

Oracle® Retail Bulk Data Integration

Installation Guide

Release 16.0.1

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Primary Author: Nathan Young

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Oracle® Retail Bulk Data Integration Installation Guide, Release 16.0.1.

Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document.

Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
- Does the structure of the information help you with your tasks?
- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

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Preface

The Oracle® Retail Bulk Data Integration Installation Guide contains the requirements and procedures that are necessary for the retailer to install the Oracle Retail Bulk Data Integration product.

Audience

The Installation Guide is written for the following audiences:

- Database administrators (DBA)
- System analysts and designers
- Integrators and implementation staff

Documentation Accessibility

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When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 16.0) or a later patch release (for example, 16.0.1). If you are installing the base release and additional patch releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch releases can contain critical information related to the base release, as well as information about code changes since the base release.

Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times not be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site, or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

An updated version of the applicable Oracle Retail document is indicated by an Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

If a more recent version of a document is available, that version supersedes all previous versions.

Oracle Retail Documentation on the Oracle Technology Network

Oracle Retail product documentation is available on the following web site:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

(Data Model documents are not available through the Oracle Technology Network. You can obtain these documents through My Oracle Support.)

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

Convention	Meaning
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Introduction

Oracle Retail Bulk Data Integration (BDI) provides the ability to transfer bulk data between Oracle Retail applications. BDI contains the following components:

- BDI Batch Job Admin – Helps management of batch jobs
- BDI Process Flow - Provides a mechanism to run multiple dependent batch jobs
- BDI Scheduler - Schedules execution of an action, like invoking process flows or services

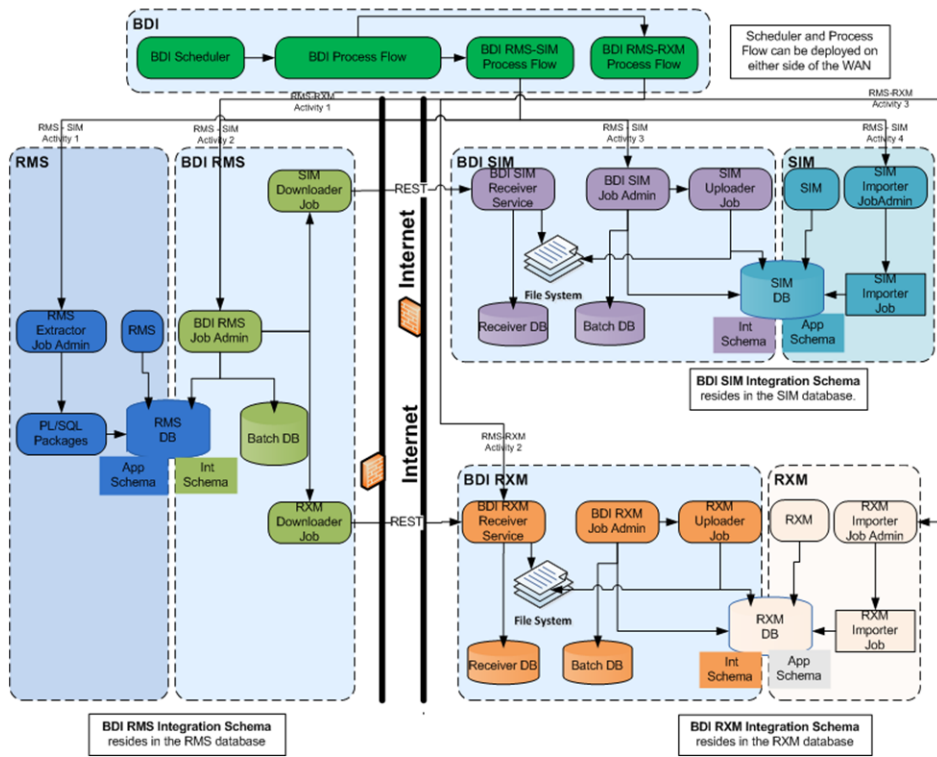
A BDI installation contains the following components:

- An installation of BDI RMS Batch Job Admin
- An installation of BDI RXM Batch Job Admin
- An installation of BDI SIM Batch Job Admin
- An installation of BDI Process Flow
- An installation of BDI Scheduler

BDI Topology

The diagram below shows the default topology for BDI. Please refer to the *Oracle Retail Bulk Data Integration Implementation Guide* for other supported topologies.

Bulk Data Integration Sender Side Split Topology



Technical Specifications

The BDI components have several dependencies on Oracle Retail Application installations, as well as on the Oracle WebLogic Servers. This section covers these requirements.

Requesting Infrastructure Software

If you are unable to find the necessary version of the required Oracle infrastructure software (database server, application server, WebLogic, etc.) on the Oracle Software Delivery Cloud, you should file a non-technical 'Contact Us' Service Request (SR) and request access to the media. For instructions on filing a non-technical SR, see My Oracle Support Note 1071023.1 - *Requesting Physical Shipment or Download URL for Software Media*.

Server Requirements

Supported On	Versions Supported
Database Server OS	OS certified with Oracle Database 12c (12.1.0.2) Enterprise Edition. Options are: <ul style="list-style-type: none">■ Oracle Linux 6 or 7 for x86-64 (Actual hardware or Oracle virtual machine).■ Red Hat Enterprise Linux 6 or 7 for x86-64 (actual hardware or Oracle virtual machine)■ IBM AIX 7.1 (actual hardware or LPARs)■ Solaris 11.x Sparc (actual hardware or logical domains)

Database Server 12c	<p>Oracle Database Enterprise Edition 12c (12.1.0.2) with the following specifications:</p> <p>Components:</p> <ul style="list-style-type: none"> ■ Enterprise Edition ■ Examples CD (formerly the companion CD) <p>Oneoff Patches:</p> <ul style="list-style-type: none"> ■ 20846438: ORA-600 [KKPAPXFORMFKK2KEY_1] WITH LIST PARTITION ■ Patch 19623450: MISSING JAVA CLASSES AFTER UPGRADE TO JDK 7 ■ 20406840: PROC 12.1.0.2 THROWS ORA-600 [17998] WHEN PRECOMPILING BY 'OTHER' USER <p>RAC only:</p> <ul style="list-style-type: none"> ■ 21260431: APPSST 12C : GETTING ORA-4031 AFTER 12C UPGRADE ■ 21373473: INSTANCE TERMINATED AS LMD0 AND LMD2 HUNG FOR MORE THAN 70 SECS <p>Other Components:</p> <ul style="list-style-type: none"> ■ Perl interpreter 5.0 or later ■ X-Windows interface ■ JDK 1.7
Application Server OS	<p>OS certified with Oracle Fusion Middleware 12c. Options are:</p> <ul style="list-style-type: none"> ■ Oracle Linux 6 or 7 for x86-64 (Actual hardware or Oracle virtual machine). ■ Red Hat Enterprise Linux 6 or 7 for x86-64 (actual hardware or Oracle virtual machine) ■ IBM AIX 7.1 (actual hardware or LPARs) ■ Solaris 11.x Sparc (actual hardware or logical domains)
Application Server	<p>Oracle Fusion Middleware 12c (12.2.1.2)</p> <p>Components:</p> <ul style="list-style-type: none"> ■ Oracle WebLogic Server 12c (12.2.1.2) ■ Java: JDK 1.8+ latest security updates 64 bit <p>Patches:</p> <ul style="list-style-type: none"> ■ Patch 22648025: ILLEGALSTATEEXCEPTION WHEN INVOKING A WEBSERVICE/EJB IN WLS 12.2.1 (you need an Oracle support account to get it)
Minimum required JAVA version for all operating systems	JDK 1.8+ latest security updates 64 bit

Note: By default, JDK is at 1.6. After installing the 12.1.0.2 binary, apply patch 19623450. Follow the instructions on *Oracle Database Java Developer's Guide 12c Release 1* to upgrade JDK to 1.7. The Guide is available at:

<http://docs.oracle.com/database/121/JJDEV/chone.htm#JJDEV0100>

Installation Notes

When redeploying BDI applications, please note the following.

- If any existing datasource connection detail is changed (in *env-info.json deployment config file), such as the JDBC URL, username or, password of the database connection, the datasource needs to be first deleted from the WebLogic server before installation. This is a manual step.
 - Log in to the WebLogic Server Admin console. Go to Services -> Data Sources page. Select the datasource, delete and activate the changes.
 - Proceed with the installation.
- The JobAdminDataSource and ReceiverServiceDataSource should also be cleaned if we are using the same schema, delete all the tables for RMS, RXM, SIM and external.

Note: The above steps are not required if no datasource connection detail is changed during redeployment.

BDI Batch Job Admin

This chapter describes the procedure you must use to install the JRF domain and deploy the BDI Batch Job Admin application. For more information about domain creation and other server related information, see the WebLogic application server documents.

Installation and Setup Instructions

This section describes the installation and setup instructions including the installation prerequisites, preparing the WebLogic server, creating a WebLogic domain, and deploying the WAR file.

Prerequisites

The BDI Batch Job Admin application requires Oracle WebLogic server 12c (12.2.1.2), built with Java 8 (JDK 1.8 64 bit with the latest security updates).

The recommended Java VM memory setting for the Job Admin application domain is:

```
-Xms1024m -Xmx2048m
```

Installing WebLogic

To obtain WebLogic 12c (12.2.1.2), go to the Oracle Technology Network and take the following steps.

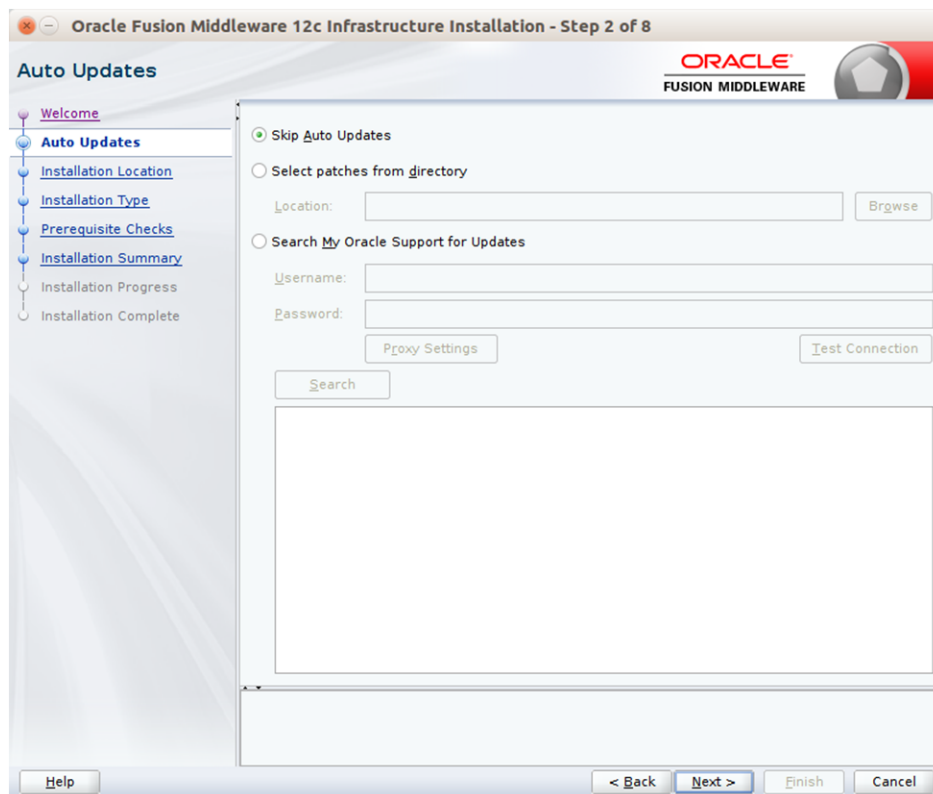
1. Find `fmw_12.2.1.2.0.0_infrastructure_Disk1_1of1.zip` and download this file to your system.
2. Extract the contents of this zip file to your system. You will use the `fmw_12.2.1.2.0.0_infrastructure.jar` file to run the installer.
3. Run the installer by executing the jar file:

```
java -jar fmw_12.2.1.2.0.0_infrastructure.jar
```

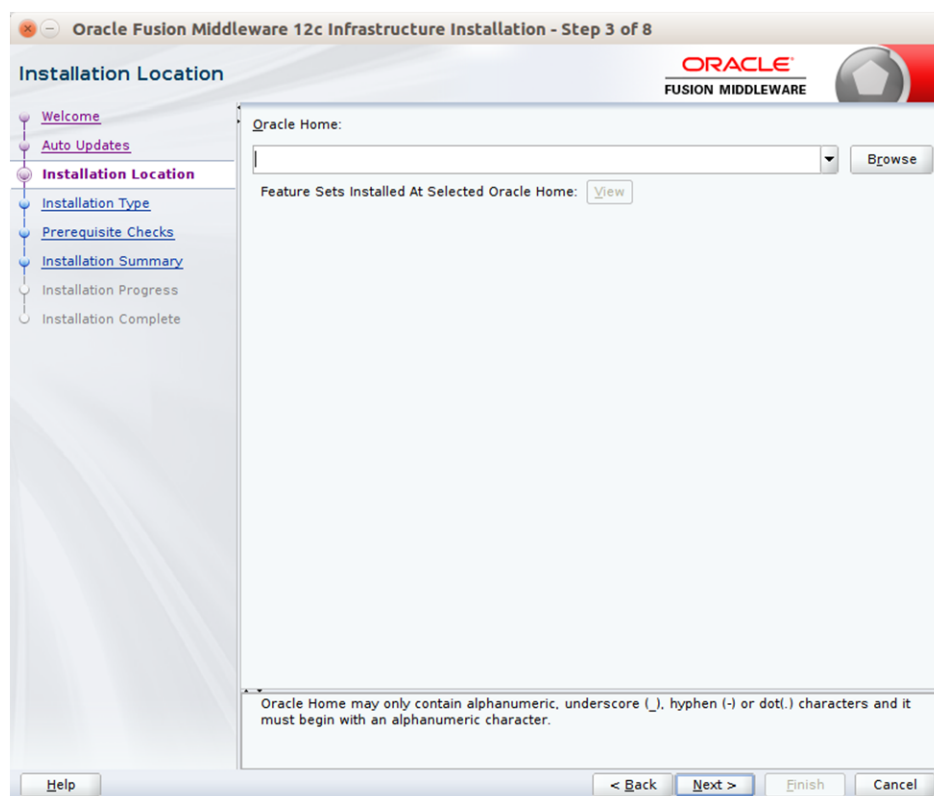
The Welcome window appears.



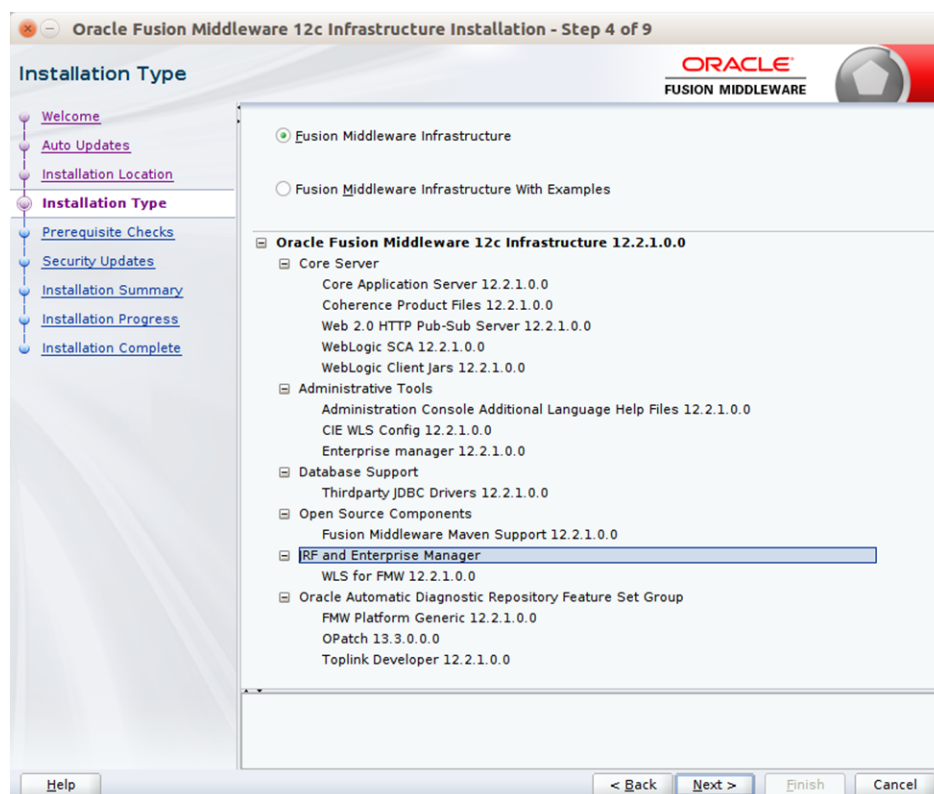
4. Click Next. The Auto Updates window appears.



