SOA Suite Setup for BPEL Process Flow Oracle FLEXCUBE Investor Servicing Release 14.0.0.00 [May] [2018]

FINANCIAL SERVICES

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	 AUDIENCE

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.

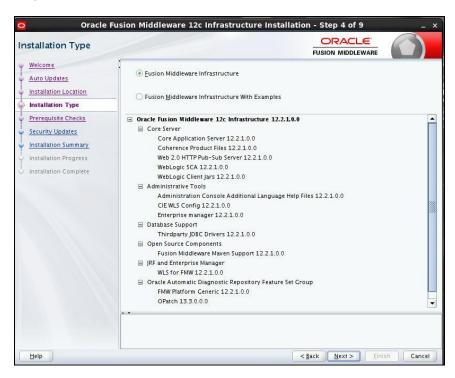
If you are applying patches, select the second option.

ito Updates		()
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	Skip <u>A</u> uto Updates Select patches from <u>directory</u> Location: Search <u>My</u> Oracle Support for Updates <u>U</u> sername: Password: Proxy Settings Search	Test Connection

Please select the option based on the requirement:

Step 3: Define the oracle home path

stallation Location			
Welcome	<u>O</u> racle Home:		
Auto Updates	/scratch/app/fmwTemp1221/Oracle/Middleware/Oracle_Ho	ome	▼ Browse
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



Welcome	1		FUSION MIDDLEWARE	
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Prerequisite Checks	×	Checking Java version used to launch the installer		
Security Updates				
Installation Summary				
Installation Progress				
	Stop	Rerun Skip View Succe	ssful <u>T</u> asks	View Log
		ecking operating system certification		

Oracle Fusion Middleware 12c Infrastructure Installation - Step 6 of 9 ORACLE Security Updates FUSION MIDDLEWARE Welcome Auto Updates Installation Location Provide your email address to be informed of security issues, install the product and initiate configuration manager. <u>View details</u>. Installation Type Prerequisite Checks Email: Security Updates Easier for you if you use your My Oracle Support email address/username. Installation Summary I wish to receive security updates via My Oracle Support. Installation Progress Installation Complete My Oracle Support Password: Help <<u>Back</u> <u>N</u>ext > <u>Finish</u> Cancel





Step 6: optional based on installation requirement

Step 8:

Oracle F	ion Middleware 12c Infrastructure Installation - Step 8 of 9 ×
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Y Welcome	
4 Auto Updates	0%
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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:

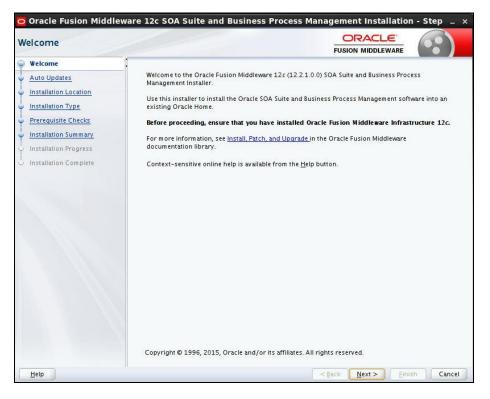
stallation Complete	
Welcome	🗧 Install Oracle Fusion Middleware 12c Infrastructure
Auto Updates	Installation Location
	Oracle Home Location: /scratch/app/fmwTemp1221/Oracle/Middleware/Oracle_Home
Installation Location	Log File Location: /tmp/Oralnstall2016-03-29_05-08-24PM/install2016-03-29_05-08-24P 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:

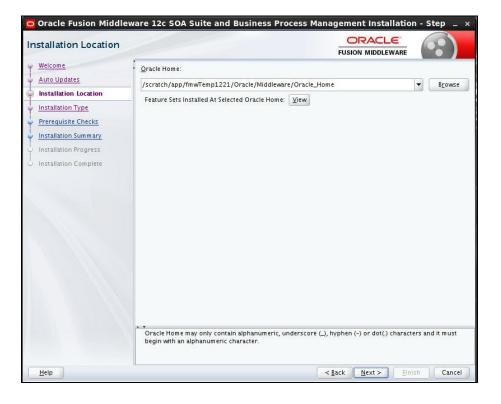
Option need to be selected based on the requirement:

