

Oracle® Retail Integration Bus

Hospital Administration Guide

Release 14.0

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Glossary

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Oracle® Retail Integration Bus Hospital Administration Guide, Release 14.0.

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

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- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
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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 Integration Bus Hospital Administration Guide describes the application user interface and how to navigate through it.

Audience

This document is intended for the users and administrators of Oracle RIB Hospital Administration. This may include merchandisers, buyers, and business analysts.

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For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

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<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Related Documents

For more information, see the following documents in the Oracle Retail Integration Bus 14.0 documentation set:

- *Oracle Retail Integration Bus Implementation Guide*
- *Oracle Retail Integration Bus Installation Guide*
- *Oracle Retail Integration Bus Operations Guide*
- *Oracle Retail Integration Bus Release Notes*
- *Oracle Retail Integration Bus Security Guide*
- *Oracle Retail Integration Bus Support Tools Guide*
- *Oracle Retail Integration Bus Integration Guide*
- *Oracle Retail Functional Artifacts Guide*
- *Oracle Retail Service-Oriented Architecture Enabler Tool Guide*
- *Oracle Retail Integration Bus Data Model*

- *Oracle Retail PL-SQL Payload Mapper Guide (ID 1590674.1)*

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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, 14.0) or a later patch release. If you are installing the base release, additional patch, and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

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

(Data Model documents are not available through Oracle Technology Network. These documents are packaged with released code, or you can obtain them through My Oracle Support.)

Documentation should be available on this Web site within a month after a product release.

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.
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 Integration Bus Hospital Administration or RIB Hospital Administration (RIHA) is a tool to manage RIB messages in the RIB hospital error tables.

Using RIHA you can search for hospital records, stop a message from being retried, retry a message for which maximum system-set retries have been tried, and delete a message from the tables. You can insert new records into hospital tables. You can also update existing hospital records and message payloads.

RIHA should be installed only after core RIB components have been installed and verified.

Using RIHA is the recommended way to perform all RIB Hospital error table operations.

Installation and Setup

The RIHA installation chapter widely focuses on ADF 11g runtime installation and deploying the tool's EAR file. 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 prerequisite, preparing the WebLogic server, creating a WebLogic domain, verifying installation of ADF runtime libraries, extending an existing domain to add ADF run-time libraries, and deploying the EAR file. It also describes the security setup guidelines.

Note: The screen captures included in the following procedures are for example only. Because these procedures must be followed for each application, valid values will vary. Therefore, consider the illustrations as guides only; the values shown may not always apply.

Installation Prerequisite

The RIB Hospital Administration(RIHA) requires Oracle WebLogic Server 11g (10.3.6) and built with JDK 1.7.0+ 64 bit, or JRockit 1.6 R28 build or later (64 bit for Linux and Solaris OS only).

Important: If there is an existing WebLogic 10.3.5 installation on the server, you must upgrade WebLogic 10.3.5 to WebLogic 10.3.6. All middleware components associated with WebLogic server 10.3.6 should be upgraded to 11.1.1.6.

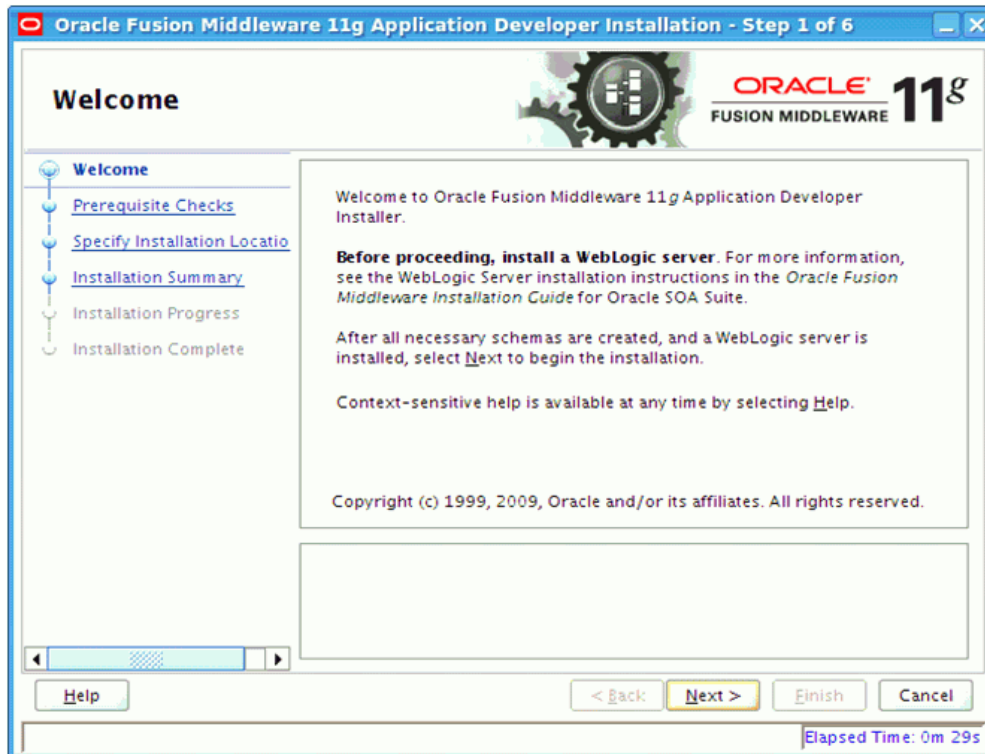
Back up the weblogic.policy file (\$WLS_HOME/wlserver_10.3/server/lib) before upgrading your WebLogic server, because this file could be overwritten. Copy over the weblogic.policy backup file after the WebLogic upgrade is finished and the post patching installation steps are completed.

For upgrading your WebLogic server to 10.3.6 use the Upgrade Installer (installers starting with the name wls1036_upgrade

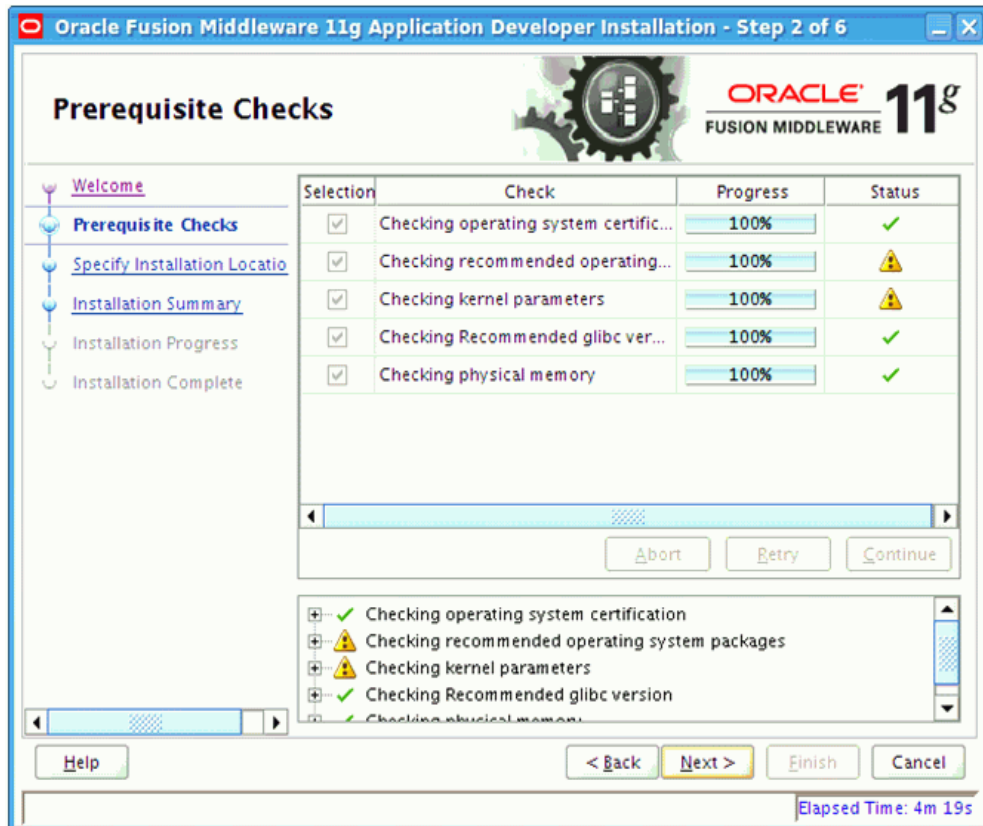
Prepare the WebLogic Server

To get the ADF runtime option while creating a domain, download the Application Development Runtime-11.1.1.6.0 from <http://www.oracle.com/technetwork/index.html>.

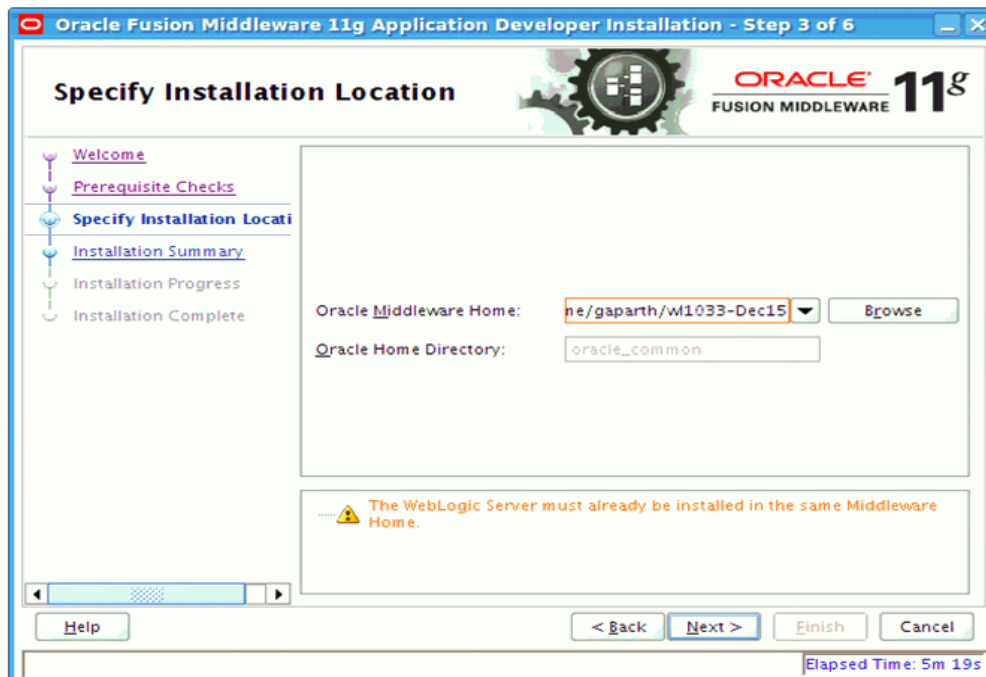
1. Unpack the downloaded Application Development Runtime-11.1.1.6.0 and run the installer. The Installer Welcome screen opens.