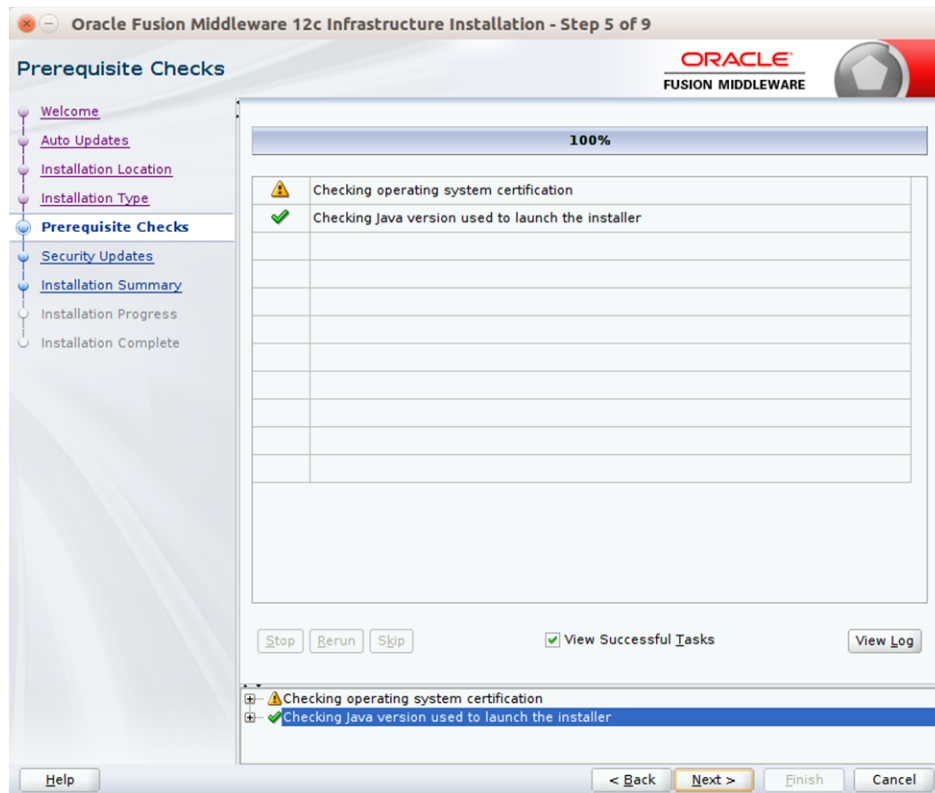
5. Select the appropriate radio button and click Next. The Installation Location window appears.



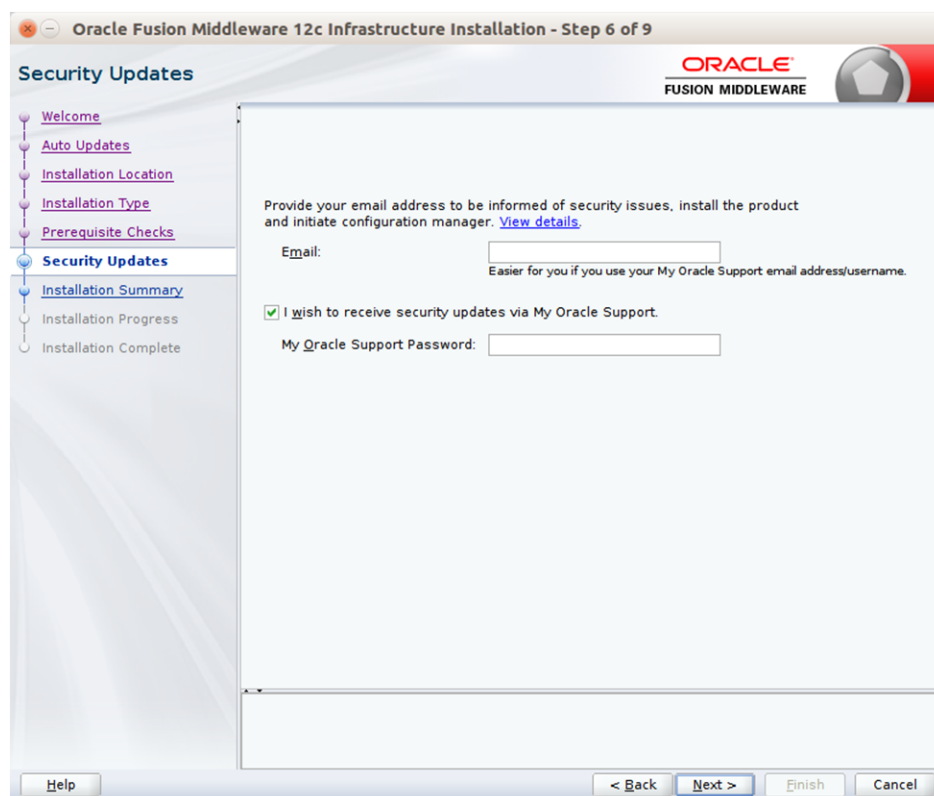
6. Click Browse to select the Oracle Home location where the Weblogic Server is to be installed.
7. Click Next. The Installation Type window appears.



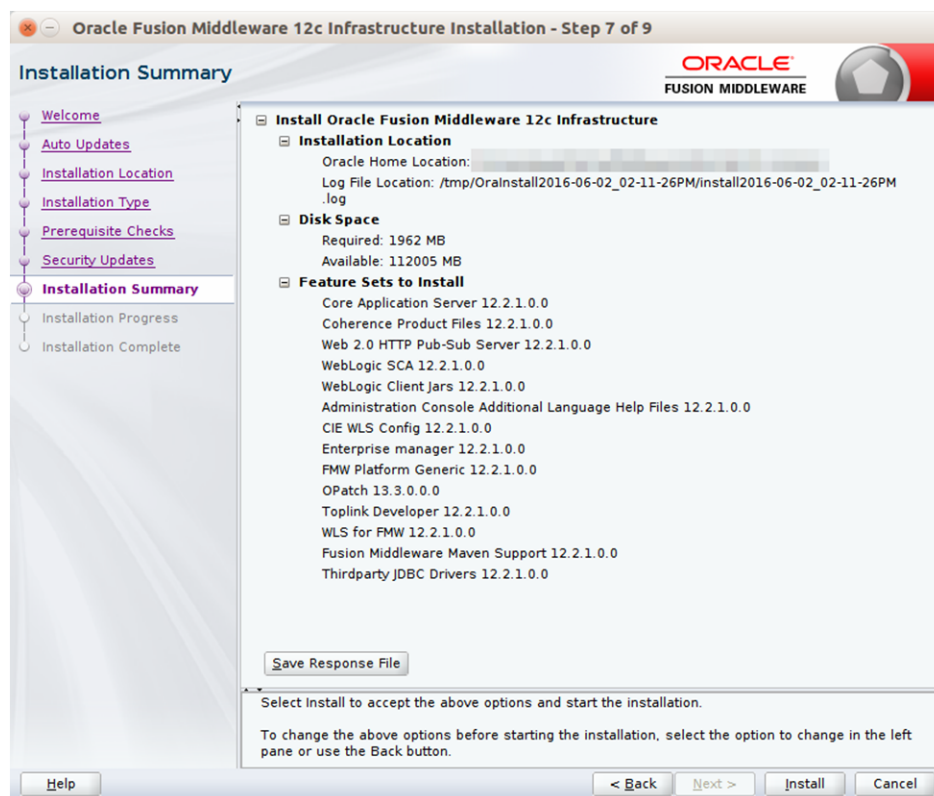
8. Select Fusion Middleware Infrastructure and click Next. The installer performs the pre-requisite checks and ensures all required conditions are satisfied.



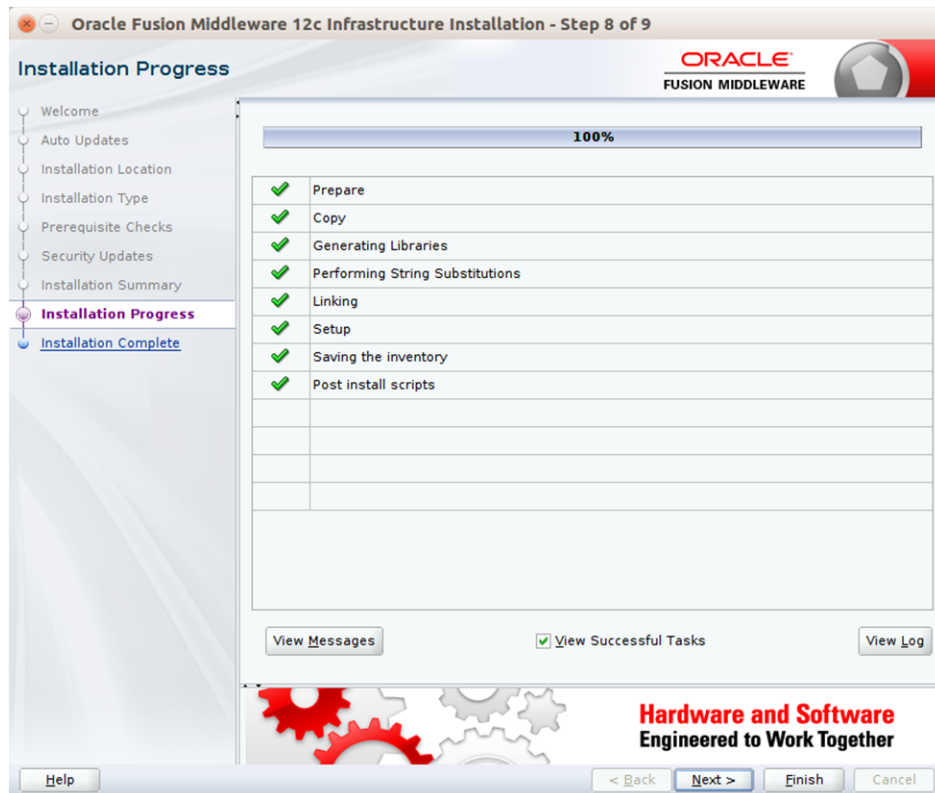
9. When the prerequisite check completes successfully, click Next. The Security Updates window appears.



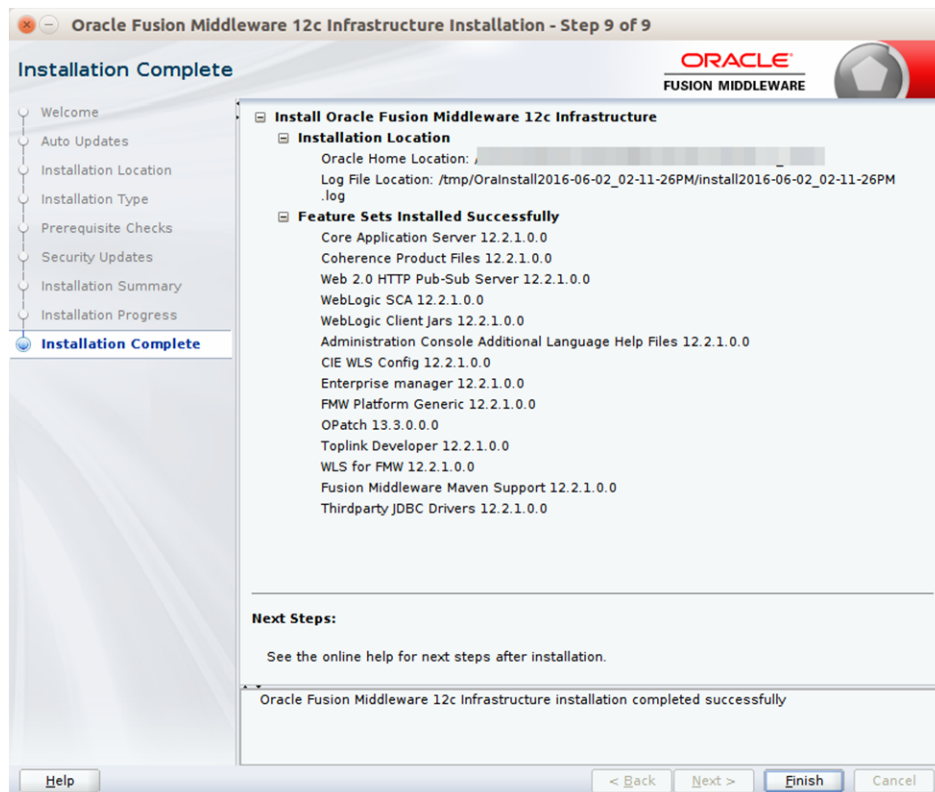
10. Provide information and click Next.



11. Click Install. The Installation Progress window appears.



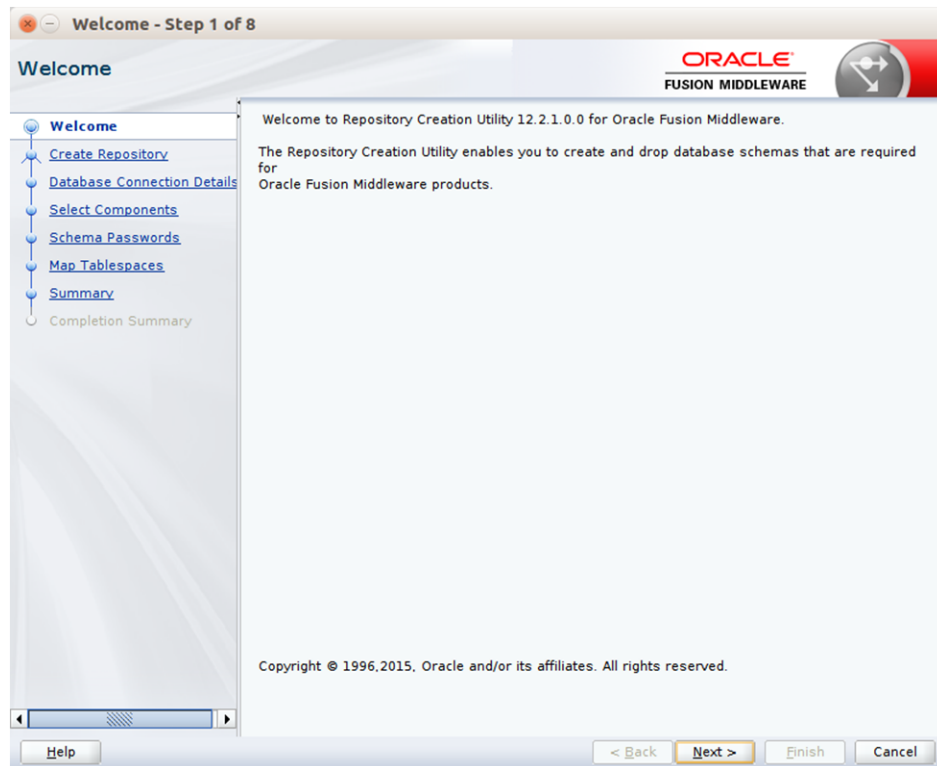
12. Click Next when the installation completes. The Installation Complete window appears.