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

and the second sec	Skip <u>A</u> uto Updates Select patches from <u>directory</u> Location:	- Brg
Prerequisite Checks		
Installation Progress	Search My Oracle Support for Updates Username: Password: Proxy Settings Search	Test Connect
	**	

Please select the below option based on the requirement:

Step 3:



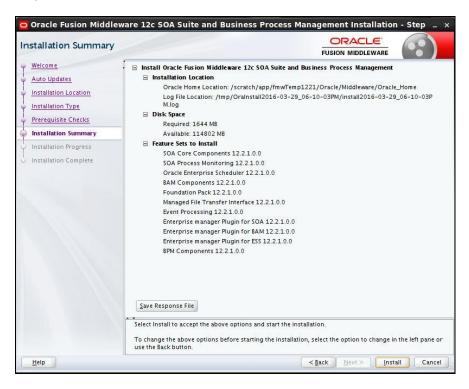
Step 4: Step 4

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erequisite Checks				$(\circ \circ)$
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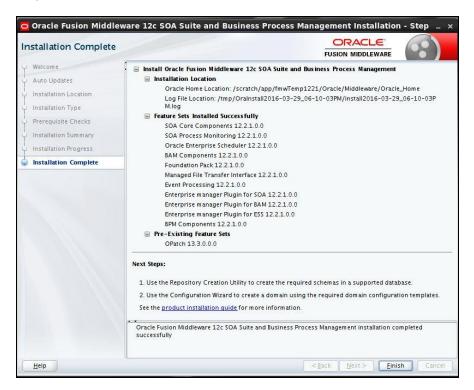
Step 6:





Oracle Fusion Middl	eware 12c SOA Suite and Business Process Management Installation - Step $$ _ $$ $ imes$
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Installation Summary	Performing String Substitutions
Installation Progress	Linking
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	Saving the inventory
	Post install scripts
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Help	< <u>Back</u> Next> Einish Cancel

Step 8:



2.6 Creating Product Schemas in Oracle Database

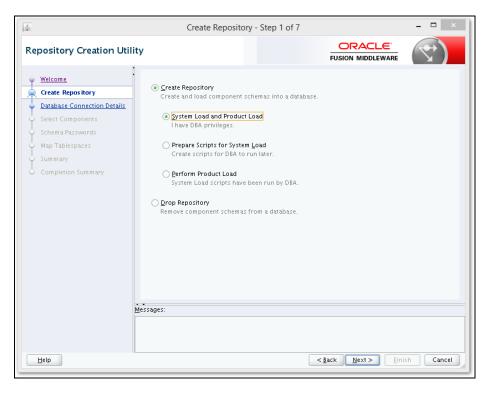
The Repository Creation Utility (RCU) is the tool used to create schemas in a database. This tool is available once we've installed the Oracle Fusion Middleware Infrastructure software (Point 2).

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	Fusion Middleware 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.

5		Database	Connection De	tails - Step 2 o	f7	- 🗆 🛛
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C Welcome	Î	Database Type:	Ovacle Database			•
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			to continue to next page.	Ωĸ	n To succeed.
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	Select Compo			
elect Components				
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) Welcome	manage the schemas later.			
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Completion Summary	Metadata Serv Audit Services		DEV_M DEV_IA	
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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
 Welcome Create Repository Database Connection Details Select Components Schema Passwords Custom Variables Map Tablespaces Summary Completion Summary 	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.

		Custom	Variables - Step 5 of 8		- 🗆 🛛
Re	pository Creation Util	lity	FI)
Ŷ	Welcome	Enter value for the followi	ng custom variables.		
Å	Create Repository	Component	Custom Variable	V	alue
5	Database Connection Details	SOA Infrastructure	Database Profile (SMALL/MED/LARG		
5	Select Components		Healthcare Integration(YES/NO)	NO	
I	Schema Passwords				
J	Custom Variables				
Ĭ	Map Tablespaces				
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Ŷ	Summary Completion Summary				
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	Help		< <u>B</u> ac	< <u>N</u> ext > <u>Ein</u>	ish Cancel

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

Step 6:

epository Creation Ut	ility			
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	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.
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<u>\$</u> .		Map Tab	lespaces - Step 6	of 8	- 🗆 🛛
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		Audit Services Append	DEV TALL VIEWED		*DEV LAS TEMP
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!	Help			< <u>B</u> ack <u>N</u> ext	> Einish Cancel