2. Click Next.
 - Installer performs the prerequisite checks and ensures all required prerequisites are met.

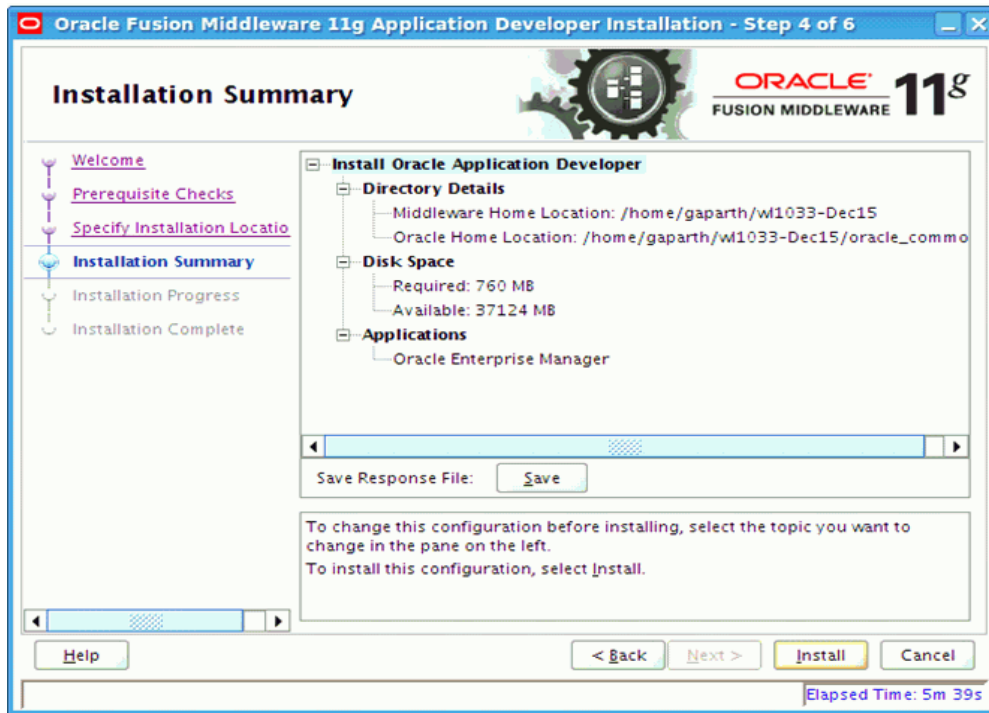


3. Click **Next**. The Specify Installation Location screen opens.

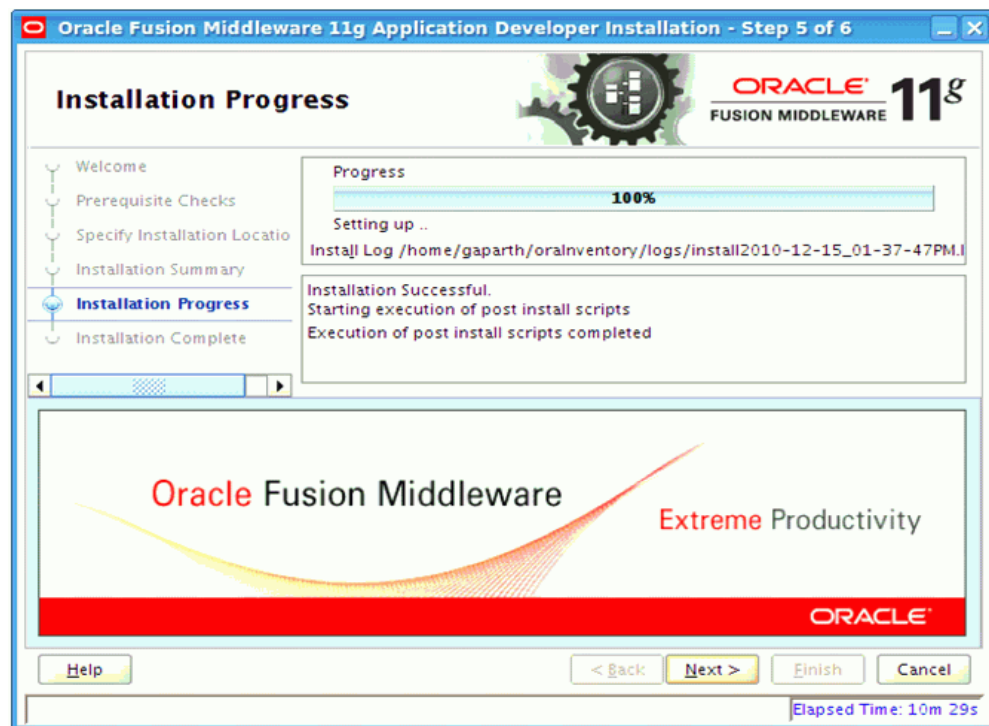


4. Select the Oracle Middleware Home from where the WebLogic server instance hosting RIHA applications will run.

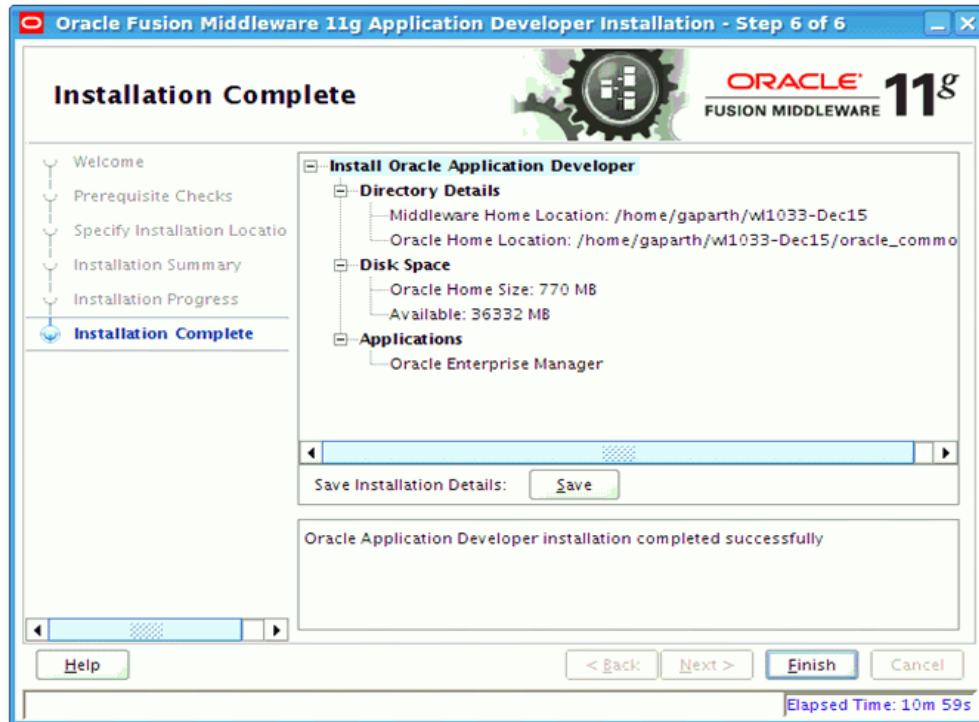
- Click **Next**. The Installation Summary screen opens.



- Click **Install**.
 - The installation progress is displayed.



- Click **Next**. The Installation Complete screen opens once the installation is complete.

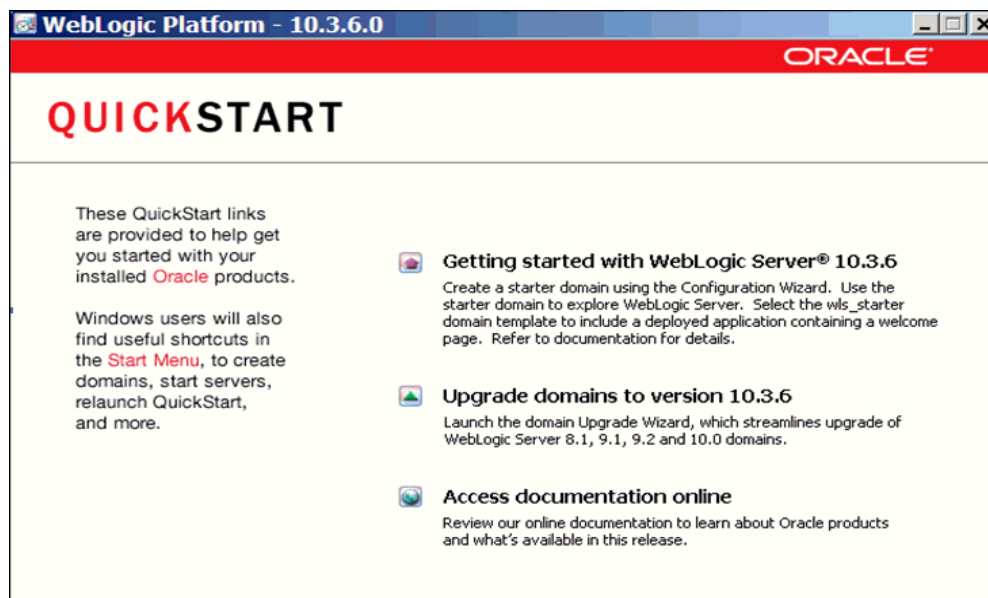


8. Click Finish.

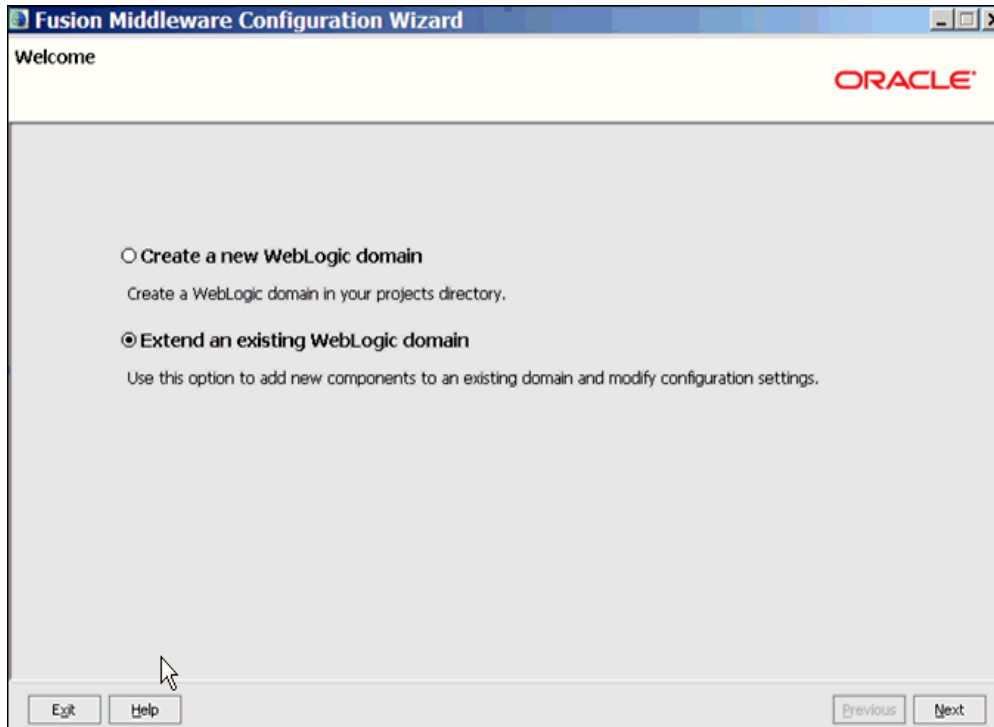
Creating a WebLogic Domain with ADF Runtime Libraries

This section describes the steps to create a new WebLogic domain with ADF runtime libraries.

1. Run quick start from the Oracle Middleware home located under Utils folder.
 - The WebLogic Platform Quick Start screen opens.



2. Select Getting started with WebLogic Server.
 - The Fusion Middleware Configuration Wizard opens.



3. Select **Create a new WebLogic domain**. The domain source window screen opens.



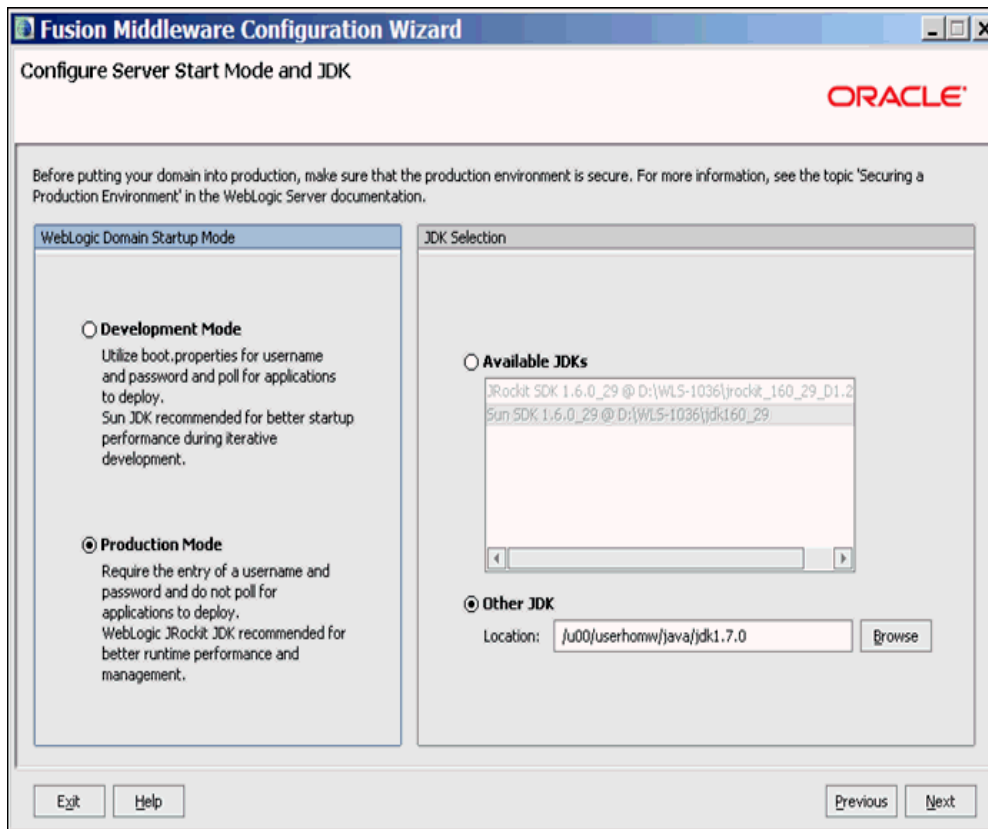
4. Select the Oracle JRF - 11.1.1.0 checkbox. Click **Next**.

The screenshot shows the 'Specify Domain Name and Location' step of the Fusion Middleware Configuration Wizard. The window title is 'Fusion Middleware Configuration Wizard' and the Oracle logo is in the top right. The main instruction is 'Enter the name and location for the domain:'. There are two input fields: 'Domain name:' with the text 'rha_domain' and 'Domain location:' with the text '\\u00userhome\WLS-1036\user_projects\domains'. A 'Browse' button is next to the domain location field. At the bottom, there are 'Exit', 'Help', 'Previous', and 'Next' buttons.

