard - Page 4 of 13	_ ×
Administrator Account			
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	Name Password Confirm Password Must be the same as one number or spec	, the password. Password must contain at least 8 alphanum.	eric characters with at least
Help		< <u>B</u> ack <u>N</u> ext >	Einish Cancel



Step 5:

Domain mode needs to be production for all installations.

🛐 Fus	sion Middleware Config	uration Wizard	- Page 5	of 13		
Domain Mode and JDK			Ę			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources IDEC Test Keystore Advanced Configuration Configuration Progress End Of Configuration	Domain Mode © Development Utilize boot, properti O Production Require the entry of JDK © Qracle HotSpot 1.8.0_ O Other JDK Location:	a username and pass	word, and do r			
Help	1		< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel



Define the RCU schema details and the TNS connection details

	Fusion Middleware Configuration Wizard - Pag	ge 6 of 12	- 🗆 🗡
Database Configuration Ty	pe		
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	Specify AutoConfiguration Options Using: RCU Data Manual Configuration Enter the database connection details using the Repositor credentials. The Wizard uses this connection to automatic components in this domain. Vendor: Oracle Driver: "Oracle DBMS/Service: Host Name: Schema Owner: DEV_STB Schema Passwo <u>Get RCU Configuration Gancei 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.</u>	ally configure the datasources of e's Driver (Thin) for Service conn	equired for
Help	<	Back Next > Einish	Cancel



Step 7:

Create Domain	1	ndor:		Driver:			
Templates	Ver			Driver:			
Application Location	DBI	MS/Service:	1	Host Name:		Port:	
Administrator Account	Sch	nema Owner:		Schema Password:			
Domain Mode and JDK	Ora	acle RAC configuration fi	or component s	chemas:			
Database Configuration		O Convert to G		onvert to RAC mult	i data courr	rce 🔿 Don't	concert
Component Datasource		O convert to G	IULINK () C	Univert to RAC mun	i uata sour	Ce O Don't	convert
		ts to the data above will :	affect all checke	d rows in the table	below.		
JDBC Test		Common and Column	DBMC /Commission	Host Name	Port	Calculation Over an	Schema Passwor
Advanced Configuration	<u>n</u> -	Component Schema BAM Schema	DBMS/Service ORFC12C	ofss220337	1522	DEV_SOAINER	Schema Passwor
Configuration Summary	4 남	BAM Job Sched Schema		ofss220337	1522		
configuration summary				0133220337			
Configuration Progress	님	SOA EDN (XA)	0850120	ofss220337	1522	DEV SOAINER	
	틈	SOA EDN (XA) SOA EDN (Local)	ORFC12C ORFC12C	ofss220337 ofss220337	1522 1522	DEV_SOAINFR	•••••
Configuration Progress		SOA EDN (XA) SOA EDN (Local) LocalSvcTbl Schema					•••••
Configuration Progress		SOA EDN (Local)	ORFC12C ORFC12C	ofss220337	1522	DEV_SOAINFR DEV_STB	•••••
Configuration Progress		SOA EDN (Local) LocalSvcTbl Schema	ORFC12C ORFC12C	ofss220337 ofss220337	1522 1522	DEV_SOAINFR DEV_STB	•••••
Configuration Progress		SOA EDN (Local) LocalSvcTbl Schema User Messaging Servic	ORFC12C ORFC12C ORFC12C	ofss220337 ofss220337 ofss220337	1522 1522 1522	DEV_SOAINFR DEV_STB DEV_UMS DEV_SOAINFR	••••••
Configuration Progress		SOA EDN (Local) LocalSvcTbl Schema User Messaging Servic SOA (XA)	ORFC12C ORFC12C ORFC12C ORFC12C	ofss220337 ofss220337 ofss220337 ofss220337	1522 1522 1522 1522 1522	DEV_SOAINFR DEV_STB DEV_UMS DEV_SOAINFR	••••••••• •••••••• •••••••• •••••••

Step 8:

JD	BC Component Schema T	est			i		
Q	Create Domain		Status	Component Schema	JDBC	Connection URL	
	Templates		1	User Messaging Ser	jdbc:oracle:thin:@//ofss220337	:1522/ORFC12C	
	Application Location		1	SOA (XA)	jdbc:oracle:thin:@//ofss220337	:1522/ORFC12C	
			1	SOA (Local)	jdbc:oracle:thin:@//ofss220337	:1522/ORFC12C	
	Administrator Account		1	BAM MDS Schema	jdbc:oracle:thin:@//ofss220337	:1522/ORFC12C	
γ.	Domain Mode and JDK		1	OWSM MDS Schema	jdbc:oracle:thin:@//ofss220337	:1522/ORFC12C	
	Database Configuration Type		1	SOA MDS	jdbc:oracle:thin:@//ofss220337	:1522/ORFC12C	
	Component Datasources		1	OPSS Audit Schema	jdbc:oracle:thin:@//ofss220337	:1522/ORFC12C	
5	IDBC Test		1	OPSS Audit Viewer S	jdbc:oracle:thin:@//ofss220337	:1522/ORFC12C	
	Advanced Configuration		1	OPSS Schema	jdbc:oracle:thin:@//ofss220337	:1522/ORFC12C	
5	End Of Configuration	Driv	er=ora	t Schema=BAM Schem .cle.jdbc.xa.client.Orac	leXADataSource		
	End Of Configuration						
				SOAINFRA	on.local:1522/PDB01.ZION.LOCA	ιL.	
				*****	version_registry where owner=(
		SQL	162(=2	select 1 from Schema_	version_registry where owner=(select user from dual) and	u mr_type= soAt
				4213: Test Successful			
			FIIIK-FA	4213: IDBC connection			•
		-					



Step 9:

Select the admin server, node manager and managed servers.

	Fusion Middleware Configuration Wizard	- Page 9 of 18	- 🗆 🗡
Advanced Configuration			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Advanced Configuration Advanced Configuration Advanced Configuration Configuration Server Configuration Servers Configuration Summary Configuration Progress End Of Configuration	Administration Server Modify Settings Node Manager Configure Node Manager Configure Node Manager Managed Servers, Clusters and Coherence Add or Delete or Modify Settings Domain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters JMS File Store Modify Settings		
Help		< <u>Back</u> <u>N</u> ext > <u>Finis</u>	n Cancel

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 Advanced Configuration Node Manager Managed Servers Coherence Clusters Machines Configuration Summary Configuration Progress End Of Configuration	Server Name WLSD_ADMIN Listen Address Wis12c Listen Port 7001 Enable SSL SSL Listen Port Server Groups Unspecified Server Groups Unspecified	
Help	< <u>Back</u> <u>Next></u> <u>Einish</u>	Cancel



Step 11:

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

_ 🗆 🛛 Fusion Middleware Configuration Wizard - Page 12 of 18 ORACLE **Managed Servers** FUSION MIDDLEWARE Create Domain 👍 🛓 🖻 Clone 🛛 🗶 Delete 🔊 Dis<u>c</u>ard Changes Templates Application Location Listen Enable SSL SSL Listen Port Server Name Listen Address Server Groups Administrator Account Ĭ 7003 WLS1_SOA wis12c-node1.zion.local 💌 Disabled SOA-MGD-SVRS • Domain Mode and JDK WLS2_BAM wis12c-node1.zion.local 🔻 7004 Disabled BAM12-MGD-SVRS • Database Configuration Type Component Datasources JDBC Test Advanced Configuration Ť Administration Server Administration
 Node Manager Managed Servers Managed Coherence Clusters <u>Machines</u> Configuration Summary Configuration Progress End Of Configuration Cancel Help < <u>B</u>ack <u>N</u>ext >