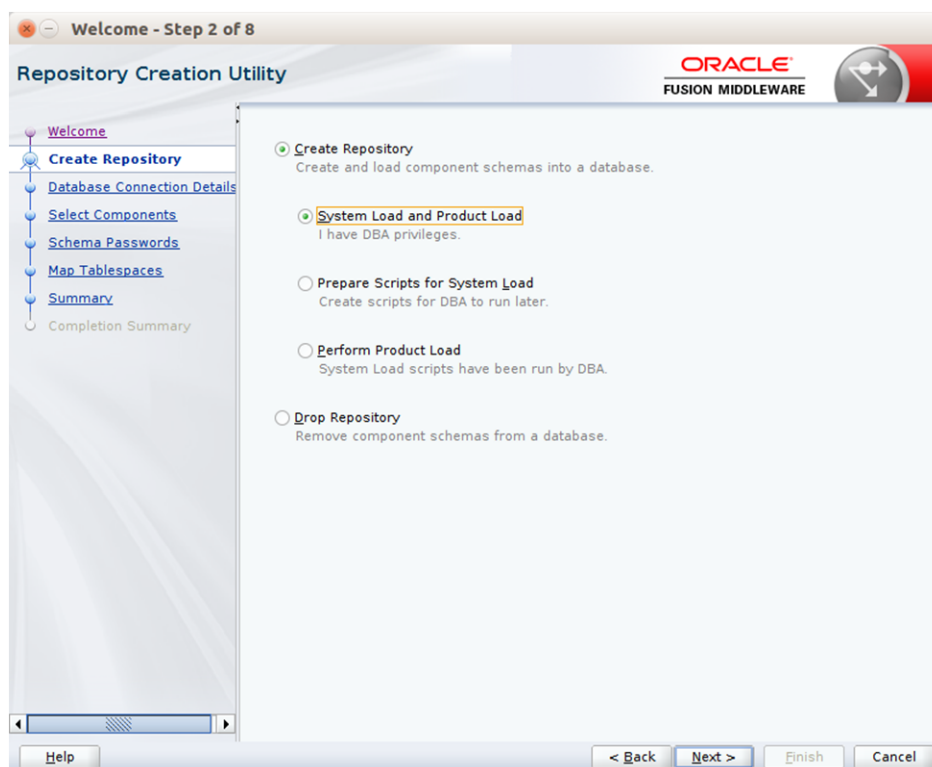
Creating the Required Schema Using the Repository Creation Utility

Perform the following procedure to create a schema user for the domain:

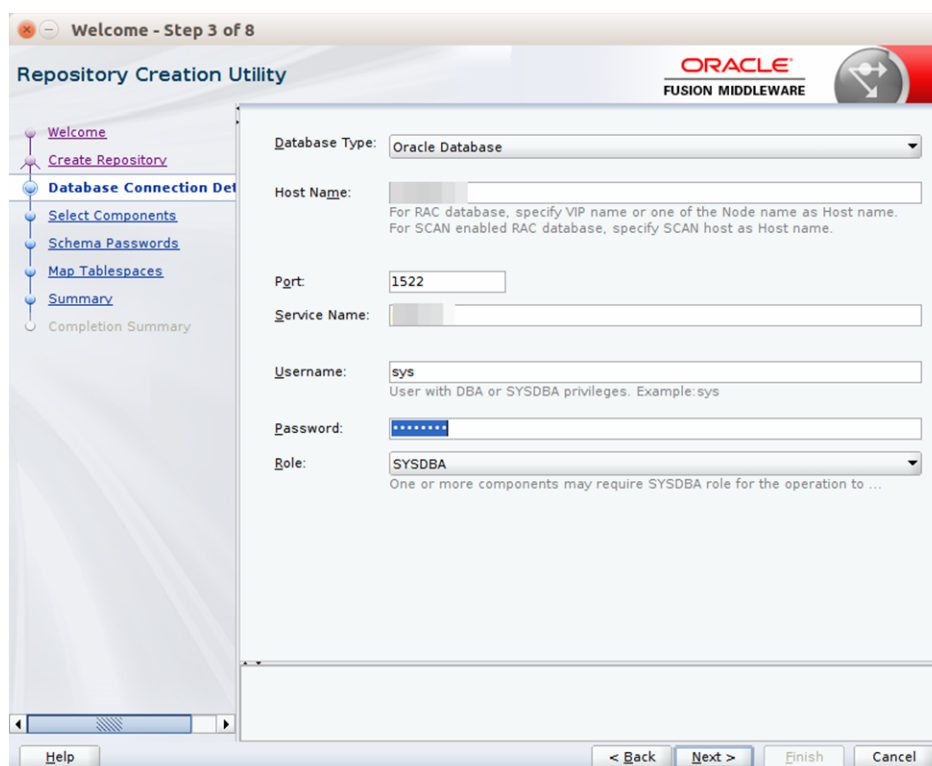
1. Run the RCU from the <MW_HOME>/oracle_common/bin folder. The Welcome window appears.



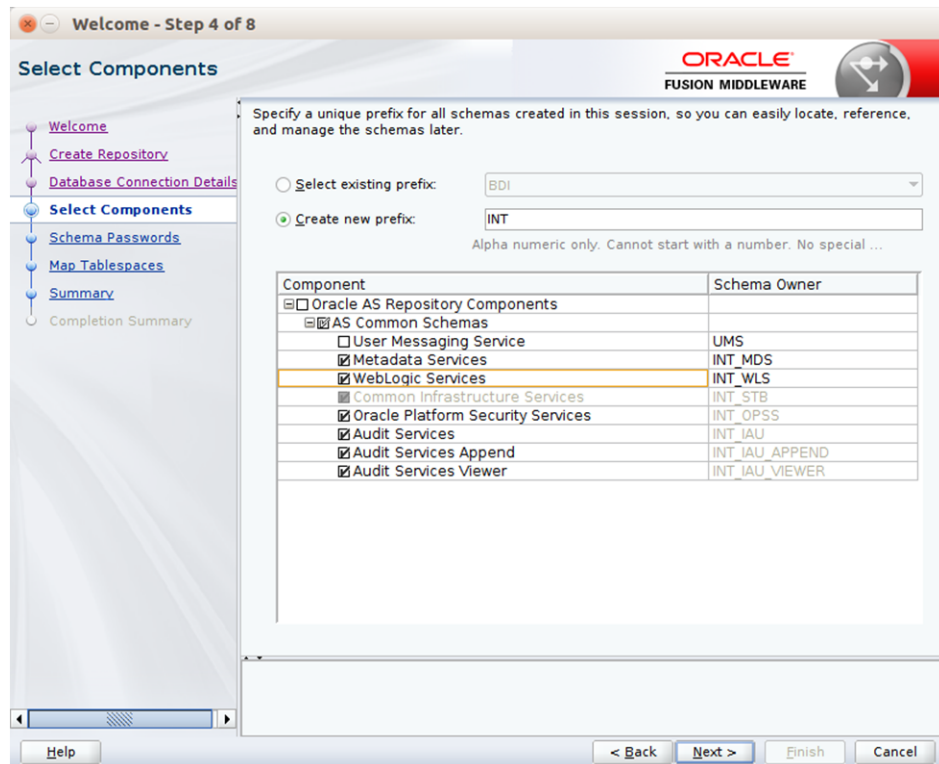
2. Click Next and select the Create Repository option.



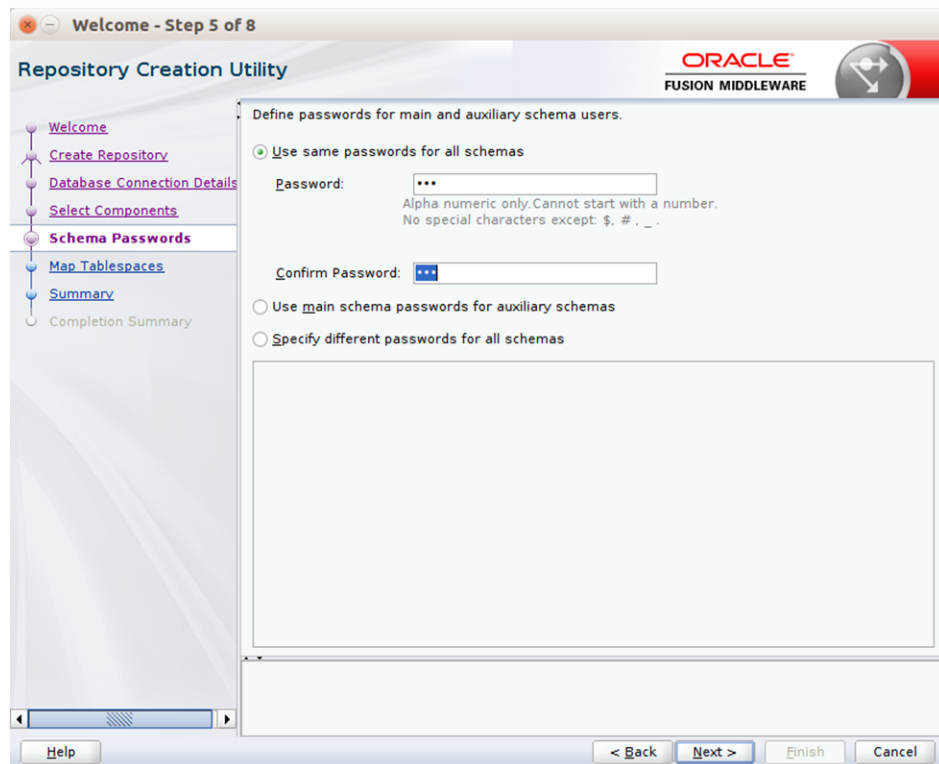
3. Click Next. Enter the database credentials where the schema user has to be created.



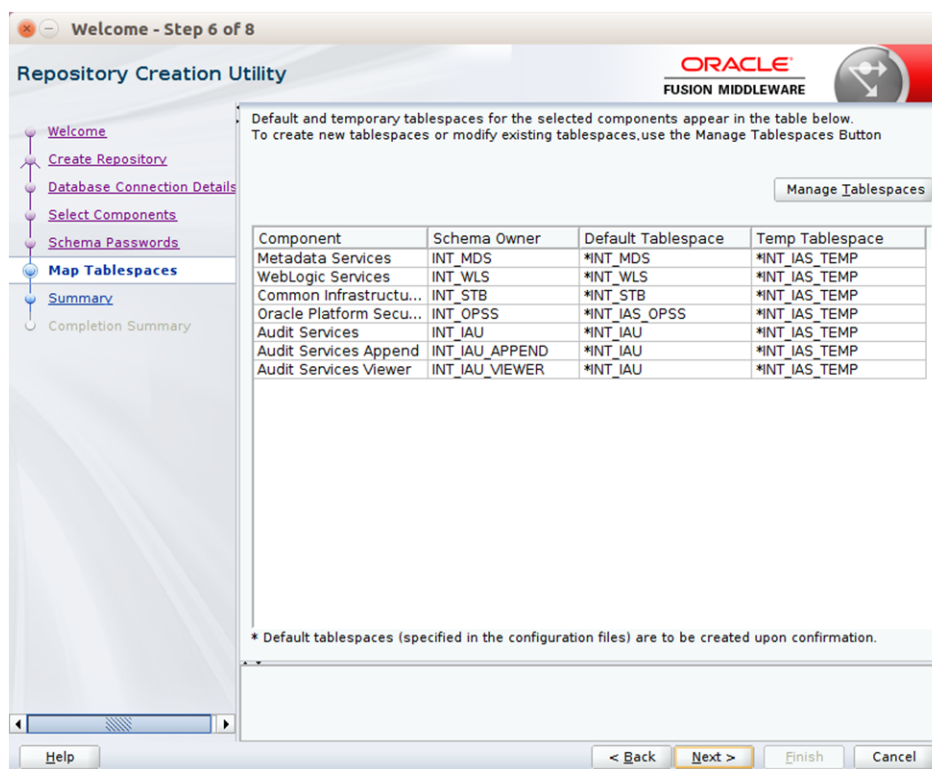
4. Click Next. Specify the prefix to be used for the schema user creation. For example, INT. Select Metadata Services, WebLogic Services, and Oracle Platform Security Services.



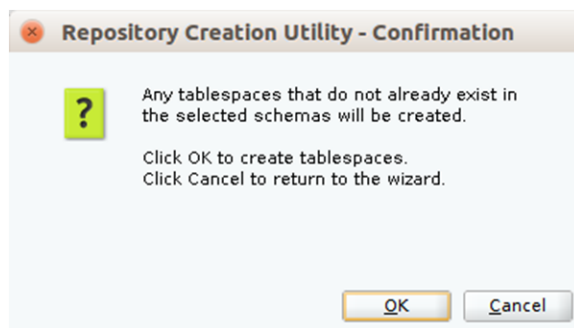
5. Click Next. Specify the password.



6. Click Next. The window provides the details of tablespaces created as part of schema creation.



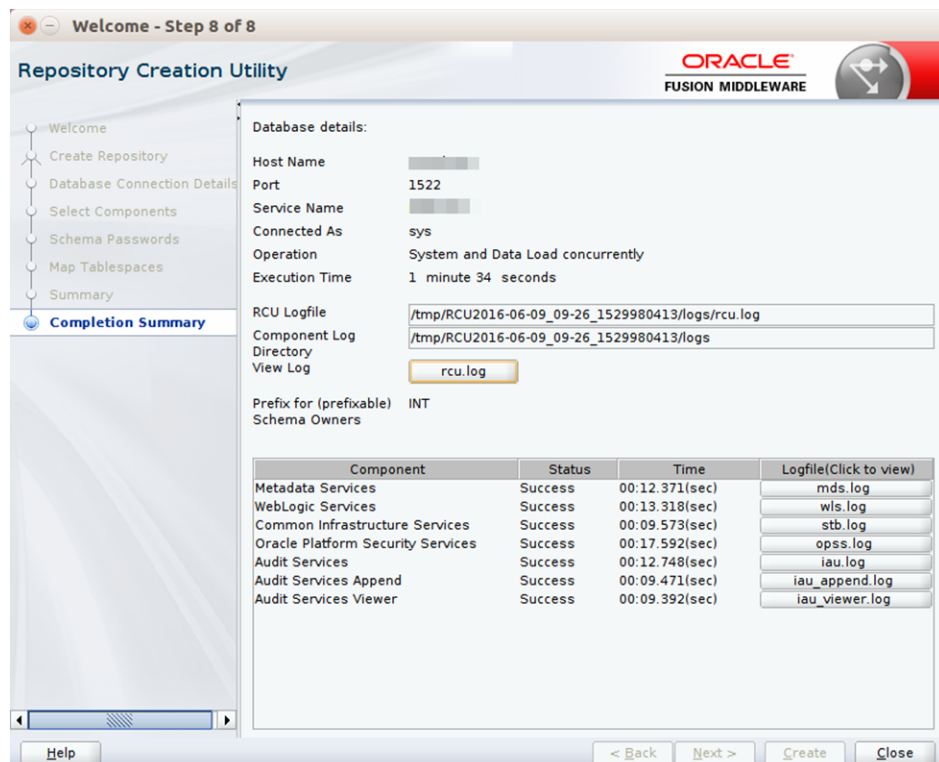
7. Click Next. The Confirmation window appears.



8. Click OK. The Summary window appears.



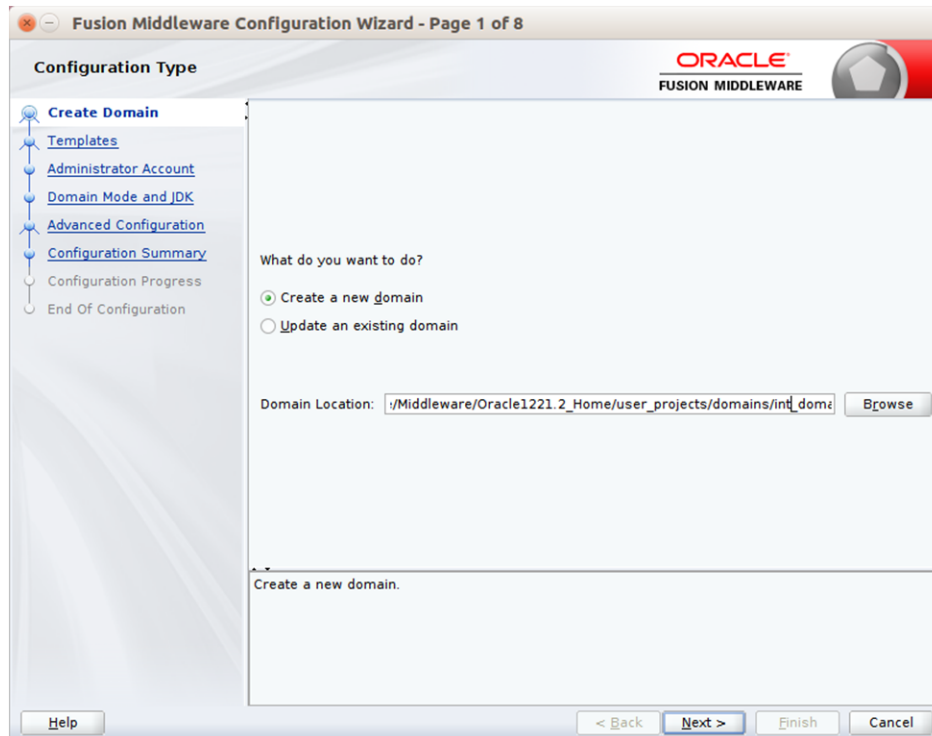
- Click Create and proceed to create the schema. This could take a while to complete. The Completion Summary window appears.