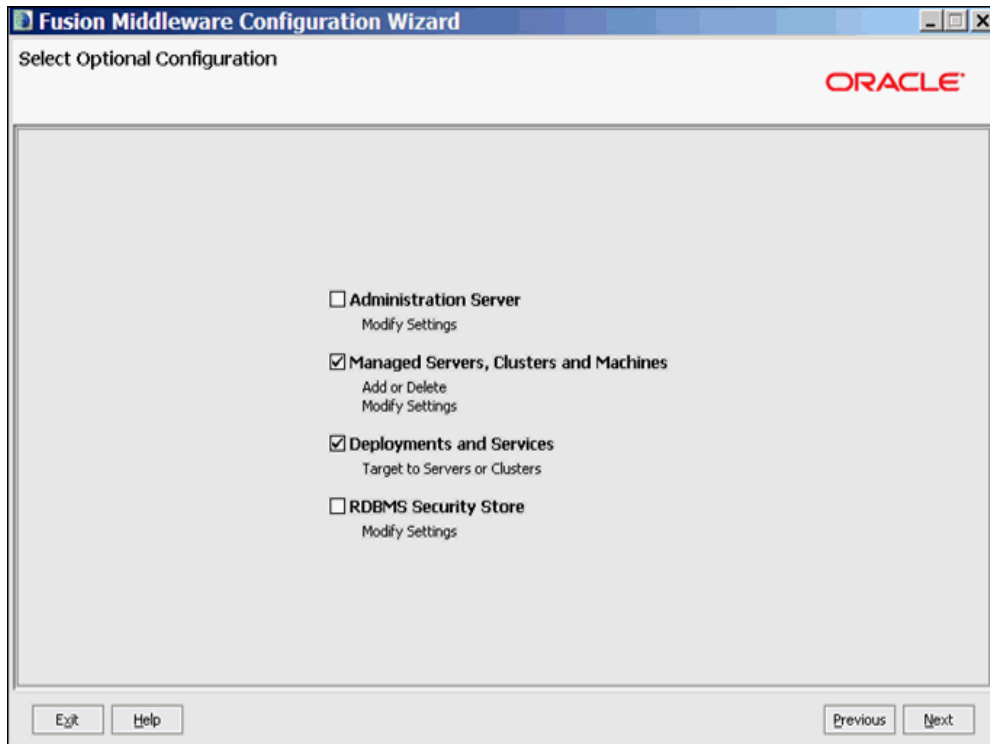
5. In the Domain name field, enter the domain name.
6. In the Domain location field, enter the domain location or click **Browse** to select a domain location.
7. Click **Next**.

The screenshot shows the 'Configure Administrator User Name and Password' step of the Fusion Middleware Configuration Wizard. The window title is 'Fusion Middleware Configuration Wizard' and the Oracle logo is in the top right. A 'Disard Changes' link is at the top left. There are four input fields: '*Name:' with 'weblogic', '*User password:' with '*****', '*Confirm user password:' with '*****', and 'Description:' with 'This user is the default administrator.'. At the bottom, there are 'Exit', 'Help', 'Previous', and 'Next' buttons.

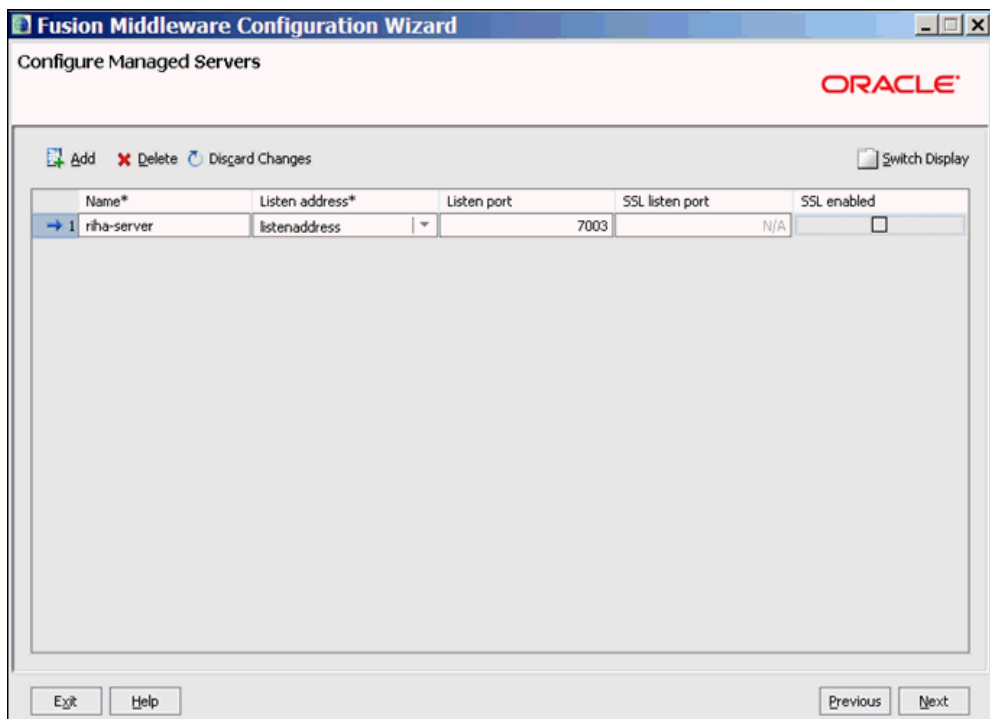
8. In the Name field, enter the user name.
9. In the User Password field, enter a password for the user.
10. In the Confirm user password field, enter the password again.
11. In the Description field, enter a description for the user (optional).
 - Click Discard Changes (above the Name field) to reset the fields.
12. Click **Next**. The server configuration screen opens.



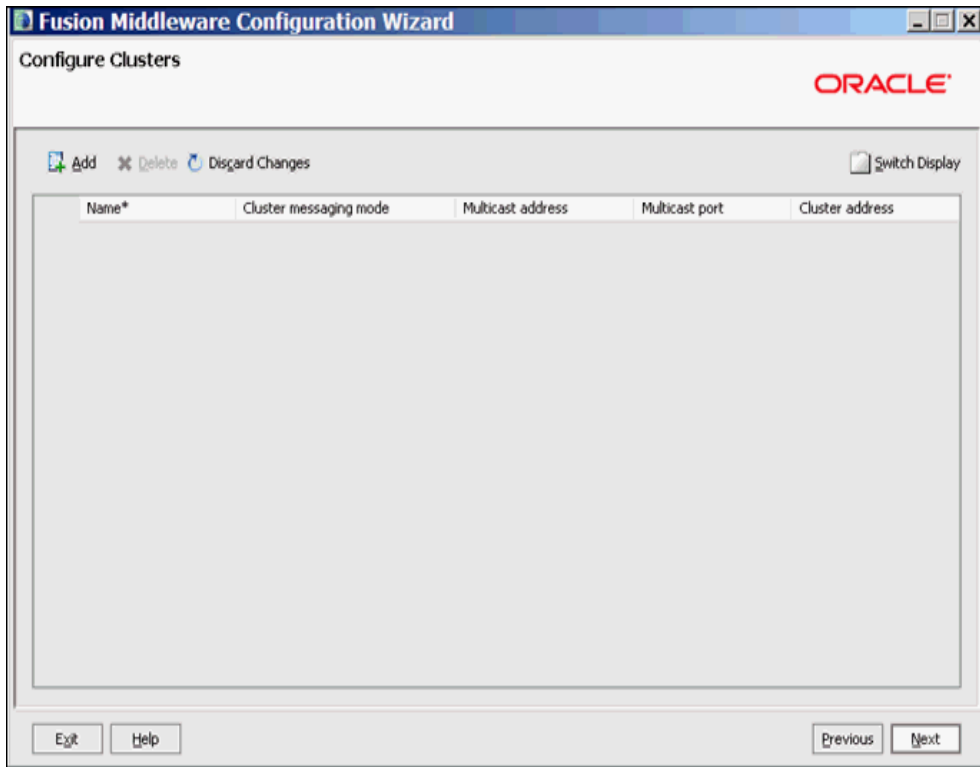
13. In the WebLogic Domain Startup Mode section, select Production Mode.
 - The available JDKs are listed in the JDK Selection section.
14. Select a JDK from the available JDKs.
 - Click Other JDK to browse and select a JDK of your choice.
15. Click **Next**. The Select Optional Configuration screen opens.



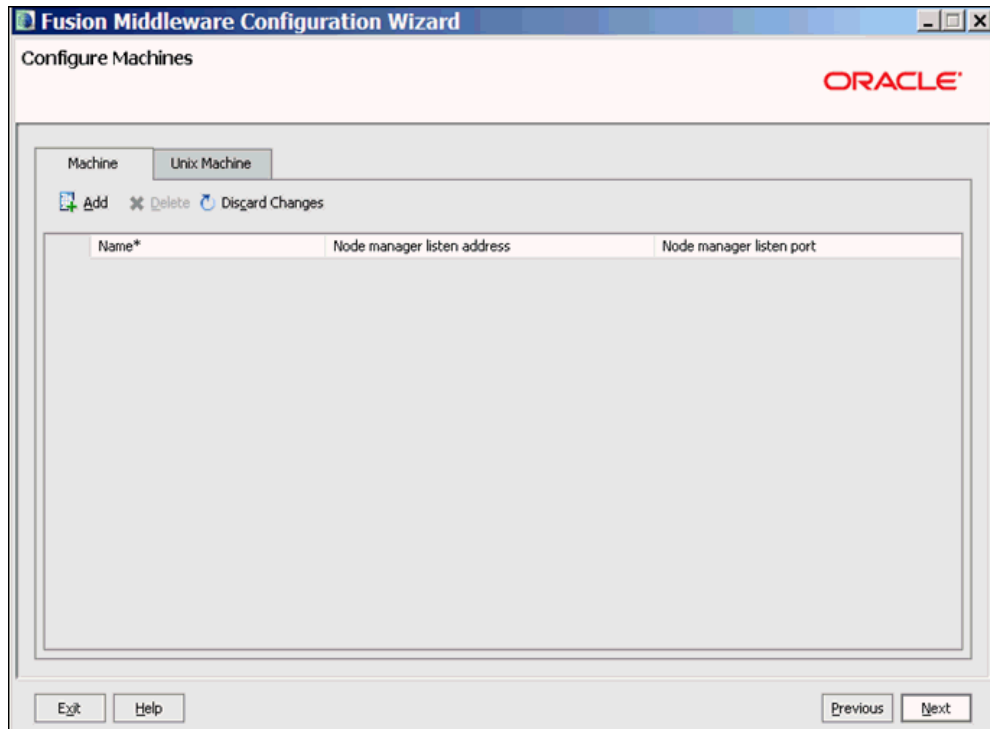
16. Select the Managed Servers, Clusters and Machines checkbox to add a managed server for the domain.
17. Select the Deployments and Services checkbox to add ADF runtime libraries to the managed server for the domain.
18. Click **Next**. The Configure Managed Servers screen opens.



19. Click **Add** to add a managed server and edit the name and ports of the managed server.
20. Click **Next**. The Configure Clusters screen opens.

