



# Image Services Resource Adapter

## Deployment Guide

For BEA WebLogic 9.x

Release 3.4.0

March 2008

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## About This Manual 6

**Conventions Used in the Document 6**

**Related References 6**

**Comments and Suggestions 6**

## 1. ISRA Deployment 7

**Deployment Requirements 7**

Hardware Requirements 7

Software Requirements 7

**Deploying ISRA in a Standalone Environment 7**

ISRA RA Descriptor (WebLogic specific) 8

Deploying ISRA.rar 8

Deploying Exploded Archive Files 17

**Deploying ISRA in a Clustered Environment 29**

**Mandatory Requirements for ISRA 3.4.0 38**

**Optional Requirement for ISRA 39**

Steps for deploying LoadISRA Utility 39

## 2. ISRA Configuration 41

**Configuring Deployed ISRA 41**

**Changing ISRA Specific Parameters 41**

Configurable ra.xml Entities 41

DomainName 42

OrganizationName 42

LoggingLevel 42

LoggingMode 42

PageBufferSize 43

CacheRefreshInterval 43

SecurityCacheMode 43

MetaDataCacheRefreshMode 43

LogFileName 44

LogFileSize 44

LdapImplClassName 44

LdapImplClassString 44

InherentLogin 45

DeploymentInstance 45

- PCHLogging 46
- AllowAnonymousUser 46
- RPCLogging 46
- ClientCodepage 46
- ISLocale 47
- IgnoreObjectBusyMsgInDocMigration 47
- Configuring Weblogic-Specific Entities 47
- Configuring Multiple IS Servers with ISRA 51

### **3. Configuring and Deploying ISRA Sample Application 52**

- Configuring Sample Application 52
- Deploying the Sample Application in a Standalone Environment 54
- Deploying the Sample Application in a Clustered Environment 62
- Deploying IBM FileNet Image Viewer in a Standalone Environment 71
- Deploying IBM FileNet Image Viewer in a Clustered Environment 80
- IBM FileNet Image Viewer Quick Start Feature 89
  - Enabling Quick Start Feature 89
  - Known Issues in the Quick Start Feature 90
- Testing Sample Application 90

### **4. LDAP Configuration 92**

- Mapping Existing LDAP Server Users to IS 92
- Changing ISRA Specific Parameters for LDAP 94

### **5. Configuring Performance Statistics from ISRA 95**

- Configuring JMS Server 95
- Configure a JMS Queue 98
- Configure JMS Connection Factory 103
- Configuring ISRA Parameters for Performance Statistics 105

### **6. Undeployment 107**

- Undeploying ISRA 107
- Undeploying Sample Application 112



**Undeploying IBM FileNet Image Viewer 112**

## **7. Troubleshooting 113**

**Disabling NCH Broadcasts 113**

## **Appendix A 114**

**ra.xml 114**

## **Notices 118**

**Notices 118**

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**Trademarks 119**

# About This Manual

This manual provides information about configuring Image Services Resource Adapter (ISRA) version 3.4.0 on BEA WebLogic 9.x platform. Refer the separate ISRA Installation Guide for Installing ISRA 3.4.0.

## Conventions Used in the Document

The table lists the formatting conventions used in this document.

<u>Conventions</u>	<u>Description</u>
Fixed Size font	Used for commands entered at the system command prompt.
Arial font	Used for important notes.
<b>Bold</b>	Occasionally used to refer to portions of user interface, such as the <b>Next</b> button or the <b>Install</b> button.

## Related References

For all ImageViewer parameters please refer to the FNImageViewer documentation provided with ISRA installation media.

<ISRA-home>\ISRA340\FNImageViewer\docs

For all P8 System Manager related information, please refer to P8 System Manager Documentation, provided with ISRA installation media.

<ISRA-home>\ISRA340\SystemManager\docs

## Comments and Suggestions

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# ISRA Deployment

This chapter describes the deployment of ISRA on BEA WebLogic 9.x platform.

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**Note** The installation procedure for BEA WebLogic server 9.x is outside the scope of this document. This guide assumes that the required settings and configurations have already been made.

---

The ISRA module is a set of Java interfaces/classes that implements J2EE Connector Architecture specified contracts and the EIS specific functionality. ISRA plugs into BEA WebLogic 9.x Application Server in a modular manner.

## Deployment Requirements

This section lists the minimum software and hardware requirements for successful deployment of ISRA on BEA WebLogic 9.x Application Server.

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**Caution** Do not copy xml contents straight from the Deployment Guide. All the xml content related to the deployment of ISRA must be created manually or a valid existing file should be used.

---

## Hardware Requirements

- For additional information on BEA WebLogic, visit <http://e-docs.bea.com/platform/suppconfigs/index.html>.
- ISRA installation will require approximately 120MB free disk space.

## Software Requirements

- BEA WebLogic 9.x installed on Sun Solaris 9/10, Red Hat Linux AS 3.0/4.0, HP/UX 11i Patch Bundle B.11.11, Microsoft Windows 2003 Server or AIX 5.2 SP2 / 5.3 SP3
- IBM FileNet IS 3.6 SP2 and above

## Deploying ISRA in a Standalone Environment

ISRA is deployed using the WebLogic server administration console. There are two ways of deploying the Resource Adapter on WebLogic 9.x:

- [Deploying ISRA.rar file](#)
- [Deploying exploded archive files](#)

## ISRA RA Descriptor (WebLogic specific)

To deploy a resource adapter to WebLogic Server, user must first create and configure WebLogic Server-specific deployment descriptor, **weblogic-ra.xml** file. The steps include:

1. Copy **isra.rar** to **ISRATemp**. Change directory to **ISRATemp** and run the command `jar -xvf ISRA.rar`. This command extracts the **ISRA.rar** file in the current directory.
2. Create **weblogic-ra.xml** file using a preferred text editor. The **weblogic-ra.xml** file should resemble this specimen:

```
<!DOCTYPE Weblogic-connection-factory-dd PUBLIC"-
//BEA Systems, Inc.//DTD WebLogic 8.1.0 Connector//EN"
"http://www.bea.com/servers/wls810/dtd/Weblogic810-ra.dtd">
<weblogic-connection-factory-dd>
<connection-factory-name>ISCF</connection-factory-
name>
<jndi-name>ISCF</jndi-name>
<pool-params>
<initial-capacity>0</initial-capacity>
<max-capacity>1000</max-capacity>
<capacity-increment>1</capacity-increment>
<shrinking-enabled>true</shrinking-enabled>
<connection-profiling-enabled>false</connection-
profiling-enabled>
<shrink-frequency-seconds>180000</shrink-frequency-
seconds>
<inactive-connection-timeout-seconds>100000</inactive-
connection-timeout-seconds>
<highest-num-waiters>2147483647</highest-num-waiters>
<highest-num-unavailable>0</highest-num-unavailable>
<connection-creation-retry-frequency-
seconds>0</connection-creation-retry-frequency-
seconds>
<connection-reserve-timeout-seconds>10</connection-
reserve-timeout-seconds>
<test-frequency-seconds>0</test-frequency-seconds>
<match-connections-supported>true</match-connections-
supported>
</pool-params>
</weblogic-connection-factory-dd>
```

---

**Note** **Security-principal-map** element is no longer supported. So, user needs to remove that from **weblogic-ra.xml**.

---

The values corresponding to all attributes can be modified as required and saved as **weblogic-ra.xml** in the **META-INF** subfolder:

3. Reconstruct the **ISRA.rar** file. Run the command `jar -cvf ISRA.rar *` from **ISRATemp**. This command creates **ISRA.rar** file with **weblogic-ra.xml** bundled into it.

## Deploying ISRA.rar

To deploy the **ISRA.rar** file:

1. Start the WebLogic Server.

- On Windows Server, to start WebLogic Administration Server navigate to:

**Start > Programs > BEA Products -> User Projects > <domain\_name> > Start Admin server for Weblogic Server Domain.**

Alternatively, the Configuration Wizard scripts can also be used to start the Administration Server. When the Configuration Wizard is used to create a domain, the wizard also creates a script that can be used to start an Administration Server for the domain. To use the script, execute the **startWebLogic.cmd** file located at the following path:

```
<WebLogic Installation Directory>\
user_projects\domains\<domain_name>
```

- On an UNIX system, login as the root user and execute the startWebLogic script, as:

```
# cd <WebLogic Installation Directory>/
user_projects/domains/<domain_name>
# ./startWebLogic.sh
```

---

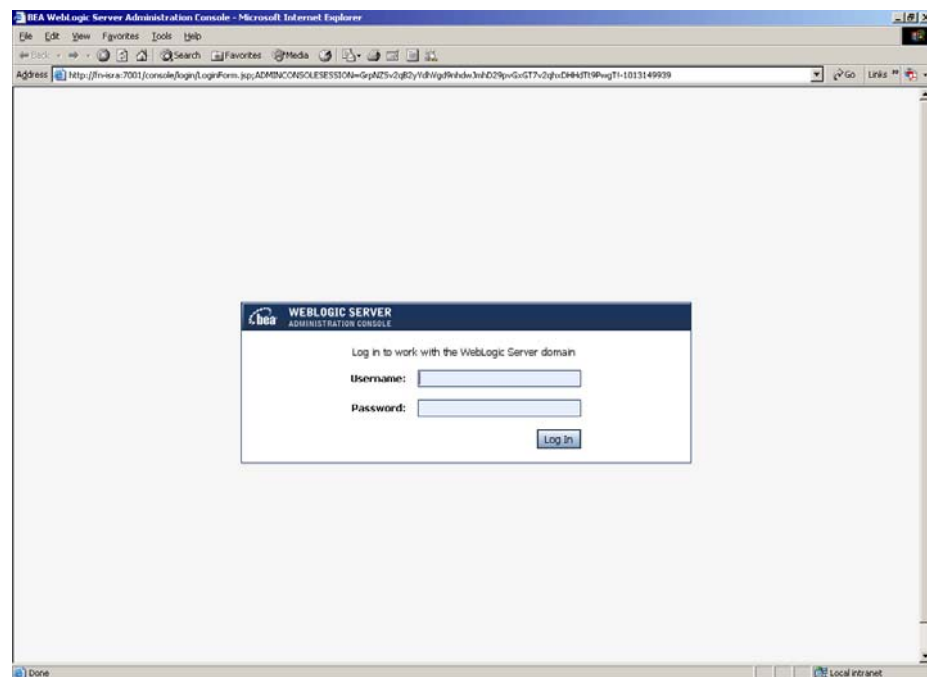
**Note** The screen shots shown in this guide have been taken on WebLogic Application Server 9.0.

---

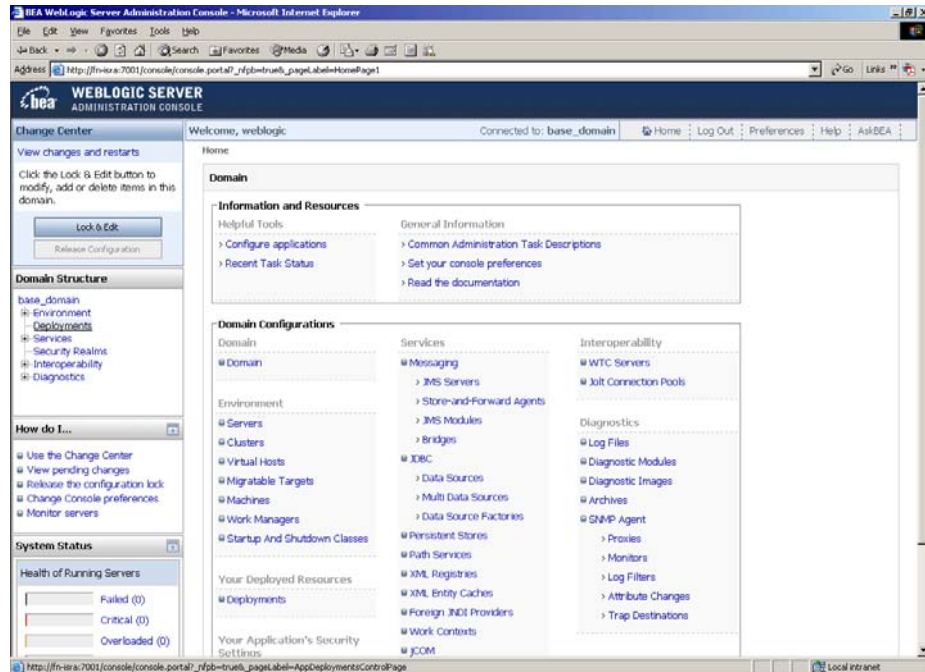
2. To open the administrative console, enter the following WebLogic admin console URL in a browser window:

`http://<hostname>:<portnumber>/console`

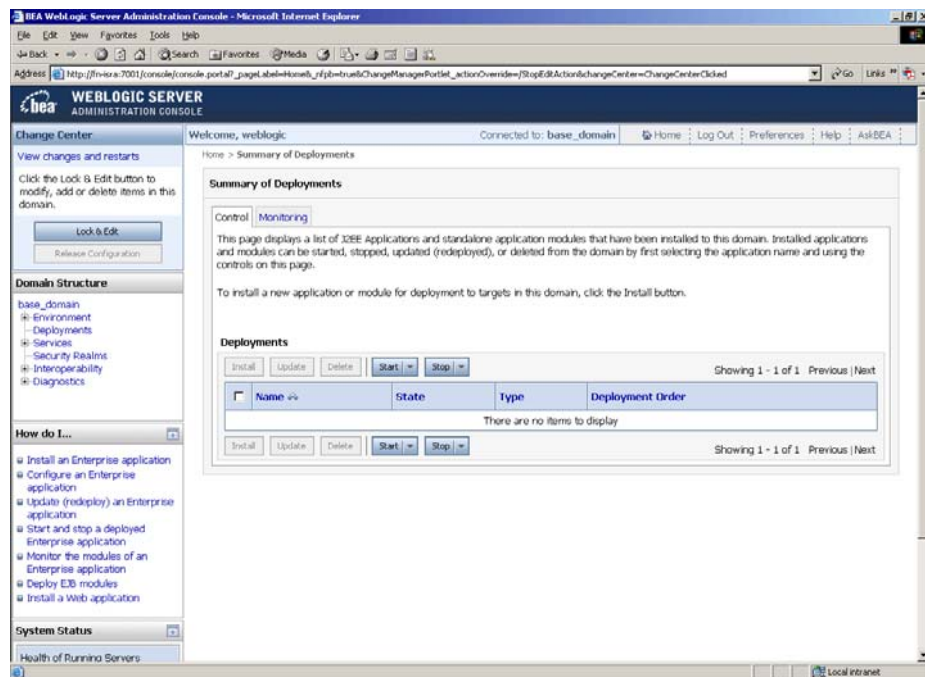
Depending on the WebLogic admin server setup, user may be prompted to enter the WebLogic admin user name and password.



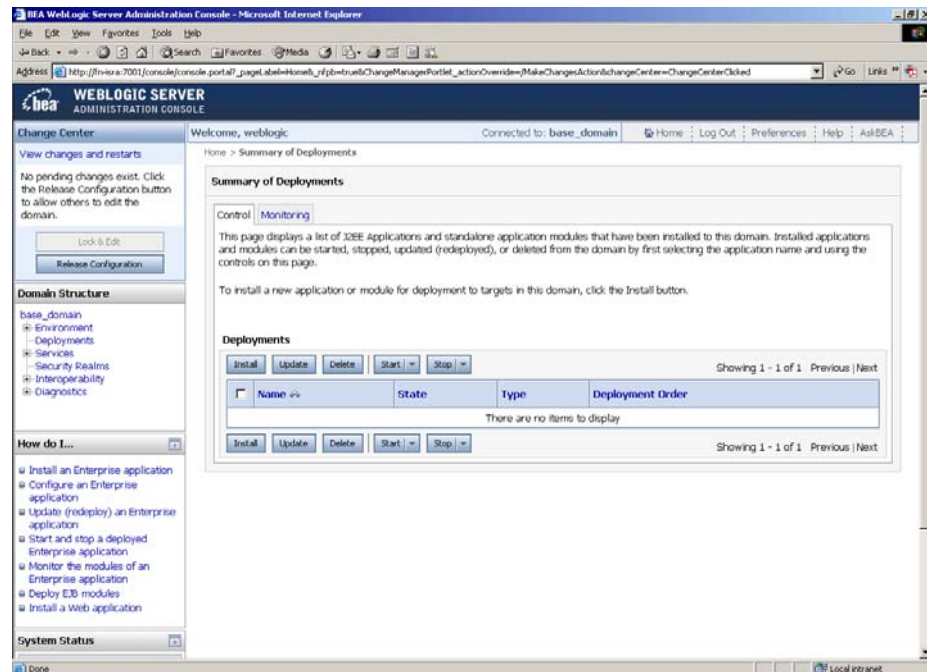
3. The WebLogic admin console sign on screen appears. Enter the WebLogic admin **Username** and **Password**. Click **Log In** to access the WebLogic admin console. The following screen appears:



4. Click **Deployments**. The **Summary of Deployments** screen appears:

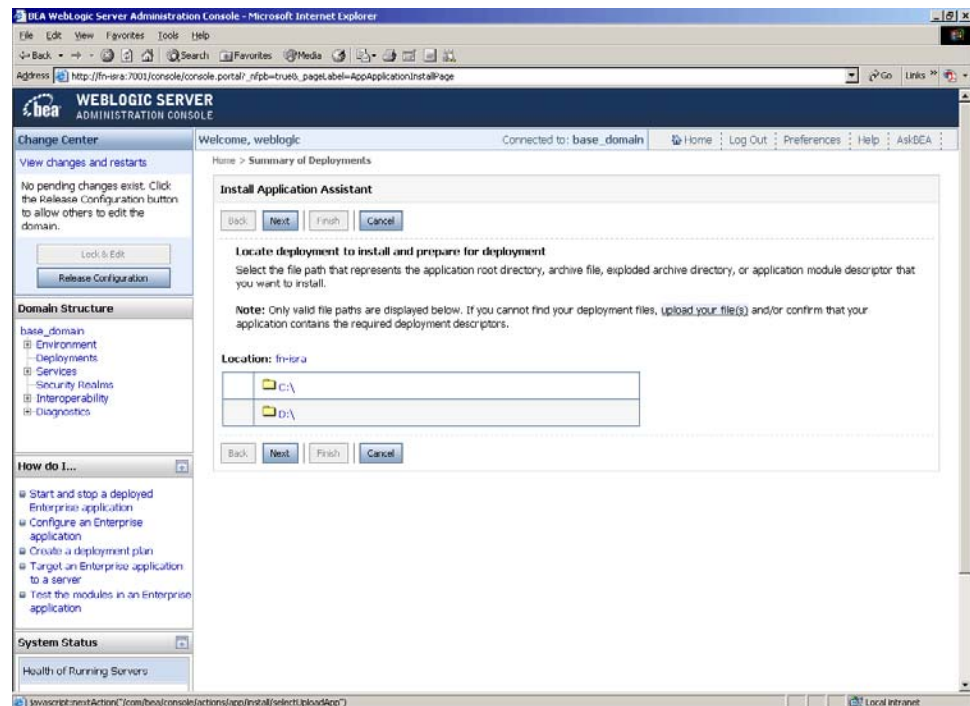


5. Click **Lock and Edit** button to make the console editable. The following screen appears:



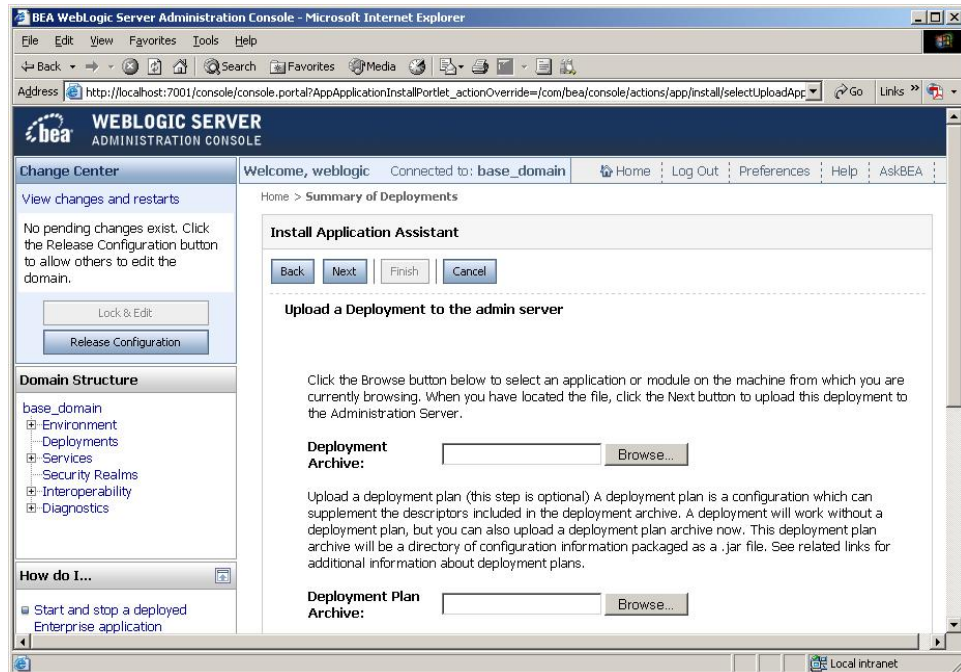
The **Release Configuration** button, along with the buttons under **Deployment** section is enabled.