Creating a WebLogic Domain with JRF

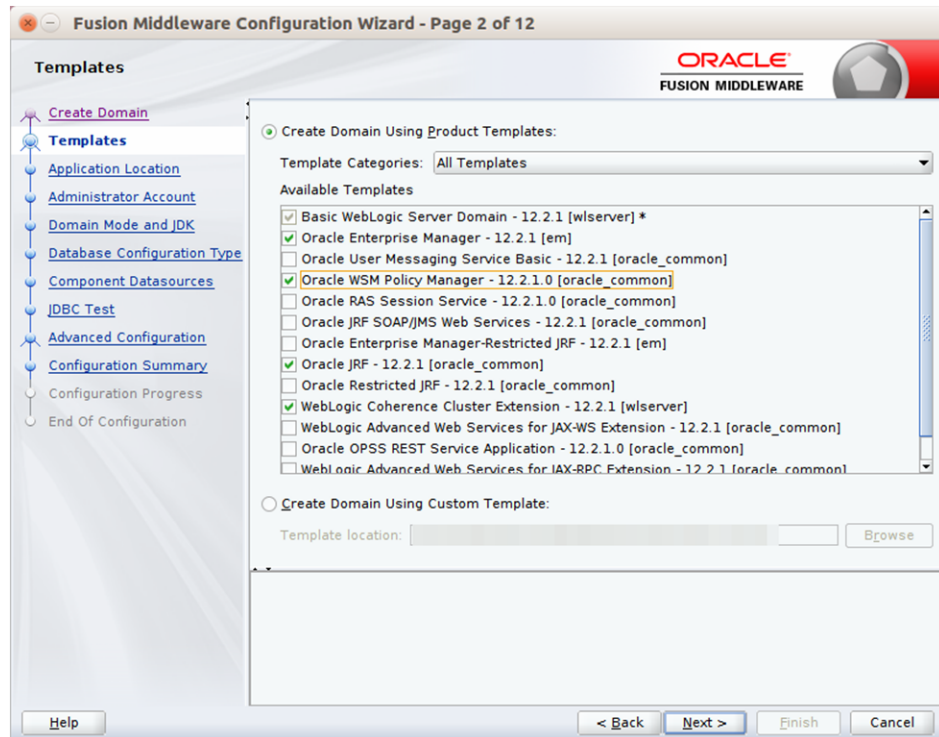
Perform the following procedure to create a new WebLogic domain with JRF:

1. Run the config.sh from <ORACLE_HOME>/oracle_common/common/bin folder. The Configuration Type window appears.

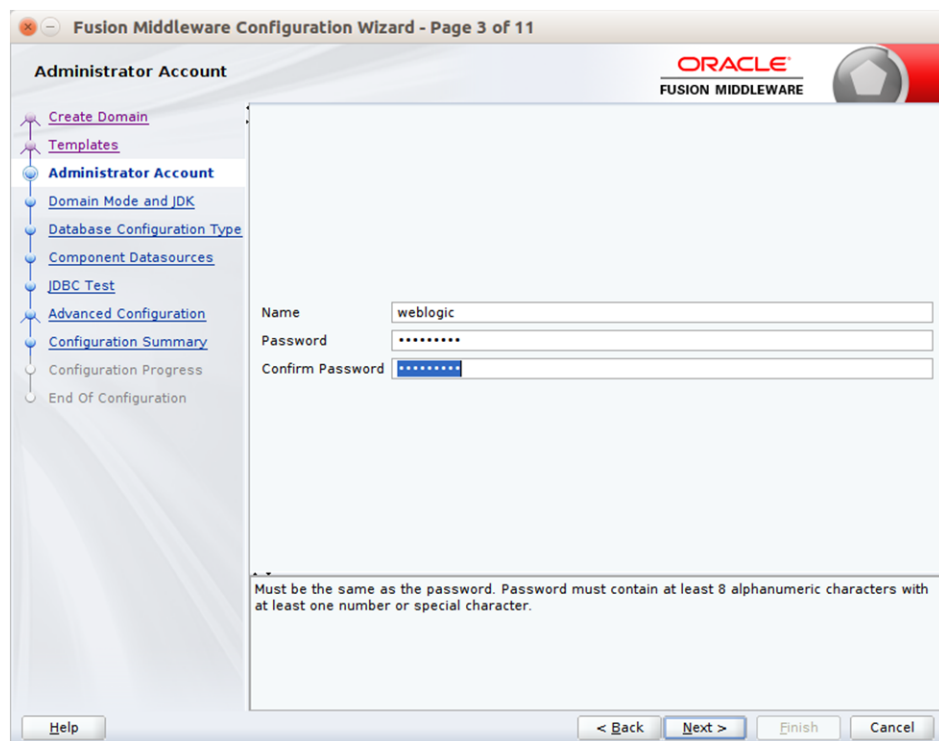


2. Select Create a new domain, provide domain location, and click Next. The Templates window appears. By default, the Basic WebLogic Server Domain - 12.2.1.2 [wlserver] checkbox is selected.

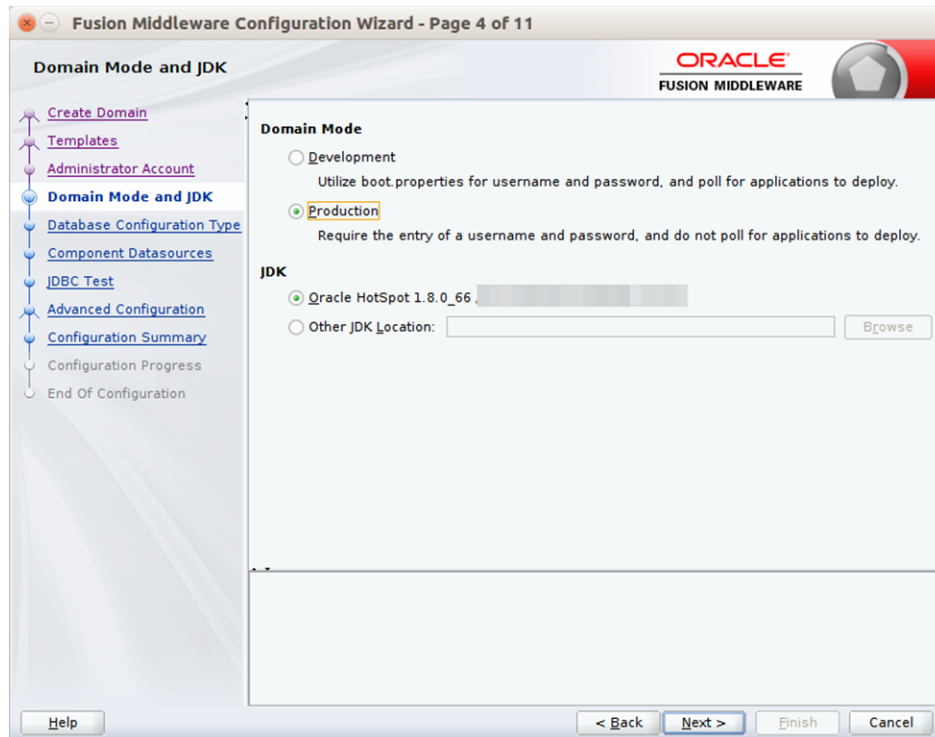
Select the Oracle JRF - 12.2.1.2 [oracle_common], Oracle Enterprise Manager [em], and Oracle WSM Policy Manager - 12.2.1.2.0 [oracle_common] check boxes.



3. Click Next. The Administrator Account window appears. Enter the user credentials you want to use to log in to the WebLogic Administration Console.

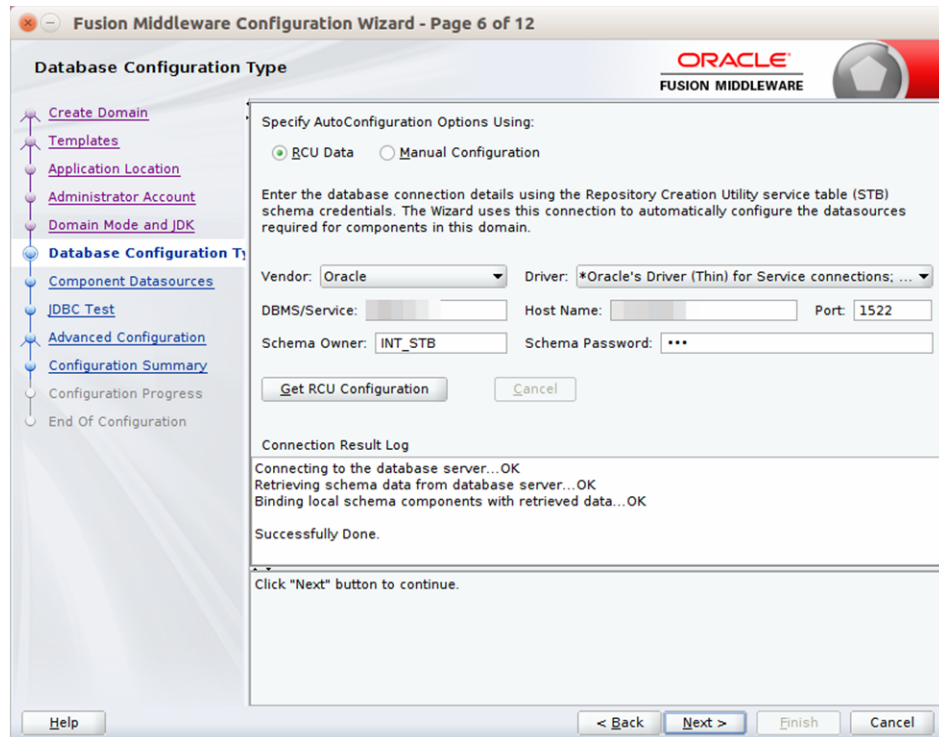


4. Click Next. The Domain Mode and JDK window appears. Set the Domain Mode as Production and select the JDK version (JDK 1.8 with the latest security updates) you want to use.

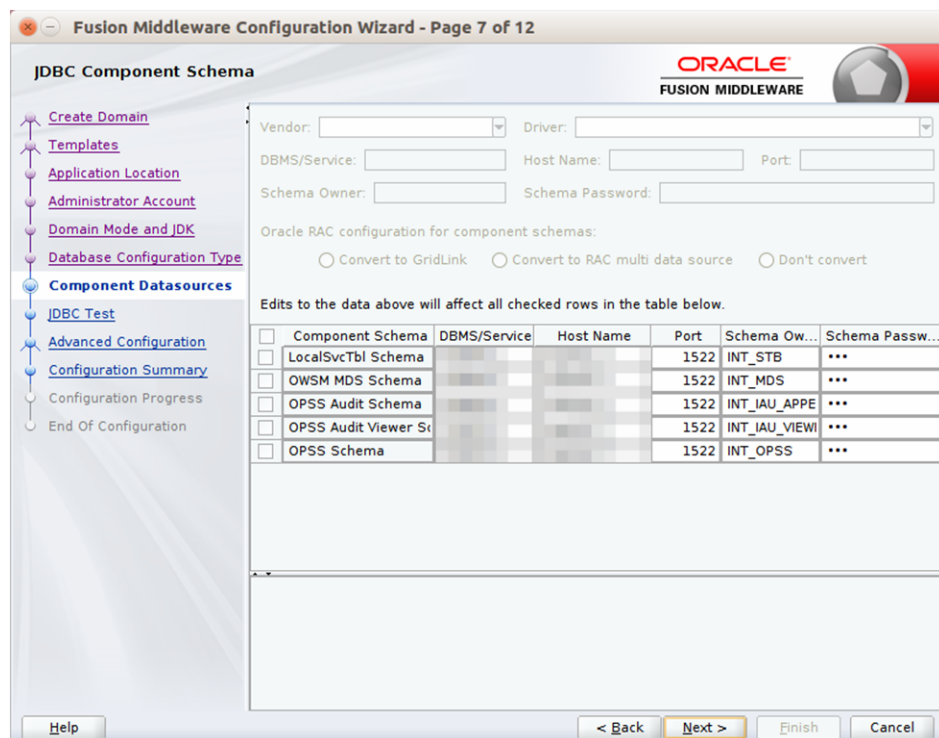


5. Click Next. The Database Configuration Type window displays.
 - a. Select the RCU Data radio button.
 - b. Select Oracle as the Vendor.
 - c. Select Oracle's Driver (Thin) for Service connections; Version 9.0.1 and later as the Driver.
 - d. Enter the Service, Host Name, Port, Schema Owner, and Schema Password for the *_STB schema created using RCU.
 - e. Click Get RCU Configuration.

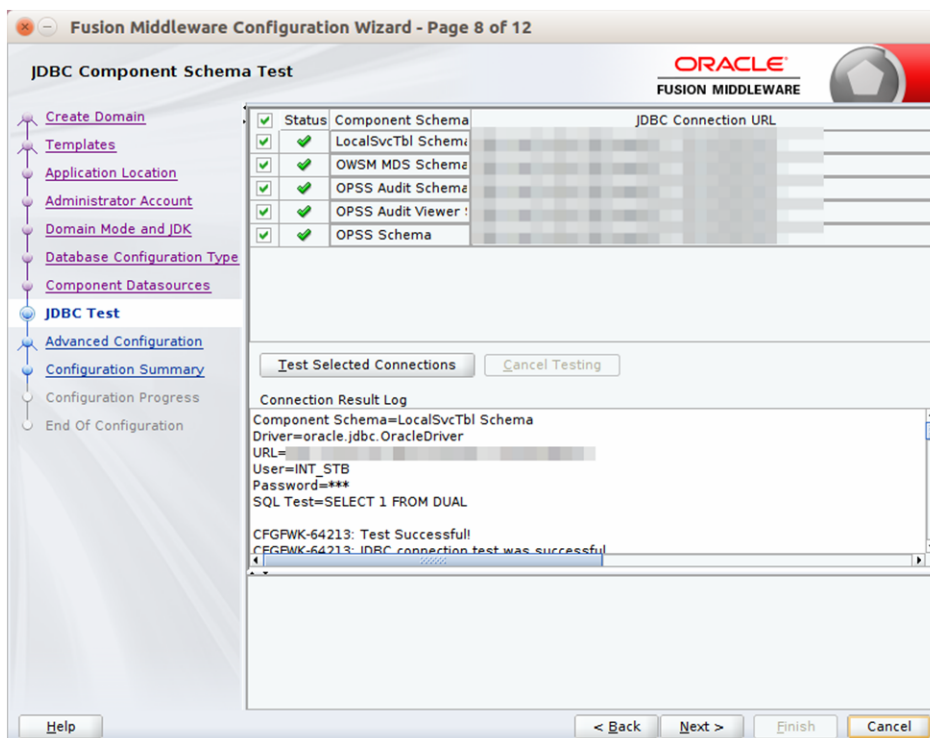
The Connection Result Log displays the connection status.



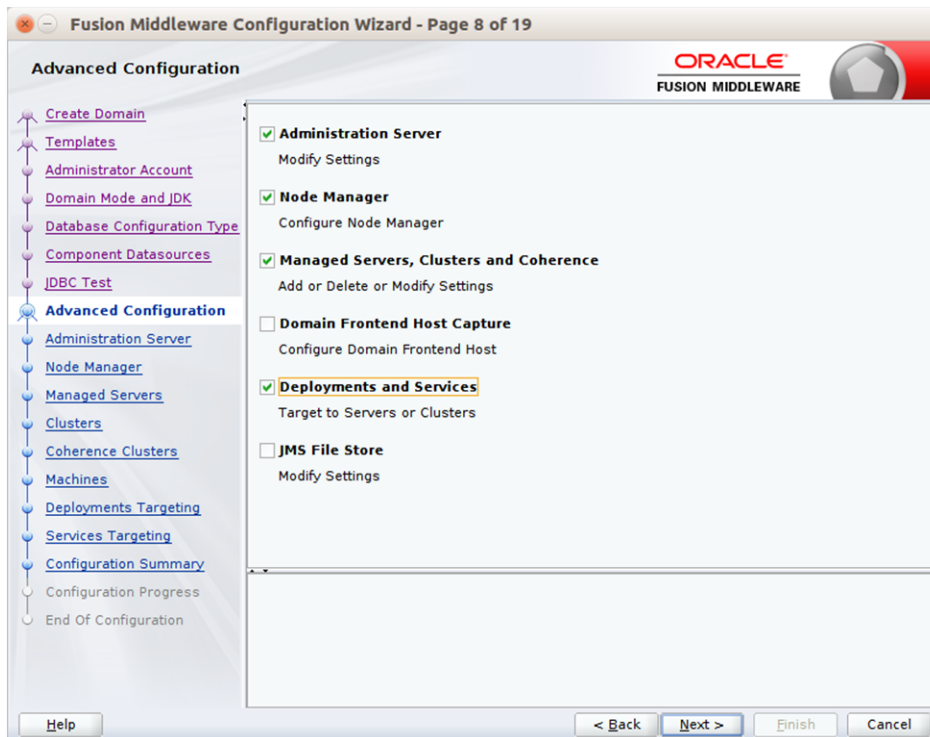
6. Click Next. The JDBC Component Schema window appears.