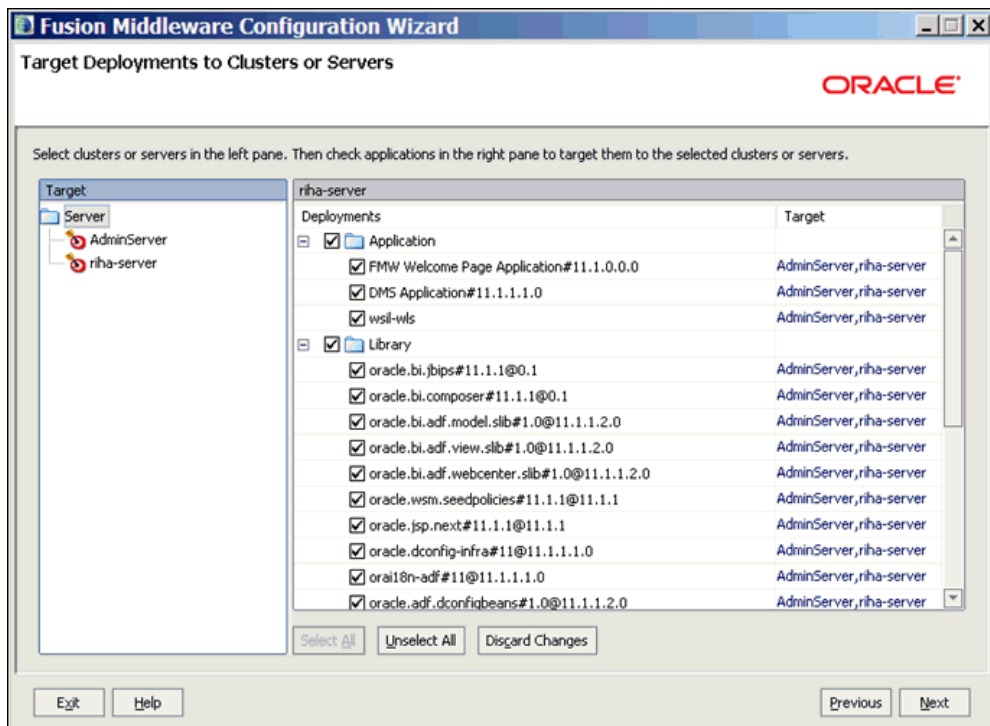


21. Click **Add** and configure the clusters if needed.
22. Click **Next**. The Configure Machines screen opens.



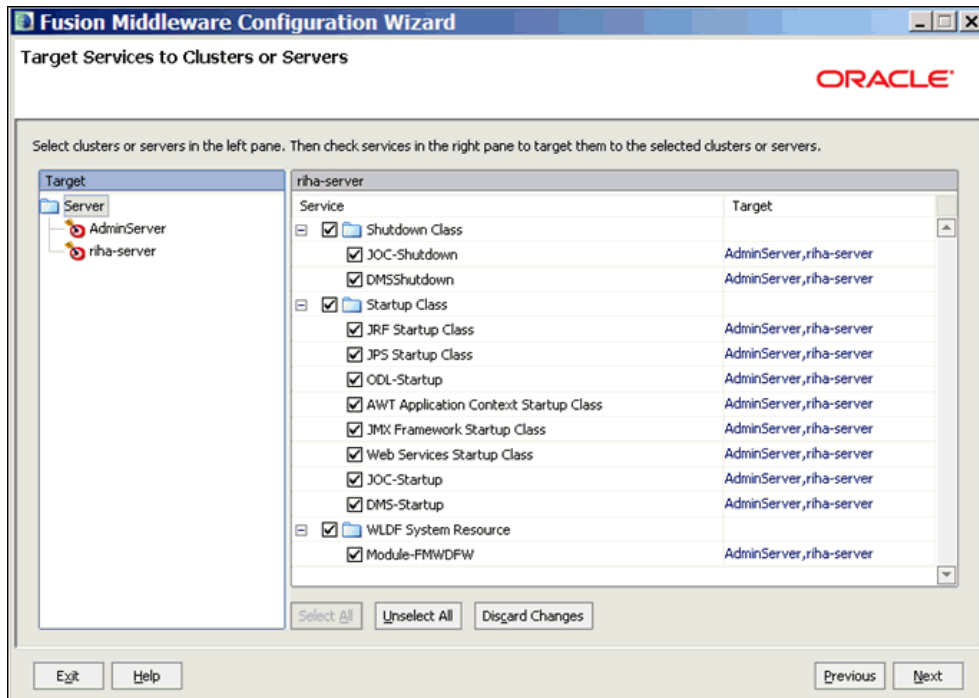
23. Click **Add** and configure the machines.

24. Click **Next**. The Target Deployments to Clusters or Servers screen opens.

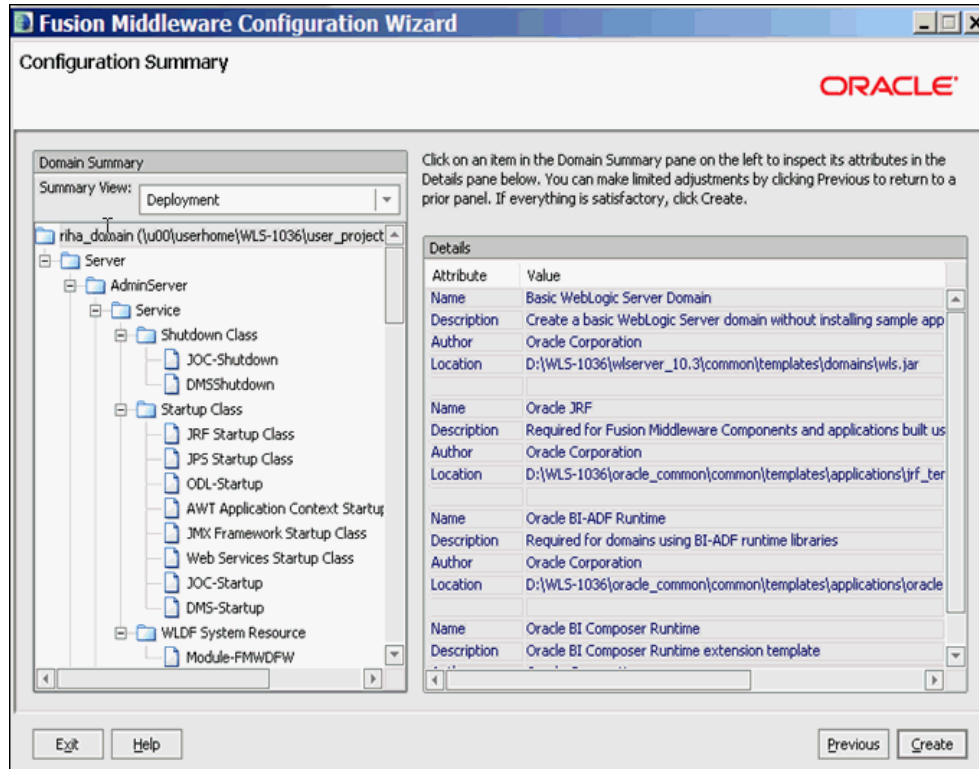


25. Select the created cluster or server (new_managedServer_1, in this example) in the left pane.

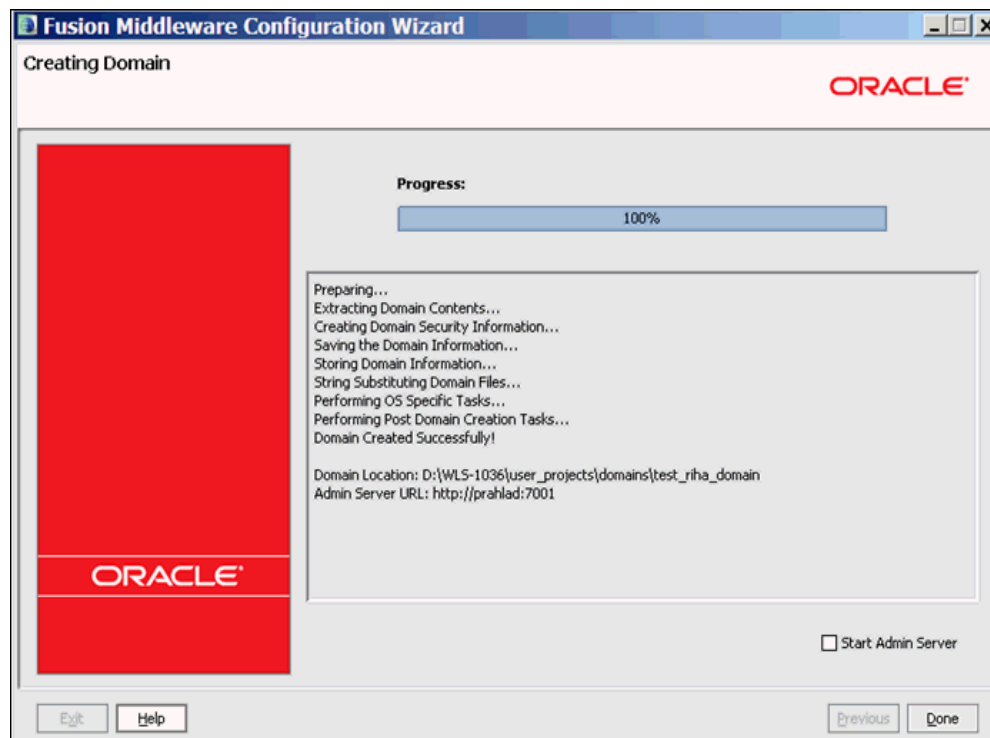
26. Select the applications in the right pane to target them to the selected cluster or server.
27. Click **Next**. The Target Services to Clusters or Services screen opens.



28. Select the clusters or servers in the left pane.
29. Select the services in the right pane to target them to the selected clusters or servers.
30. Click **Next**. The Configuration Summary screen opens.



31. Click **Create**. The Creating Domain screen opens.



32. Click **Done**. The domain and managed servers with ADF runtime is created.

4. Click the **Targets** tab and verify that the created server is selected for that library.

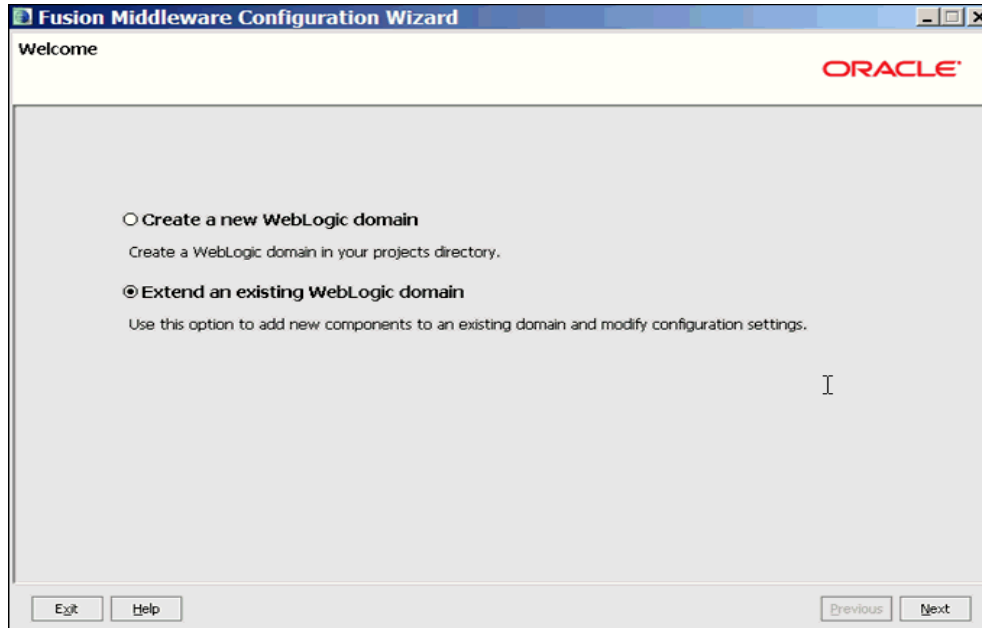
Extending an existing domain to add ADF run-time libraries

This section describes the steps to extend an existing domain to add ADF runtime libraries.

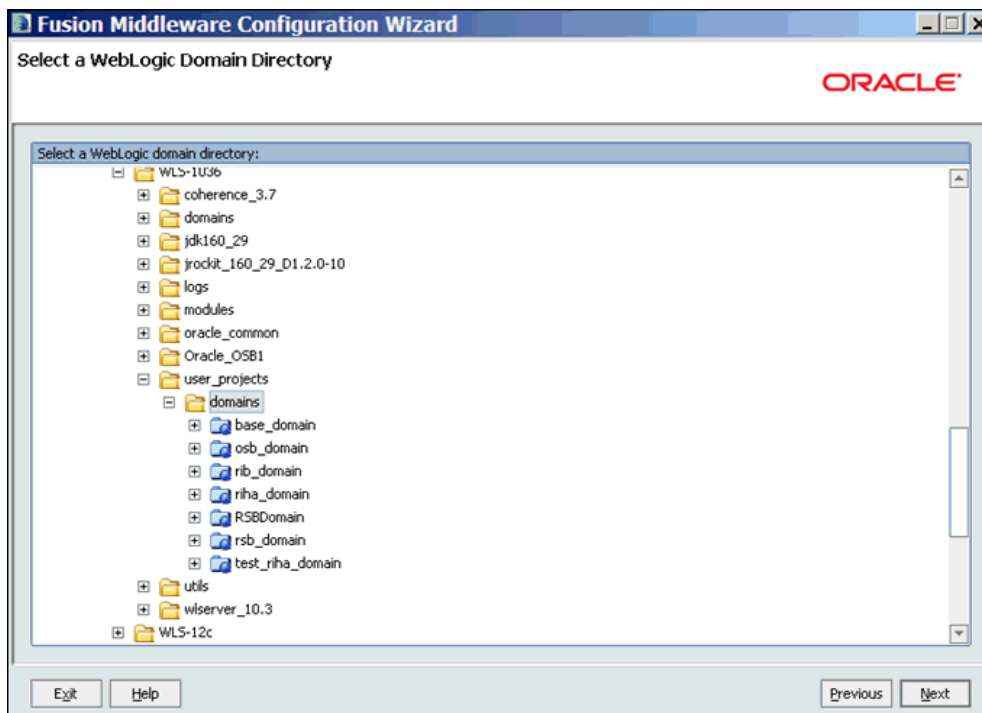
1. Run quick start from the Oracle Middleware home located under Utils folder.
 - The WebLogic Platform Quick Start screen opens.