6. Under **Deployments** click **Install** button. The **Install Application Assistant** screen appears:

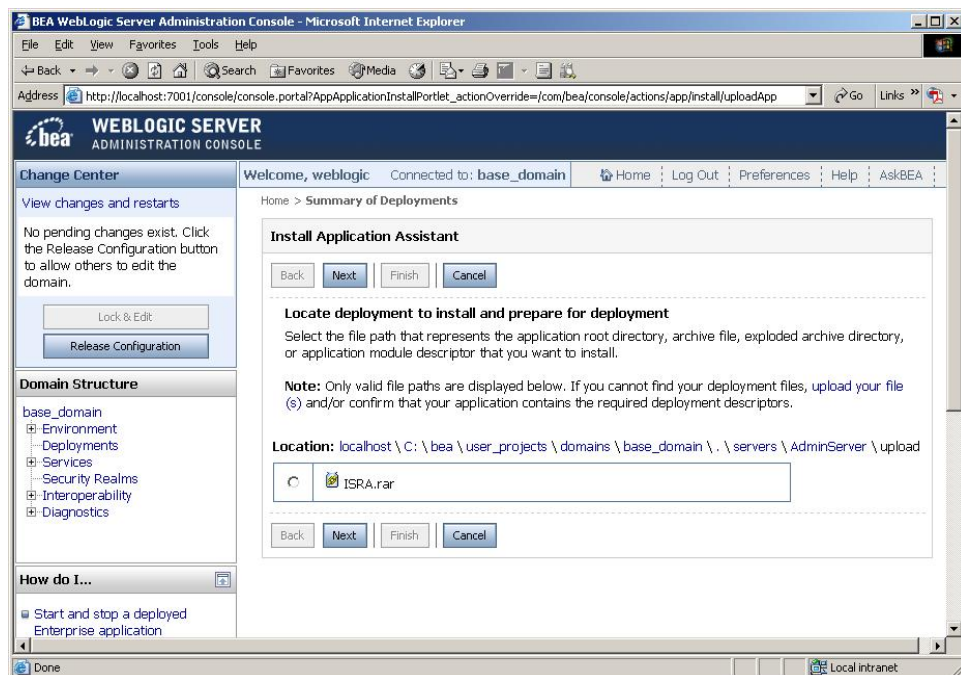


7. Click the **upload your file(s)** link. The following screen appears:



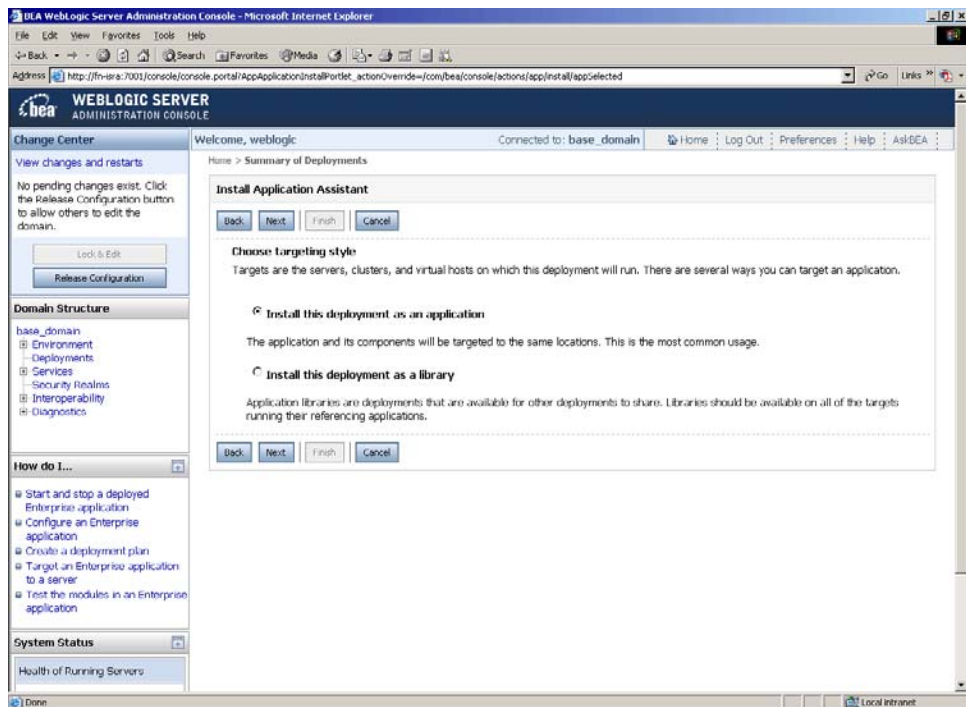


8. Click **Browse** to select the **ISRA.rar** file. The **ISRA.rar** file is located in **jar** subdirectory of the ISRA installation directory. For example, if user has installed ISRA in `C:\fns\ISRA` ( `/fns/ISRA` on UNIX), the **ISRA.rar** is located in `C:\fns\ISRA\jar\` ( `/fns/ISRA/jar` on UNIX) directory.
9. Click **Next** to upload the **ISRA.rar** file. The system may take some time to upload the file. The following screen appears:

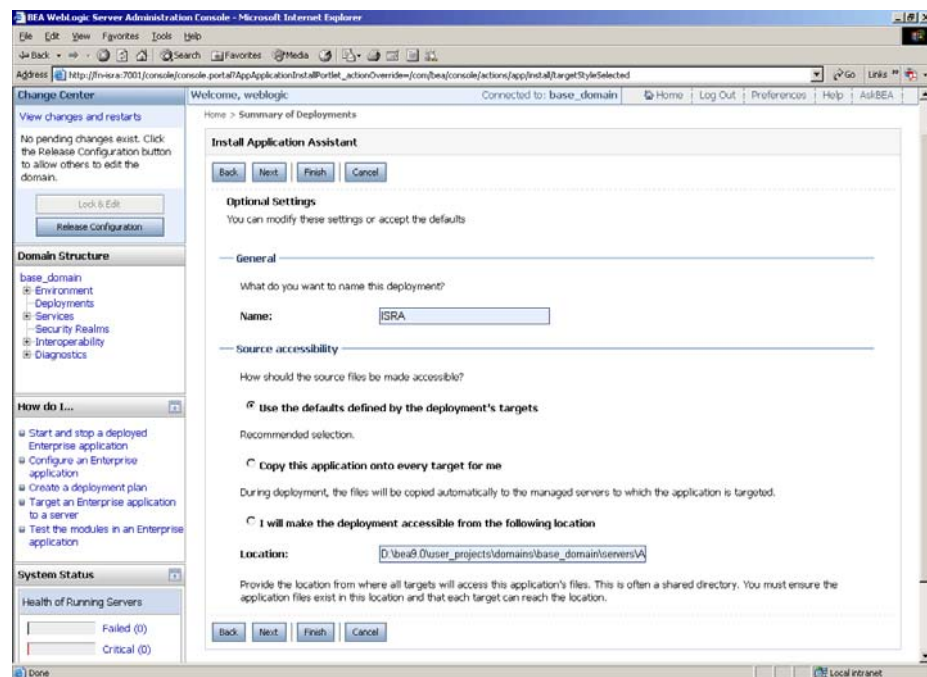


10. Select the radio button corresponding to **ISRA.rar**, and click **Next**. The following screen appears:



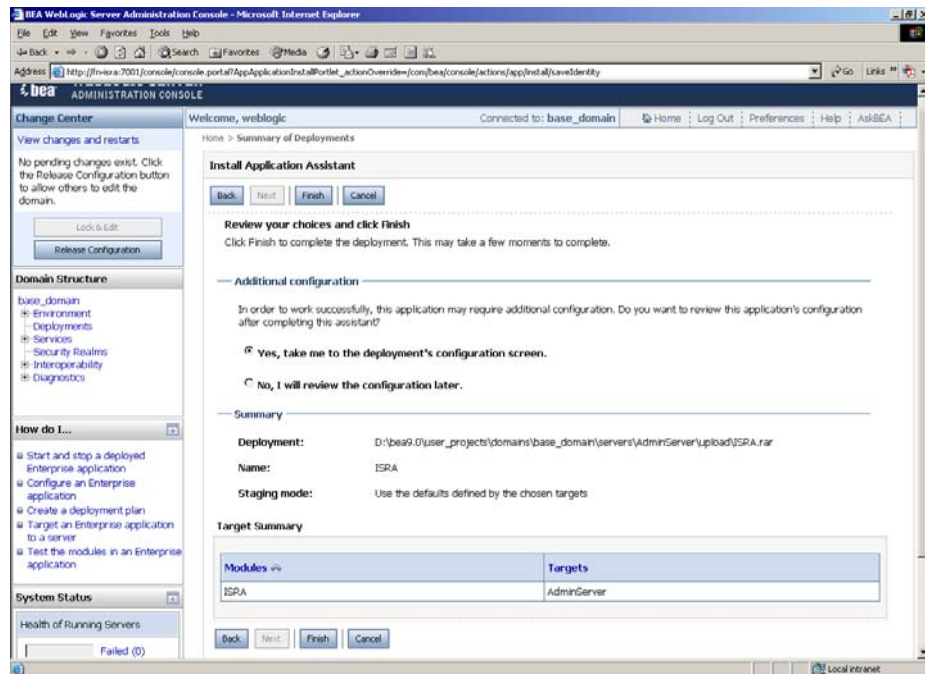


11. Select the radio button corresponding to **Install this deployment as an application**, if not selected by default, and click **Next**. The following screen appears:

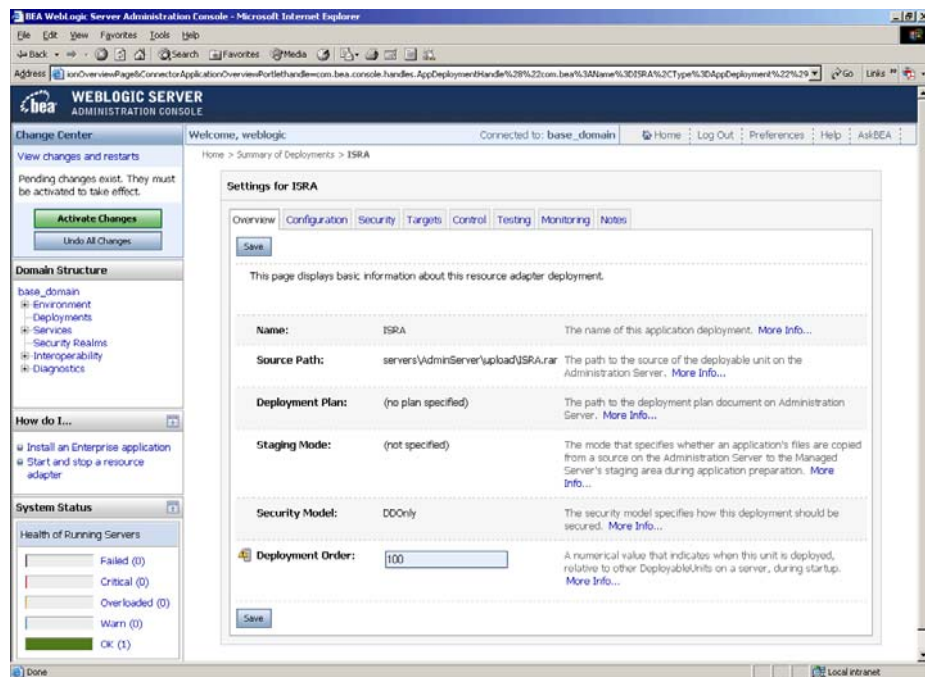


This screen displays the optional settings of the deployed file.

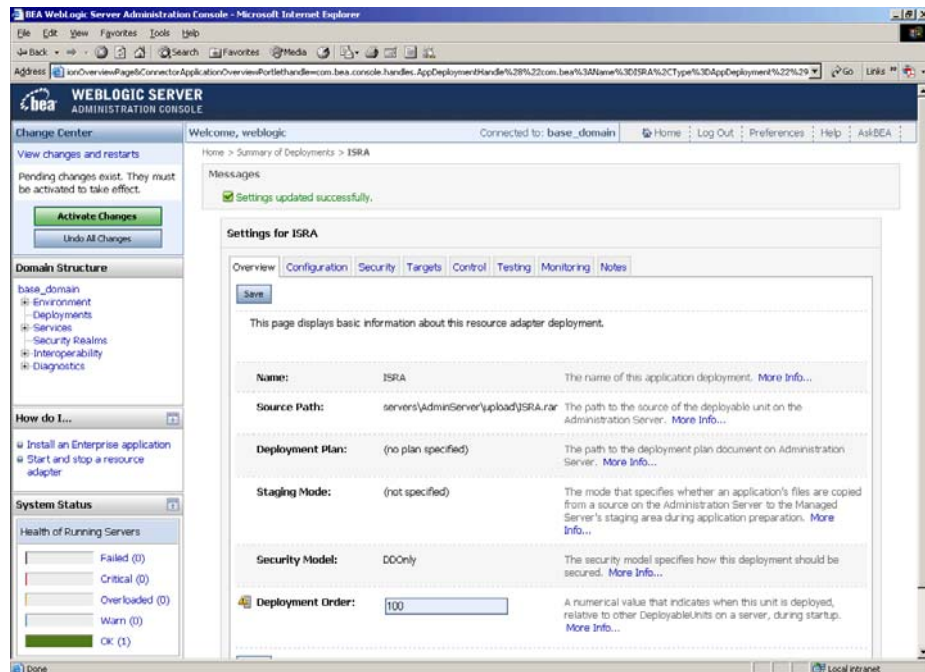
12. Retain the default settings, and click **Next**. The following screen appears:



13. Retain the default settings, and click **Finish**. The following screen appears:

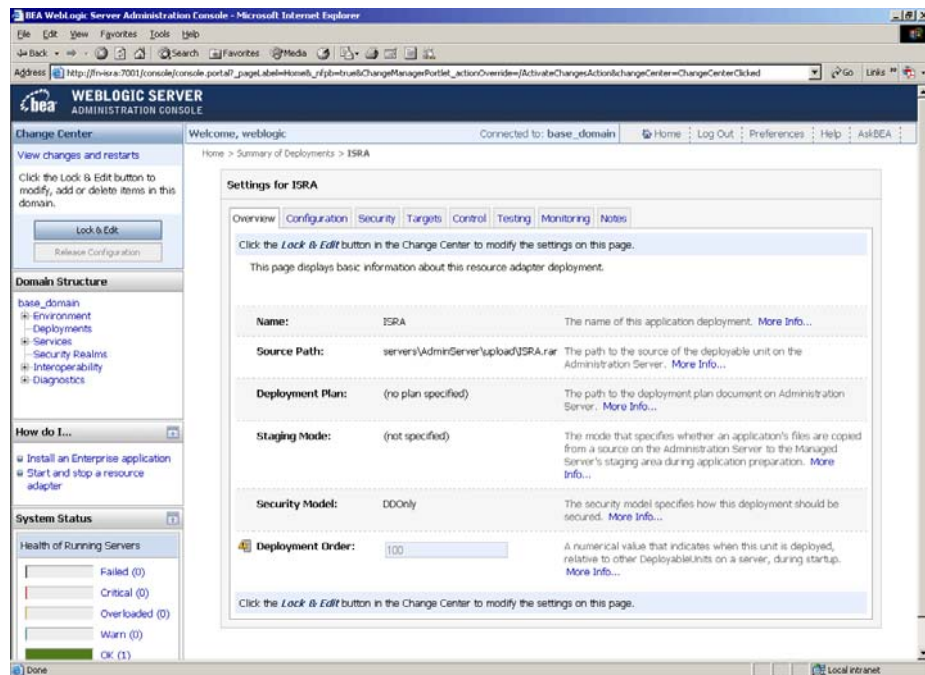


14. Click **Save**. The successful upload confirmation screen appears:



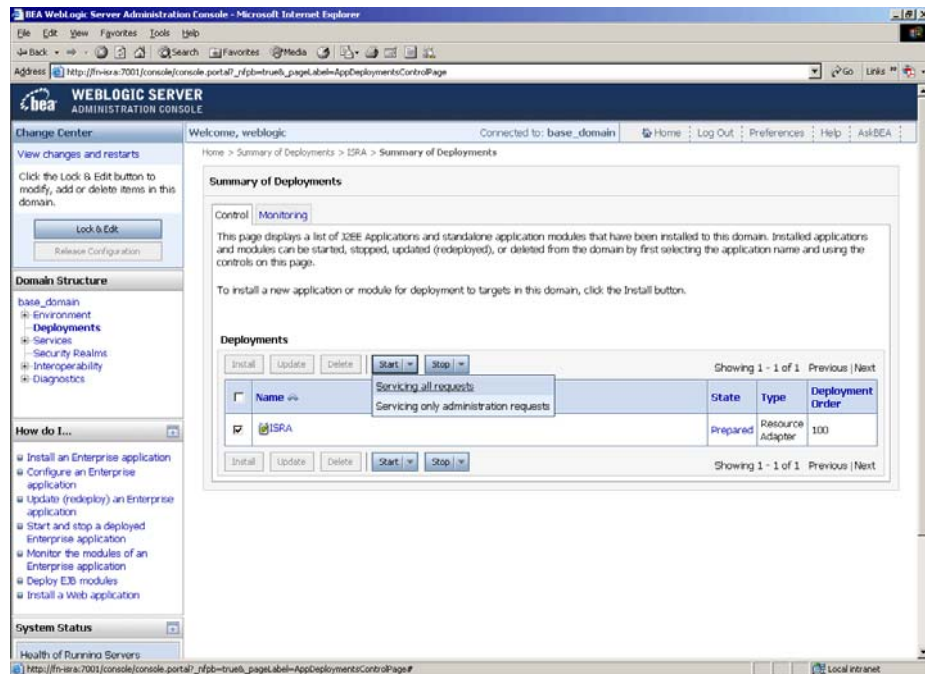
The system returns to the same page with the message: 'Settings updated successfully' displayed.

15. Click **Activate Changes** button. The following screen appears:



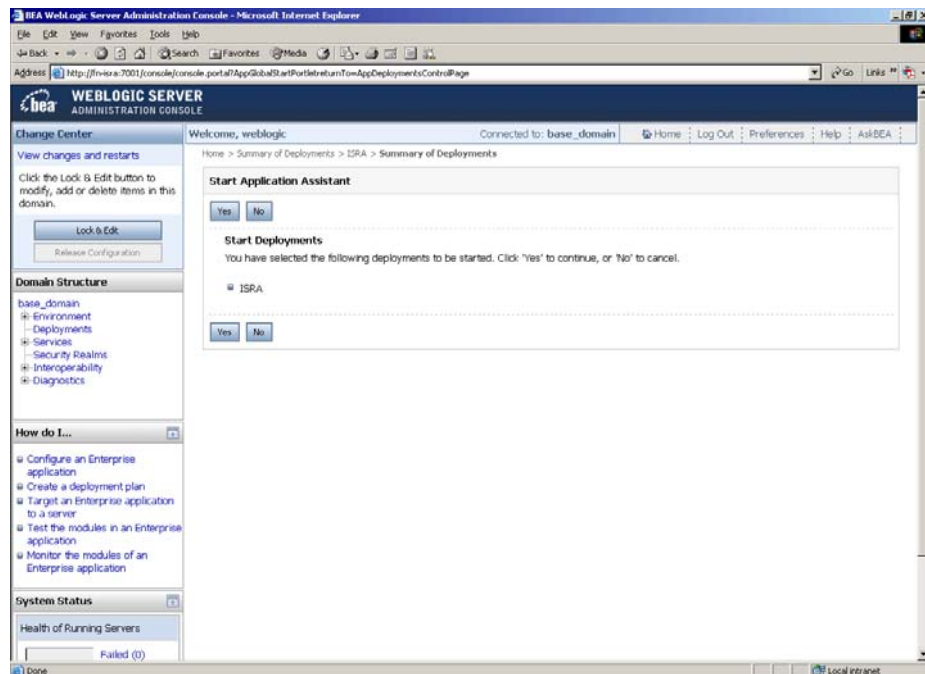
An overview of the deployments made is reflected. The **ISRA.rar** file is successfully deployed.

16. Click **Deployments**. The following screen appears:



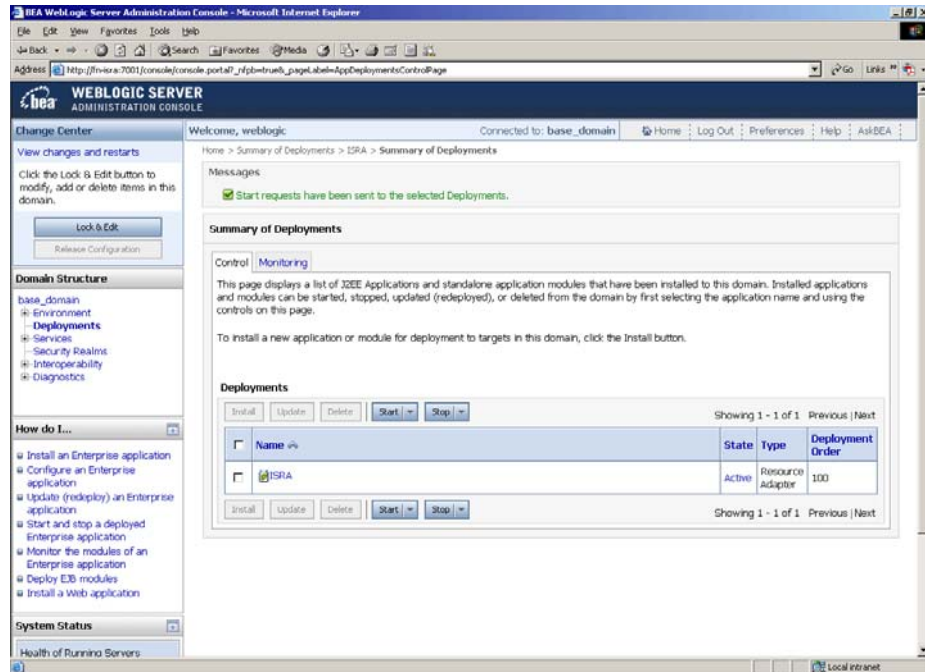
A summary of deployments is reflected on the screen.

17. Select the check box corresponding to **ISRA**, and click **Servicing all requests** from the **Start** drop-down button. The **Start Application Assistant** screen appears:



18. Click **Yes** to start the deployment of the **ISRA.rar** file. The **Summary of Deployment** screen appears:





The **Status** of the deployed file changes to **Active**. The confirmation message: 'Start requests have been sent to the selected Deployments' is displayed.

19. Deploying ISRA completed.

20. Refer [Mandatory Requirements for ISRA](#) section before restarting the Application Server.

## Deploying Exploded Archive Files

To deploy the **ISRA.rar** file in **exploded** form:

1. Create a temporary directory **ISRATemp** and copy **ISRA.rar** into it. Change the directory to **ISRATemp** and execute command `jar -xvf ISRA.rar`
2. Create the **weblogic-ra.xml** file using any text editor.

The values corresponding to all attributes can be modified as required and saved as **weblogic-ra.xml** in the **META-INF** subfolder:

```
ISRATemp\ISRA.jar
\META-INF\ra.xml
\META-INF\weblogic-ra.xml
```

3. Start the WebLogic Server.

– On Windows Server, to start WebLogic Administration Server, navigate to:

**Start > Programs > BEA Products -> User Projects > <domain\_name> > Start Admin server for WebLogic Server Domain.**

Alternatively, the Configuration Wizard scripts can also be used to start the Administration Server. When the Configuration Wizard is used to create a domain, the wizard also creates a script that can be used to start an Administration Server for the domain. To use the script, execute the **startWebLogic.cmd** file located at the following path:

```
<WebLogic Installation Directory>\  
user_projects\domains\<domain_name>
```

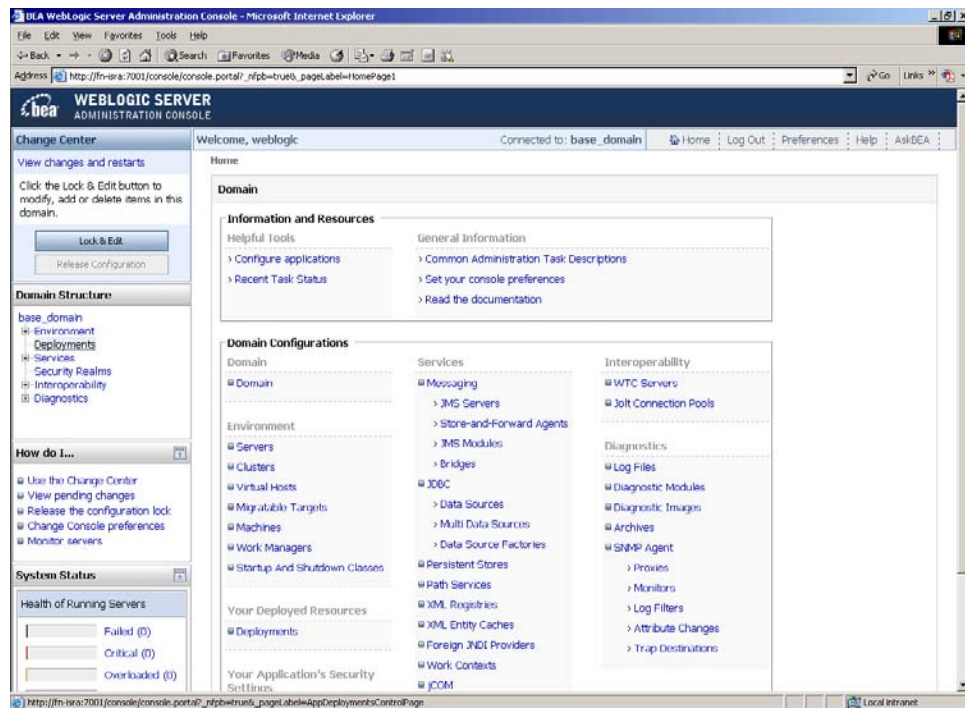
- On a UNIX/Linux system, login as the root user and execute the startWebLogic script, as:

```
# cd <WebLogic Installation Directory>/  
user_projects/<domain_name>  
# ./startWebLogic.sh
```

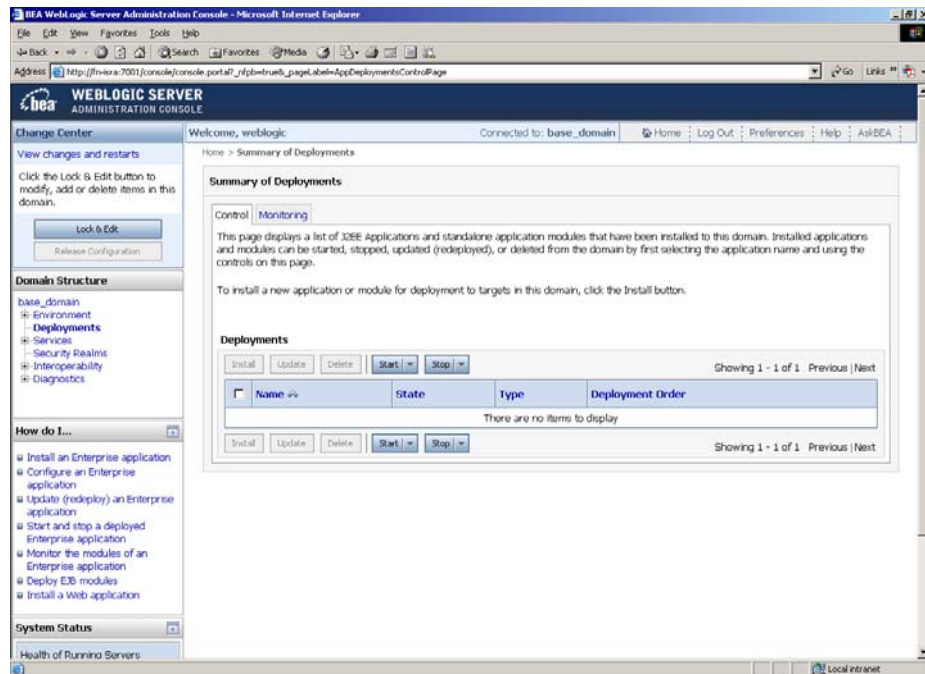
- 4. To open the administrative console, enter the WebLogic admin console URL `http://<hostname>:<portnumber>/console` in a browser window.