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



	Fusion Middleware Configuration W	izard - Page 15 of 19	- 🗆 🛛
Coherence Clusters			
Templates		6	Dis <u>c</u> ard Changes
Application Location	Cluster Name	Unicast Listen P	ort
Administrator Account	defaultCoherenceCluster	0	
Domain Mode and JDK			
Database Configuration Type			
Component Datasources			
JDBC Test			
Advanced Configuration			
Administration Server			
Vode Manager			
Managed Servers			
Clusters			
Assign Servers to Clusters			
Coherence Clusters			
Machines			
Configuration Summary			
Configuration Progress			
O End Of Configuration			
Help		< <u>B</u> ack <u>N</u> ext > <u>Finis</u>	h Cancel



Step 13:

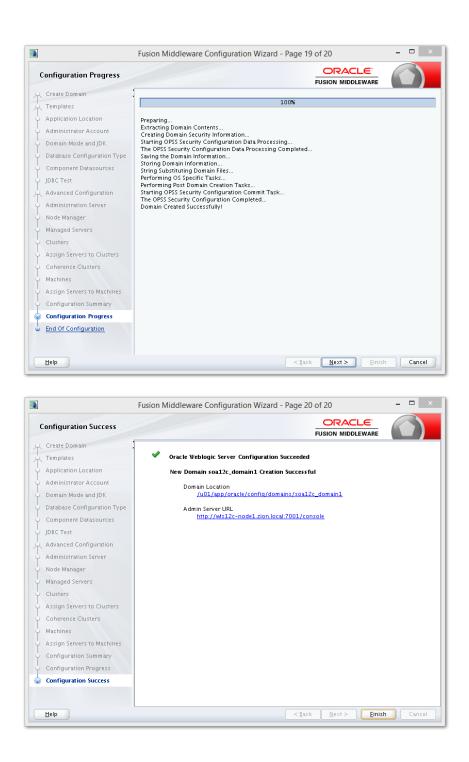
	Fusion Middleware	Configur	ation Wi	zard - Pag	ge 16 of 2	20 -	
Machines							
Create Domain Templates Application Location Administrator Account	Machine Unix Machin		Post	Enable	Post	Dis <u>c</u> ard C Node Manager Listen	hanges
Domain Mode and JDK Database Configuration Type	Name	Post Bind GID	Bind GID	Post Bind UID	Bind UID		Manager Listen Port
Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Assign Servers to Clusters Coherence Clusters Coherence Clusters Machines	MACHINE_ws12c-node		nobody		nobody	₩s12c-node1.zion.local ▼	5556
Assign Servers to Machines Configuration Summary Configuration Progress End Of Configuration Help	× •				< <u>B</u> ack	Next > Einish	Cancel

Step 14:

	Fusion Middleware Configu	ration Wizard - Pag	ge 17 of	20		-	
Assign Servers to Machine	25		FU			C	
Create Domain	Servers		Machin				
Templates			🗁 Unix	Machine ACHINE_wis1	Zc-node1		
Application Location				WLSO_ADM			
Administrator Account				WLS1_SOA			
Domain Mode and JDK			L L	WLS2_BAM			
Database Configuration Type							
Component Datasources		>					
JDBC Test							
Advanced Configuration							
Administration Server							
Node Manager		8					
Managed Servers							
<u>Clusters</u>							
Assign Servers to Clusters							
Coherence Clusters							
<u>Machines</u>							
Assign Servers to Machines							
Configuration Summary	Select one or more servers in the button (>) to assign the server or			right pane. Th	ien use the	right ar	row
Configuration Progress	baccon (2 y to absign the server of	servers to the indefine.					
End Of Configuration							
Help			< Back	Next >	Finish		Cancel

Step 15:





2.8 <u>Remote Setup Configuration:</u>

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.				
tracking-fabric.jar	1.1				
tracking-api.jar					
jrf-api.jar	%Middleware Home%/oracle_common/modules/oracle.jrf				
orabpel-common.jar	%Middleware — Home%/soa/soa/modules/oracle.soa.bpel_11.7 1				
orabpel-thirdparty.jar					
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.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	nome %/soa/soa/modules/oracle.bpm.client_11.1.1			
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.
- 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





SOA Suite Setup for BPEL Process Flow [May] [2020] Version 12.87.06.0.0

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