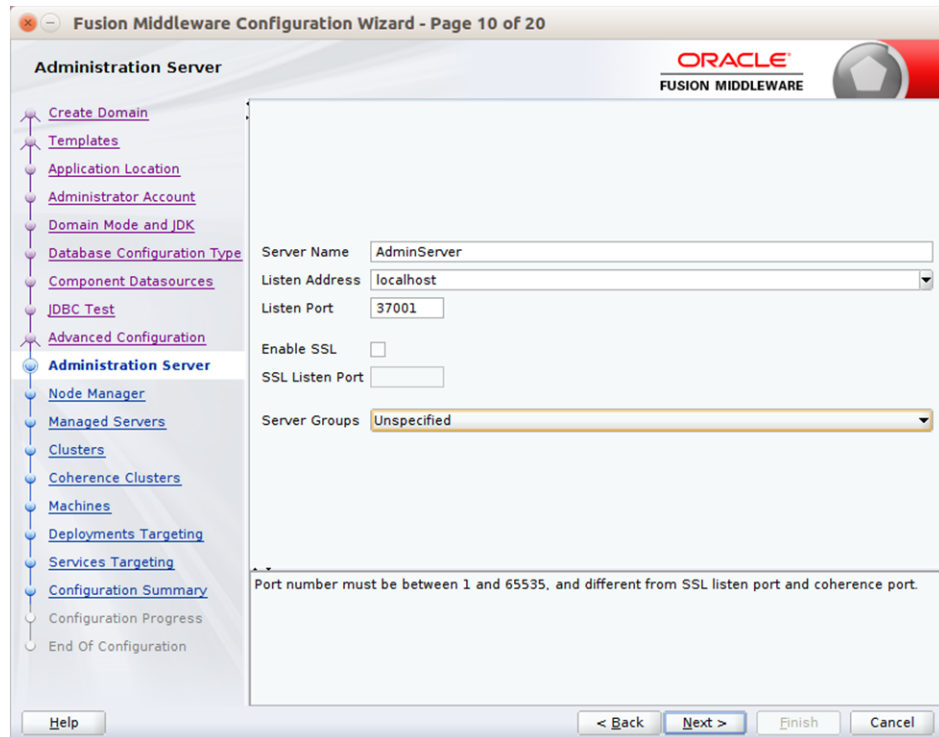
7. Click Next. The JDBC Component Schema Test window displays the status on whether the JDBC tests on the schemas were successful.



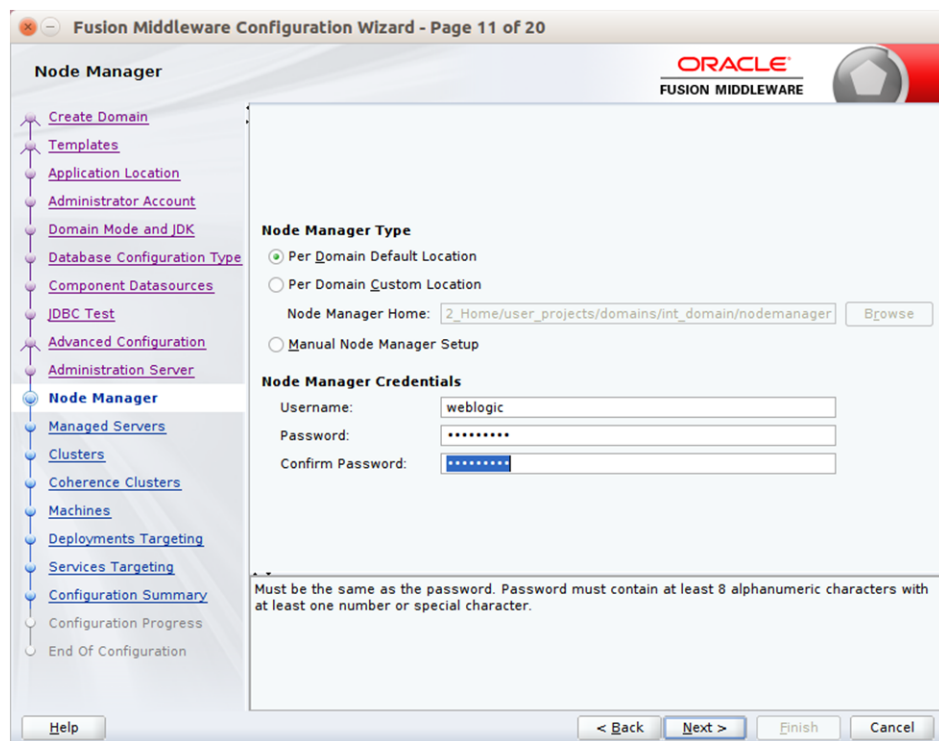
- Click Next. The Advanced Configuration window displays. Select all the checkboxes, except Domain Frontend Host Capture and JMS File Store options, in this window.



- Click Next. The Administration Server window appears. Enter the Listen Address and the Listen Port details.

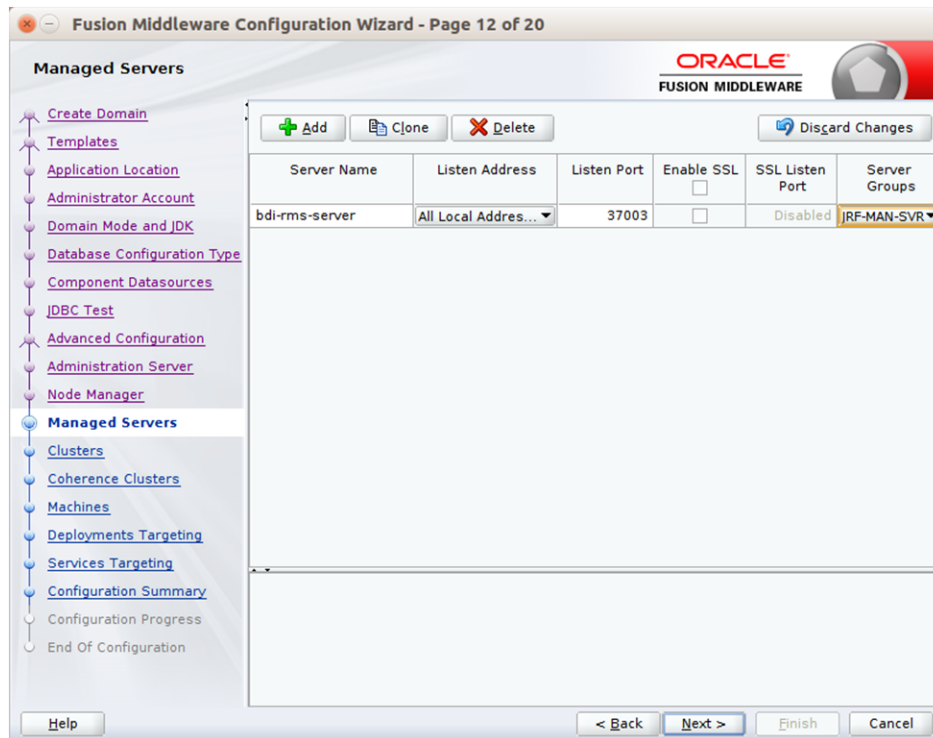


10. Click Next. The Node Manager window appears. Select the Node Manager Type and enter the Node Manager Credentials.



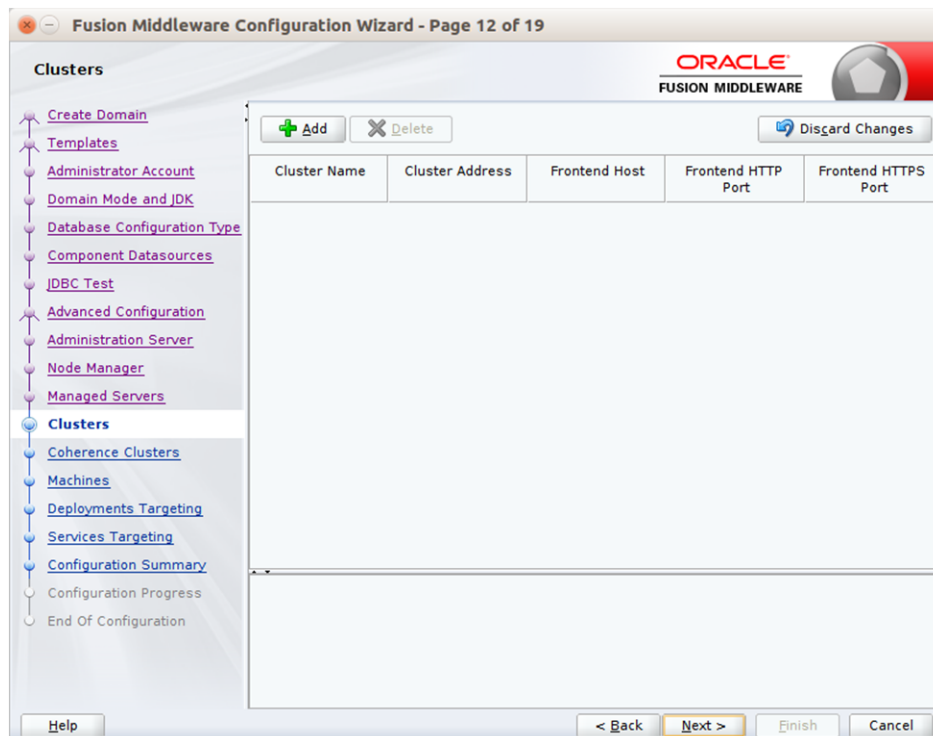
11. Click Next. The Managed Servers window appears.
 - a. Click Add to add a managed server on which you will deploy the application.

- b. Enter the Server Name, Listen Address, and Listen Port for the managed server.
- c. Set the Server Groups to JRF-MAN-SVR.

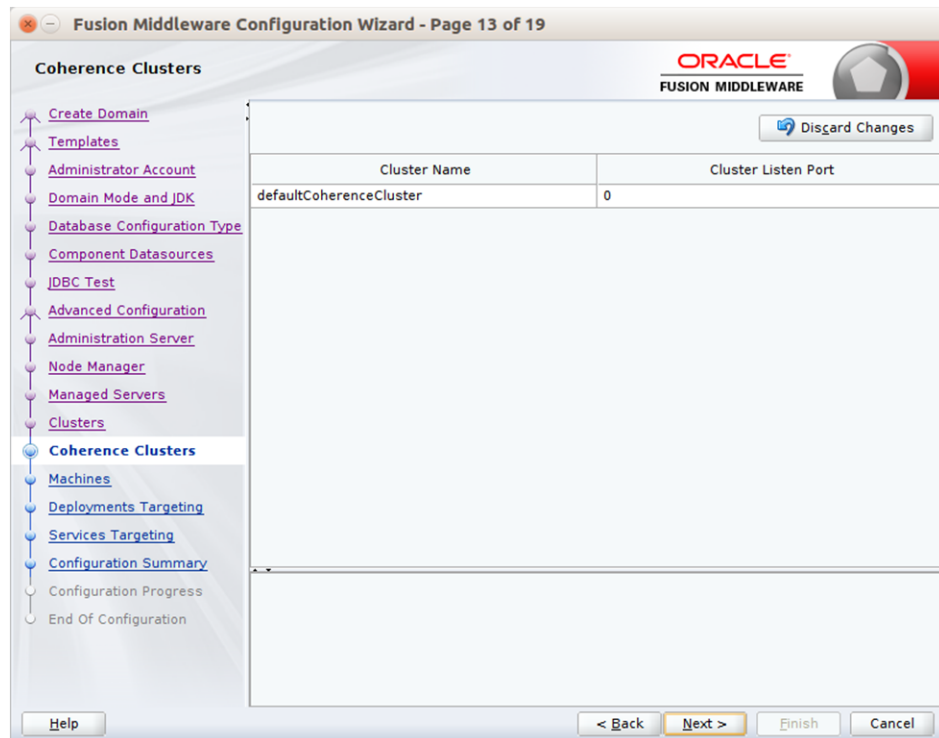


12. Click Next. The Clusters window appears.

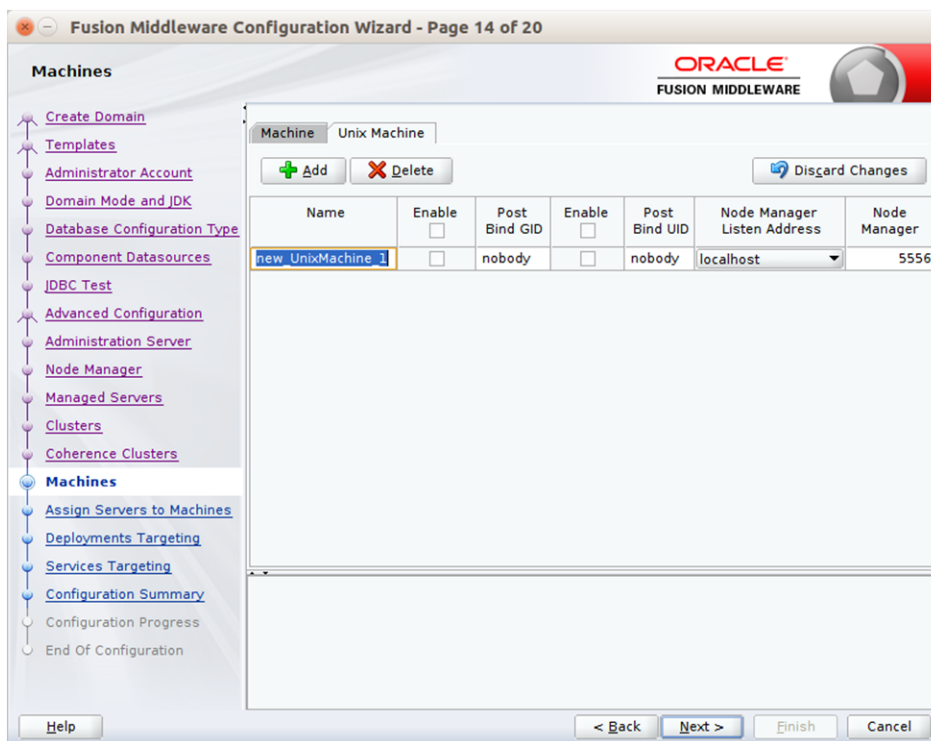
- a. Click Add to add a cluster. This is an optional step in the procedure.