Depending on the WebLogic admin server setup, user may be prompted to enter the WebLogic admin user name and password.

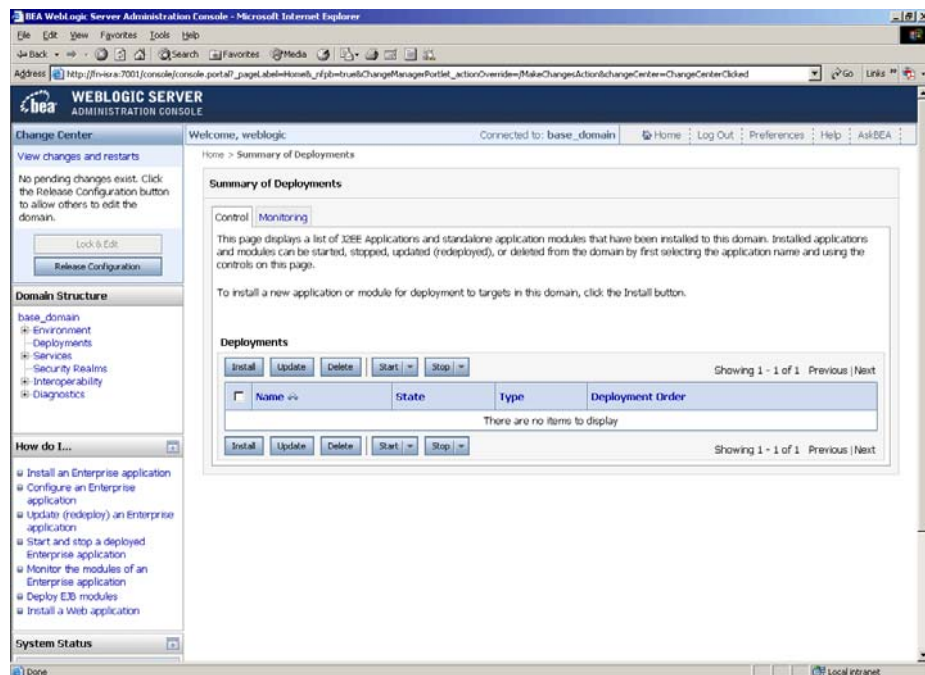
- 5. The WebLogic admin console sign on screen appears. Enter the WebLogic admin **Username** and **Password**. Click **Sign In** to access the WebLogic admin console. The following screen appears:



- 6. Click **Deployments**. The following screen appears:

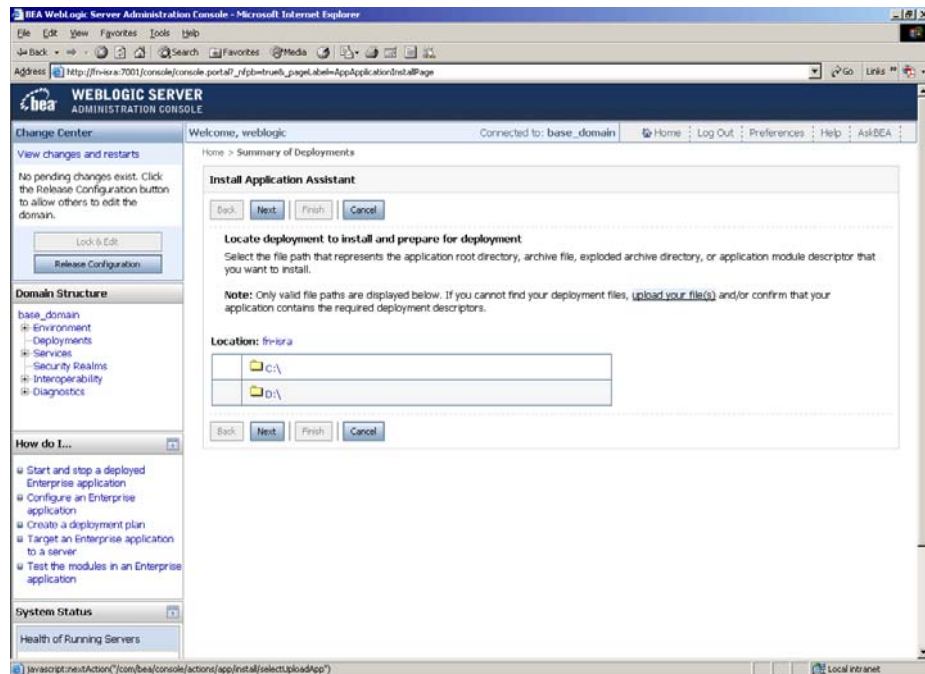


7. Click **Lock and Edit** button to make the console editable. The following screen appears:

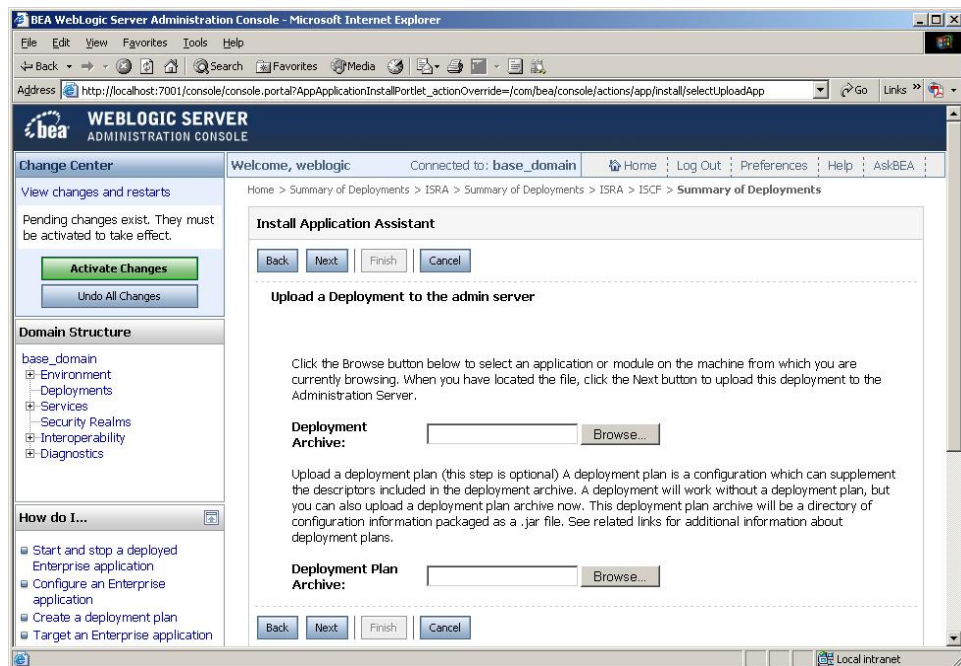


The **Release Configuration** button, along with the buttons under **Deployment** section is enabled.

8. Under **Deployments** click **Install** button. The **Install Application Assistant** screen appears:



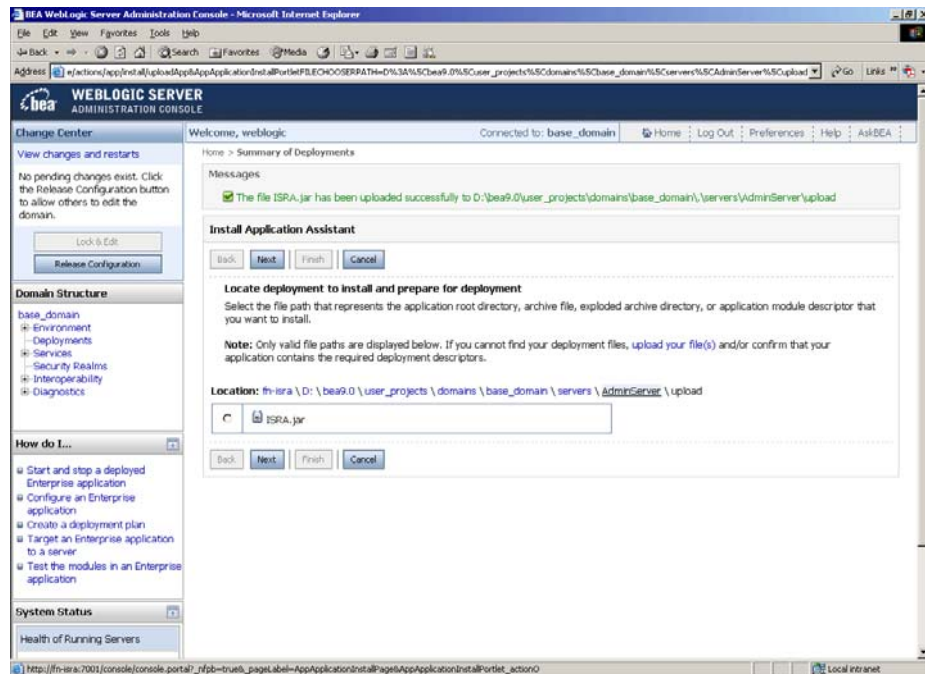
9. Click the **upload your file(s)** link. The following screen appears:



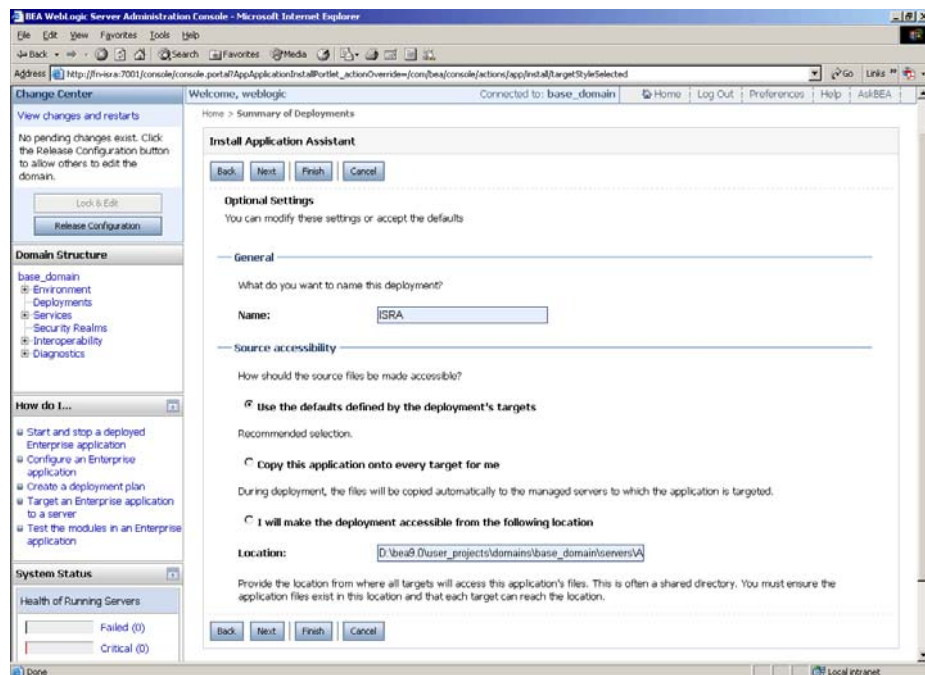
10. Click **Browse** to select the **ISRA.jar** file.

11. Click **Next** to upload the **ISRA.jar** file. The system may take some time to upload the file. The following screen appears:



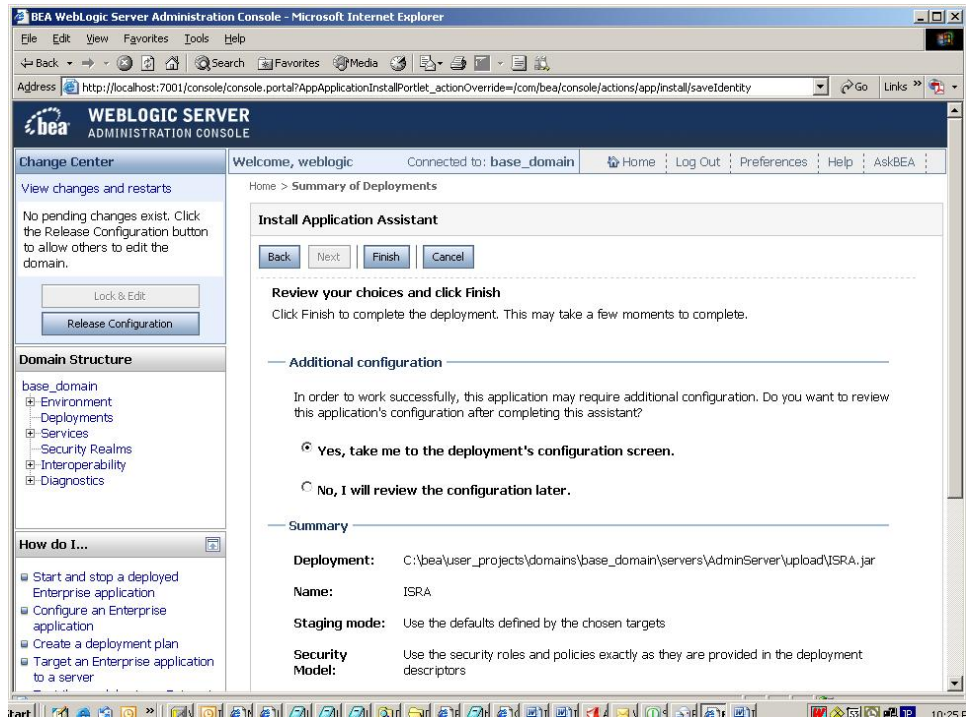


12. Select the radio button corresponding to **ISRA.jar**, and click **Next**. The following screen appears:

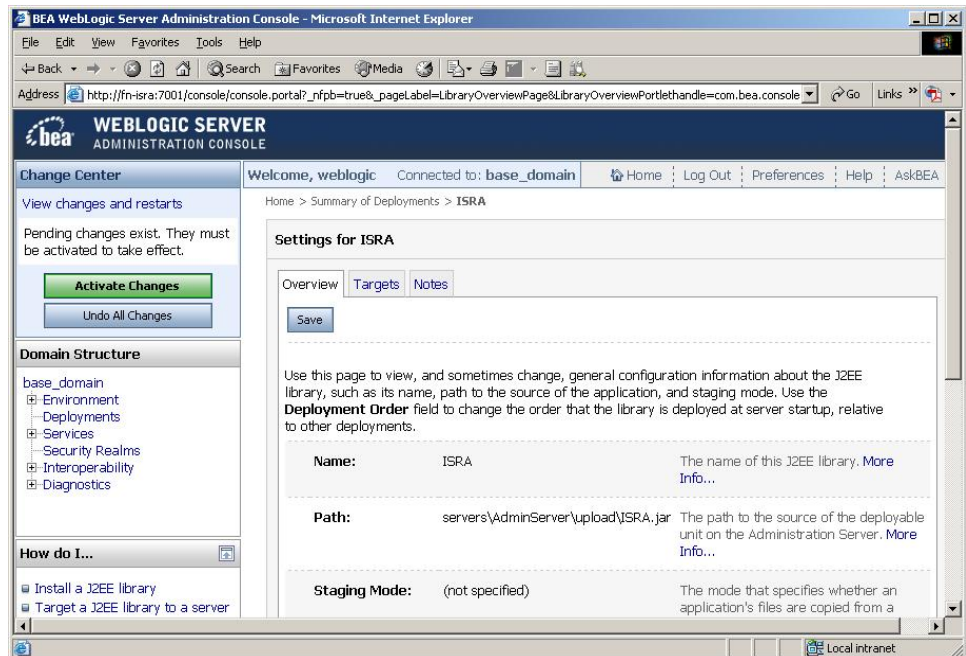


This screen displays the optional settings of the deployed file.

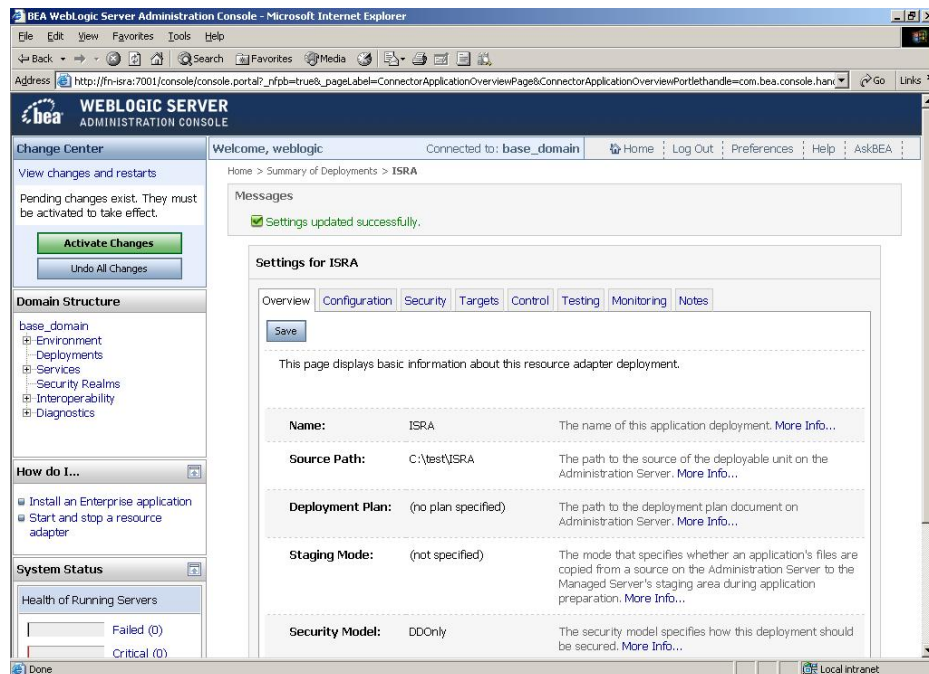
13. Retain the default settings, and click **Next**. The following screen appears:



14. Retain the default settings, and click **Finish**. The following screen appears:

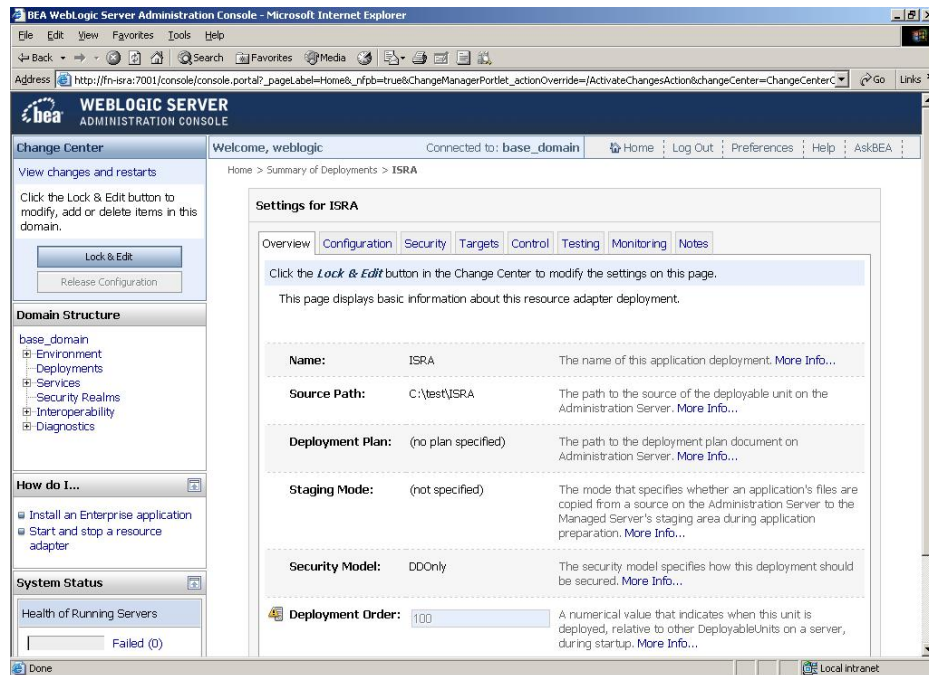


15. Click **Save**. The successful upload confirmation screen appears:



The system returns to the same page with the message: 'Settings updated successfully' displayed.

16. Click **Activate Changes** button. The following screen appears:



An overview of the deployments made is reflected. The **ISRA.jar** file is successfully deployed.

17. Create a new directory **META-INF** in the **<WebLogic Installation Directory>\user\_projects\domains<domain-name>\servers<server-name>\upload** directory and copy **ra.xml** and **weblogic-ra.xml** into it.