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Step 7:

epository Creation Util	lity							
) Welcome								
	Database details:							
ر Create Repository	Host Name: zeus.zi Port: 1522	on.local						
Database Connection Details		ZION.LOCAL						
	Connected As: sys							
Select Components			and Data Load concurrently					
Schema Passwords			2014-07-17_22-48/rc	u.log				
Custom Variables	Component Log Directory: /u01/ap Execution Time: 2 minu	p/oracle/logdir.) tes 55 seconds	2014-07-17_22-48					
	ViewLog: rcu.l							
Map Tablespaces	real	59						
Summary	Prefix for (prefixable) Schema Owner	s: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;

8	ŝ	50 🏝 🗳 🤶							
5Q	L	Output Statistics							
SE	LE	CT comp name, version FRO	M	Sche	ma \	/ers	sion	Regis	stry
-	-		-						
H	÷	• 🕀 + - 🗸 🔻 🖉 👫		1	\bigtriangledown	\bigtriangleup	-#	H	5
	-	COMP NAME		VER	SION				
•	1	Audit Service		12.2.1					
_	2	Audit Service Append		12.2.1	1.0.0				
-	_	Audit Service Viewer		12.2.1	1.0.0				
_	4	Metadata Services		12.2.1	0.0.1				
	4	Metadata Services Oracle Platform Security Services		12.2.1		•••			
	5				1.0.0				
	5	Oracle Platform Security Services		12.2.1	1.0.0 1.0.0				
	5 6 7	Oracle Platform Security Services SOA Infrastructure Services	···· ···	12.2.1 12.2.1	1.0.0 1.0.0 1.0.0	•••			

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

Step 1:

FI FI	usion Middlewa	re Configuration W	izard - Page 🛛	L of 8		×
Configuration Type			i			
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	What do you want Create a new d Update an exis Domain Location: Create a new doma	lomain tting domain ['Oracle/Middleware/Orac				Browse
Help			< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

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	Create Domain Using Product Templates: Template Categories: All Templates Available Templates Basic WebLogic Server Domain - 12.2.1 [wiserver]* Oracle BMS 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 Enterprise Manager Plugin for ESS - 12.2.1 [em] Oracle User Messaging Service Basic - 12.2.1 [cmail Oracle Enterprise Manager Plugin for ESS - 12.2.1 [em] Oracle BAS Session Service - 12.2.1.0 [oracle_common] Oracle RAS Session Service - 12.2.1.0 [oracle_common] Oracle FX SOAF/IMS Web Services - 12.2.1 [oracle_common] Oracle FX SOAF/IMS Web Services - 12.2.1 [oracle_common] Oracle FX SOAF/IMS Web Services - 12.2.1 [oracle_common] Create Domain Using Custom Template: Template location:
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)
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 [Mserver]* • Oracle BPM Suite - 12.2.1 [soa] • Oracle B2B - 12.2.1 [soa] • Oracle 50 Suite - 12.2.1 [soa] • Oracle Enterprise Activity Monitoring - 12.2.1 [ona] • Oracle Enterprise Anager Plugin for E5S - 12.2.1 [em] • Oracle Enterprise Manager - 12.2.1 [em] • Oracle Enterprise Manager - 12.2.1 [oracle_common] • Oracle RAS Session Service Restricted IRE - 12.2.1 [em] • Service Domain Using Custom Template: • Template location: //scratch/app/fmwTemp1221/Oracle/Middleware/Oracle_Home • Brow • • • • • • • • • • • • • • • • • • •	vse
Help	< <u>Back</u> Next > Finish Can	cel

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 <u>Development</u> Utilize boot.properties for username and password, and poll for applications to deploy. <u>Production</u> Require the entry of a username and password, and do not poll for applications to deploy. JDK <u>Oracle HotSpot 1.8.0_65 /scratch/app/jdk1.8.0_65</u> Other JDK Location: <u>Browse</u>
Help	< <u>Back</u> <u>Next></u> <u>Finish</u> Cancel