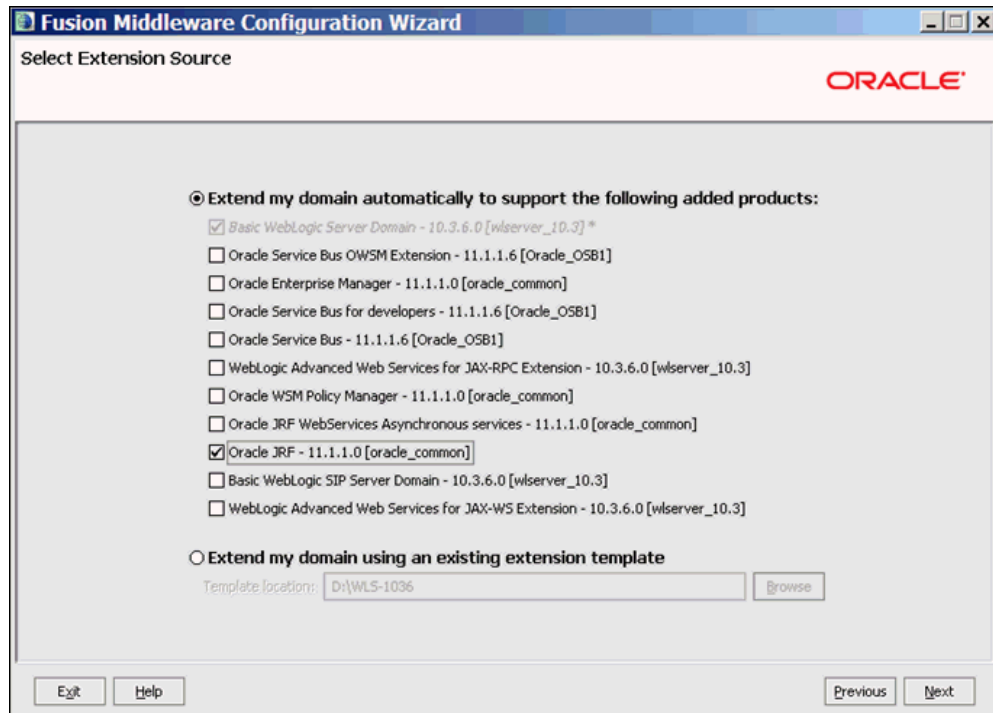
2. Select Getting started with WebLogic Server.
 - The Fusion Middleware Configuration Wizard opens.



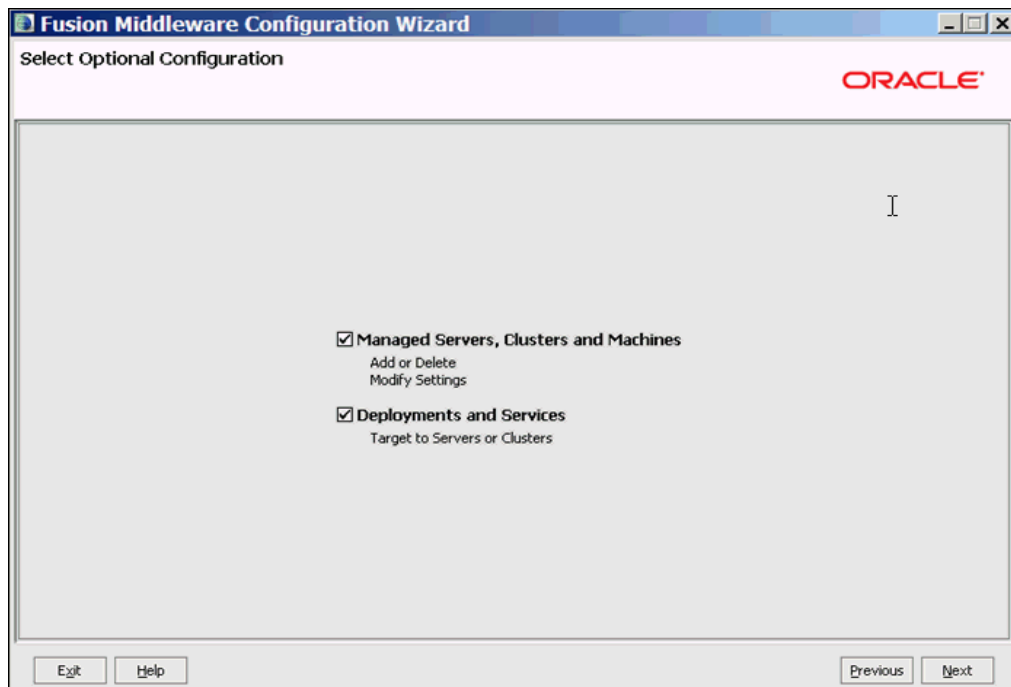
3. Select Extend an existing WebLogic domain.
4. Click Next. The Select a WebLogic Domain Directory screen opens.



5. Select the domain that requires ADF runtime libraries.
6. Click Next. The Select Extension Source screen opens.

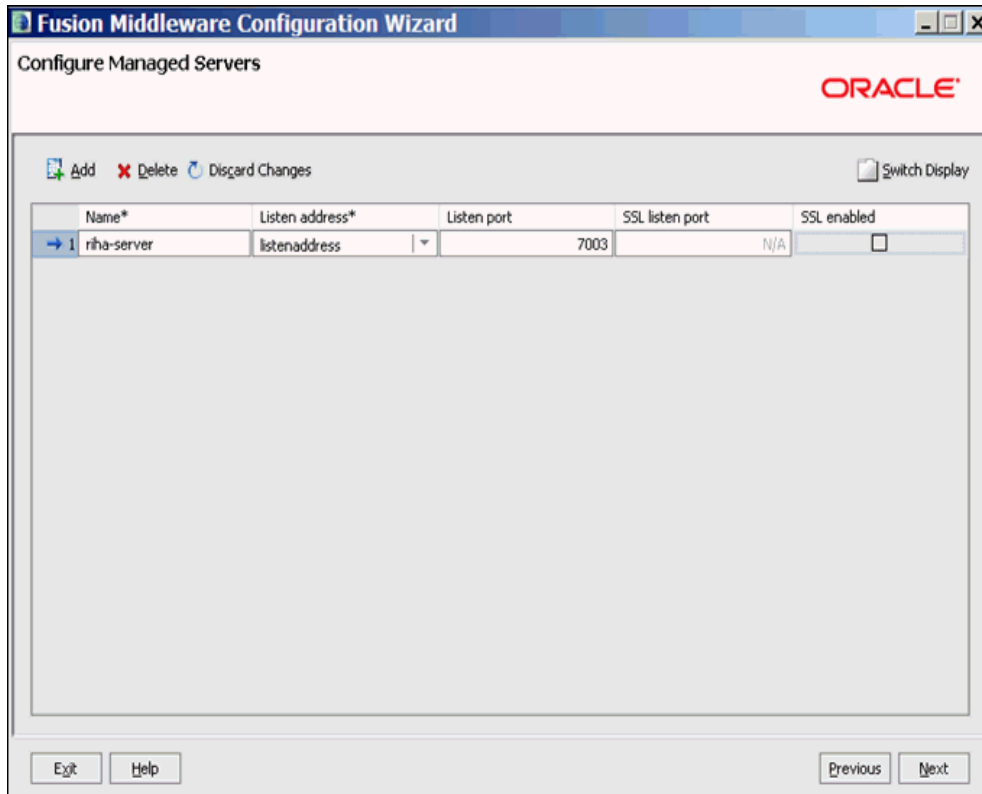


7. Select the Oracle JRF-11.1.1.0 checkbox to add ADF run-time libraries.
8. Click Next. The Select Optional Configuration screen opens.



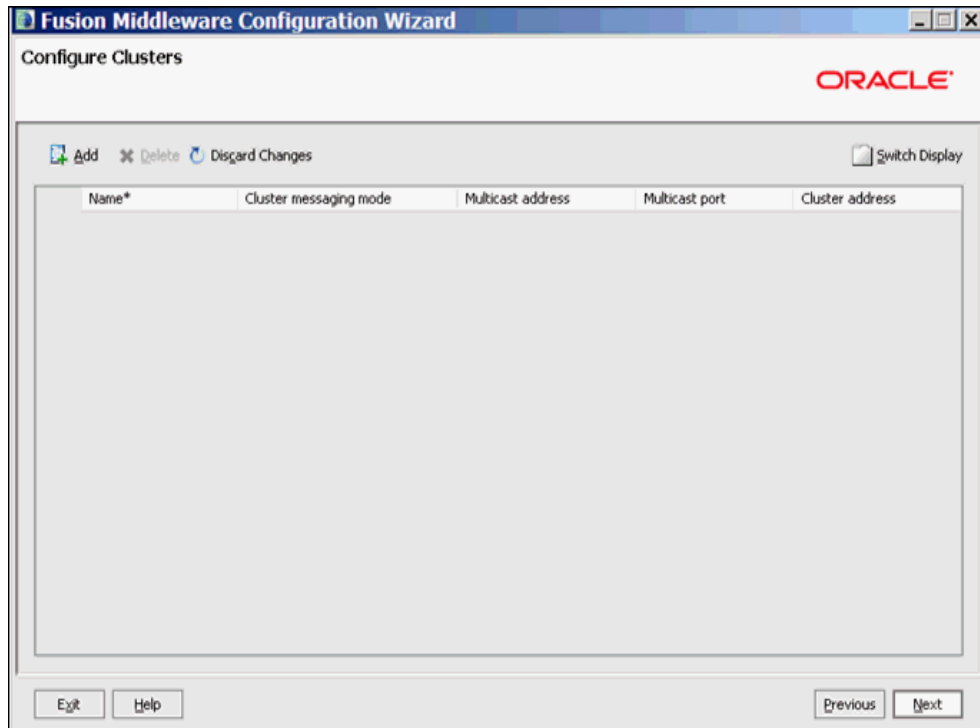
9. Select the Managed Servers Clusters and Machines checkbox to create managed servers, if a managed server needs to be created.
10. Select the Deployments and Services checkbox to add ADF run-time.