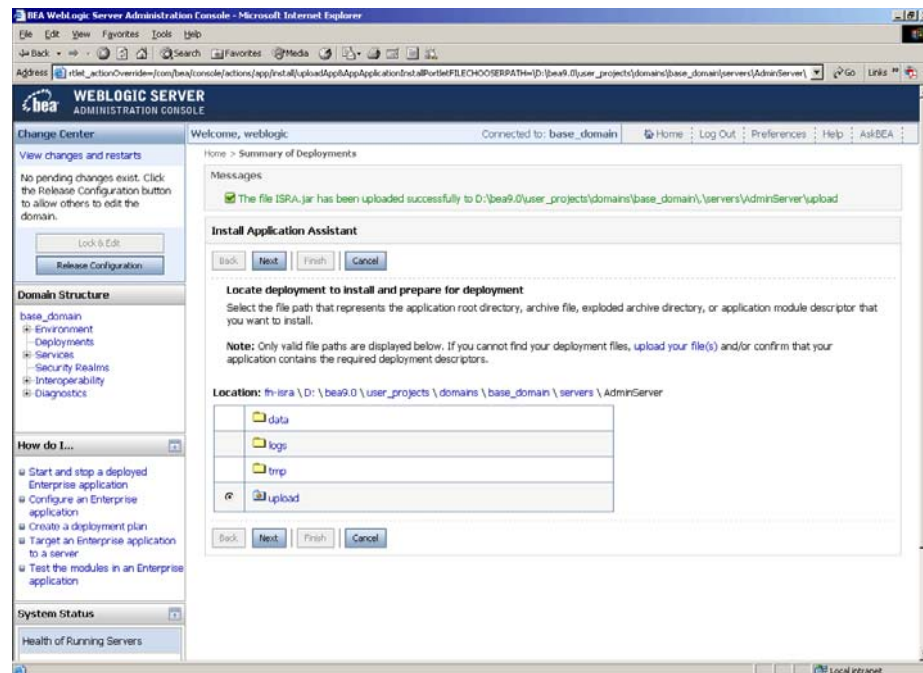
On Windows Server, enter the command:

```
copy C:\ISRATemp\META-INF <WebLogic
Installation Directory>\user_projects\<domain-
name>\<server-name>\upload\META-INF
```

On a UNIX machine, enter the command:

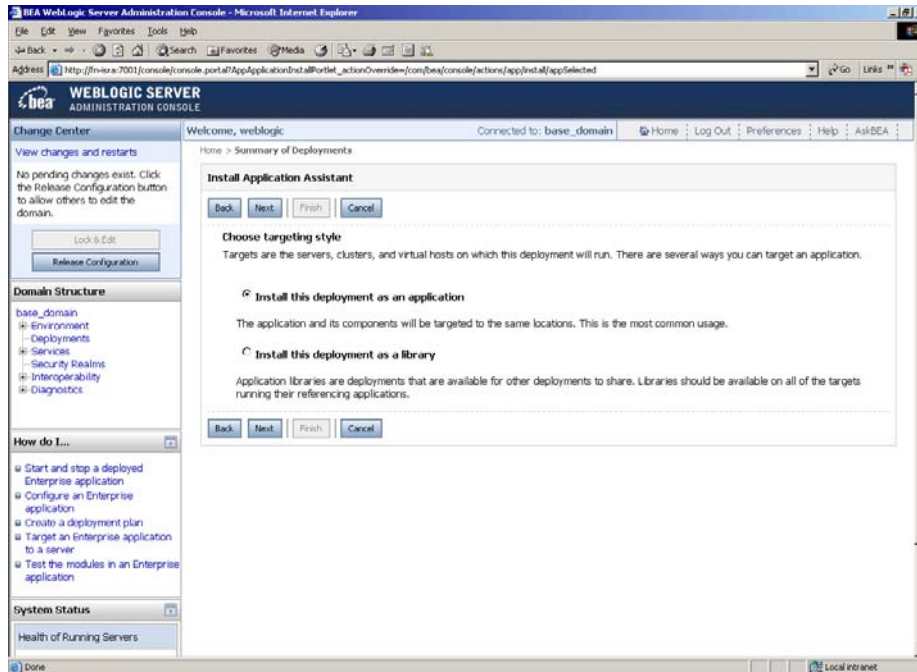
```
cp / ISRATemp /META-INF <WebLogic Installation
Directory>/user_projects/<domain-name>/<server-
name>/upload/META-INF
```

18. Click **Deployments** and then **Install** button.
19. Navigate to **AdminServer /upload** directory ( **Deployments -> Install**). The following screen appears:

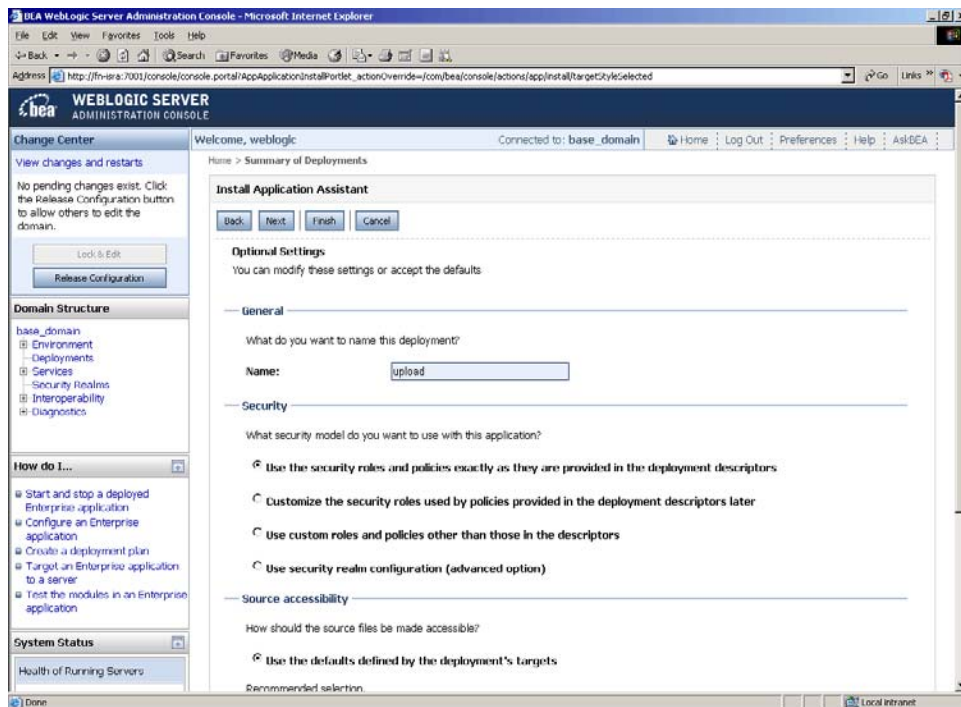


20. Select the radio button corresponding to **upload**, and click **Next**. The following screen appears:



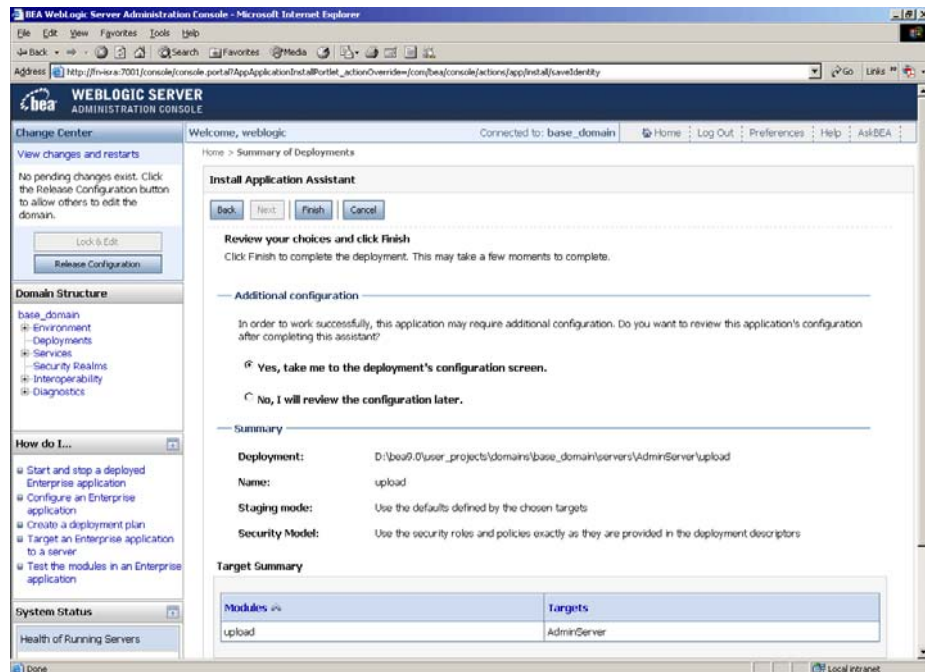


21. Select the radio button corresponding to **Install this deployment as an application**, if not selected by default, and click **Next**. The following screen appears:



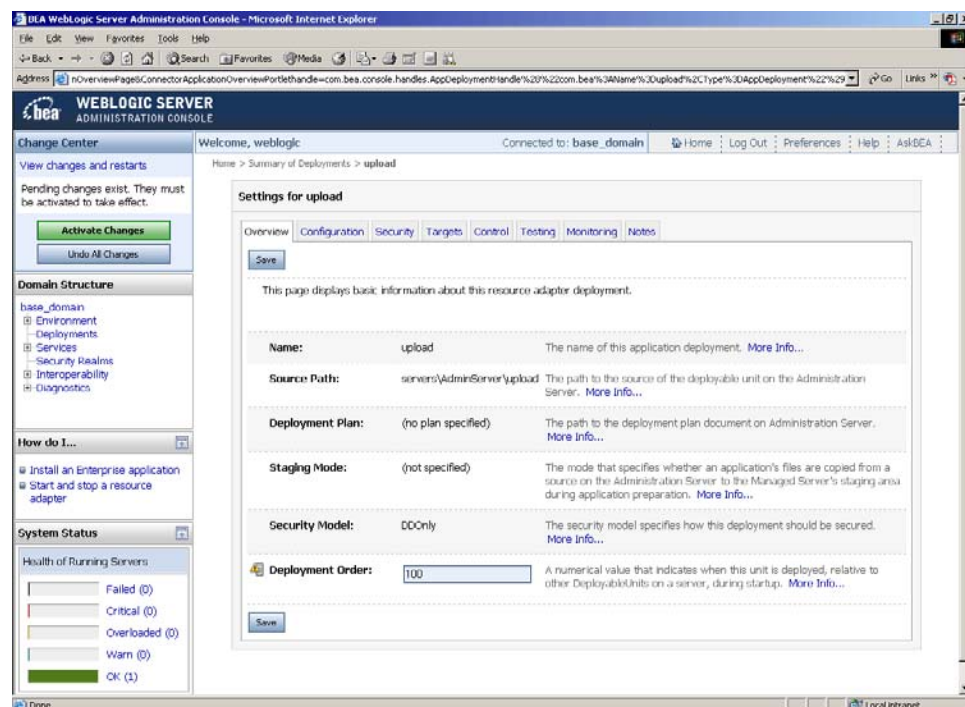
This screen displays the optional settings of the deployed file.

22. Retain the default settings, and click **Next**. The following screen appears:

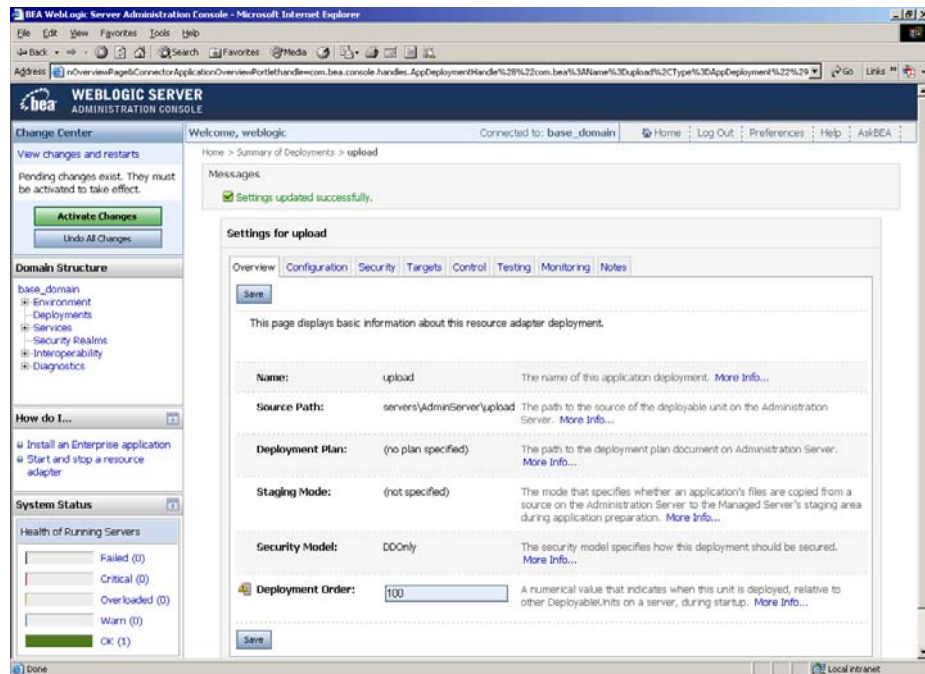


This screen displays the target server on which the Connector module should be deployed.

23. Retain the default settings, and click **Finish**. The following screen appears:

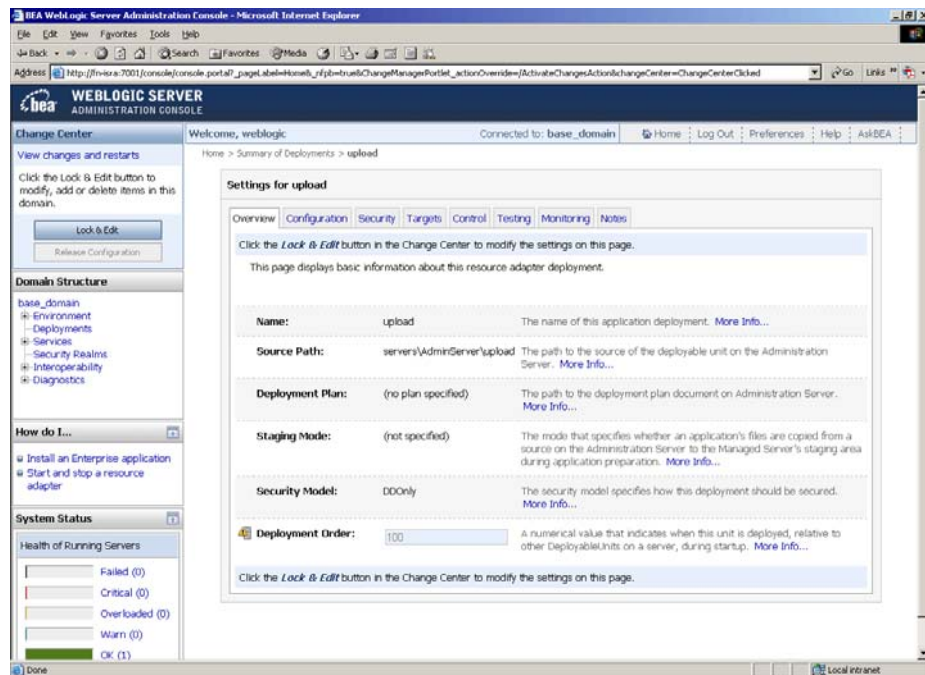


24. Click **Save**. The successful upload confirmation screen appears:



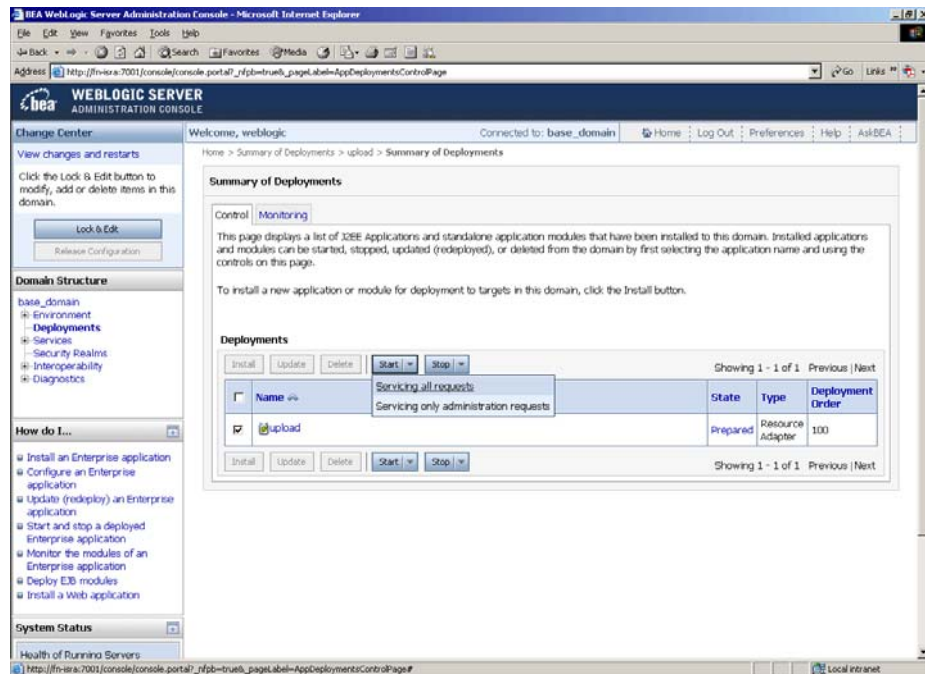
The system returns to the same page with the message: 'Settings updated successfully' displayed.

25. Click **Activate Changes** button. The following screen appears:



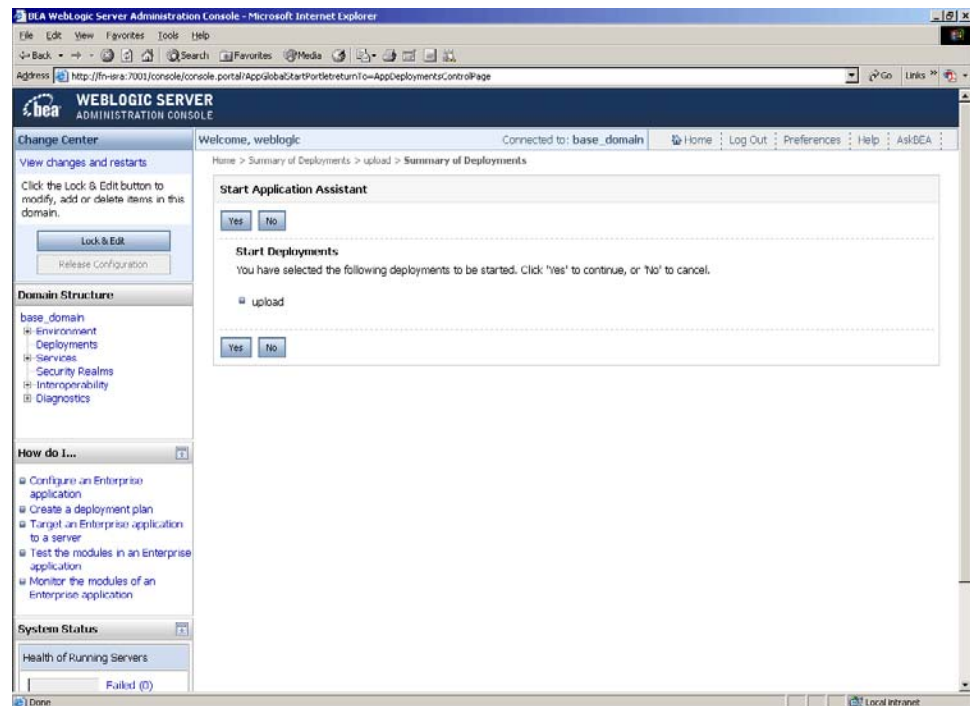
An overview of the deployments made is reflected. ISRA is successfully deployed in exploded format.

26. Click **Deployments**. The following screen appears:



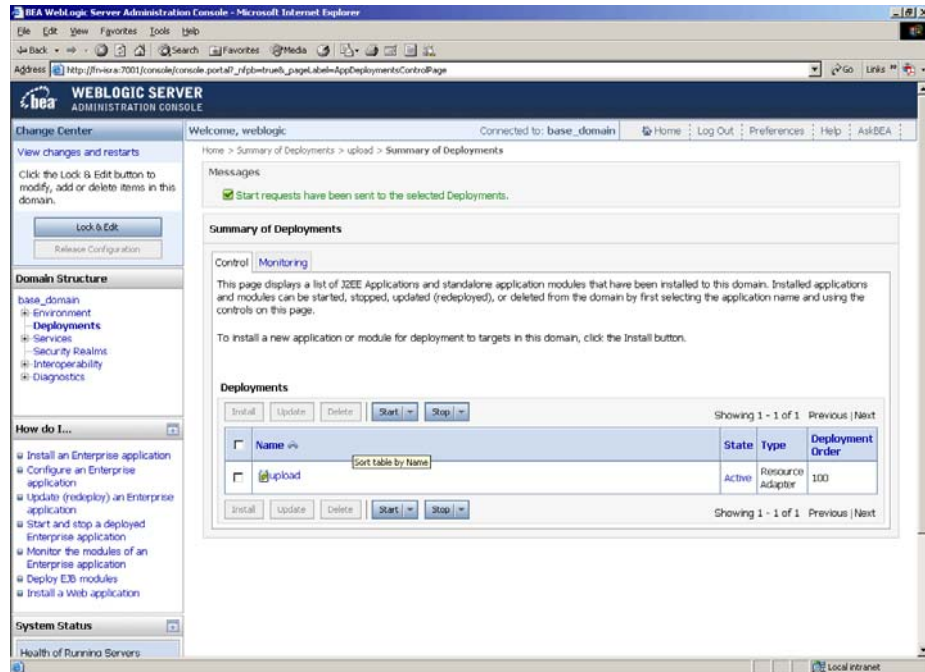
A summary of deployments is reflected on the screen.

27. Select the check box corresponding to **upload**, and click **Servicing all requests** from the **Start** drop-down button. The **Start Application Assistant** screen appears:



28. Click **Yes** to start the deployment of upload file. The Summary of Deployments screen appears:





The **Status** of the deployed file changes to **Active**. The confirmation message: 'Start requests have been sent to the selected Deployments' is displayed.

## Deploying ISRA in a Clustered Environment

To deploy the **ISRA.rar** file:

---

**Note** The weblogic-ra.xml deployment descriptor elements and Connector Descriptor attributes (ra.xml) of the Resource Adapter can be manually edited through WebLogic 9.x console.