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

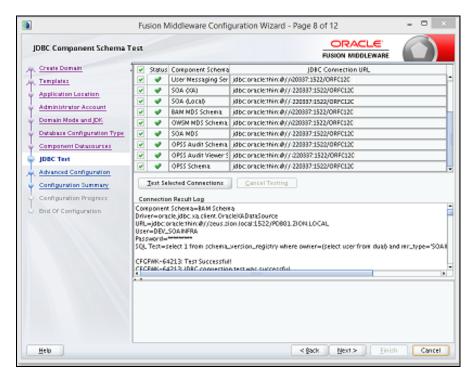
	Fusion Middleware Configuration Wizard - Page 6 of 12 – 🗖 🗙
Database Configuration Ty	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using: RCU Data Manual Configuration Enter the database connection details using the Repository Creation Utility service table (STB) schema credentials. The Wizard uses this connection to automatically configure the datasources required for components in this domain. Vendor: Oracle Driver: *Oracle's Driver (Thin) for Service connections; Versi* DBMS/Service: Host Name: Port: 1522 Schema Owner: DEV_STB Schema Password: ••••••• Get RCU Configuration Connection Result Log Connecting to the database serverOK Retrieving schema a components with retrieved dataOK Successfully Done. *- Click "Next" button to continue.
Help	< <u>Back</u> <u>Next></u> Einish Cancel

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	0414.5018	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	*******
 End Of Configurat 	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	0490130		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 > 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	∯ <u>A</u> dd	🗈 Clone 🔀 Delete				🗐 Dis <u>c</u> ard Changes
Application Location	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
W	LS1_SOA	wis12c-node1.zion.local 🔻	7003		Disabled	SOA-MGD-SVRS
Domain Mode and JDK Database Configuration Type	LS2_BAM	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		9	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			
<u>Component Datasources</u>			
UDBC Test			
Advanced Configuration			
Administration Server			
Node Manager			
Managed Servers			
Clusters			
Assign Servers to Clusters			
Coherence Clusters			
Machines			
Configuration Summary	**		
Configuration Progress			
End Of Configuration			
Help		< Back Next > Einis	h Cancel

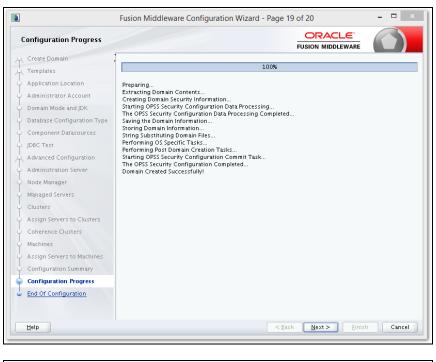
Step 13:

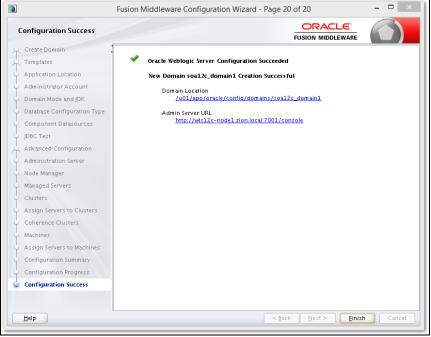
3	Fusion Middleware	Configur	ation Wi	zard - Pag	ge 16 of 2	20 -	
Machines							
Templates Application Location	Machine Unix Machire					🕼 Dis <u>c</u> ard C	hanges
Administrator Account Domain Mode and JDK Database Configuration Type	Name	Enable Post Bind GID	Post Bind GID	Enable Post Bind UID	Post 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			
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.

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)	
	WORKFLOW_CLIENT_TYPE java.naming.provider.url soa server provider url) java.naming.security.principal java.naming.security.credentials password) dedicated.connection domain.name domain.pwd

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

rceStrictURLPattern flag	— 🗢 Advanced —		
Servers	街 Security Interoperability Mode:	default	Specifies the security mode of the communication channel used for XA cal between servers that participate in a global transaction. All server instant in a domain must have the same security mode setting. More Info
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (2)	Credential:	••••••	The credential for this WebLogic Server domain. When a domain is creates a unique credential is generated for the domain. If you want to establish trust between two or more domains, decide an accelotatial that will be shared by the domains, then specify it here and in the other domains. M Infor
OK (2)	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:	••••••	
	個日 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 a 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 ${\rm Info}\ldots$
	🗹 😤 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 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 No	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



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