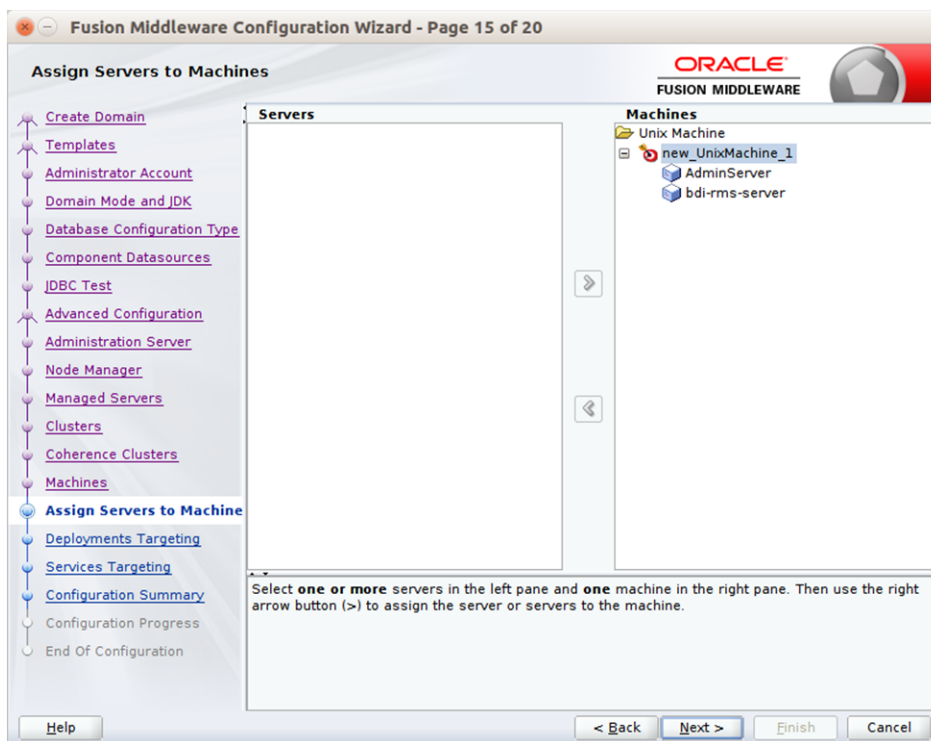
13. Click Next. The Coherence Clusters window appears.
 - a. Add a coherence cluster. This is an optional step in the procedure.



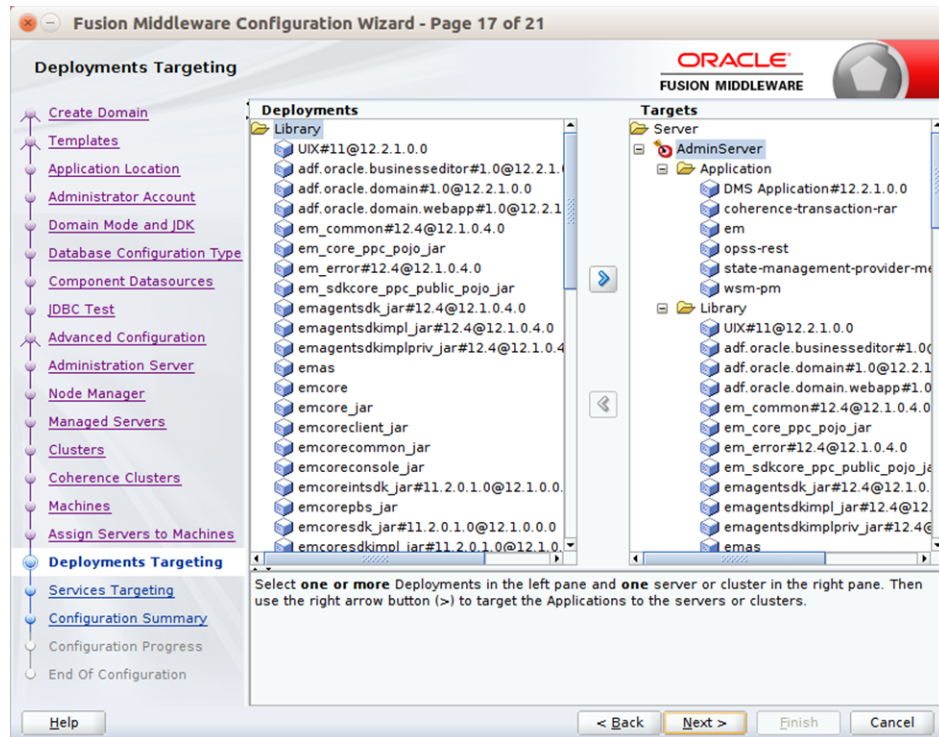
14. Click Next. The Machine window appears.
 - a. Click Add.
 - b. Enter the Name and the Node Manager Listen Address for the managed server.



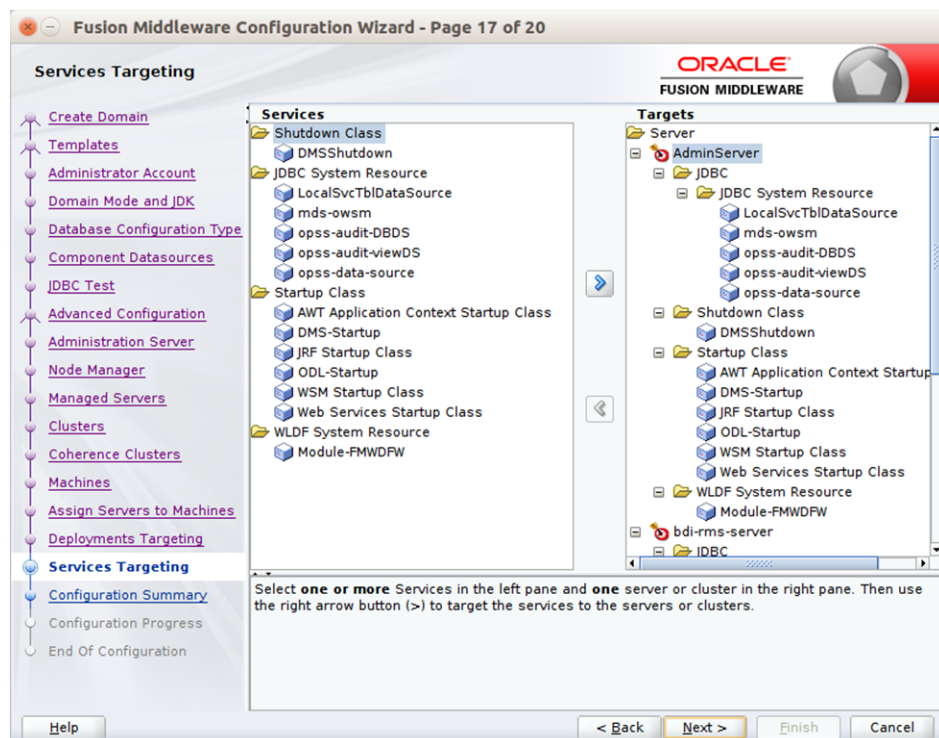
15. Click Next. The Assign Servers to Machines window appears. Add the Admin Server and the managed server to the computer.



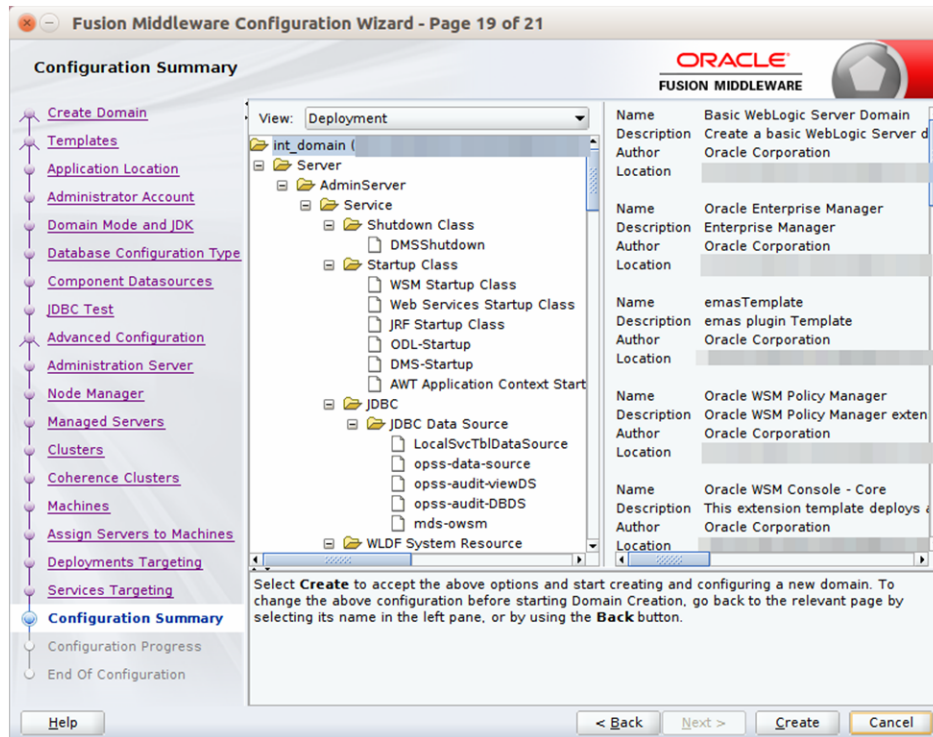
16. Click Next. The Deployments Targeting window appears. Select wsm-pm from Deployments and add it to Admin Server in Targets.



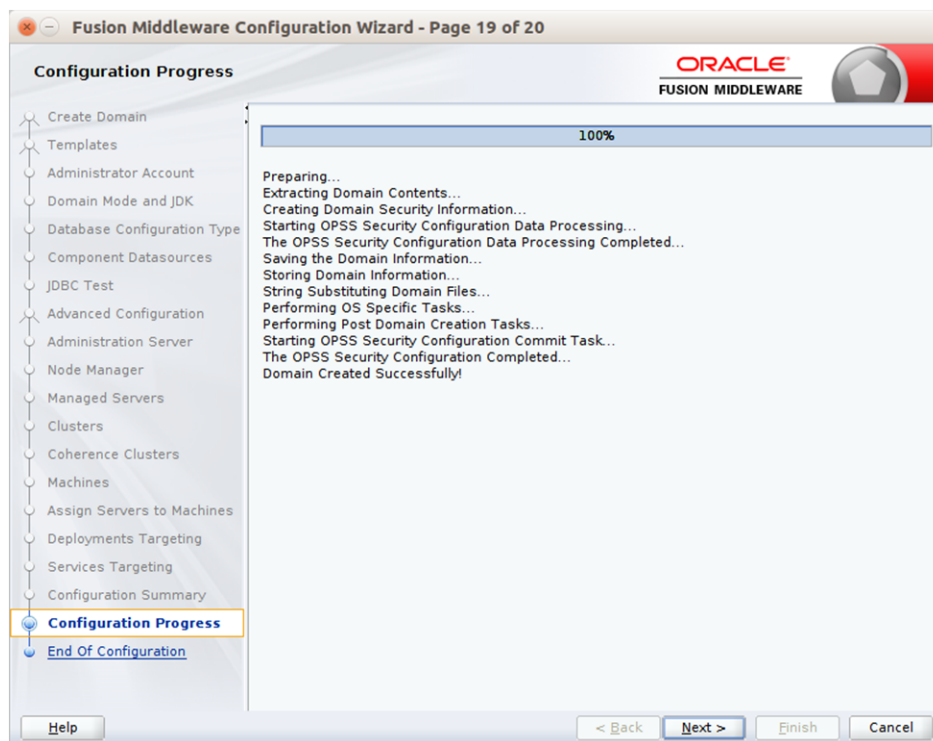
17. Click Next. The Services Targeting window appears.



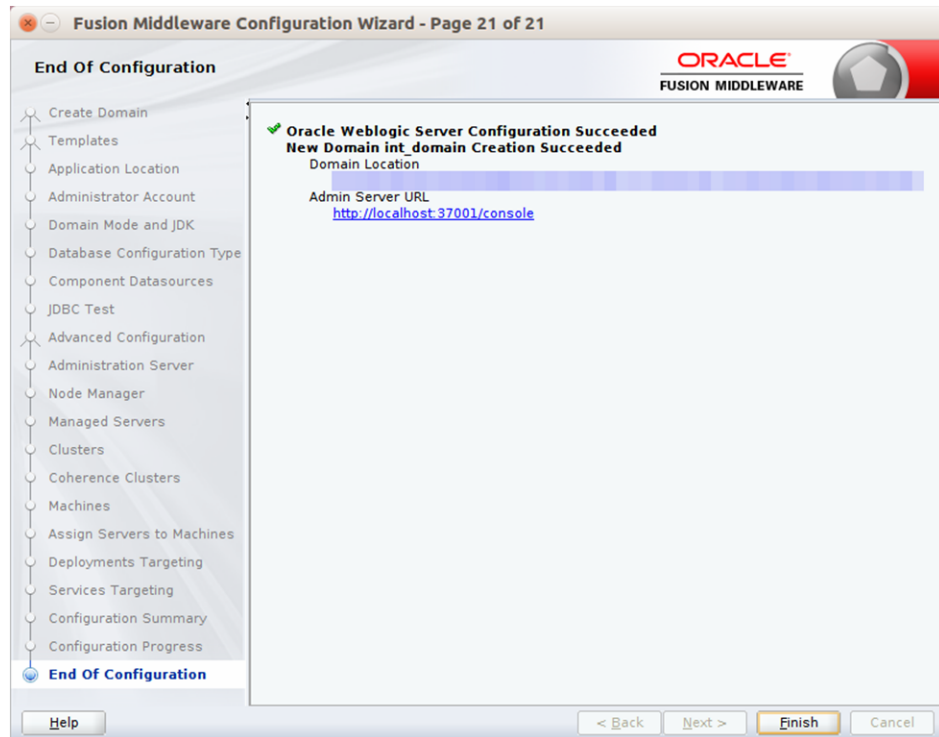
18. Click Next. The Configuration Summary window appears. Verify that all information described in this window is accurate.



19. Click Create. The Configuration Progress window displays a message when the domain is created successfully.



20. Click Next. The Configuration Success window displays the Domain Location and Admin Server URL once the configuration is complete.



21. Click Finish to complete creating the WebLogic domain and managed servers.

22. Add the following security policy to \$ORACLE_HOME/wlserver/server/lib/weblogic.policy file.

```
grant codeBase "file:/<DOMAIN_HOME>/-" {
  permission java.security.AllPermission;
  permission oracle.security.jps.service.credstore.CredentialAccessPermission
"credstoessp.credstore", "read,write,update,delete";
  permission oracle.security.jps.service.credstore.CredentialAccessPermission
"credstoessp.credstore.*", "read,write,update,delete";
};
```

23. Set JTA timeout to 43200.

- a. Log in to Admin console
- b. Click on the domain name
- c. Select the JTA tab and change the timeout value to 43200.

Deploying BDI Batch Job Administration Applications for Edge Applications

Before starting the installation procedure, identify the retail applications that are in-scope for this installation. BDI requires at least 2 applications in-scope, a sender app and a receiver app. Each bdi-app must be deployed on it's own WebLogic managed server. Depending on the site specific deployment topology, create separate WebLogic domains OR managed servers to host the BDI apps in-scope.

Note: Repeat the procedures in this chapter for installing other applications that are in-scope.

Deploying BDI Batch Job Admin Applications for a Sender Application

This section describes the installation process for a sender app with the BDI-RMS app as an example.

Preparing the Database for BDI Batch Job Admin for RMS Installation

Before you begin installing BDI RMS Batch Job Admin, make sure you have the database schema created for BDI RMS Batch Job Admin.

Preparing the WebLogic Domain for BDI Batch Job Admin for RMS

1. Use the instructions provided in [Chapter 4, "Deploying BDI Batch Job Administration Applications for Edge Applications"](#) to install WebLogic 12.2.1.2 and create a domain.
2. Start the Admin and managed servers.

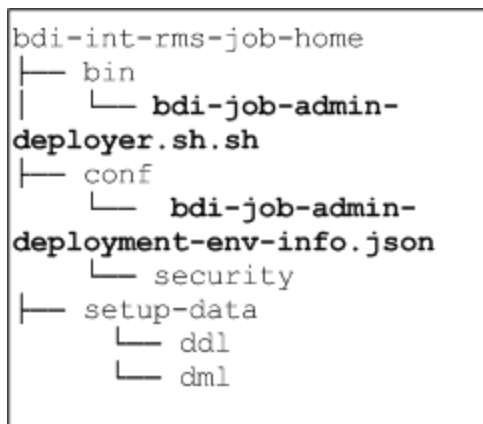
Deploying BDI RMS Batch Job Admin on the WebLogic

To deploy the BDI RMS Batch Job Admin war, take the following steps.

1. Download `BdiIntJobAdminPak16.0.0ForRms16.0.0_eng_ga.zip` to `$BDI_HOME`.
2. Unzip the downloaded archive. The Bdi Job home directory will be created under the current directory.

```
unzip BdiIntJobAdminPak16.0.0ForRms16.0.0_eng_ga.zip
```

This command extracts the archive. The relevant directories for the installation are shown (There are more directories than what is shown).