11. Click **Next**. The Configure Managed Servers screen opens.

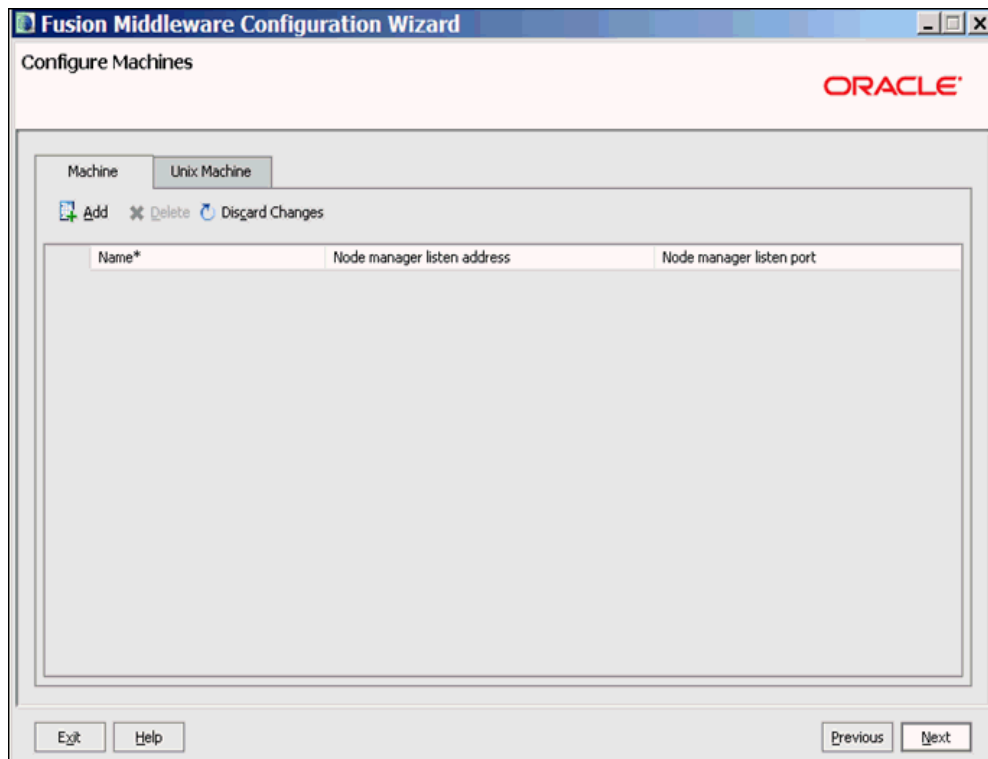


12. Click **Add** to add a managed server and edit the name and ports of the managed server.

13. Click **Next**. The Configure Clusters screen opens.

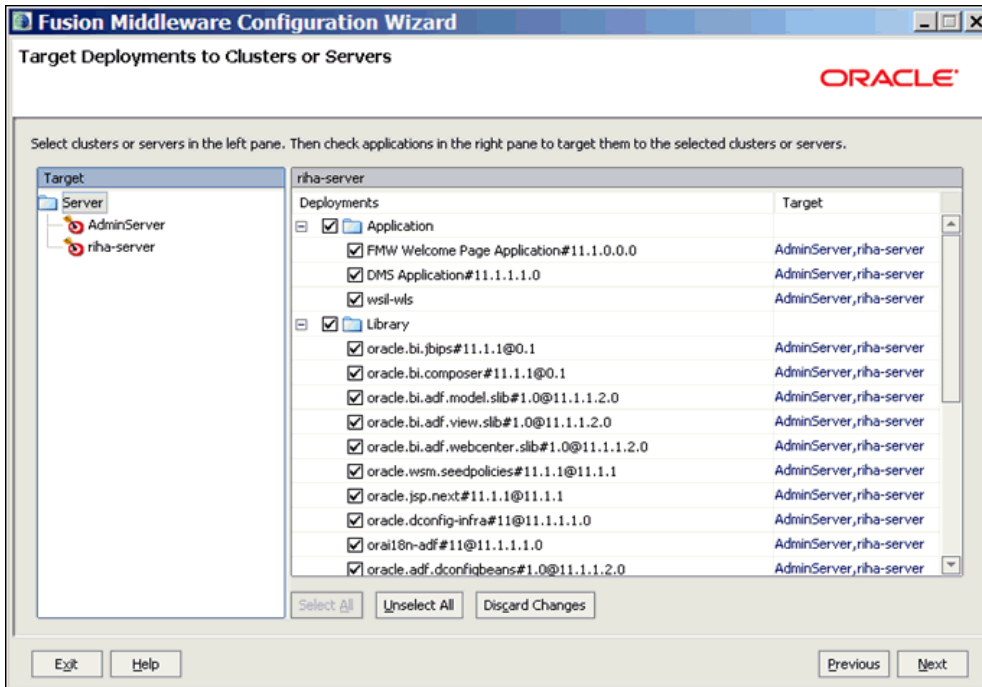


14. Click **Add** and configure the clusters if needed.
15. Click **Next**. The Configure Machines screen opens.



16. Click **Add** and configure the machines.

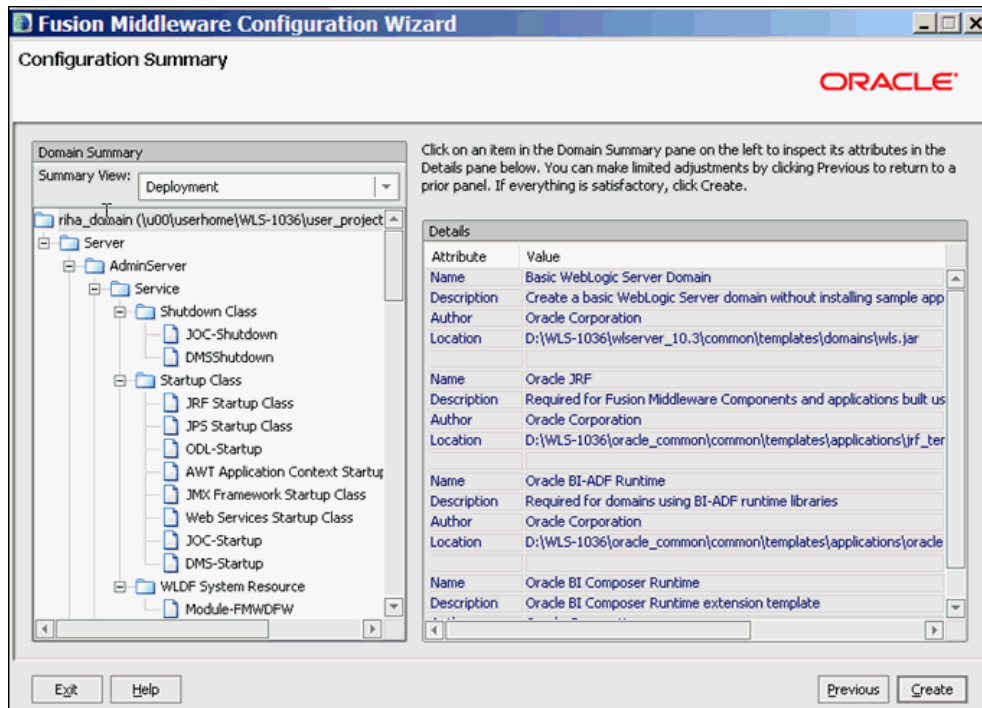
17. Click **Next**. The Target Deployments to Clusters or Servers screen opens.



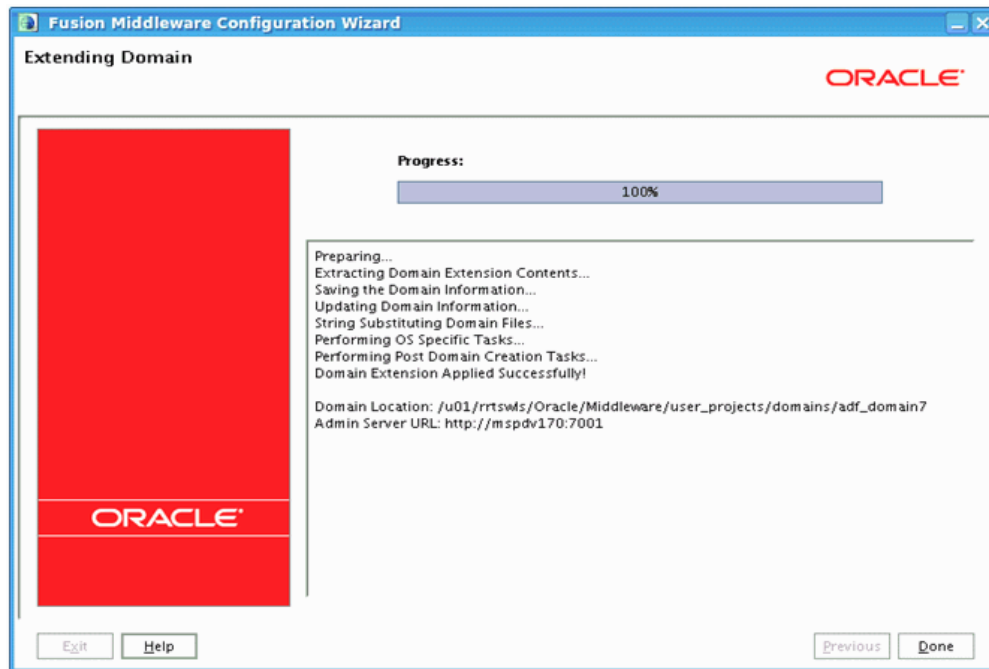
18. Select the clusters or servers in the left pane.

19. Select the services in the right pane to target them to the selected clusters or servers.

20. Click **Next**. The Configuration Summary screen opens.



21. Click **Create**. The Extending Domain screen opens.



22. Click **Done**. The domain is extended to add ADF run-time libraries.

Deploying RIHA ear File from RIB-HOME

This section describes the steps to deploy RIHA ear from rib-home. Single RIHA ear file is used for all the rib-apps and deployment is supported only from rib-home.

To deploy RIHA app from rib-home:

1. Download RibHospitalAdministration-Web-14.0.0 for all 14 .x.xApps_eng_ga.tar and extract it to RIB_INSTALL/rib-home/tools-home.
2. Go to the location rib-home/tools-home/riha/conf
3. Edit the riha-deployment-env-info.properties with riha-admin-server-connection-url value

Ex: riha-admin-server-connection-url=t3://host:port to the location rib-home/tools-home/riha/conf

- a. Edit target server name where RIHA app should be deployed.

Ex: riha-wls-target-name=AdminServer

This means riha app will deploys to AdminServer.

Ex: riha-wls-target-name=m1

This means riha app will deploys to Managed Server 'm1'.

- b. Edit cluster name where RIHA app should be deployed.

If no cluster is configured then enter cluster name as "no_cluster"

Ex:riha-wls-cluster-name=no_cluster

If any cluster is configured then enter the name of the cluster.

Ex:riha-wls-cluster-name=New_Cluster_1

4. Compile the riha-app. Security credentials get configured while compiling with the following command:

```
tools-home/riha/bin: ./riha-app-compiler.sh -setup-security-credential
```

```

MINGW32:/d/wrk_it15/rib-home/tools-home/riha/bin
PRAHLAD@PRAHLAD /d/wrk_it15/rib-home/tools-home/riha/bin
$ sh riha-app-compiler.sh -setup-security-credential
Starting RIHA compilation...
JAVA_HOME:: D:\java\jdk1.7

Enter weblogic User Name of t3://localhost:7001 :: weblogic
Loading log4j.xml from file:/D:/wrk_it15/rib-home/log4j.xml

Enter password:
Verify password:
Enter user name of riha app::rihauser
Loading log4j.xml from file:/D:/wrk_it15/rib-home/log4j.xml

Enter password:
Verify password:
Executing
apps-in-scope=sim,rms,Done
Updating riha ear with apps in scope values
[jar] Updating jar: d:\wrk_it15\rib-home\tools-home\riha\riha-app.ear
[delete] Deleting: d:\wrk_it15\rib-home\tools-home\riha\bin\riha.config

#####
## riha-app.ear Updated successfully... ##
#####

PRAHLAD@PRAHLAD /d/wrk_it15/rib-home/tools-home/riha/bin

```

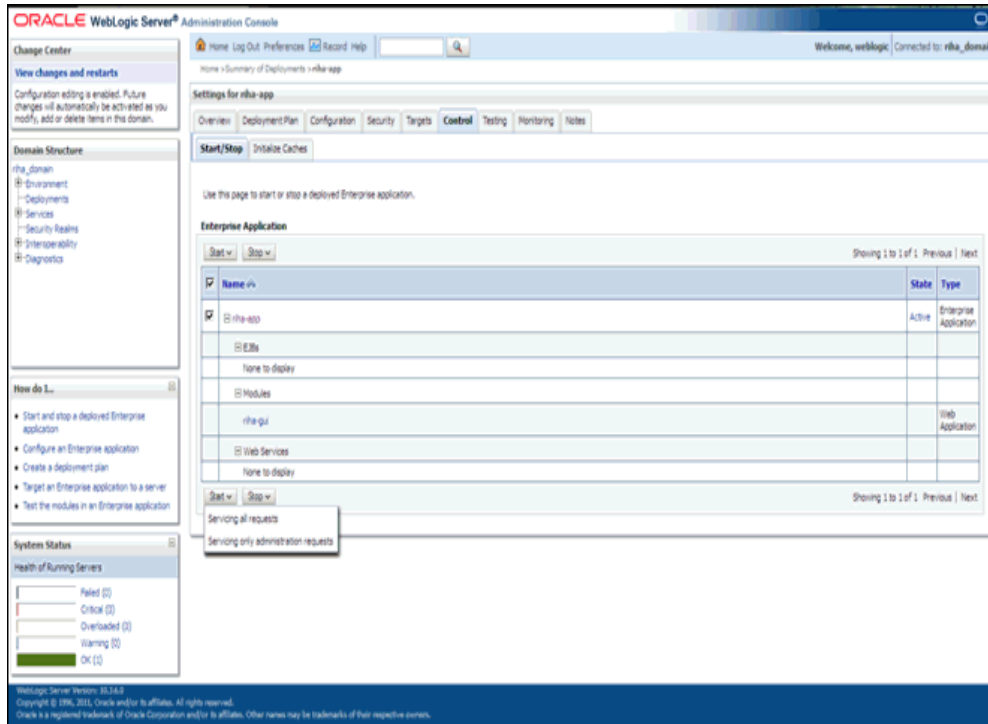
5. Prepare Weblogic for RIHA deployment: by executing this step all the datasource required by RIHA application will be created based on the number of applications in scope of rib-deployment-info.xml and user information required for riha app to login will be created (RihaAdminGroup and user entered in riha compilation phase) tools-home/riha/bin: ./riha-app-deployer.sh -prepare-wls.
6. Deploy RIHA app by executing tools-home/riha/bin: ./riha-app-deployer.sh -deploy-riha-app
7. If needed you can undeploy RIHA by executing tools-home/riha/bin: ./riha-app-deployer.sh -undeploy-riha-app

Testing the Deployment

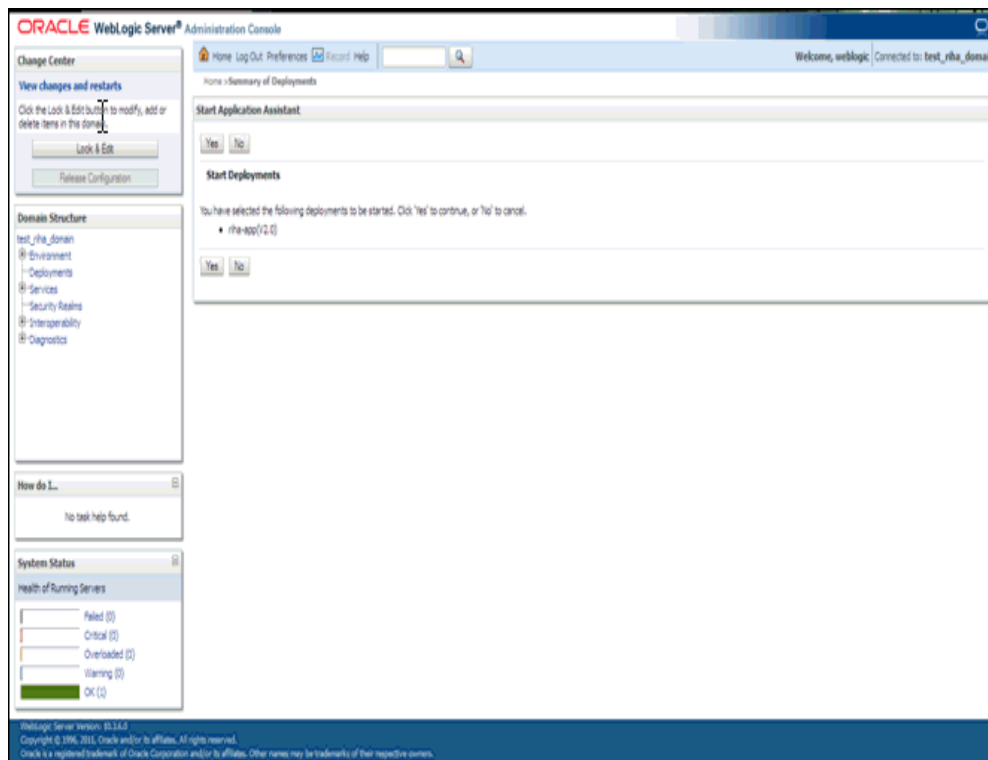
This section describes the steps to test the deployment.