---

### 1. Start the WebLogic Server.

- On Windows Server, to start WebLogic Administration Server, navigate to:

**Start > Programs > BEA Products -> User Projects > <domain\_name> > Start Admin server for Weblogic Server Domain**

Alternatively, the Configuration Wizard scripts can also be used to start the Administration Server. When the Configuration Wizard is used to create a domain, the wizard also creates a script that can be used to start an Administration Server for the domain. To use the script, execute the **startWebLogic.cmd** file located at the following path:

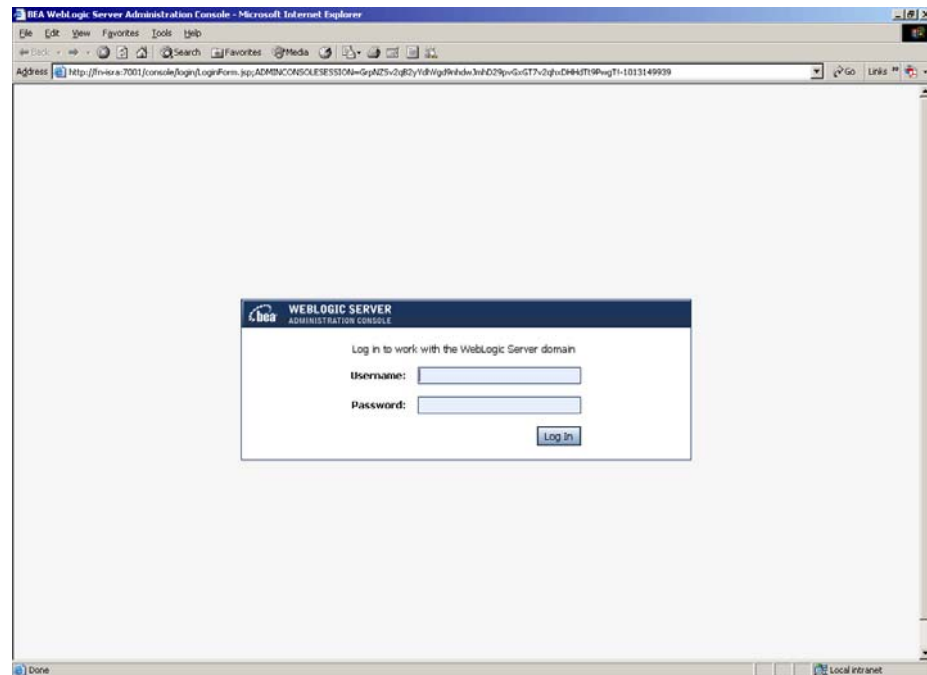
```
<WebLogic Installation Directory>\
user_projects\domains\<domain_name>
```

- On an UNIX system, login as the root user and execute the startWebLogic script, as:

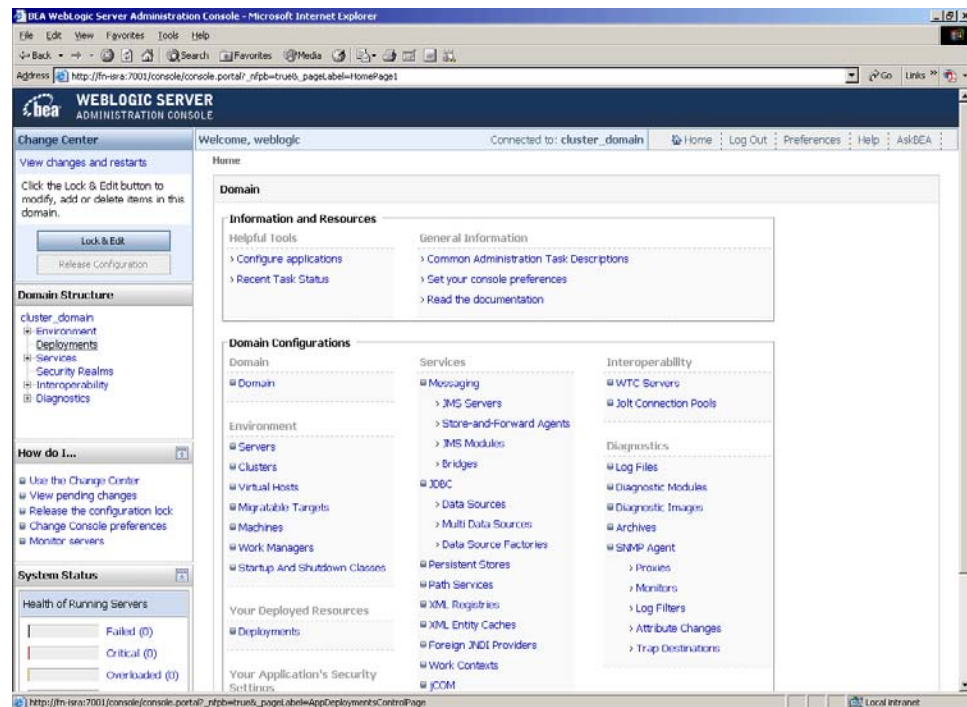
```
# cd <WebLogic Installation Directory>/
user_projects/domains/<domain_name>
# ./startWebLogic.sh
```

### 2. To open the administrative console, enter the following WebLogic admin console URL in a browser window: http://<hostname>:<portnumber>/console

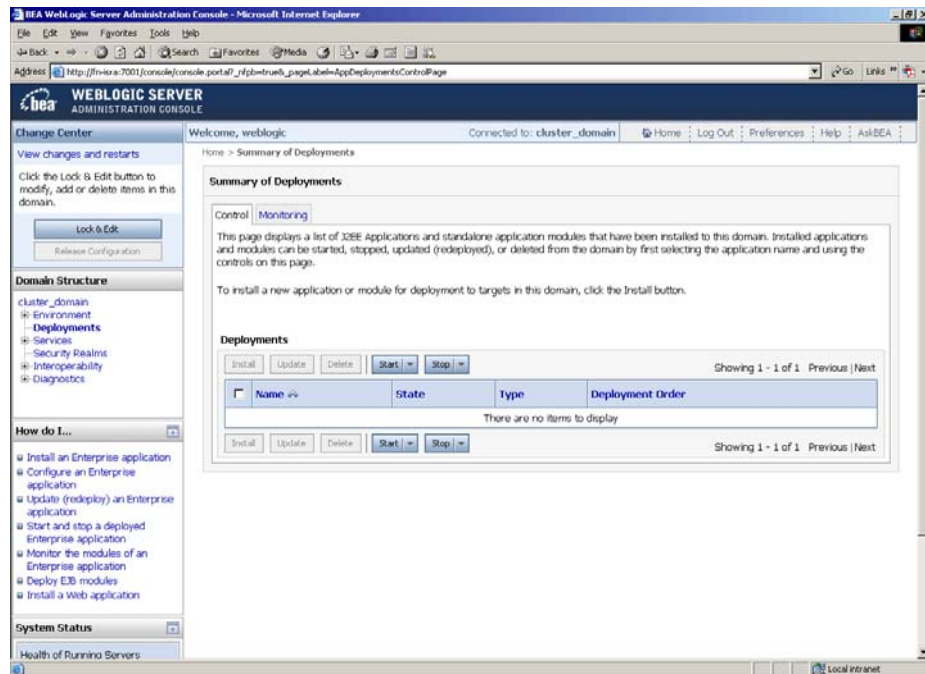
Depending on the WebLogic admin server setup, user may be prompted to enter the WebLogic admin user name and password.



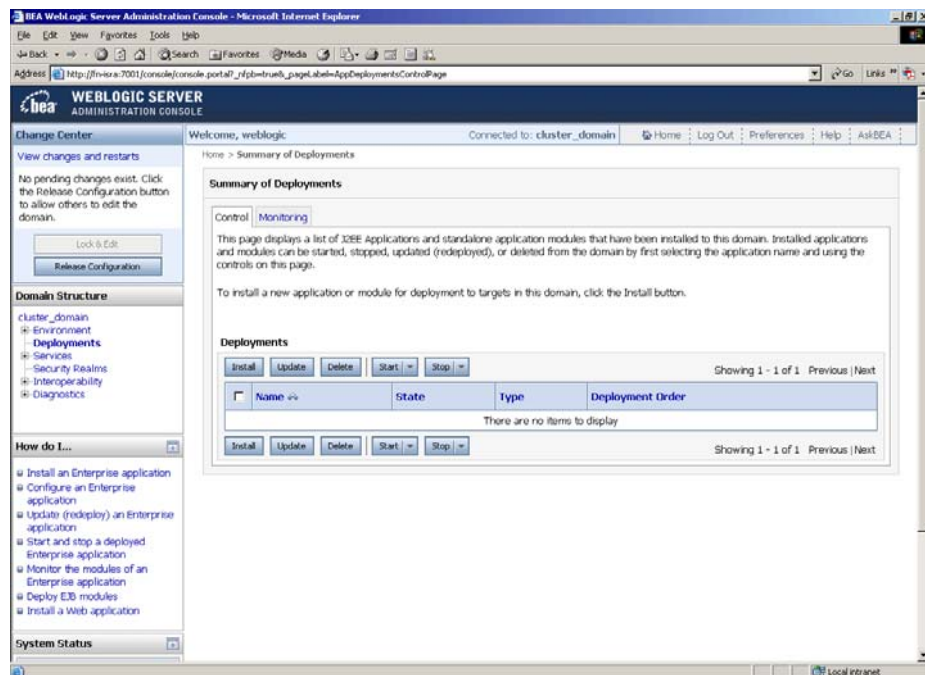
3. The WebLogic admin console sign on screen appears. Enter the WebLogic admin **Username** and **Password**. Click **Log In** to access the WebLogic admin console. The following screen appears:



4. Click **Deployments**. The following screen appears:

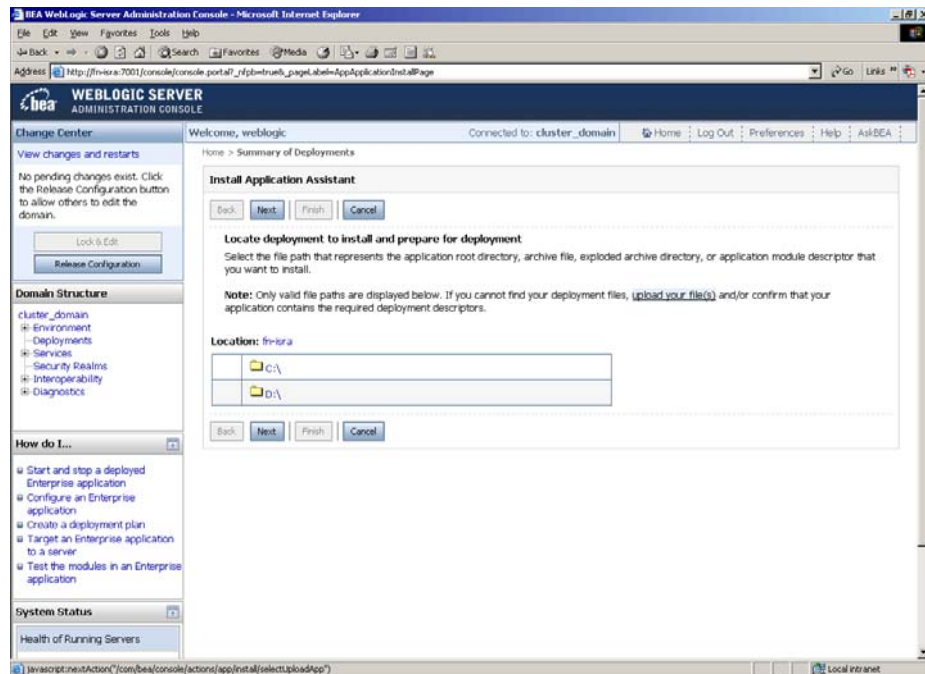


5. Click **Lock and Edit** button to make the console editable. The following screen appears.

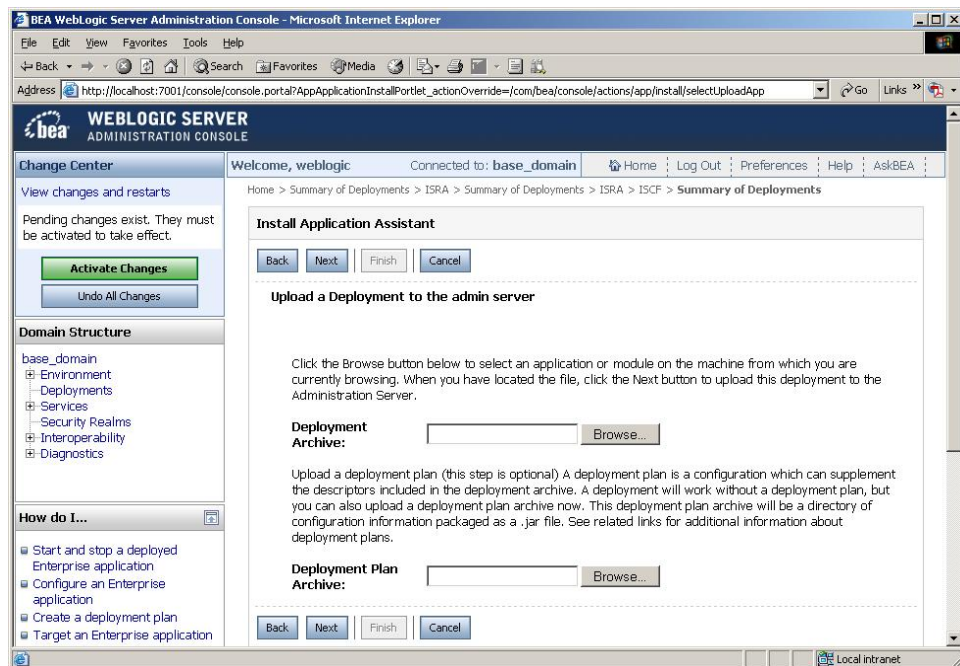


The **Release Configuration** button, along with the buttons under **Deployment** section is enabled.

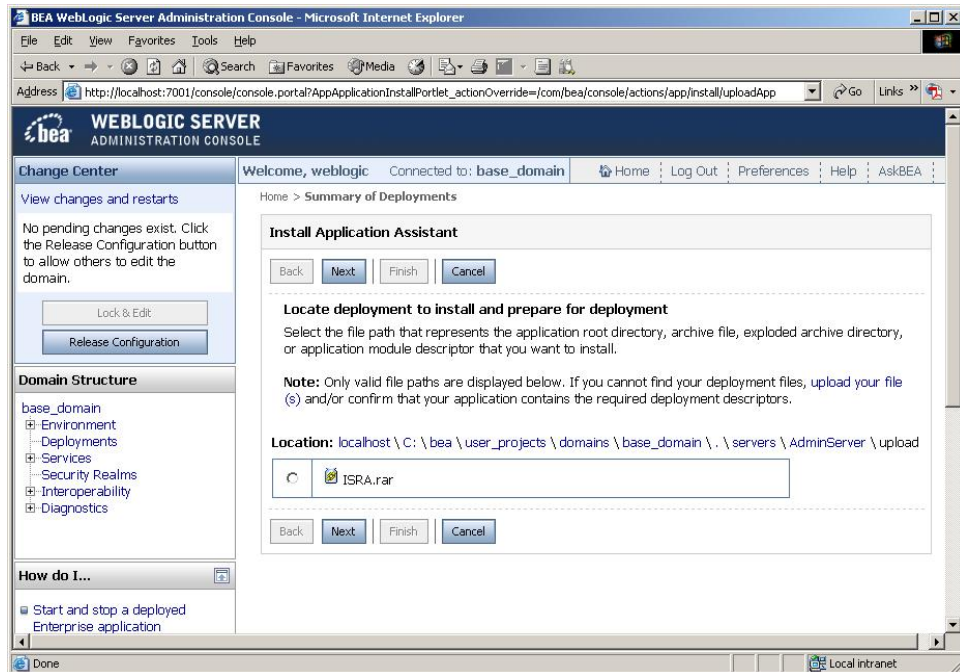
6. Under **Deployments** click **Install** button. The **Install Application Assistant** screen appears:



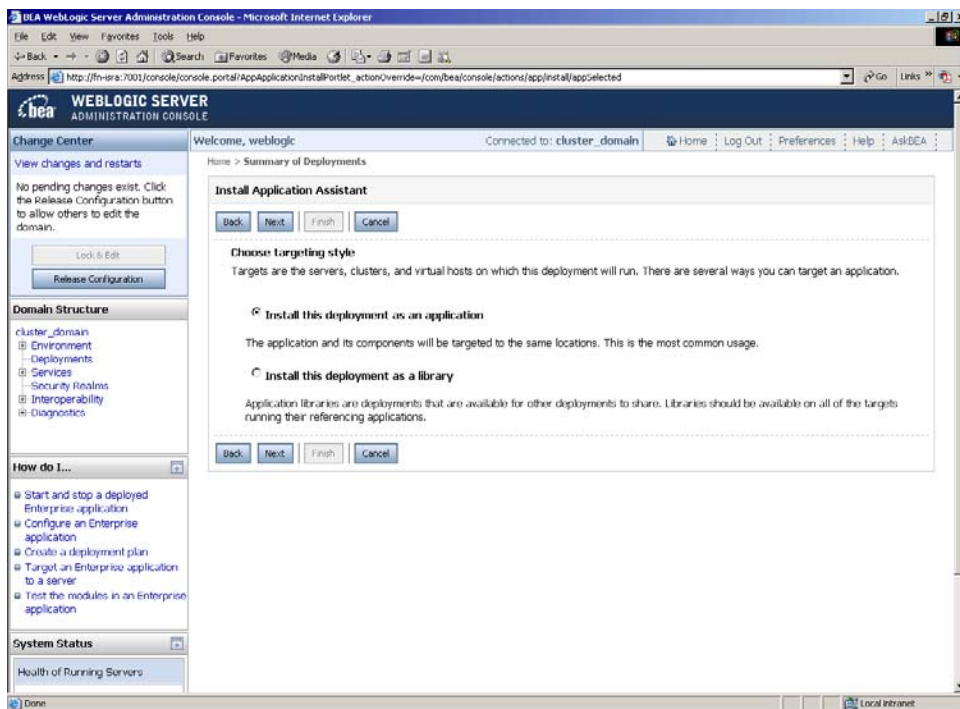
7. Click the **upload your file(s)** link. The following screen appears:



8. Click **Browse** to select the **ISRA.rar** file. The **ISRA.rar** file is located in **jar** subdirectory of the ISRA installation directory. For example, if user has installed ISRA in **C:\fnsw\ISRA** ( /fnsw/ISRA on UNIX), the **ISRA.rar** is located in **C:\fnsw\ISRA\jar\** ( /fnsw/ISRA/jar on UNIX) directory.
9. Click **Next** to upload the **ISRA.rar** file. The system may take some time to upload the file. The following screen appears:

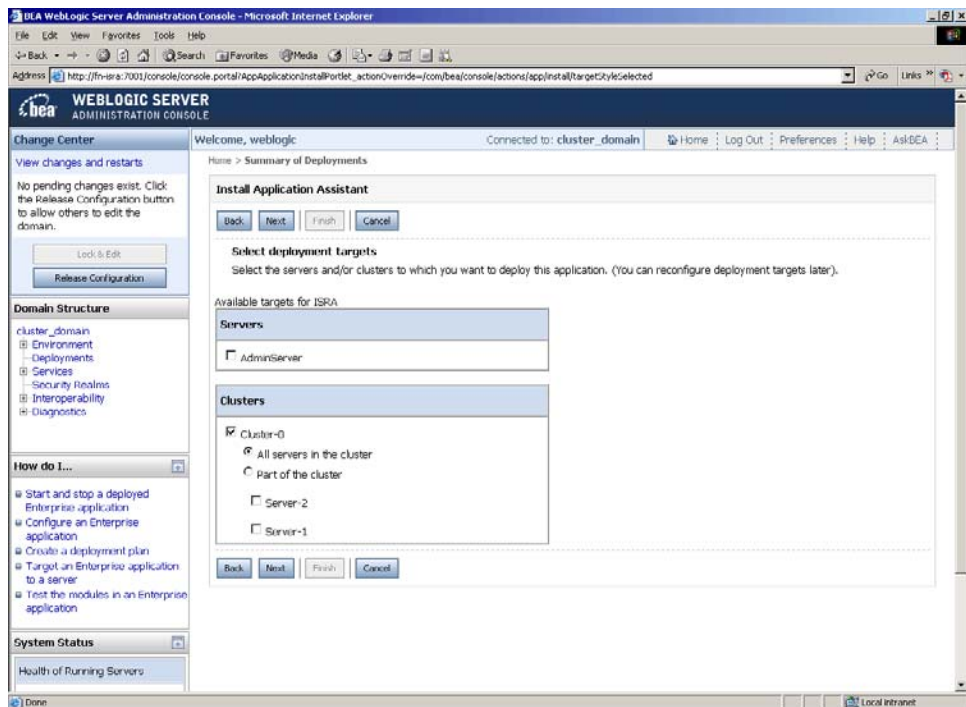


10. Select the radio button corresponding to **ISRA.rar**, and click **Next**. The following screen appears:

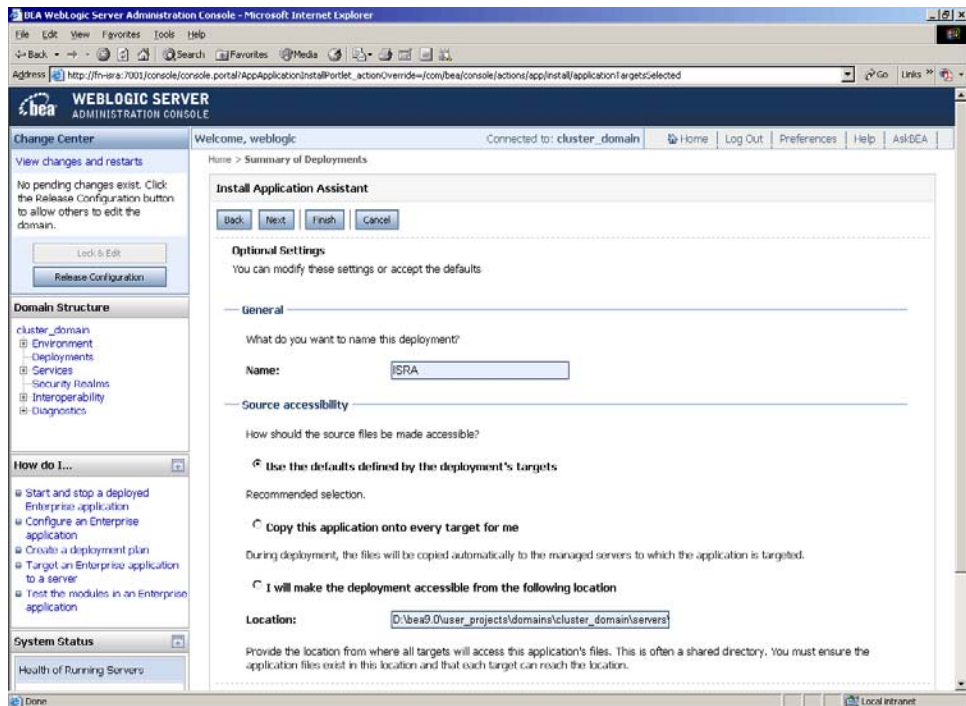


11. Select the radio button corresponding to **Install this deployment as an application**, if not selected by default, and click **Next**. The following screen appears:



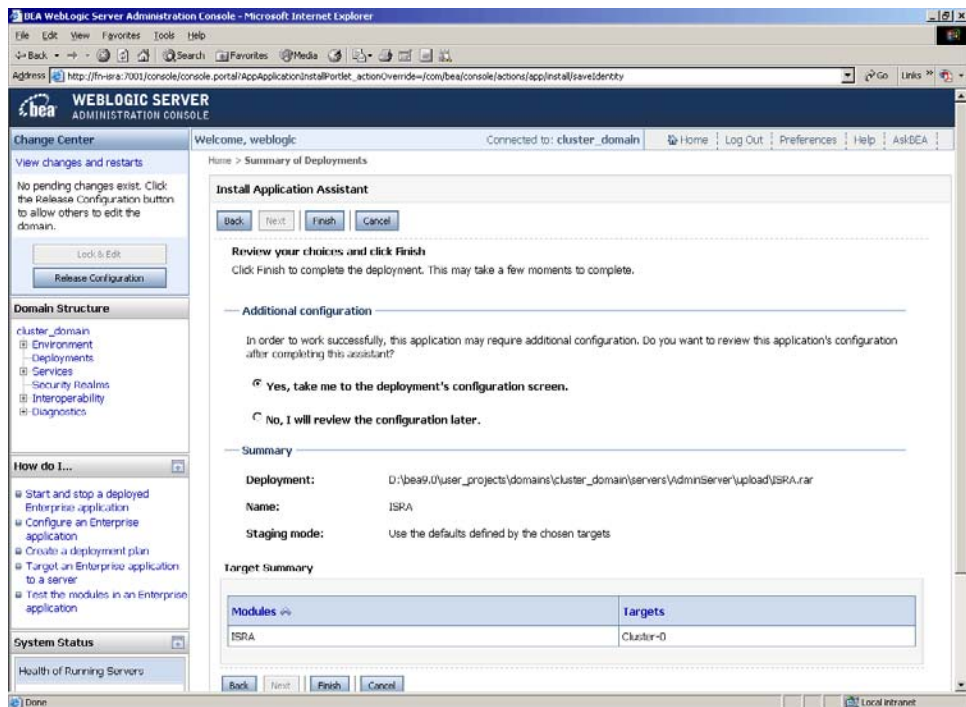


12. Select the check box corresponding to **Cluster 0**, and click **Next**. The following screen appears:

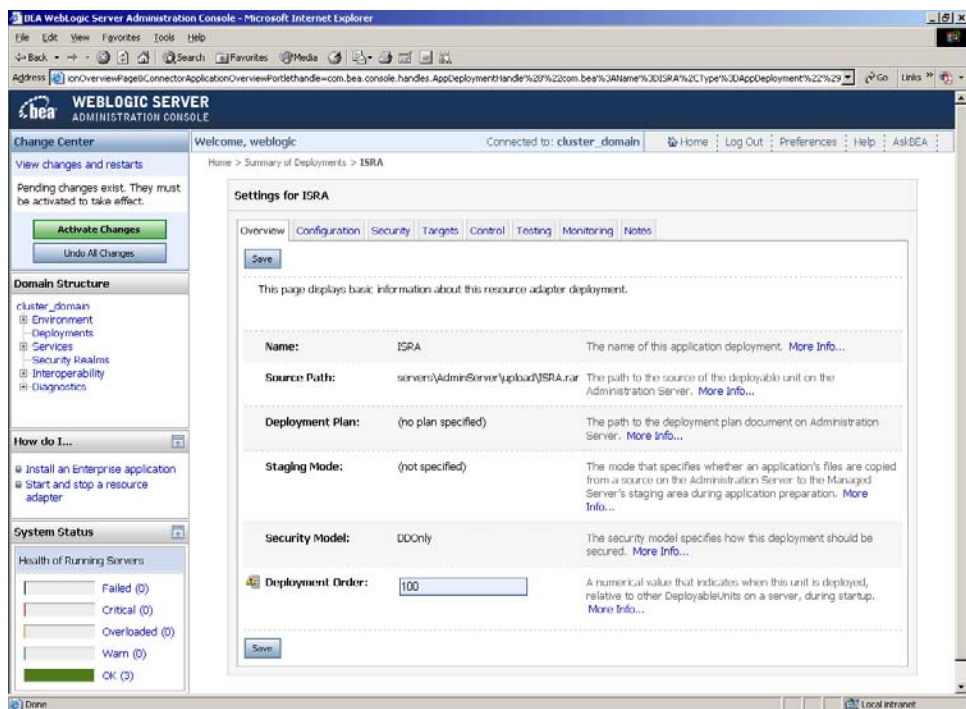


This screen displays the optional settings of the deployed file.