3. Edit the rms job configuration file to point to deployment environment (conf/bdi-job-admin-deployment-env-info.json) as follows:

```

cd bdi-int-rms-job-home/conf
vi bdi-job-admin-deployment-env-info.json

```

4. Provide the following values in the JSON file.

Configuration Property	Description
BdiRmsJobAdminDataSource -> jdbcUrl	The JDBC URL for the Oracle database where the RMS integration schema resides.
BdiRmsReceiverServiceDataSource -> jdbcUrl	The JDBC URL for the Oracle database where the RMS integration schema resides. BdiRmsJobAdminDataSource and BdiRmsReceiverServiceDataSource can use the same jdbcUrl.
BatchInfraDataSource -> jdbcUrl	The JDBC URL for the schema created using RCU. The schema user is <prefix>_wls (e.g. INT_WLS). The value of prefix that you provided in schema creation using RCU.
JobAdminAppServer -> weblogicDomainName	The domain name where BDI RMS Admin app is deployed.
JobAdminAppServer->weblogicDomainHome	The domain path where BDIRMS Adminapp is deployed
JobAdminAppServer -> weblogicDomainAdminServerUrl	Admin Server URL of the BDI RMS Admin App - http://<Admin host>:<Admin port>
JobAdminAppServer->weblogicDomainAdminServerProtocol	AdminServer protocol which is by default t3, For SSL deployment update to t3s.
JobAdminAppServer -> weblogicDomainAdminServerHost	Host Name of the BDI RMS Admin Server
JobAdminAppServer -> weblogicDomainAdminServerPort	BDI RMS Admin Server Port
JobAdminAppServer -> weblogicDomainTargetManagedServerName	Managed Server Name where BDI RMS Admin App is installed (e.g. bdi-rms-server)
JobAdminAppServer -> jobAdminUiUrl	Job Admin URL of BDI RMS http://<host>:<managed server port>/bdi-rms-batch-job-admin

Configuration Property	Description
RxmJobAdminAppServer -> jobAdminUiUrl	Job Admin URL of BDI RXM http://<host>:<rxm managed server port>/bdi-rxm-batch-job-admin
SimJobAdminAppServer -> jobAdminUiUrl	Job Admin URL of BDI SIM http://<host>:<sim managed server port>/bdi-sim-batch-job-admin

Note: The alias names in the configuration files should not be changed.

- Run the deployer script to create the data sources and deploy BDI RMS Batch Job Admin.

```
cd bdi-int-rms-job-home/bin
bdi-job-admin-deployer.sh -setup-credentials -deploy-job-admin-app
```

```
/bdl-home1/bdi-rms-home/bin$ bdi-job-admin-deployer.sh
log4j:WARN No appenders could be found for logger (com.oracle.retail.integration.common.security.credential.CredentialStoreManager).
log4j:WARN Please initialize the log4j system properly.

USAGE: JobAdminDeployer SECURITY_OPTION TASK_ACTION
       JobAdminDeployer [-setup-credentials|-use-existing-credentials] -deploy-job-admin-app

SECURITY_OPTION           : One of the following SECURITY options must be used.
  -setup-credentials      : Setup AppServer and DB user/password and save to wallet.
                          : Edit the bdi-job-admin-deployment-env-info.json config file before setting up credentials.
  -use-existing-credentials : Use previously setup AppServer and DB user/passwords from wallet.

TASK_ACTION               : The following TASK_ACTION option must be used.
  -deploy-job-admin-app   : Configures WebLogic Server and deploy the job-admin application.

/bdl-home1/bdi-rms-home/bin$ bdi-job-admin-deployer.sh -setup-credentials -deploy-job-admin-app
```

- Enter the values prompted by the script for following credentials aliases. JobAdmin user has more privileges (e.g change configuration and run jobs from JobAdmin UI) than JobOperator user. JobOperator can run batch jobs where as JobMonitor has just read privileges.

Alias	Description
bdiAppServerAdminServerUserAlias	WebLogic admin server credentials
bdiJobAdminUiUserAlias	Credentials for Admin Role user for Job Admin app
bdiJobOperatorUiUserAlias	Credentials for Operator Role user for Job Admin app
bdiJobMonitorUiUserAlias	Credentials for Monitor Role user for Job Admin app
bdiJobAdminDataSourceUserAlias	Credentials for the Data Source of the Job Admin Schema
bdiRmsReceiverServiceDataSourceUserAlias	Credentials for the Data Source of the Job Receiver Schema
batchInfraDataSourceUserAlias	Credentials for the Data Source of the Batch Infra Schema
rxmJobAdminBaseUrlUserAlias	BDI RXM job admin app credentials
simJobAdminBaseUrlUserAlias	BDI SIM job admin app credentials

Note: If you have already configured the credentials and can use the same credentials (typically when redeploying the app), you can run the deployer with the `-use-existing-credentials` option as follows, and you will not be prompted for the credentials again for the deployment.

```
bdi-job-admin-deployer.sh -use-existing-credentials
                        -deploy-job-admin-app
```

7. Deployer script deploys BDI RMS Batch Job Admin to the managed server.
8. Restrict access to the `bdi-int-rms-job-home` folder:

```
cd bdi-int-rms-job-home
chmod -R 700 .
```

Testing the Deployment

After you deploy to the server successfully, BDI RMS Batch Job Admin can be accessed using the following URL:

`http://<server>:<port>/bdi-rms-batch-job-admin`

Log in using credentials provided during the installation and verify that jobs are displayed in the Manage Batch Jobs tab and configuration is displayed in the Manage Configurations tab.

Job Name	Family	Instance Id	Execution Id	Start Time	Status
DiffGrp_Fnd_DownloaderAndTransporterToRmJob	DiffGrp	10190	10212	Thu Nov 10 23:18:56 PST 2016	COMPLETED
Store_Fnd_DownloaderAndTransporterToRmJob	Store	10176	10198		COMPLETED
Diff_Fnd_DownloaderAndTransporterToRmJob	Diff	10164	10186		COMPLETED
StoreAddr_Fnd_DownloaderAndTransporterToRmJob	StoreAddr	10152	10174	Thu Nov 10 23:00:02 PST 2016	COMPLETED
RelatedItem_Fnd_DownloaderAndTransporterToRmJob	RelatedItem	10127	10149	Thu Nov 10 22:50:02 PST 2016	COMPLETED
Diff_Fnd_DownloaderAndTransporterToRmJob	Diff	10113	10135	Thu Nov 10 22:39:02 PST 2016	COMPLETED
MerchHier_Fnd_DownloaderAndTransporterToRmJob	MerchHier	10098	10120	Thu Nov 10 22:20:02 PST 2016	COMPLETED
ItemLoc_Fnd_DownloaderAndTransporterToRmJob	ItemLoc	10081	10103	Thu Nov 10 21:50:02 PST 2016	COMPLETED
Diff_Fnd_DownloaderAndTransporterToRmJob	Diff	10069	10091	Thu Nov 10 21:47:48 PST 2016	COMPLETED
ItemHdr_Fnd_DownloaderAndTransporterToRmJob	ItemHdr	10056	10076	Thu Nov 10 21:40:02 PST 2016	COMPLETED
InvAvailWeb	InvAvailWeb	10044	10064		COMPLETED

Creating Outbound Interface tables for BDI RMS

1. Go to the `$BDI_HOME/bdi-int-rms-job-home/setup-data/ddl` folder.
2. Run the DDL provided in this folder in the BDI RMS database schema.
3. DDL generates interface tables and PL/SQL packages.

Deploying BDI Batch Job Admin Application for a Receiver Application

This section describes the installation process for a receiver app with the BDI-RXM app as an example.

Preparing the Database for BDI RXM Batch Job Admin Installation

Before you begin installing BDI RXM Batch Job Admin, make sure you have the database schema created for BDI RXM Batch Job Admin.

Preparing the WebLogic Domain for BDI Batch Job Admin for RXM

1. Use the instructions provided above to install WebLogic 12.2.1.2 and create a domain.
2. Start the Admin and managed servers.

Deploying BDI RXM Batch Job Admin on the WebLogic

To deploy the BDI RXM Batch Job Admin war, take the following steps.

1. Download BdiIntJobAdminPak16.0.0ForRxm16.0.0_eng_ga.zip to \$BDI_HOME.
2. Unzip the downloaded archive. The BDI Job home directory will be created under the current directory.

```
unzip BdiIntJobAdminPak16.0.0ForRxm16.0.0_eng_ga.zip
```

This command extracts the archive. The relevant directories for the installation are shown (There are more directories than what is shown).

```
bdi-int-rxm-job-home
├── bin
│   └── bdi-job-admin-
│       └── deployer.sh.sh
├── conf
│   └── bdi-job-admin-
│       └── deployment-env-info.json
│           └── security
├── setup-data
│   ├── ddl
│   └── dml
```

3. Edit bdi-job-admin-deployment-env-info.json as follows:

```
cd bdi-int-rxm-job-home/conf
vi bdi-job-admin-deployment-env-info.json
```

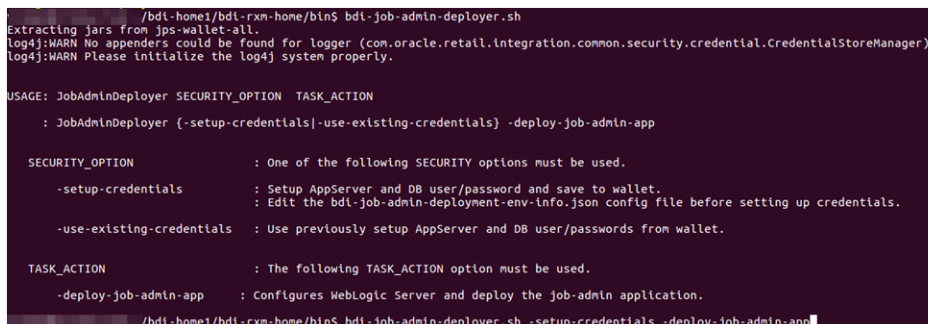
4. Provide the following values in the JSON file.

Configuration Property	Description
BdiRxmJobAdminDataSource ->jdbcUrl	The JDBC URL for the Oracle database where the RXM integration schema resides.

Configuration Property	Description
BdiRxmReceiverServiceDataSource -> jdbcUrl	The JDBC URL for the Oracle database where the RXM integration schema resides. BdiRxmJobAdminDataSource and BdiRxmReceiverServiceDataSource can use the same jdbcUrl.
BatchInfraDataSource -> jdbcUrl	The JDBC URL for the schema created using RCU. The schema user is <prefix>_wls (e.g. INT_WLS). The value of prefix that you provided in schema creation using RCU.
JobAdminAppServer -> weblogicDomainName	The domain name where BDI RXM Admin app is deployed
JobAdminAppServer -> weblogicDomainHome	The domain home directory of WebLogic where BDI RXM Admin app is deployed
JobAdminAppServer -> weblogicDomainAdminServerUrl	Admin Server URL of the BDI RXM Admin App - http://<Admin host>:<Admin port>
JobAdminAppServer->weblogicDomainAdminServerProtocol	AdminServer protocol which is by default t3, For SSL deployment update to t3s.
JobAdminAppServer -> weblogicDomainAdminServerHost	Host Name of the BDI RXM Admin Server
JobAdminAppServer -> weblogicDomainAdminServerPort	BDI RXM Admin Server Port
JobAdminAppServer -> weblogicDomainTargetManagedServerName	Managed Server Name where BDI RXM Admin App is installed (e.g. bdi-rxm-server)
JobAdminAppServer -> jobAdminUiUrl	Job Admin URL of BDI RXM http://<host>:<bdi rxm managed server port>/bdi-rxm-batch-job-admin
RmsJobAdminAppServer -> jobAdminUiUrl	Job Admin URL of BDI RMS http://<host>:<bdi rms managed server port>/bdi-rms-batch-job-admin

- Run the deployer script to create the data sources and deploy BDI RXM Batch Job Admin.

```
cd bdi-int-rxm-job-home/bin
bdi-job-admin-deployer.sh -setup-credentials -deploy-job-admin-app
```



- Enter the values prompted by the script for the following credential aliases. JobAdmin user has more privileges(e.g change configuration and run jobs from

JobAdmin UI) than JobOperator user. JobOperator can run batch jobs where as JobMonitor has just read privileges.

Alias	Description
bdiAppServerAdminServerUserAlias	WebLogic admin server credentials
bdiJobAdminUiUserAlias	Credentials for Admin Role user for Job Admin app
bdiJobOperatorUiUserAlias	Credentials for Operator Role user for Job Admin app
bdiJobMonitorUiUserAlias	Credentials for Monitor Role user for Job Admin app
bdiJobAdminDataSourceUserAlias	Credentials for the Data Source of the Job Admin Schema
bdiRxmReceiverServiceDataSourceUserAlias	Credentials for the Data Source of the Job Receiver Schema
batchInfraDataSourceUserAlias	Credentials for the Data Source of the Batch Infra Schema
rmsJobAdminBaseUrlUserAlias	BDI RMS job admin app credentials

Note: If you have already configured the credentials and can use the same credentials (typically when redeploying the app), you can run the deployer with the `-use-existing-credentials` option as follows, and you will not be prompted for the credentials again for the deployment.

```
bdi-job-admin-deployer.sh -use-existing-credentials
-deploy-job-admin-app
```

7. Deployer script deploys BDI RXM Batch Job Admin to the server.
8. Restrict access to the `bdi-int-rxm-job-home` folder:

```
cd bdi-int-rms-job-home
chmod -R 700 .
```

Testing the Deployment

After you deploy to the server successfully, the BDI RXM Batch Job Admin can be accessed using the following URL:

```
http://<server>:<port>/bdi-rxm-batch-job-admin
```

Log in using credentials provided during the installation and verify that jobs are displayed in the Manage Batch Jobs tab and configuration is displayed in the Manage Configurations tab.

System Summary

Batch Application BDI-RXM	System Health 🟡	Total Jobs 24	Total Executions 687	Total Successful Executions 616	Total Failed Executions 71
------------------------------	--------------------	------------------	-------------------------	------------------------------------	-------------------------------

Latest Job Executions

Job Name	Family	Instance Id	Execution Id	Start Time	Status
Diff_Fnd_UploaderJob	Diff	7600	7880		COMPLETED
Diff_Fnd_ReceiverCleanupJob	Diff	7599	7879		COMPLETED
Diff_Fnd_ReceiverCleanupJob	Diff	7597	7877		COMPLETED
Diff_Fnd_UploaderJob	Diff	7586	7866		COMPLETED
Diff_Fnd_ReceiverCleanupJob	Diff	7585	7865	Thu Nov 17 09:52:11 EST 2016	COMPLETED
Diff_Fnd_ReceiverCleanupJob	Diff	7583	7863		COMPLETED
Diff_Fnd_UploaderJob	Diff	7572	7852		COMPLETED
Diff_Fnd_ReceiverCleanupJob	Diff	7571	7851		COMPLETED
Diff_Fnd_UploaderJob	Diff	7559	7839	Thu Nov 17 09:36:56 EST 2016	COMPLETED
Diff_Fnd_UploaderJob	Diff	7546	7826		COMPLETED
DiffGro_Fnd_UploaderJob	DiffGro	7521	7801	Thu Nov 17 09:02:38 EST 2016	COMPLETED

Creating Inbound Interface tables for BDI RXM

1. Go to \$BDI_HOME/bdi-int-rxm-job-home/setup-data/ddl folder.
2. Run the DDL provided in this folder in the BDI RXM database schema.
3. DDL generates the inbound interface tables for RXM.

Process Flow Installation

Prerequisites

The Process Flow application has the same tech stack requirements mentioned in the beginning of this document for JDK, WebLogic domain, and database. Before installing the Process Flow application install the following infrastructure components for the application.

- A WebLogic domain with JRF for the application
- A database schema for the Process Flow application

The recommended java VM memory setting for the Process Flow application domain is:

```
-Xms1024m -Xmx2048m
```

Install the Process Flow Application

Perform the following procedure to install the Process Flow application:

1. Download the process flow archive `BdiProcessFlow16.0.0ForAll16.x.xApps_eng_ga.zip`
2. Unzip the downloaded archive. The Process Home directory will be created under the current directory.

```
unzip BdiProcessFlow16.0.0ForAll16.x.xApps_eng_ga.zip
```

This command extracts the archive. The relevant directories for the installation are shown below (There are more directories than what is shown).

```

bdi-process-home
├── bin
│   └── bdi-process-flow-admin-deployer.sh
├── conf
│   ├── bdi-process-flow-admin-deployment-env-info.json
│   └── security
└── setup-data
    ├── ddl
    ├── dml
    ├── dsl
    └── available_process_flow_options
        ├── rms_external-no_split_flows
        ├── rms_rxm-no_split_flows
        ├── rms_sim-no_split-flows
        ├── rms_sim_rxm-receiver_side_split_flows
        ├── rms_sim_rxm-sender_side_split_flows
        └── flows-in-scope

```

3. Modify process flow configuration file(`conf/bdi-process-flow-admin-deployment-env-info.json`) to match the deployment environment. While you can change many values to match your requirements, here is a table of a minimum set of configuration values that you need to modify for process flow application.