Navigate to the post deployment screen.

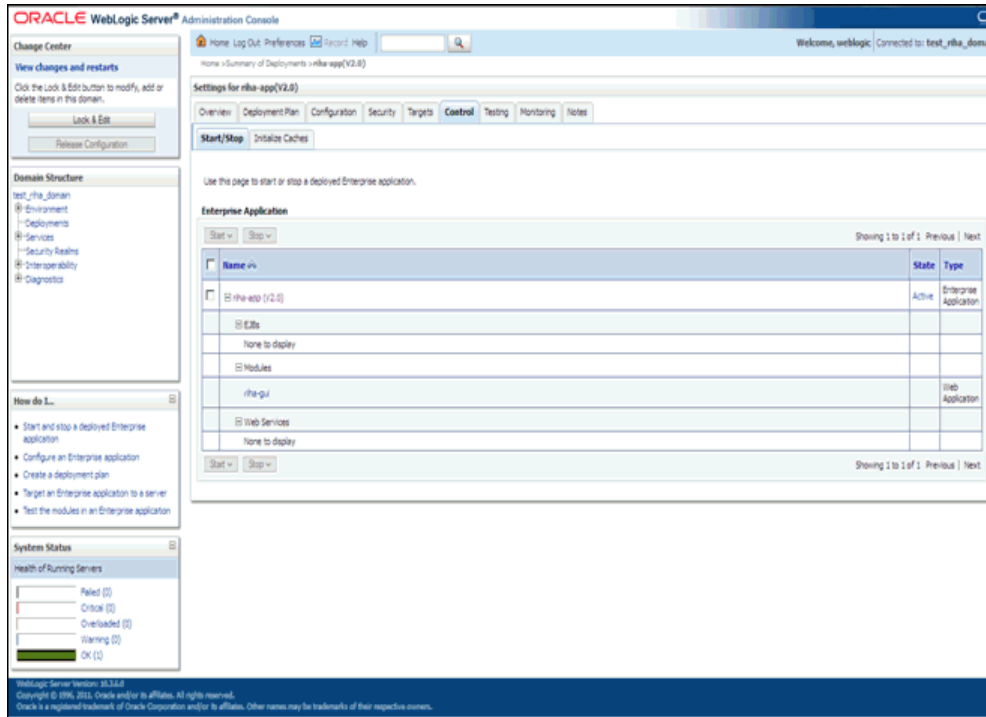
1. Click the **Control** tab.



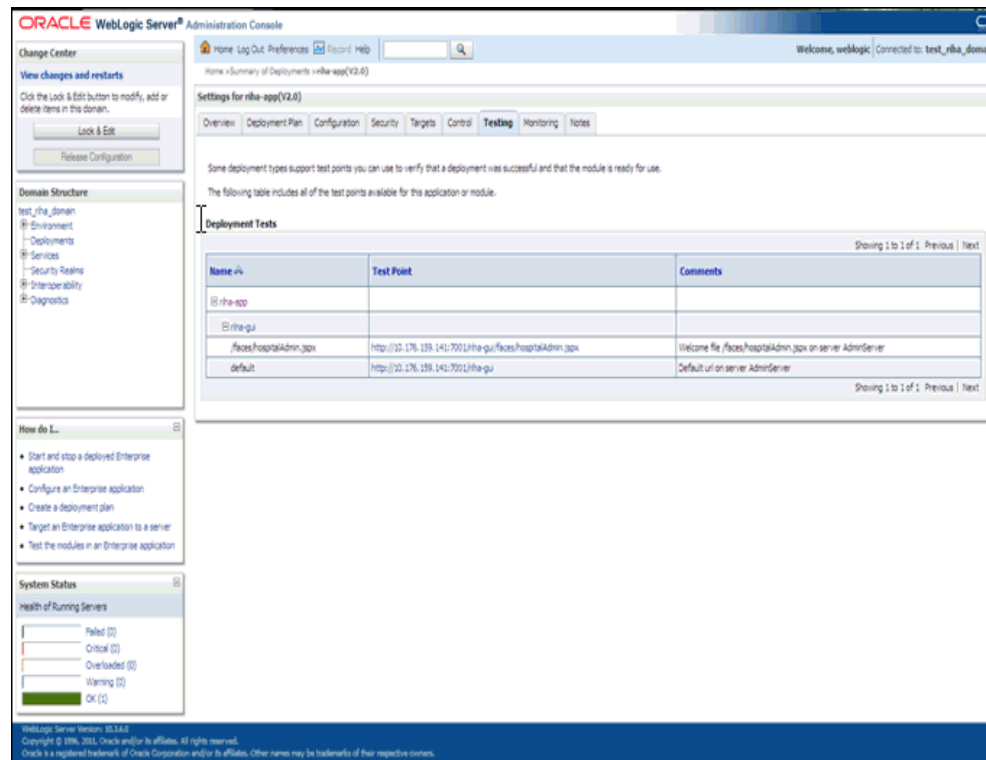
2. Select the application. Click Start.



3. Click Yes.



- The deployed tool is started successfully.



4. Click on the Testing tab and expand the deployed tool to access the URL of the tool.

Navigation and Help

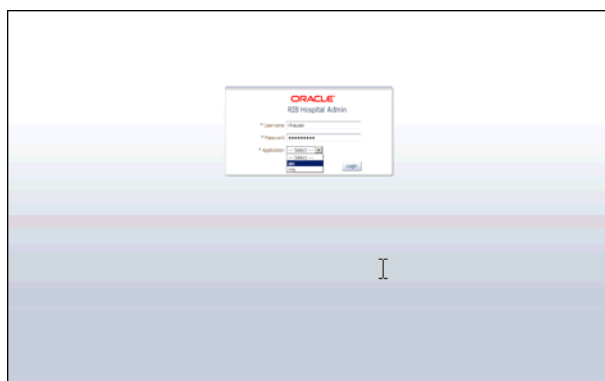
This chapter describes the navigation steps in the Oracle Retail Integration Bus Hospital Administration or RIB Hospital Administration (RIHA) application.

Log in to RIHA

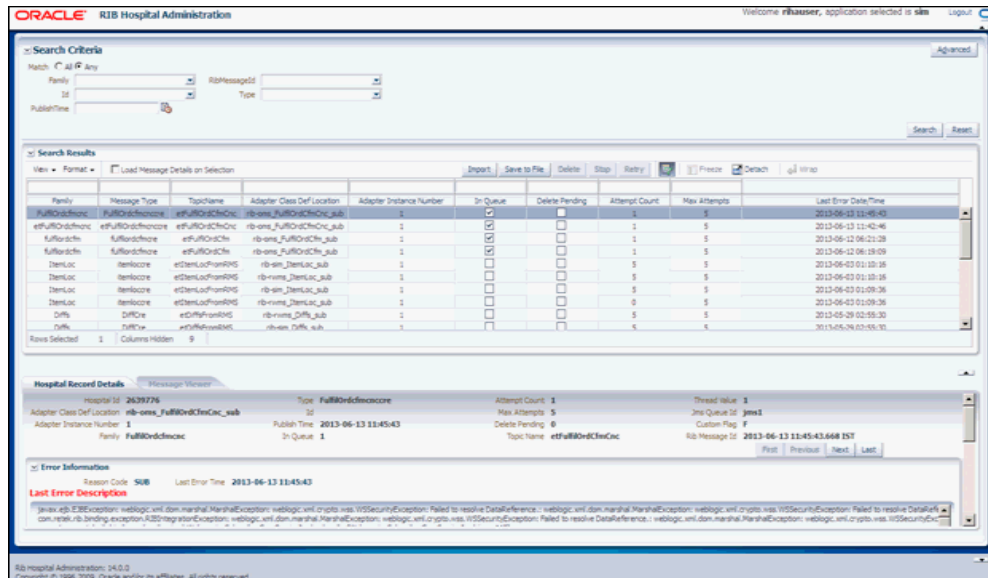
This procedure explains how to log in to the application.

1. Enter the application URL `http://<host>:<port>/riha-gui` in the address bar of the browser.

Note: Using Mozilla Firefox Web browser is recommended.



2. In the User Name field, enter the user name configured at the time of installation of the application.
3. In the Password field, enter the password.
4. Select the application name from the drop down to go the error hospital details of a particular application.
5. Click **Login**. The application home page appears.



Search for a Hospital Record

This procedure explains how to search for a hospital record in RIHA.

Basic Search

By default, the basic search option is enabled. Basic search is done using the Equal to operator against the given search values.

Click **Reset** to clear the data from search fields.

To perform a Basic Search:

1. Log in to the application.



2. In the Search Criteria section, enter or select the criteria to limit your search in one or more of the following fields:

- Family
- ID
- Publish Time
- RIB Message ID
- Message Type

Note: Select **All** to match all fields in the search. Select **Any** to match any field in the search criteria.

3. Click **Search**. The hospital records that match the search criteria are populated in the search results table.

Family	Message Type	TopicName	Adapter Class Def Location	Adapter Instance Number	In Queue	Delete Pending	Attempt Count	Max Attempts	Last Error DateTime
DSORRecept	DSORRECEPTORE	eDSORRecept	rb-ems_DSORRecept_sub	1	<input type="checkbox"/>	<input type="checkbox"/>	5	5	2013-07-04 04:28:45
DSORRecept	DSORRECEPTORE	eDSORRecept	rb-ems_DSORRecept_sub	1	<input type="checkbox"/>	<input type="checkbox"/>	5	5	2013-06-21 02:24:47
DSORRecept	DSORRECEPTMOO	eDSORRecept	rb-ems_DSORRecept_sub	1	<input type="checkbox"/>	<input type="checkbox"/>	5	5	2013-06-21 02:10:54
DSORRecept	DSORRECEPTORE	eDSORRecept	rb-ems_DSORRecept_sub	1	<input type="checkbox"/>	<input type="checkbox"/>	5	5	2013-06-21 01:13:43
DSORRecept	DSORRECEPTORE	eDSORRecept	rb-ems_DSORRecept_sub	1	<input type="checkbox"/>	<input type="checkbox"/>	5	5	2013-06-18 03:27:33
FullRdOrchonc	FullRdOrchonc	eFullRdOrchonc	rb-ems_FullRdOrchonc_sub	1	<input type="checkbox"/>	<input type="checkbox"/>	1	5	2013-06-13 11:45:43
eFullRdOrchonc	eFullRdOrchonc	eFullRdOrchonc	rb-ems_FullRdOrchonc_sub	1	<input type="checkbox"/>	<input type="checkbox"/>	1	5	2013-06-13 11:42:46
FullRdOrchm	FullRdOrchonc	eFullRdOrchm	rb-ems_FullRdOrchm_sub	1	<input type="checkbox"/>	<input type="checkbox"/>	1	5	2013-06-12 06:21:28
FullRdOrchm	FullRdOrchonc	eFullRdOrchm	rb-ems_FullRdOrchm_sub	1	<input type="checkbox"/>	<input type="checkbox"/>	1	5	2013-06-12 06:19:09
Item.or	Item.or	eItem.or	rb-ems_Item.or_sub	1	<input type="checkbox"/>	<input type="checkbox"/>	5	5	2013-06-01 01:10:16

Advanced Search

By default, the basic search option is selected in the application. In the search panel, click **Advanced** to switch to advanced search option. Advanced search allows you to add more search fields to the search criteria. Click Add Fields to add more fields.

In the advanced search, the operators of each search field can be changed to other available options.

Click **Basic** to switch back to the basic search option.

Click **Reset** to clear the data from search fields.

To perform an Advanced Search:

1. Log in to the application.
2. Click **Advanced** in the search panel.

3. Click **Add Fields**. Additional fields are listed. Select the required fields to add to the search criteria.
 - Click the red cross mark icon besides the field to remove the field from the search criteria.
4. Enter values in the respective fields and click **Search**. The hospital records that match the search criteria are populated in the search results table.

Delete a Message

This procedure explains how to mark a message for deletion from the RIB Hospital.

1. Log in to the application.
2. Search for hospital records.
3. Select a row that represents a hospital record.
4. Click **Delete**. The message is deleted when the hospital retry adapters and/or process checks for messages to be deleted from the RIB Hospital.

Note: A message that is in queue (as indicated when the check box in the In Queue column is selected) cannot be deleted.

Stop a Message

This procedure explains how to stop a retry adapter and/or a process from attempting to retry a message.

1. Log in to the application.
2. Search for a message.
3. Select a row that represents a hospital record.
4. Click **Stop**. The retry adapter and/or a process does not attempt to reprocess the message until you select the message for Retry.

Note: A message that is in queue (as indicated when the check box in the In Queue column is selected) cannot be stopped.

Retry a Message

This procedure explains how to retry a message after you have stopped the retry adapter and/or process from re-processing it.

1. Log in to the application.
2. Search for a message.
3. Select a row that represents a hospital record.
4. Click **Retry**.

Note: A message that is in queue (as indicated by the check box in the In Queue column is selected) or pending deletion (as indicated by the check box in the Delete Pending column is selected) cannot be retried.

View and Edit a Message

This procedure explains how to view a message.