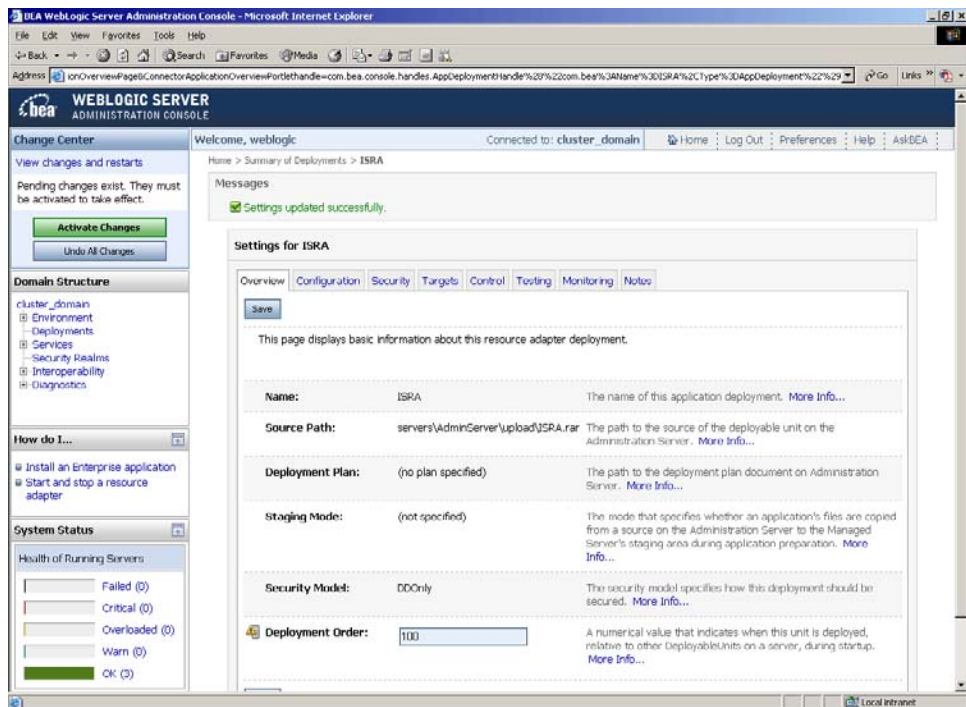
13. Retain the default settings, and click **Next**. The following screen appears:



14. Retain the default settings, and click **Finish**. The following screen appears:

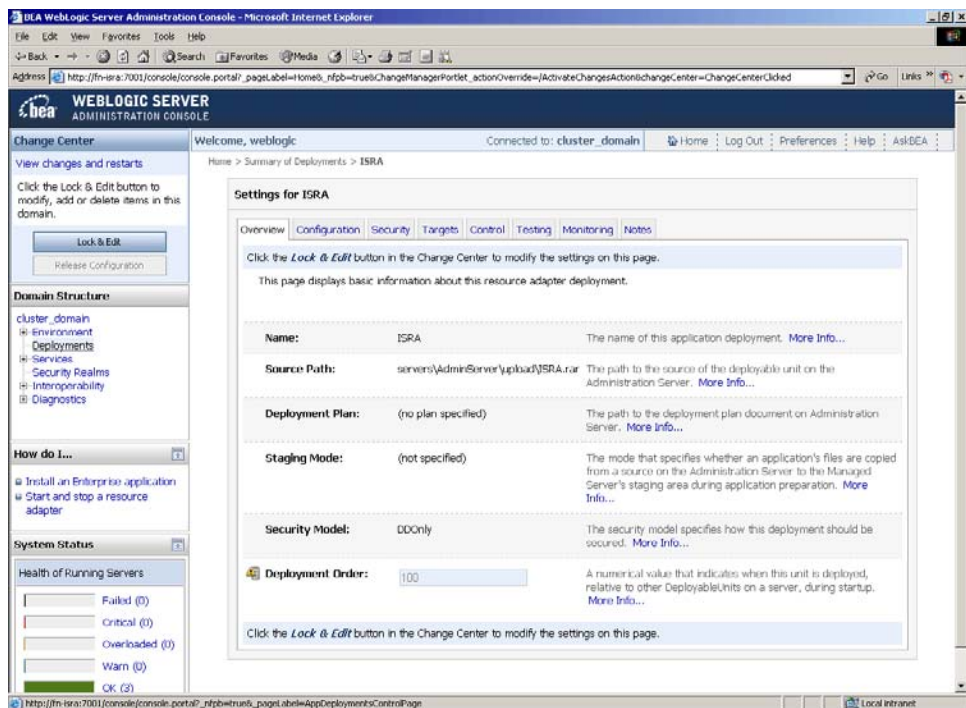


15. Click **Save**. The successful upload confirmation screen appears:



The system returns to the same page with the message: 'Settings updated successfully' displayed.

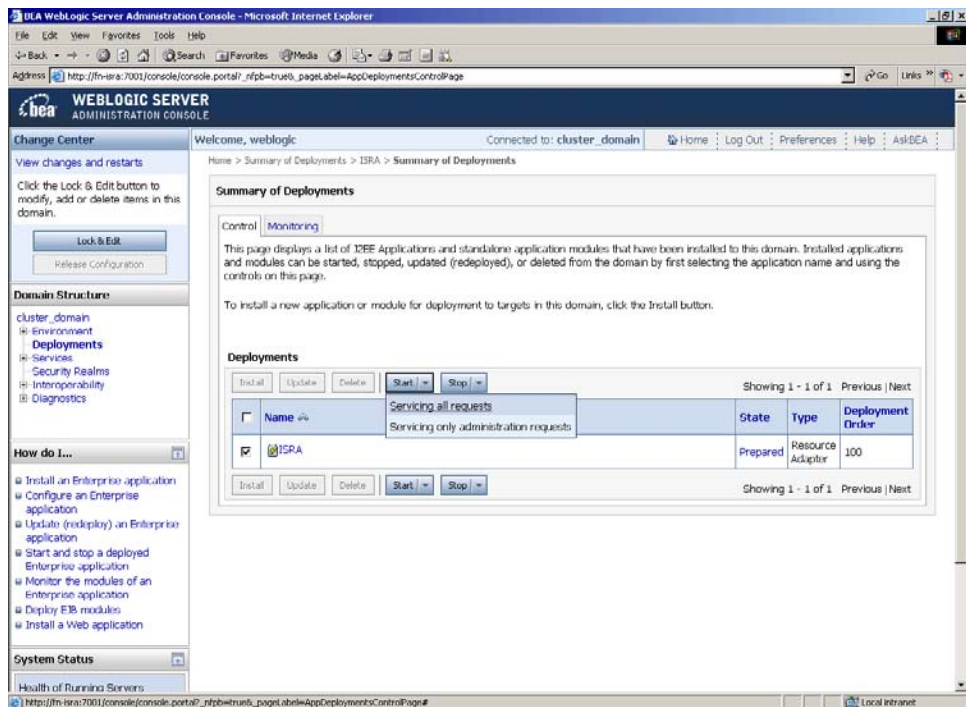
16. Click **Activate Changes** button. The following screen appears:



An overview of the deployments made is reflected. The **ISRA.rar** file is successfully deployed.

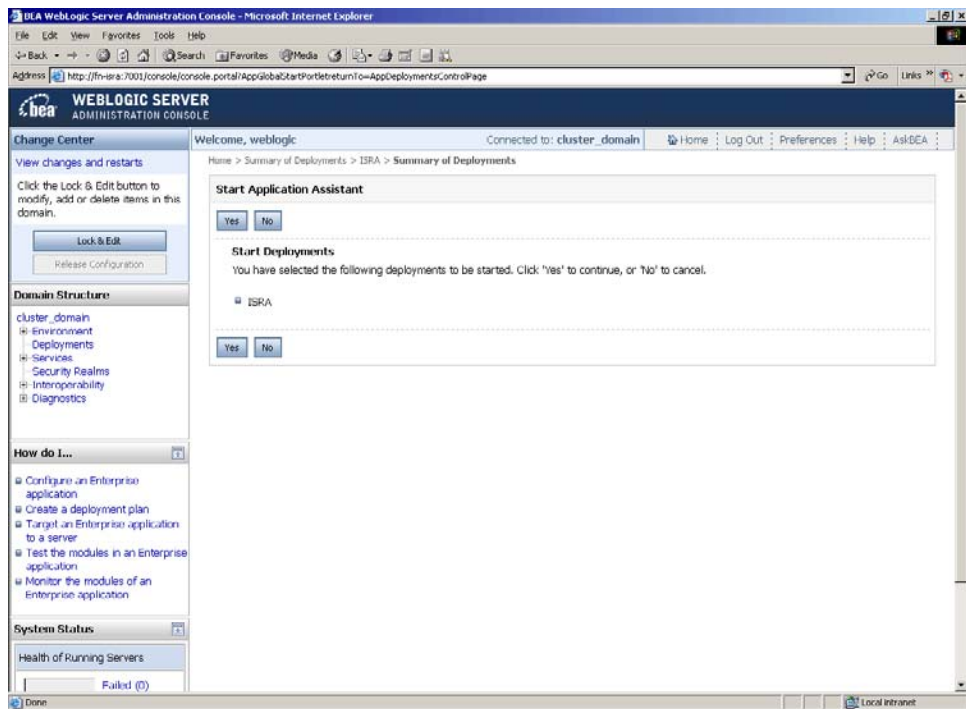
17. Click **Deployments**. The following screen appears:



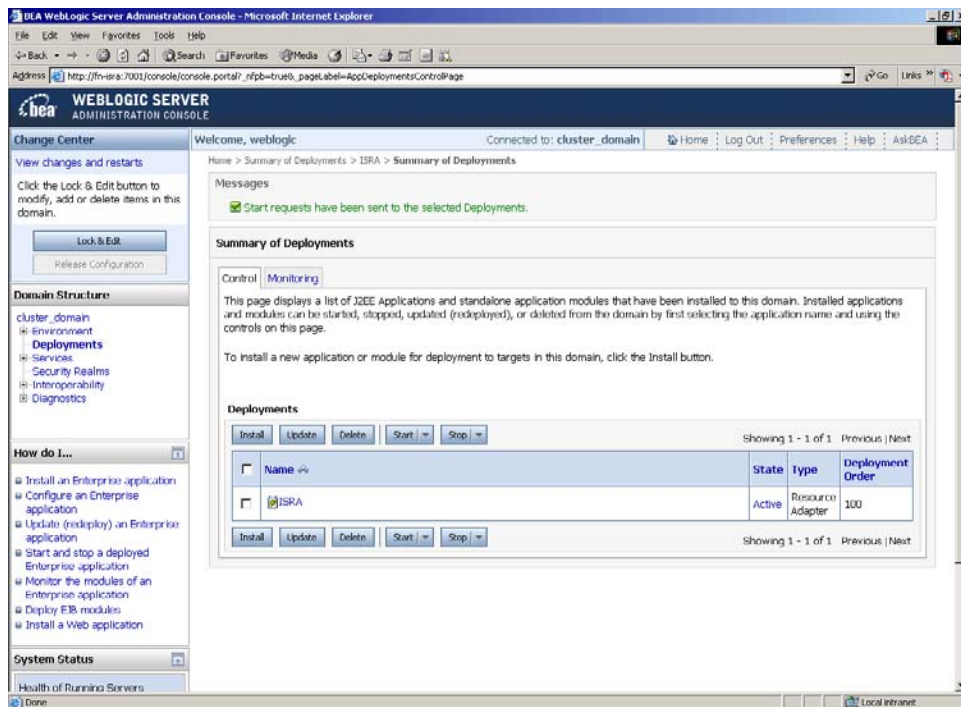


A summary of deployments is reflected on the screen.

18. Select the check box corresponding to **ISRA**, and click **Servicing all requests** from the **Start** drop-down button. The **Start Application Assistant** screen appears:



19. Click **Yes** to start the deployment of the **ISRA.rar** file. The **Summary of Deployments** screen appears:



The **Status** of the deployed file changes to **Active**. The confirmation message: 'Start requests have been sent to the selected Deployments' is displayed.

## Mandatory Requirements for ISRA 3.4.0

The mandatory requirements for ISRA 3.4.0 include:

1. Include **ISRA.jar**, **listener.jar** and **log4j-1.2.8.jar** in the classpath of WebLogic server. To include the jar files in classpath:
  - a. Navigate to the folder containing Application Server.
  - b. Click **User\_projects > domains > <domain-name>**.
  - c. For Windows, open **startWebLogic.cmd** and for UNIX/Linux, open **startWebLogic.sh** in a text editor.
  - d. Include **ISRA.jar**, **listener.jar** and **log4j-1.2.8.jar** in the classpath.
2. Include the folder in which **WinPerfMon.dll** is present in the system path in case of Windows operating system. In UNIX, this file is not required.
3. Enter the initial and maximum JVM heap size as 512.

**Note** The first instance of ISRA deployed on an Application Server creates a folder named "ISRALock" and a file named "ISRALock.0000" inside that folder. The counter "0000" in the file name "ISRALock.0000" increments subsequently with each new deployment of ISRA and the same is appended to the terminal id generated for an ISRA instance. This folder is created in the path resolved by the system property "user.dir", which is the same path where the ISRA logs are generated. This functionality has been introduced in ISRA 3.2.1 to support vertical scaling environment. Earlier, the terminal name used to be of the form "SV<instance number>.<Counter1>@IPAddress". In case of a vertical cluster, ISRA can be deployed across the cluster on a single machine. But

in such a scenario, all the managed server instances in a cluster will have the same ISRA instance deployed and will generate the same terminal id, as the "IPAddress" and "instance number" will be same for all the ISRA instances. The current format of a terminal id generated by ISRA is "RA<instance number>.<Counter1>.<Counter2>@IPAddress", where Counter2 is the counter appended to the files created in the ISRALock folder as mentioned above. The files created in the ISRALock folder will be automatically removed if the managed servers are shut down properly (in case of proper JVM shutdown). However, there is no impact on the workability of ISRA due to this behavior and it is as per the design. The "ISRALock" folder can hence be ignored.

---

## Optional Requirement for ISRA

### Steps for deploying LoadISRA Utility

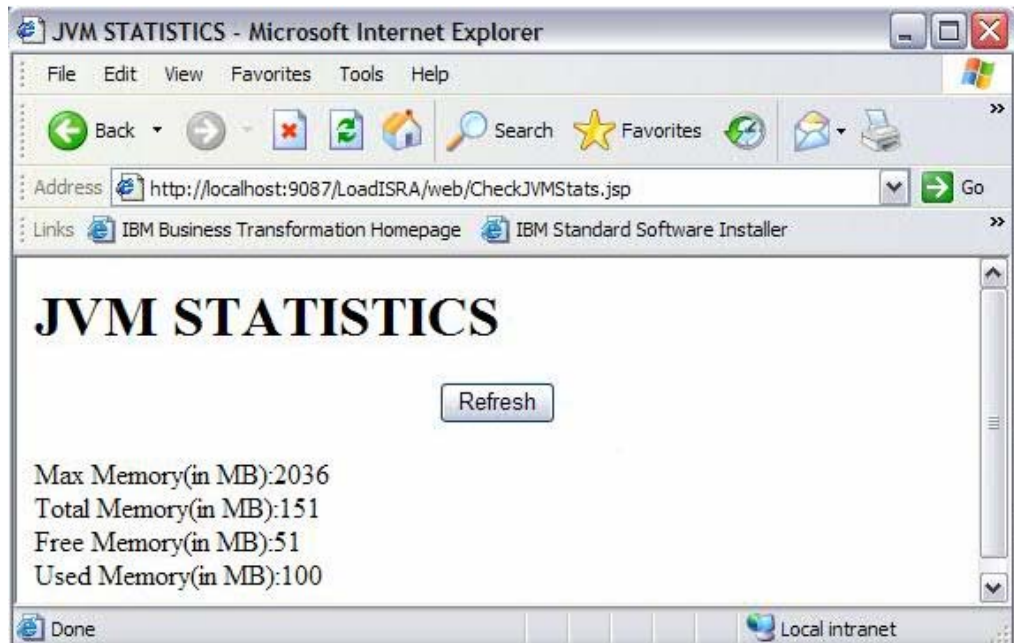
The LoadISRA utility starts caching without requiring a user logon, using Sample Application or any customer Application. **This utility is an optional requirement for BEA WebLogic.**

To load ISRA, follow the steps below:

1. Go to the location where the application is available  
(<http://<AppServerName>:<AppServerPort>/<ApplicationContextRoot>>)  
ApplicationContextRoot is **LoadISRA**.



2. The LoadISRA utility can be used to do a JNDI lookup and to view the memory utilization of the Application Server.



The JVM statistics can be used to study the memory usage in the Application Server JVM.

## ISRA Configuration

This chapter describes the configuration of ISRA, deployed on BEA WebLogic 9.x Application Server.

### Configuring Deployed ISRA

This section describes how to edit the ISRA deployment descriptor before and after deployment.

ISRA uses the J2EE Connector Architecture deployment descriptor, called **ra.xml**, to define its operational parameters. The deployment descriptor is defined by Sun Microsystems in the J2EE Connector Architecture 1.0 specification. It describes the Resource Adapter related attributes, types, and deployment properties, using a standard Document Type Definition (DTD).

To edit the ISRA deployment descriptor:

1. Remove all files from **ISRATemp** directory and copy **ISRA.rar** in it.
2. Change directory to ISRATemp. Run the command `jar -xvf ISRA.rar`. This command extracts the **ISRA.rar** file in the current directory.
3. Select the **ra.xml** file in the META-INF folder and edit the **ra.xml** file in a text editor.

For more details, refer [Configurable ra.xml Entities](#), [Changing ISRA Specific Parameters for LDAP](#) and [Configuring ISRA Parameters for Performance Statistics](#).

4. After making the modifications, save the **ra.xml** file in the same folder.
5. To reconstruct the **ISRA.rar** file, run the command from ISRATemp directory `jar -cvf ISRA.rar *`. This command will create **ISRA.rar** file with modified **ra.xml** bundled into it.

### Changing ISRA Specific Parameters

#### Configurable ra.xml Entities

---

**Note** Please note that all properties described in the deployment descriptor are mandatory and no property should be removed. Default values should be specified for properties that users do not want to use.

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The configurable properties to be set (modified) in **ra.xml** are:

- [DomainName](#)
- [OrganizationName](#)
- [LoggingLevel](#)
- [LoggingMode](#)

- [PageBufferSize](#)
- [CacheRefreshInterval](#)
- [SecurityCacheMode](#)
- [MetaDataCacheRefreshMode](#)
- [LogFileName](#)
- [LogFileSize](#)
- [LdapImplClassName](#)
- [LdapImplClassString](#)
- [InherentLogin](#)
- [DeploymentInstance](#)
- [PCHLogging](#)
- [AllowAnonymousUser](#)
- [RPCLogging](#)
- [ClientCodepage](#)
- [ISLocale](#)
- [IgnoreObjectBusyMsgInDocMigration](#)

## DomainName

This is the domain name of the IS server. The default value of DomainName is FileNetIS. It should be set according to the operational environment. Change this property to the domain name of your IS.

## OrganizationName

This is the FileNet IS organization name. The default value for OrganizationName is IBM. It should be changed according to the operational environment.

## LoggingLevel

This is an integer representing the amount of log information to be generated. The valid values are:

Logging Level	Description
0	Only Error and Warning messages will be logged by ISRA
1	Informative messages will also be logged by ISRA
2	Prints debug message in the log

The default value of LoggingLevel is 0. It can be modified to other valid Logging Levels. It is recommended to keep the logging level to 0. LoggingLevel can be increased if a problem is encountered while accessing ISRA through the application.

## LoggingMode

This is an integer representing the logging mode. The valid values are:



Logging Mode	Description
0	No Logging
1	Only console logging
2	Only file logging
3	Both console logging and file logging

The default Value of LoggingMode is 3. It can be changed to other valid values according to the operational environment.

## PageBufferSize

This is an integer value specified in kilobytes (KB). PageBufferSize specifies the chunk size that ISRA will use to transfer page data to and from IS. The default value is 64 KB. Specifying a higher value will require more memory for the Application Server process, and a low PageBufferSize will mean more trips to IS. The value should be set to an average page size on the target IS. The document buffer size on IS and ISRA should match to optimize image transfer performance.

## CacheRefreshInterval

This is an integer value specified in minutes. ISRA stores meta-data information like Document class, Indices and menu details etc., in a local cache for faster retrieval. ISRA refreshes the cache information based on the CacheRefreshInterval value. The default value is 30 minutes.

## SecurityCacheMode

This parameter can take two values:

<u>Value</u>	<u>Setting</u>
1	Caches both users and Groups
2	Caches only groups

## MetaDataCacheRefreshMode

This parameter can have a value in the range of (0-15).

<u>Value</u>	<u>Setting</u>
0	No Metadata cache refresh
1	Printer cache refresh only
2	Document class cache refresh only
4	Key Fields cache refresh only
8	Menu Value cache refresh only
15	is the default value for this parameter, which will refresh all metadata.

Add corresponding values to get a combination of data.

For example, 1+2 = 3 Printer and Document class data

1+2+4 = 7 Printer, Document class, Key Fields data

0+1+2+4+8 = 15 all data

## LogFileName

The LogFileName is a string containing the name and path of the log file. The default Value of LogFileName is ISRA.log. A complete or relative path can be provided to create the log file at a specific location on disk.

To ensure that each ISRA instance has a unique log file, the following steps will be followed:

- Configurable property “DeploymentInstance” will be read from ra.xml and appended to the log file name. If not specified, the default value “1” will be used as the deployment instance of ISRA.
- The unique ID used for terminal ID generation in ISRA will be appended to the log file name.