Note: The alias names in the configuration files should not be changed.

Configuration Field	Description
ProcessFlowAdminDataSource ->jdbcUrl	JDBC URL for the process flow schema. Change this value to match the environment
ProcessFlowAdminDataSource ->weblogicDomainName	Name of the WebLogic domain where the process flow application is deployed
ProcessFlowAdminDataSource ->weblogicDomainHome	WebLogic Domain home directory
ProcessFlowAdminAppServer- > weblogicDomainProtocol	WebLogic admin server protocol is by default t3, if SSL configured then update to t3s.
ProcessFlowAdminDataSource ->weblogicDomainAdminServerUrl	WebLogic Admin server URL
ProcessFlowAdminDataSource ->weblogicDomainAdminServerHost	Host name of WebLogic Admin Server
ProcessFlowAdminDataSource ->weblogicDomainAdminServerPort	WebLogic admin server port
ProcessFlowAdminDataSource ->weblogicDomainTargetManagedServerName	Managed Server name where Process Flow is hosted
ProcessFlowAdminDataSource ->processFlowAdminUiUrl	Process Flow admin app URL. Update only the host and port

Configuration Field	Description
RmsJobAdminAppServer-->jobAdminUiUrl	BDI RMS job admin URL
SimJobAdminAppServer-->jobAdminUiUrl	BDI SIM job admin URL
RxmJobAdminAppServer-->jobAdminUiUrl	BDI RXM job admin URL
RmsAppJobAdminAppServer -> jobAdminUiUrl	RMSAPP job admin URL
RxmAppJobAdminAppServer -> jobAdminUiUrl	RXMAPP job admin URL
SimAppJobAdminAppServer -> jobAdminUiUrl	SIMAPP job admin URL

- Determine which flows are in scope for your deployment. Copy the flows from `bdi-process-home/setup-data/dsl/available_process_flow_options` to `bdi-process-home/setup-data/dsl/flows-in-scope`.

For example, for integration between only RMS and RXM, the `rms_rxm-no_split_flows` files would be copied:

```
cp bdi-process-home/setup-data/dsl/available_process_flow_options/rms_rxm-no-split-flows/* bdi-process-home/setup-data/dsl/flows-in-scope/.
```

- Run the deployer. Make sure that the WebLogic server is running before issuing the following command.

```
cd bin
bdi-process-flow-admin-deployer.sh -setup-credentials
-deploy-process-flow-admin-app
```

The process flow deployer will prompt for username and password for the following credential aliases:

Alias	Description
<code>bdiAppServerAdminServerUserAlias</code>	WebLogic admin server credentials
<code>processFlowAdminBaseUrlUserAlias</code>	Credentials for Admin Role user for Process Flow Admin app
<code>processFlowOperatorBaseUrlUserAlias</code>	Credentials for Operator Role user for Process Flow Admin app
<code>processFlowMonitorBaseUrlUserAlias</code>	Credentials for Monitor Role user for Process Flow Admin app
<code>bdiProcessFlowAdminDataSourceUserAliases</code>	Credentials for the Data Source of the Process Flow Schema
<code>rmsJobAdminBaseUrlUserAlias</code>	BDI RMS job admin app credentials
<code>rxmJobAdminBaseUrlUserAlias</code>	BDI RXM job admin app credentials
<code>simJobAdminBaseUrlUserAlias</code>	BDI SIM job admin app credentials
<code>rmsappJobAdminBaseUrlUserAlias</code>	RMS APP job admin credentials
<code>rxmappJobAdminBaseUrlUserAlias</code>	RXM APP job admin credentials
<code>simappJobAdminBaseUrlUserAlias</code>	SIM APP job admin credentials

Note: If you have already configured various credentials required for process flow, you can run the deployer with the following syntax. It will not ask the credentials again for the deployment.

```
bdi-process-flow-admin-deployer.sh -use-existing-credentials
-deploy-process-flow-admin-app
```

6. Make sure the deployment step shows deployment success message at the end.
7. Restrict access to the bdi-process-home folder:

```
cd bdi-process-home
chmod -R 700 .
```

Verify Installation

If the process flow app is successfully deployed, you should be able to access the application at the URL `http://<host>:<port>/bdi-process-flow/`. The following is a sample screenshot of the process flow application. Make sure all the tabs of the application are properly displayed.



See the *Oracle Retail Bulk Data Integration Implementation Guide* for the operation details of the Process Flow application.

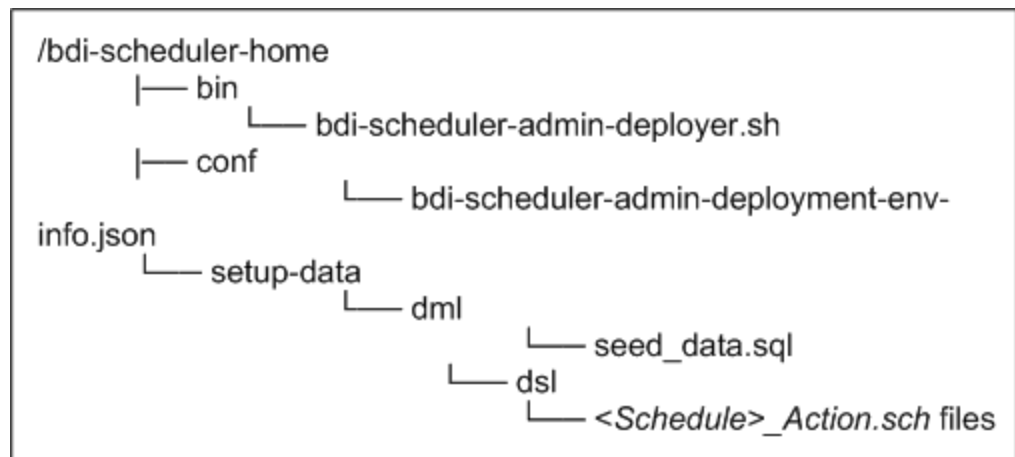
BDI Batch Scheduler Installation

Installation Prerequisites

The BDI Batch Scheduler supports the same tech stack and platform specifications as given in prior section in this installation guide. The following infrastructure is required for Scheduler application installation.

Preparing for Installation

- Before starting the installation, make sure a database schema has been created for the Scheduler application.
- Ensure that the WebLogic server where the scheduler application will be deployed is up and running.
- Download the BDI scheduler installer archive:
BdiScheduler16.0.0ForAll16.x.xApps_eng_ga.zip
- Unzip/extract the archive to a target directory to run the installer. The bdi-scheduler-home directory will be created under the target directory with the artifacts.
- The following is part of the directory structure and artifacts that are extracted from the archive (not the complete list shown below).



Note: Any seed data schedule definition can be edited if required using the seed_data.sql file. To add a new schedule at the time of deployment, edit seed_data.sql to include an insert statement for the new schedule definition and add the corresponding <ScheduleName>_Action.sch file in the /setup-data/dsl directory. For more details, refer to the *Oracle Retail Bulk Data Integration Implementation Guide*.

Deploying Scheduler Application

1. Edit bdi-scheduler-admin-deployment-env-info.json (in bdi-scheduler-home/conf directory) with corresponding values matching the target deployment environment. Update the values of the following configuration properties.

Configuration Property	Description
DataSourceDef -> SchedulerAdminDataSource -> jdbcUrl	JDBC URL of the scheduler database schema
MiddlewareServerDef -> SchedulerAdminAppServer -> weblogicDomainName	Name of the WebLogic domain where the scheduler application is deployed.
MiddlewareServerDef -> SchedulerAdminAppServer -> weblogicDomainHome	WebLogic Domain home directory.
MiddlewareServerDef->SchedulerAdminAppServer->weblogicDomainAdminServerProtocol	By default the protocol is t3 and if configured to SSL then update to t3s.
MiddlewareServerDef -> SchedulerAdminAppServer -> weblogicDomainAdminServerUrl	WebLogic Admin server URL. Example: t3://<serverHostName>:8001
MiddlewareServerDef -> SchedulerAdminAppServer -> weblogicDomainAdminServerHost	Host name of WebLogic Admin server.
MiddlewareServerDef -> SchedulerAdminAppServer -> weblogicDomainAdminServerPort	WebLogic Admin server port.
MiddlewareServerDef -> SchedulerAdminAppServer -> weblogicDomainTargetManagedServerName	Managed Server name where the Scheduler application is deployed.
MiddlewareServerDef -> SchedulerAdminAppServer -> schedulerAdminUiUrl	Scheduler Admin app URL. http://<serverHostName>:<managed server port>/bdi-scheduler
MiddlewareServerDef -> ProcessFlowAdminAppServer -> processFlowAdminUiUrl	BDI Process Flow app base URL. This URL will be used by the scheduler to connect to the process flow app to call process flows. Example: http://<serverHostName>:8001/bdi-process-flow

2. Run the deployer script from the bdi-scheduler-home/bin directory. Use the -setup-credentials option to setup necessary credentials for the application and deploy.

bdi-scheduler-admin-deployer.sh -setup-credentials -deploy-scheduler-admin-app
 The deployer will prompt credentials for the following user aliases to be configured. Enter the corresponding username and password as required for each alias.

Alias Name	Description
bdiAppServerAdminServerUserAlias	WebLogic admin server credentials
bdiSchedulerAdminUiUserAlias	Credentials for the user with Admin Role for Scheduler Admin app
bdiSchedulerOperatorUiUserAlias	Credentials for the user with Operator Role for Scheduler Admin app
bdiSchedulerMonitorUiUserAlias	Credentials for the user with Monitor Role for Scheduler Admin app
bdiSchedulerAdminDataSourceUserAlias	Datasource credentials to connect to the Scheduler database schema
processFlowAdminBaseUrlUserAlias	Credentials of the process flow admin app

3. If you have already configured the credentials and can use the same credentials (typically when redeploying the app), you can run the deployer with the `-use-existing-credentials` option as follows, and you will not be prompted for the credentials again for the deployment.

```
bdi-scheduler-admin-deployer.sh -use-existing-credentials  
-deploy-scheduler-admin-app
```

4. Restrict access to the `bdi-scheduler-home` folder:

```
cd bdi-scheduler-home  
chmod -R 700 .
```

Verifying Installation

Perform the following procedure to verify the BDI Batch Scheduler installation:

1. Verify that the deployer script has run successfully with no error. The scheduler application would have been deployed to the target environment.
2. Launch the Scheduler admin app via the URL - `http://<host>:<port>/bdi-scheduler/`
3. Verify you are able to access the URL by logging in using the admin or operator role.
4. Verify that the list of schedules (created from seed data) is displayed in 'Manage Schedules' page of the app.
5. Ensure that all the schedules are in 'Active' status.
6. A schedule can be in 'Disabled' status if no schedule action is loaded for the corresponding schedule or if the schedule action contains any forbidden keyword. The user needs to correct the schedule action and enable the schedule. For more details on this, please refer to the *Oracle Retail Bulk Data Integration Implementation Guide*.

Schedule Id	Schedule Name	Schedule Group	Schedule Start	Schedule Frequency	Schedule Next Run	Schedule Status	Schedule End
1	CodeDetail_Fnd_From_RMS_Schedule	CodeDetail	Sat Mar 12 00:00:00 GMT-06:00 2016	Daily	Thu Sep 29 00:00:00 GMT-06:00 2016	Active	Never
2	CodeHead_Fnd_From_RMS_Schedule	CodeHead	Sat Mar 12 00:05:00 GMT-06:00 2016	Daily	Thu Sep 29 00:05:00 GMT-06:00 2016	Active	Never
3	DeliverySlot_Fnd_From_RMS_Schedule	DeliverySlot	Sat Mar 12 00:10:00 GMT-06:00 2016	Daily	Thu Sep 29 00:10:00 GMT-06:00 2016	Active	Never
4	Diff_Fnd_From_RMS_Schedule	Diff	Sat Mar 12 00:15:00 GMT-06:00 2016	Daily	Thu Sep 29 00:15:00 GMT-06:00 2016	Active	Never
5	DiffGrp_Fnd_From_RMS_Schedule	Diff	Sat Mar 12 00:20:00 GMT-06:00 2016	Daily	Thu Sep 29 00:20:00 GMT-06:00 2016	Active	Never

Enabling Email Notification Alerts

Scheduler can send email alerts upon success or failure of schedule executions as specified in the schedule definitions. The following configuration is required for Scheduler email notification.

Mail Session configuration in WebLogic, for scheduler email notification:

1. Go to the WebLogic Admin console of the environment where the scheduler app is deployed.
2. Navigate to Services -> Mail Sessions.
3. Select 'New' to create a new mail session.

4. Enter the following details:

Name: BdiSchedulerMailSession

JNDI name: mail/BdiSchedulerMailSession

Session Username: A valid email id, preferably email-id of an administrator.

Session password: The password for the above email id.

5. Enter the following in the JavaMail properties:

mail.smtp.ssl.enable=true

mail.smtp.auth=true

mail.smtp.ssl.trust=<company's smtp mail server host name>

mail.smtp.port=<mail server smtps port, typically is 465>

mail.transport.protocol=smtps

mail.smtp.host=<company's smtp mail server host name>

mail.from=<A valid email-id for 'from email address' when email is sent>

6. Click Next. In the Mail Session Targets, select the managed server where the scheduler application is deployed.
7. Finish creating the mail session.

Note: For more information on configuring Mail sessions on WebLogic, see the *Oracle® WebLogic Administrator's Guide 12c Release*.

Appendix: Installation Order

This section provides a guideline for the order in which the Oracle Retail applications should be installed. If a retailer has chosen to use only some of the applications, the order is still valid, less the applications not being installed.

Note: The installation order is not meant to imply integration between products.

Enterprise Installation Order

1. Oracle Retail Merchandising System (RMS), Oracle Retail Trade Management (RTM)
2. Oracle Retail Sales Audit (ReSA)
3. Oracle Retail Extract, Transform, Load (RETL)
4. Oracle Retail Warehouse Management System (RWMS)
5. Oracle Retail Invoice Matching (ReIM)
6. Oracle Retail Price Management (RPM)
7. Oracle Retail Allocation
8. Oracle Retail Mobile Merchandising (ORMM)
9. Oracle Retail Customer Engagement (ORCE)
10. Oracle Retail Xstore Office
11. Oracle Retail Xstore Point-of-Service, including Xstore Point-of-Service for Grocery, and including Xstore Mobile
12. Oracle Retail Xstore Environment
13. Oracle Retail EFTLink
14. Oracle Retail Store Inventory Management (SIM), including Mobile SIM
15. Oracle Retail Predictive Application Server (RPAS)
16. Oracle Retail Predictive Application Server Batch Script Architecture (RPAS BSA)
17. Oracle Retail Demand Forecasting (RDF)
18. Oracle Retail Category Management Planning and Optimization/Macro Space Optimization (CMPO/MSO)
19. Oracle Retail Replenishment Optimization (RO)

20. Oracle Retail Regular Price Optimization (RPO)
21. Oracle Retail Merchandise Financial Planning (MFP)
22. Oracle Retail Size Profile Optimization (SPO)
23. Oracle Retail Assortment Planning (AP)
24. Oracle Retail Item Planning (IP)
25. Oracle Retail Item Planning Configured for COE (IP COE)
26. Oracle Retail Advanced Inventory Planning (AIP)
27. Oracle Retail Integration Bus (RIB)
28. Oracle Retail Services Backbone (RSB)
29. Oracle Retail Financial Integration (ORFI)
30. Oracle Retail Bulk Data Integration (BDI)
31. Oracle Retail Integration Console (RIC)
32. Oracle Commerce Retail Extension Module (ORXM)
33. Oracle Retail Data Extractor for Merchandising
34. Oracle Retail Clearance Optimization Engine (COE)
35. Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO)
36. Oracle Retail Insights, including Retail Merchandising Insights (previously Retail Merchandising Analytics) and Retail Customer Insights (previously Retail Customer Analytics)
37. Oracle Retail Order Broker