1. Log in to the application.
2. Search for hospital records.
3. Click the **Load Message Details on Selection** check box located in the search results table.
4. Select a row to view the payload of hospital records.
5. Click the **Message Viewer** tab. The message viewer displays the payload in text mode.


```

</RibMessageRoutingInfo>
</RibMessageRoutingInfoView>
</HospitalEntry>

```

Update an Existing Hospital Record

This procedure explains how to update an existing hospital record location.

1. Search for a message and select a row (see [View and Edit a Message](#)).
2. Save the hospital entry locally (See [Save a Message Locally](#)).
3. Edit the hospital entry file.
 - Do not edit or remove any of the <MessageNum> attributes.
4. Click **Import**.
 - A popup browser window opens with an option to browse for the edited hospital entry to be loaded.

The message must be in the same format in which it was saved.

Format the hospital entry to be updated.

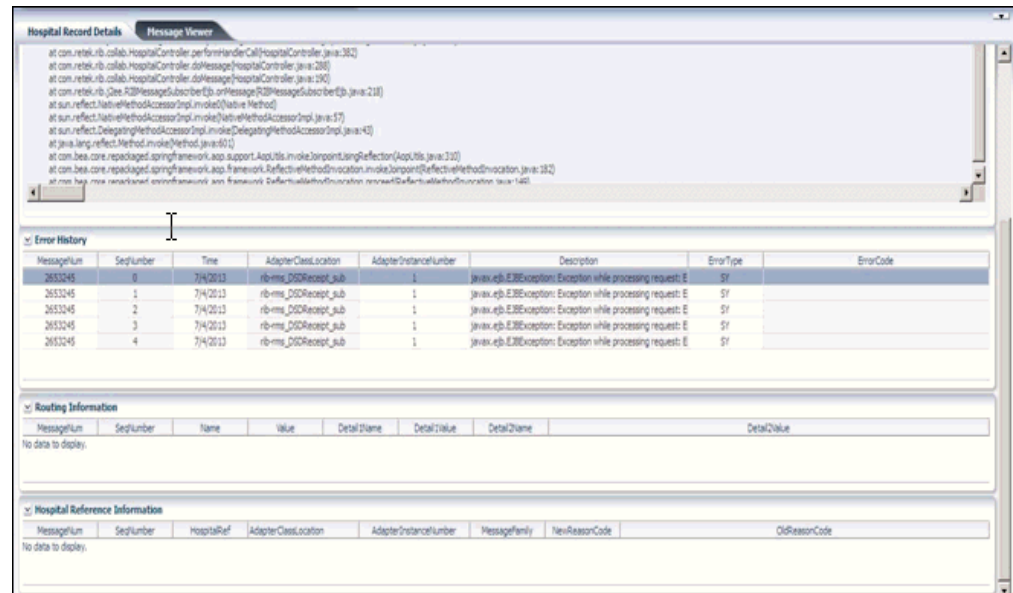
```

<HospitalEntry>
  <MessageNum>12345</MessageNum>
  <AdapterClassLocation>AdapterClassLocation</AdapterClassLocation>
  <Family>Family</Family>
  <Type>Type</Type>
  <RibMessageId>RibMessageId</RibMessageId>
  <Id>Id</Id>
  <PublishTime>YYYY-MM-DD HH:MM:SS</PublishTime>
  <TopicName>TopicName</TopicName>
  <ThreadValue>Threadvalue</ThreadValue>
  <JmsQueueId>jmsId</JmsQueueId>
  <CustomFlag>F</CustomFlag>
  <CustomData>  <![CDATA[ CustomData  ]]>  </CustomData>
  <ReasonCode>ReasonCode</ReasonCode>
  <RibMessagePayloadView>
    <RibMessagePayload>
      <MessageNum>12345</MessageNum>
      <MessageData> <![CDATA[ <Message Xml> ]]>  </MessageData>
    </RibMessagePayload>
  </RibMessagePayloadView>
  <RibMessageRoutingInfoView>
    <RibMessageRoutingInfo>
      <SeqNumber>0</SeqNumber>
      <Name>Name</Name>
      <Value>Value</Value>
      <Detail1Name>DetailName</Detail1Name>
      <Detail1Value>DetailValue</Detail1Value>
    </RibMessageRoutingInfo>
  </RibMessageRoutingInfoView>
</HospitalEntry>

```

View Hospital Record Details

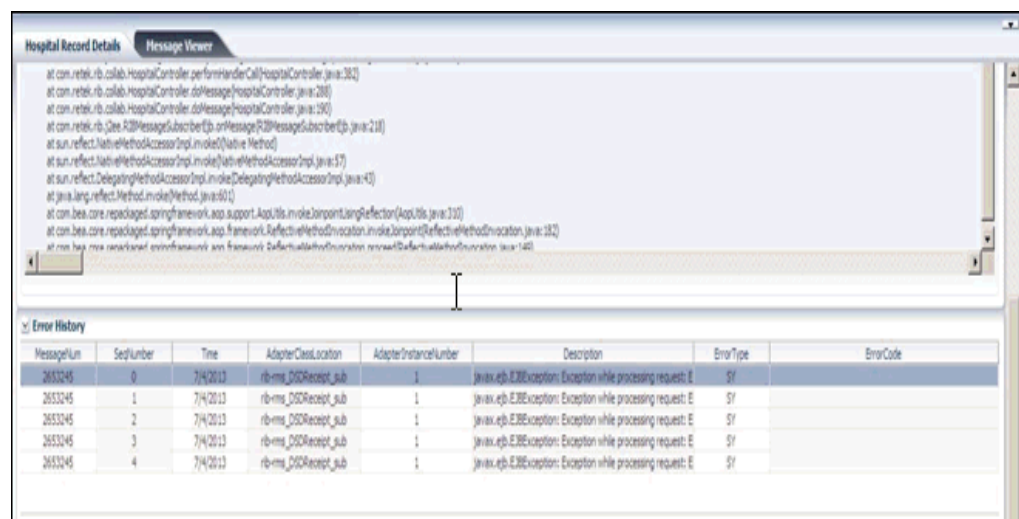
This procedure explains how to see detailed information about a hospital record.



1. Search for a message (see "View and Edit a Message").
2. Select a row that represents a hospital record.
 - By default, the Hospital Records Detail tab is active and displays the selected row's hospital record details.
 - The size of the pane can be adjusted by using the arrow mark located in the right side of the pane.

View the Error History of a Message

This procedure explains how to view a message's error history.



1. Search for a message (see "View and Edit a Message").
2. Select a row that represents a hospital record.
 - By default the Hospital Records Details tab is active and displays hospital record details for the selected row.

- Click on the arrow located near the error history. This will expand the pane and display errors associated with each of the possible retry attempts.

View the Hospital Reference Information of a Message

This procedure explains how to view a message's hospital reference information.

Note: This pane contains data that applies only to retailers who have access to the custom code.

This pane displays records that are already in the RIB_MESSAGE table but are prevented from being retried until another record has been successfully retried. Once the other record has been successfully retried, the Reason Code in the RIB_MESSAGE table for the record being referenced in the Hospital Reference column is set to the new Reason Code to make it available for retry. View the hospital record details for a message (see [View Hospital Record Details](#)).

The screenshot shows the 'Hospital Record Details' pane with the following sections:

- Stack Trace:** A list of Java stack frames including classes like `com.retail.rib.collab.HospitalController`, `com.retail.rib.collab.HospitalController.doMessage`, `com.retail.rib.collab.HospitalController.doMessage`, `com.retail.rib.collab.HospitalController.doMessage`, `sun.reflect.NativeMethodAccessorImpl`, `sun.reflect.NativeMethodAccessorImpl`, `sun.reflect.NativeMethodAccessorImpl`, `sun.reflect.DelegatingMethodAccessorImpl`, `java.lang.reflect.Method`, `com.bea.core.repackaged.springframework.aop.support.AopUtils`, `com.bea.core.repackaged.springframework.aop.support.AopUtils`, `com.bea.core.repackaged.springframework.aop.framework.ReflectiveMethodInvocation`, and `com.bea.core.repackaged.springframework.aop.framework.ReflectiveMethodInvocation`.
- Error History:** A table with columns: MessageId, SeqNumber, Time, AdapterClassLocation, AdapterInstanceNumber, Description, ErrorType, and ErrorCode. It shows five rows of error records for message ID 2653245, all with error type 'SY' and description 'java.lang.Exception: Exception while processing request: E'.
- Routing Information:** A table with columns: MessageId, SeqNumber, Name, Value, DetailName, DetailValue, Detail2Name, and Detail2Value. It shows 'No data to display'.
- Hospital Reference Information:** A table with columns: MessageId, SeqNumber, HospitalRef, AdapterClassLocation, AdapterInstanceNumber, MessageFamily, NewReasonCode, and OldReasonCode. It shows 'No data to display'.

- Search for a message (see [View and Edit a Message](#)).
- Select a row that represents a hospital record.
 - By default the Hospital Records Details tab is active and displays hospital record details of the selected row.
 - Click on the arrow located near the hospital reference information. This will expand the pane and display associated reference information.

View the Routing Information of a Message

The screenshot shows a 'Hospital Record Details' window with a 'Message Viewer' tab. The top section displays a stack trace of the message processing. Below this, the 'Error History' section is expanded, showing a table of errors. The 'Routing Information' section is collapsed, and the 'Hospital Reference Information' section is also collapsed.

MessageLun	SeqLunber	Time	Adapter-ClassLocation	AdapterInstanceLunber	Description	ErrorType	ErrorCode
2653245	0	7/4/2013	rb-ms_DGDRcept_sub	1	java.io.IOException: Exception while processing request: E	SY	
2653245	1	7/4/2013	rb-ms_DGDRcept_sub	1	java.io.IOException: Exception while processing request: E	SY	
2653245	2	7/4/2013	rb-ms_DGDRcept_sub	1	java.io.IOException: Exception while processing request: E	SY	
2653245	3	7/4/2013	rb-ms_DGDRcept_sub	1	java.io.IOException: Exception while processing request: E	SY	
2653245	4	7/4/2013	rb-ms_DGDRcept_sub	1	java.io.IOException: Exception while processing request: E	SY	

MessageLun	SeqLunber	Name	Value	Detail1Name	Detail1Value	Detail2Name	Detail2Value
No data to display.							

MessageLun	SeqLunber	HospitalRef	Adapter-ClassLocation	AdapterInstanceLunber	MessageFamily	Msg-ResourCode	OldResourCode
No data to display.							

This procedure explains how to view a message's routing information.

1. Search for a message (see [View and Edit a Message](#)).
2. Select a row that represents a hospital record.
 - By default the Hospital Records Details tab is active and displays hospital record details of the selected row.
 - Click on the arrow located near the routing information. This will expand the pane and display associated reference information.

Glossary

Term	Definition
Attempt Count	The number of times the system has tried to process the message.
adapter	An adapter represents one or more threads of control within the adapter that publishes or subscribes to the applicable XML messages.
Custom Flag	This value is used to signal that the message contains custom data. This is not currently used by the RIB; therefore its value is always set to F (false).
Delete Pending	A Yes means that the message is marked for deletion and will be removed from the RIB Hospital when the retry adapter and/or process checks for messages to be deleted from the RIB Hospital. No means that the message is not pending for deletion.
Family	The valid message family to which the message belongs. Each message family contains information specific to a related set of operations on a business entity or related business entities.
Hospital ID	This is the identifier of a single message in the Hospital database. It is the primary key that associates the message in the RIB_MESSAGE table with its corresponding data in the RIB_MESSAGE_FAILURE, RIB_MESSAGE_ROUTING_INFO and RIB_MESSAGE_HOSPITAL_REF tables.
ID	Optional ID string that identifies the message. Composite primary keys require multiple IDs. For example, a line item within a Purchase Order may contain the PO number and line item number as part of the ID. For example: <id>PONumber=12345</id> <id>ItemID=321</id>
In Queue	If Yes, messages in the queue are waiting to be reprocessed. If No, messages are not being reprocessed.
JMS Queue ID	This ID represents the JMS server that the message is published to during retries from the hospital. The ID also represents the JMS server from which the message was originally published (or from which the message was originally attempted to be published). The format of this field is <JMS host name>:<JMS host port>.
Last Error Description	The text of the error message that describes why the message failed to process.
Location	The adapter name and/or process name.
Max Attempts	The maximum number of times a message in the RIB Hospital should be re-processed by an application.

Term	Definition
Message Type	Each message family contains a set of sub-formats specific to the business event triggering message publication. The term message type embodies this specific sub-format. For example: a Purchase Order message family can contain message types such as Create PO Header, Create PO Detail, Update PO Header, or Delete PO Detail.
Publish Time	The date/timestamp indicating when the message was published.
Reason Code	This value identifies whether an error occurred during publication of the message or during consumption (subscription). The indicators are JMS, SUB, and PUB. The PUB reason code is used by RMS to indicate that a reference to a message must be retained in the RIB Hospital. When retried, the adapter must call a special stored procedure (PUB_RETRY) that will publish the message once some specific conditions are met in the RMS application.
RIB Message ID	ID of the Message within the RIB Hospital. This value is set only after the message is checked into the RIB Hospital.
Thread Value	The thread value is used for parallel processing of messages within the same family. This value is added to the message during publication to the JMS so that it can be routed through a specific adapter and/or process.