For instance, if the log file name configured in ra.xml is **ISRA.log** and the deployment instance is 1, the modified log file name would be **ISRA\_1\_0000.log**. Here, 0000 is the unique ID generated at run time. This ensures a unique name of the log file for each instance of ISRA.

## LogFileSize

This is an integer representing the maximum size of the log file in Megabytes (MB). When the size of the file reaches this maximum limit, the log file is renamed, and a new file is created with the same name. For example, **ISRA\_1\_0000.log** is renamed to **ISRA\_1\_0000\_1.log**, and a new file **ISRA\_1\_0000.log** is created. The default value of LogFileSize is 5MB. Automatic purging of old ISRA log files has been implemented leaving behind only 5 latest versions.

## LdapImplClassName

It is the name of the Implementation class for LDAP Authentication. This parameter contains the complete path of the LDAP Implementation class to be entered along with the LDAP Implementation Class Name.

The default value is 'com.filenet.is.ra.fnis.FN\_IS\_IPlanetImpl'

In addition, LDAP implementation has been provided for Microsoft Active Directory Server for Windows 2003 and Novell NDS 8.7.3. The value of the property for LDAP implementation for Active directory is com.filenet.is.ra.fnis.FN\_IS\_ActiveDirImpl and for Novell NDS 8.7.3 is com.filenet.is.ra.fnis.FN\_IS\_NovellNDSImpl.

## LdapImplClassString

This parameter is a general string that takes in all the LDAP Server specific parameters required for authentication. It takes the following inputs:

- Server Name – Name of the Server/ Machine on which LDAP Server exists.

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**Note** In case that the LDAP server is located on a different subnet, it may be necessary to enter IP address or a full domain name.

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- Port Number – LDAP Server's port number used for transactions.
- User Path – Organization unit under which the users are filed in the LDAP Directory Server.

The three parameters must be separated by semicolon and must appear in the order - server name, port number and user path. An example of LDAPImplClassString is:

- **For Active Directory**  
filenetserver;389;ADS.com
- **For IPlanet**  
filenetserver;389;ou=ISRA, dc=odc, dc=filenet, dc=com
- **For Novell NDS**  
filenetserver;389;ou= ISRA, ou=odc,ou=filenet,o=com

## InherentLogin

To use LDAP security, the value will be set to 1 from the default value 0.

## DeploymentInstance

This is the instance number of ISRA that is being deployed. It is a user defined number between 1 and 10. The default value for this parameter is 1 when none is specified. The maximum is 10, which means that 10 different instances of ISRA can be deployed on a single machine.

Each deployment/JNDI of ISRA on the same Web/Application server requires its own instance number. For example, there can be 2 ISRA applications deployed on the same Web/Application server. Each deployment would require its own instance number and JNDI name. This number is used on the IS server to differentiate between multiple connections from the same IP address of the Web/Application server.

IS always expects unique IDs from ISRA clients, and when it receives duplicate IDs from ISRA, it will reject communication.

So, it is always advised to increment the deployment instance number when another instance of ISRA is deployed to achieve its unique id.

Format of the terminal ID is used by ISRA and IS, distinguishing a Unique ISRA instance.

RAXXX.YYYY.ZZZZ@<ip-address>

Where,

XXX = 989 + DeploymentInstance(ra.xml)

YYYY = Counter that increments with the creation of a new LogonSession object

ZZZZ = Unique ID generated per ISRA instance. Introduced to support ISRA in clustered environment

<ip-address> = IP Address of the machine where ISRA is deployed

## PCHLogging

This is a String parameter to enable/disable PCH logging in ISRA. The default value for this parameter is "Disabled".

## AllowAnonymousUser

It's a Boolean value to allow Anonymous user logon through LDAP, when blank password is passed from user/client. The default value of this parameter is "false".

## RPCLogging

This is an integer representing the RPC logging level. The valid values are:

RPCLogging	Description
0	No Logging
1	File Logging

The default Value of RPCLogging parameter is 0. It can be changed to 1 if RPC Logging is required.

The RPC LogFileSize is taken as double the size of that of ISRA LogFileSize. So, when the size of the RPC log file reaches its maximum limit (10mb), the log file is renamed, and a new file is created with the same name. For example, ISRA\_1\_0000\_RPC.log is renamed to ISRA\_1\_0000\_RPC\_1.log, and a new file ISRA\_1\_0000\_RPC.log is created. Automatic purging of old ISRA RPC log files has been implemented leaving behind only 5 latest versions.

## ClientCodepage

This is the code page for encoding Text and Sticky Note annotations. The default value for this property is blank.

On Microsoft Windows platform, the Locale character set is the Windows Code Page (1252 for US English and Western Europe) whereas on a UNIX platform, it is an ISO 8859-X character set (ISO 8859-1 for US English and Western Europe).

Thus, if the client locale character set, is Windows Code Page based (for example: Cp1252 for US English and Western Europe), and the server is UNIX based, then Windows Code Page should be used for encoding the annotations data before committing to the server. This is because, there is an inconsistency in characters mapping between Microsoft Windows Code Pages and the equivalent ISO 8859-X series. For instance, Code page 1252 is built on ISO 8859-1 but uses the range 0x80-0x9F for extra printable characters rather than the C1 control codes used in ISO8859-1.

For Annotations data, ISRA internally retrieves the IS character set and uses the equivalent Windows Code Pages for the following ISO encodings:

ISO Encoding	MS Windows counterpart
ISO8859_1	Cp1252
ISO8859_2	Cp1250

ISO Encoding	MS Windows counterpart
ISO8859_5	Cp1251
ISO8859_6	Cp1256
ISO8859_7	Cp1253
ISO8859_8	Cp1255
ISO8859_9	Cp1254
ISO8859_13	Cp1257

---

**Note** Specifying an incorrect code page may lead to inconsistency and/or corruption of Annotations data.

---

## ISLocale

This is a String parameter which represents the ISRA Locale. The administrator can set the value of this configurable property as that of the IS locale. It is a lower-case two-letter code as defined by ISO-639. The default value of this parameter is “en” (English locale). The ResourceBundle used in ISRA will depend on the value set by the user for this property.

## IgnoreObjectBusyMsgInDocMigration

This is a Boolean parameter which can be set to true to ignore the [77,0,11 The object is busy] error, incase of DocMigration. The default value for this parameter is false.

## Configuring Weblogic-Specific Entities

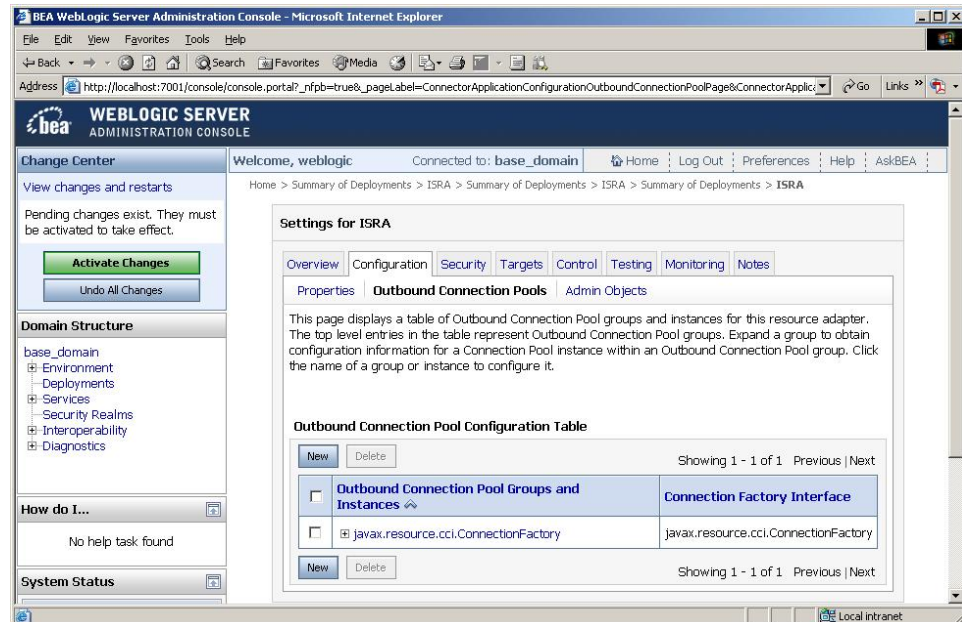
Once the configurable properties are set for ISRA, user can configure parameters specific to the WebLogic Application Server. The configurable properties for a Connector in WebLogic Application Server are:

- Initial Capacity
- Max Capacity
- Capacity Increment
- Shrinking Enabled
- Shrink Frequency Seconds
- Highest Num Unavailable
- Highest Num Waiters
- Connection Reserve Timeout Seconds
- Test Frequency Seconds
- Connection Creation Retry Frequency Seconds
- Test Connections on Create
- Test Connections on Reserve
- Test Connections on Release
- Match Connections Supported

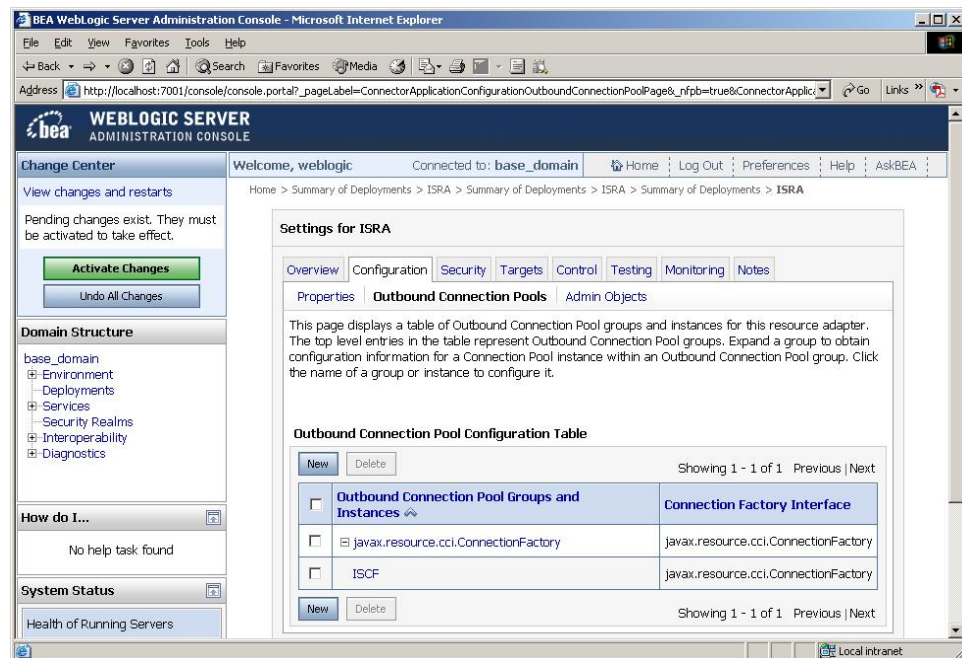


To configure Weblogic parameters:

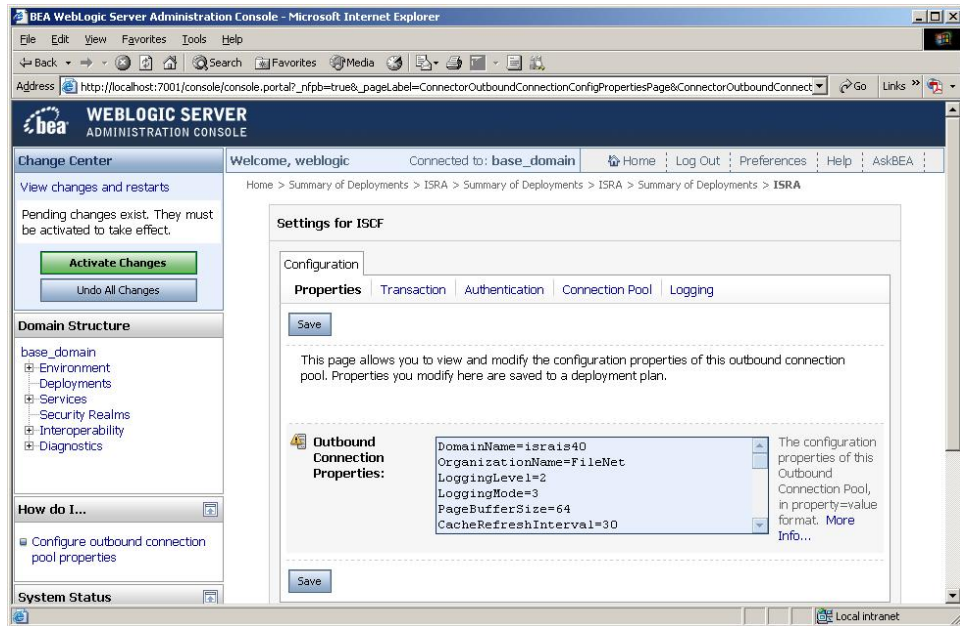
1. Navigate to **Deployments**. Click the deployed resource adapter. On the screen that follows, click **Configuration** -> **Outbound Connection Pools**.



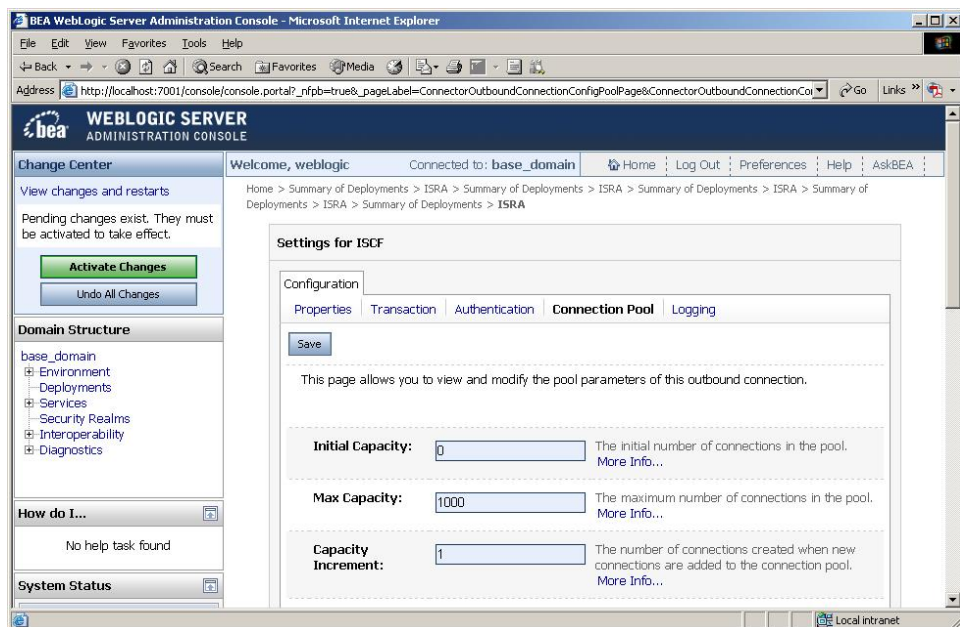
2. Expand **javax.resource.cci.ConnectionFactory**, the following screen appears:



3. Click **ISCF**. The following screen appears:



4. Click **Connection Pool**. The following screen appears:



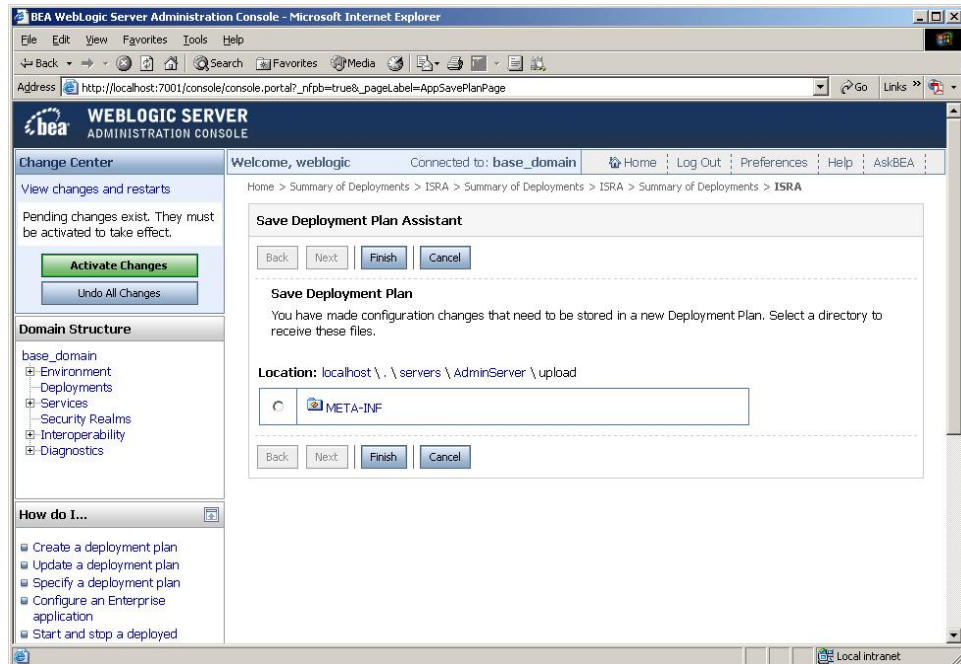
Change the required parameters.

A description of each attribute is given below:

- **Initial Capacity:** Defines the initial number of Managed Connections, which WebLogic Server attempts to obtain on creating a ConnectionFactory. Default value is 0. It is suggested to keep the default value unless user wants to configure Container managed sign-on on this ConnectionFactory.
- **Max Capacity:** Represents the maximum number of Managed Connections that can be created by the ManagedConnectionFactory. After this number is reached, no new connections are created and the requester waits for the ConnectionTimeout or a

`ResourceAllocationException` thrown by WebLogic. Maximum Connections must be greater than or equal to Minimum Connections.

- **Capacity Increment:** Represents maximum number of additional Managed Connections that WebLogic Server attempts to obtain during resizing of the maintained connection pool.
  - **Shrinking Enabled:** Specifies whether the connection pool should reclaim unused managed connections to control system resources.
  - **Shrink Frequency Seconds:** Specifies the amount of time the connection pool Manager will wait between attempts to reclaim unused managed connections.
  - **Highest Num Unavailable:** Specifies the maximum number of connection requests that can concurrently block threads while waiting to reserve a connection from the connection pool.
  - **Highest Num Waiters:** Specifies the maximum number of connections in the connection pool that can be made unavailable for use by an application.
  - **Connection Reserve Timeout Seconds:** Specifies the number of seconds after which a call to reserve a connection from the pool will timeout.
  - **Test Frequency Seconds:** Specifies the number of seconds between two consecutive WebLogic Server tests for unused database connections. Connections that fail the test are closed and reopened to re-establish a valid physical database connection.
  - **Connection Creation Retry Frequency Seconds:** Specifies the number of seconds between two consecutive trials of the connection pool to establish connections to the database.
  - **Test Connection on Create:** Specifies whether connections should be tested on creation.
  - **Test Connections on Reserve:** Specifies whether connections should be tested on reserve.
  - **Test Connections on Release:** Specifies whether connections should be tested on release.
  - **Match connections Supported:** Specifies whether to match connections supported flag of this outbound connection.
5. Click **Save**. The **Save Deployment Plan Assistant** screen appears. Enable radio button against META-INF.



6. Click **Finish**.

## Configuring Multiple IS Servers with ISRA

To configure ISRA for accessing multiple IS servers:

1. Deploy a new ISRA instance for each IS that user wants to connect. Before deploying the second (and subsequent) ISRA, rename the ISRA.rar file. The new ISRA will overwrite the previously deployed ISRA configuration settings, if the .rar file is not renamed.
2. Ensure that the renamed **ISRA.rar** has the .rar file extension.
3. Configure the new ISRA and enter a DomainName and OrganizationName before deployment, for connecting to the target IS.

## Configuring and Deploying ISRA Sample Application

The ISRA Sample Application is packaged as an Enterprise Application Archive File (**ISRASample.ear**). It consists of:

- A Web module (**SampleWEB.war**)
- Deployment Descriptor (**Web.xml**)

This chapter illustrates the deployment and configuration of the Sample Application on BEA WebLogic 9.x platform using the WebLogic Administration Console.

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**Note** ISRA product media contains IBM FileNet Image Viewer, which can be used to display the TIFF, JPEG, BMP, and other supported file formats on a Java-enabled browser. This Sample Application is intended solely for illustrative purposes, and it should not be expected to perform useful work, or be used for production deployment. This Sample Application is to be used strictly as reference material.

---

### Configuring Sample Application

This section describes how to deploy the Sample Application on BEA WebLogic 9.x Server to access ISRA in a managed environment. It is assumed that ISRA is deployed and configured for the target IS.

1. Extract **ISRASampleWEB.war** from **ISRASample.ear**.
2. Extract **web.xml** from **ISRASampleWEB.war**
3. Change param-value for "LIBRARY\_NAMES" to  
`<param-value>ISCF</param-value>`

---

**Note** The **LIBRARY\_NAMES** property is mandatory and it should be the same as the **JNDI Binding Path** specified for the configured ISRA ConnectionFactory.

---

**LIBRARY\_NAMES** is the name of the ConnectionFactory. Provide the JNDI name of the ISRA Connection Factory that the ISRA Sample Application uses to access IS resources.

The default value of **LIBRARY\_NAMES** is **ISCF**. It can be changed according to the operational environment. Multiple Connection Factory names can be specified by using comma (,) as a separator. For example: **ISCF, ISCF2**.

4. To enable extended annotation functionality modify the following parameters in **web.xml**:



- a. Change env-entry-value for "DOCCLASSNAME" to the document class configured in the IS for digital signatures.  
`<env-entry-value>digDocClass</env-entry-value>`
- b. Change env-entry-value for "MAXROWS" to the number of records to be fetched from the given document class.  
`<env-entry-value>200</env-entry-value>`
5. To enable Remote Printing functionality modify the following parameters in **web.xml**:
  - a. Change env-entry-value for "USEPRINTVIEWOPTION" to either Yes or No. This value will determine whether to honor the print/view preference set in the **web.xml** or to take the value returned by ViewOne. Default value is No.  
`<env-entry-value>No</env-entry-value>`
  - b. Change env-entry-value for "PRINTVIEWOPTION" to either View Only =1, Print Only =2, Print/View = 3. This value indicates the value of Print/View. The default value is 3.  
`<env-entry-value>3</env-entry-value>`

---

**Note** If the PRINTVIEWOPTION is set to 3 (default) then the sticky note would be saved as a normal sticky note. If PRINTVIEWOPTION value is specified as 1 or 2 then the annotations will be saved as an extended annotation (***Extended annotations** are non-standard annotations which are saved with a class name parameter (F\_CLASSNAME) of "Proprietary", a class id property (CLASS\_ID) of {A91E5DF2-6B7B-11D1-B6D7-00609705F027} and a subclass name property (F\_SUBCLASS) that describes the annotation.*

The value of PRINTVIEWOPTION would be honored for each sticky note individually, and not for all the sticky notes on a document as a whole.

Thus, the setting for PRINTVIEWOPTION would be processed for either a new annotation being added or an existing annotation being modified.

---

6. Update **web.xml** in **ISRASampleWEB.war**
7. Add **weblogic.xml** with the following code into the WEB-INF folder of the ISRASampleWEB.war:
  - For Session Application, when deployed on clustered environment:
 

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE weblogic-web-app PUBLIC "-//BEA Systems,
Inc.//DTD Web Application 8.1//EN"
"http://www.bea.com/servers/wls810/dtd/weblogic810-web-
jar.dtd">
<weblogic-web-app>
  <session-descriptor>
    <session-param>
      <param-name>PersistentStoreType</param-name>
      <param-value>replicated_if_clustered</param-
value>
    </session-param>
  </session-descriptor>
```

</weblogic-web-app>

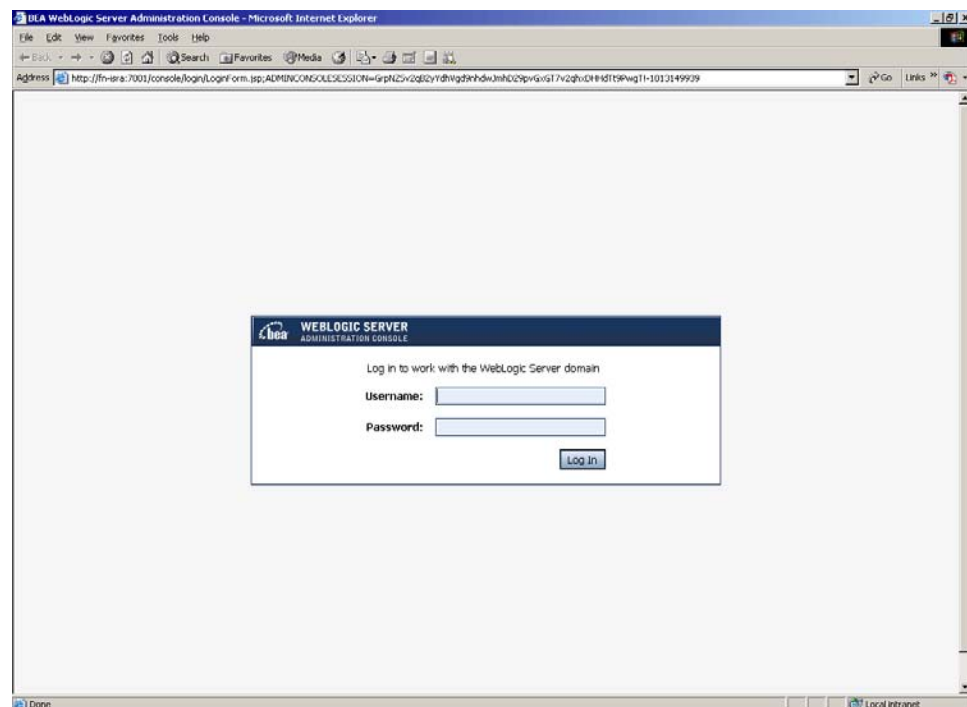
8. Update **ISRASampleWEB.war** in **ISRASample.ear**

## Deploying the Sample Application in a Standalone Environment

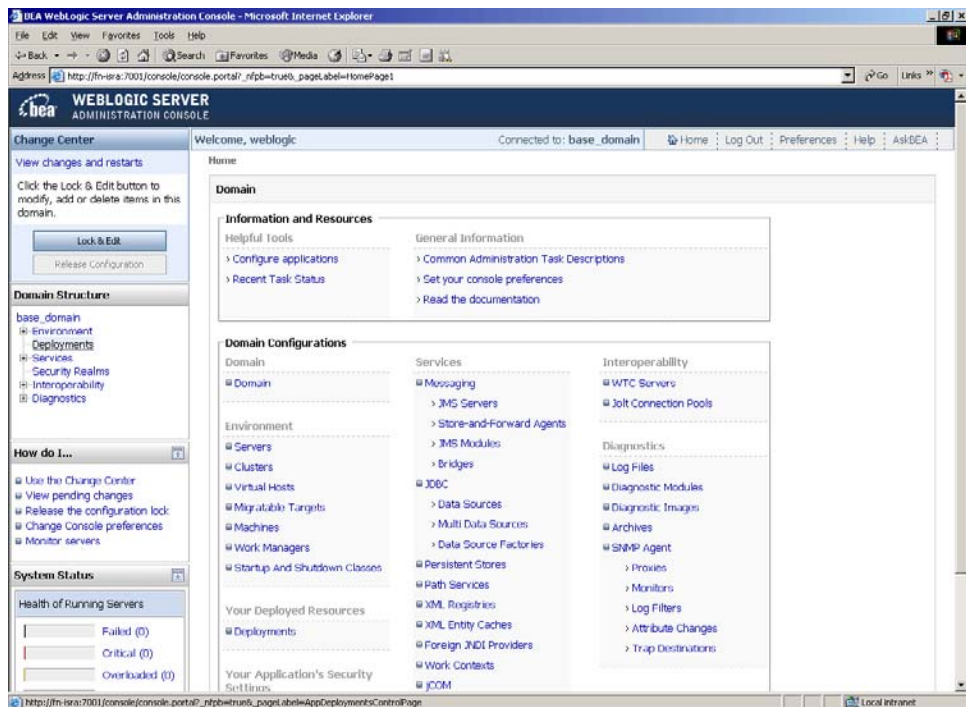
This section describes how to deploy the Sample Application on a WebLogic Server to access ISRA in a managed environment. It is assumed that ISRA is deployed and configured for the target IS.

Before deploying the Sample Application through the WebLogic Server Administration Console, ensure WebLogic Administration Server is running, else, start the Administration server as explained in the [Deploying ISRA in a Standalone Environment](#) section.

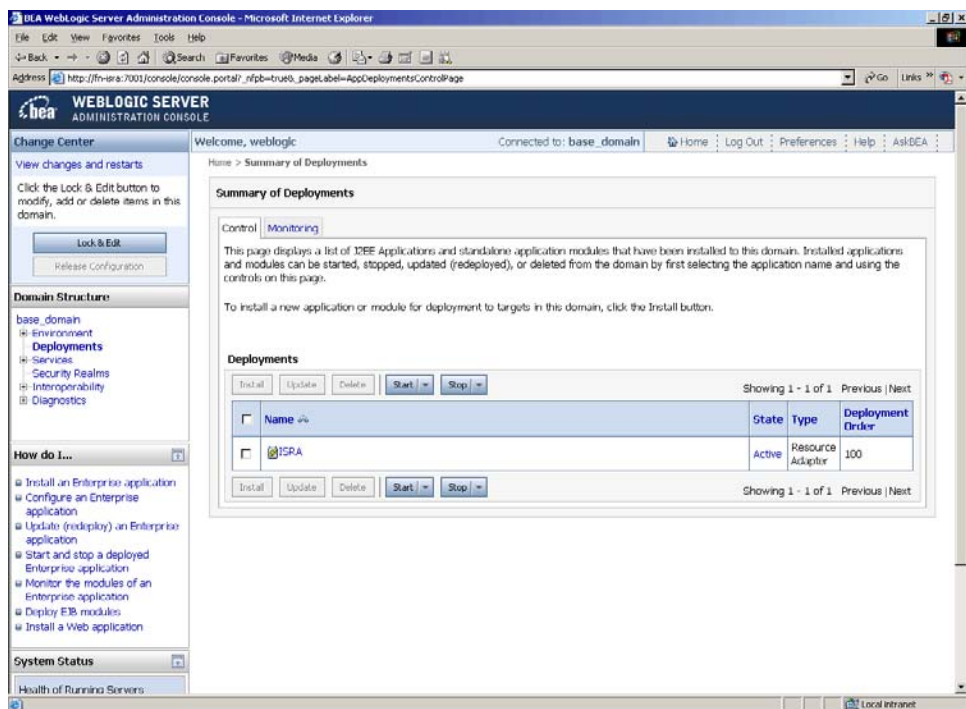
1. Start the administrative console. Open a browser window and enter the WebLogic admin console URL `http://<hostname>:<portnumber>/console`.



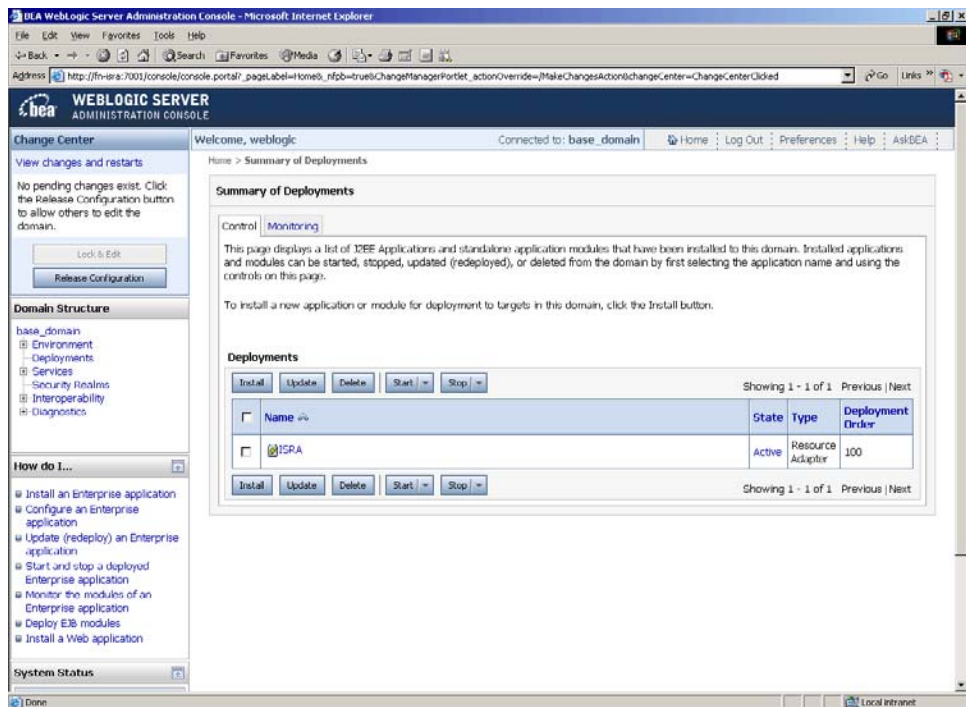
2. The WebLogic admin console sign on screen appears. Enter the WebLogic admin **Username** and **Password**. Click **Log In** to access the WebLogic admin console. The following screen appears:



3. Click **Deployments**. The following screen appears:

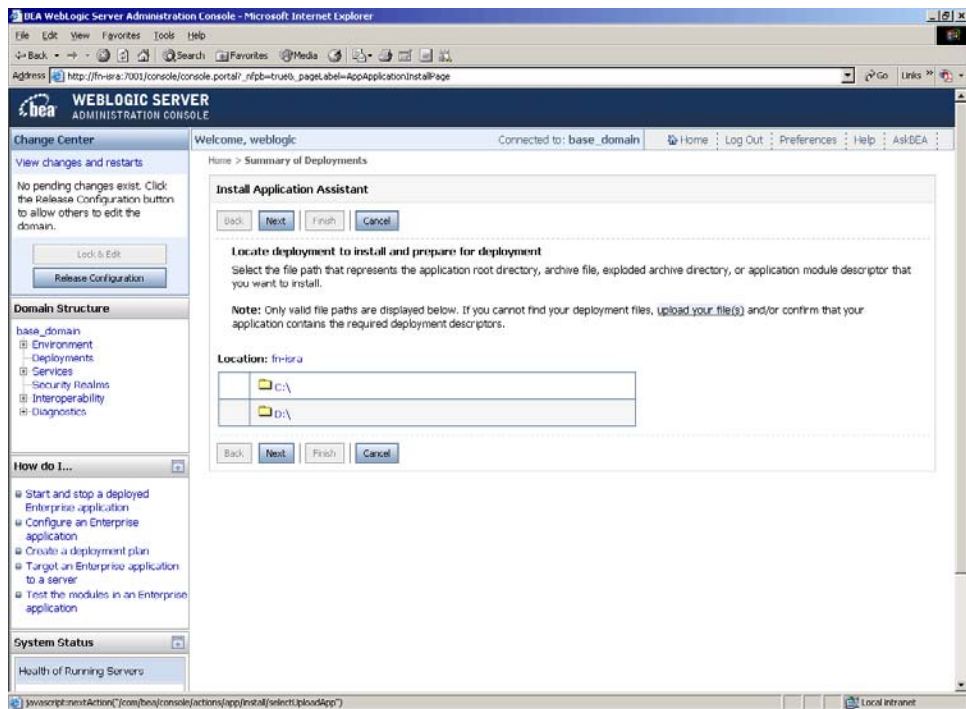


4. Click **Lock and Edit** button to make the console editable. The following screen appears:

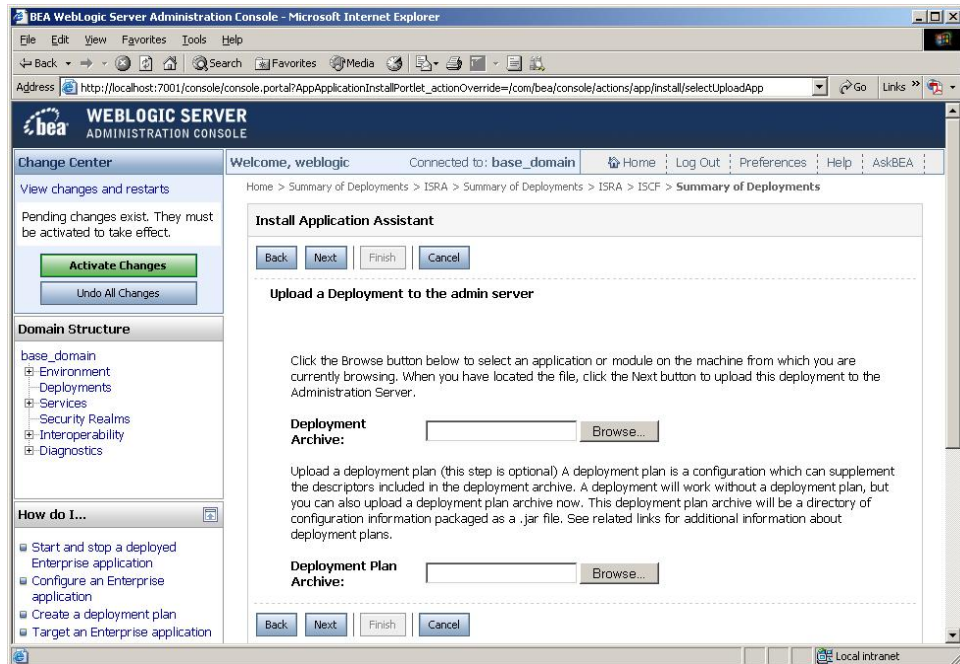


The **Release Configuration** button, along with the buttons under **Deployment** section is enabled.

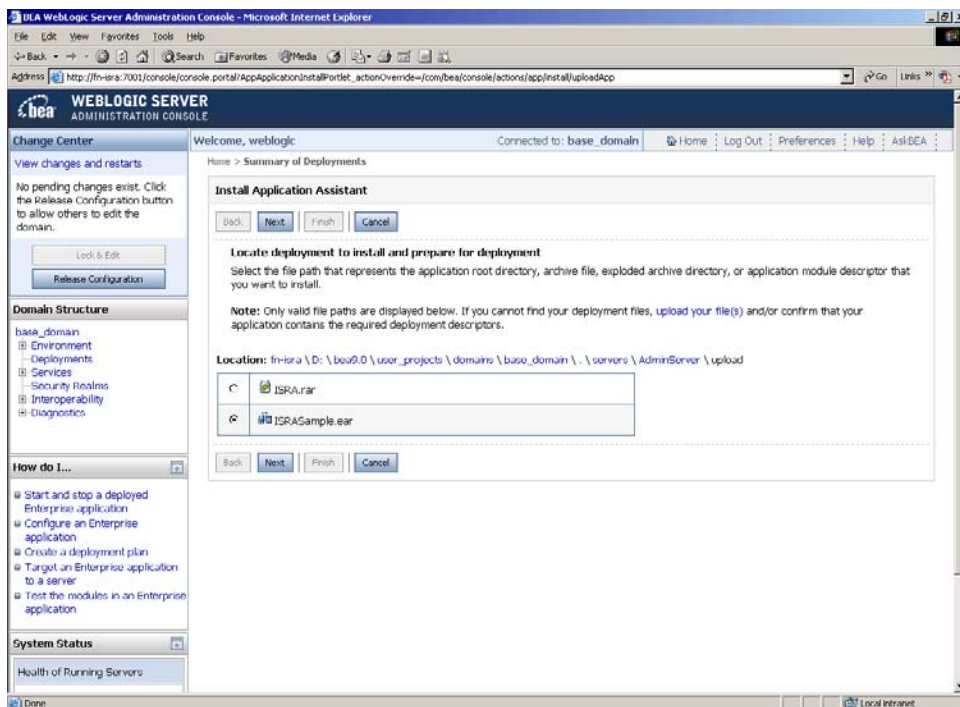
- Under **Deployments** click **Install** button. The **Install Application Assistant** screen appears:



- Click the **upload your file(s)** link. The following screen appears:

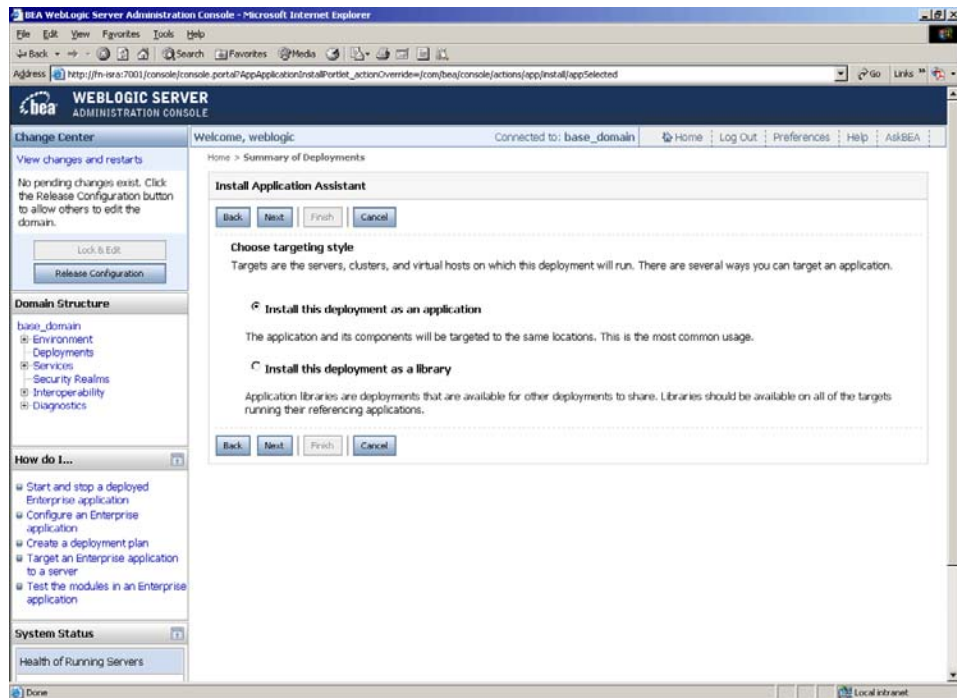


7. Click **Browse** to select the **ISRASample.ear** file. The **ISRASample.ear** file is located in **sample** subdirectory of the ISRA installation directory. For example, if user has installed ISRA in `C:\fnsw\ISRA` ( `/fnsw/ISRA` on UNIX), the **ISRASample.ear** is located in `C:\fnsw\ISRA\sample\` ( `/fnsw/ISRA/sample` on UNIX) directory.
8. Click **Next** to upload the **ISRASample.ear** file. The system may take some time to upload the file. The following screen appears:

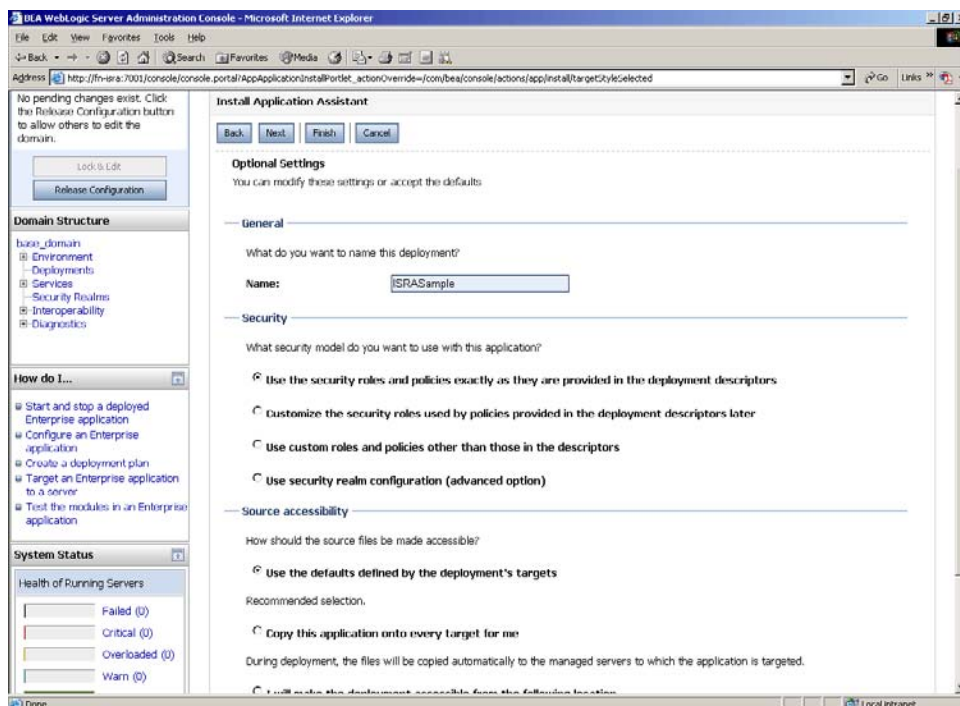


9. Select the radio button corresponding to **ISRASample.ear**, and click **Next**. The following screen appears:



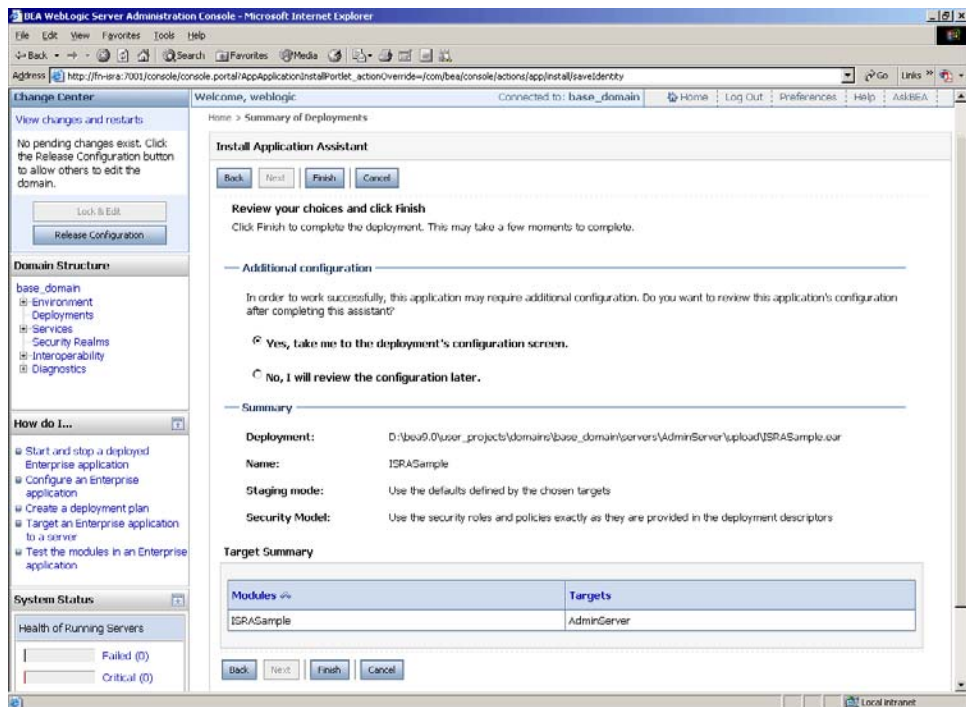


10. Select the radio button corresponding to **Install this deployment as an application**, if not selected by default, and click **Next**. The following screen appears:

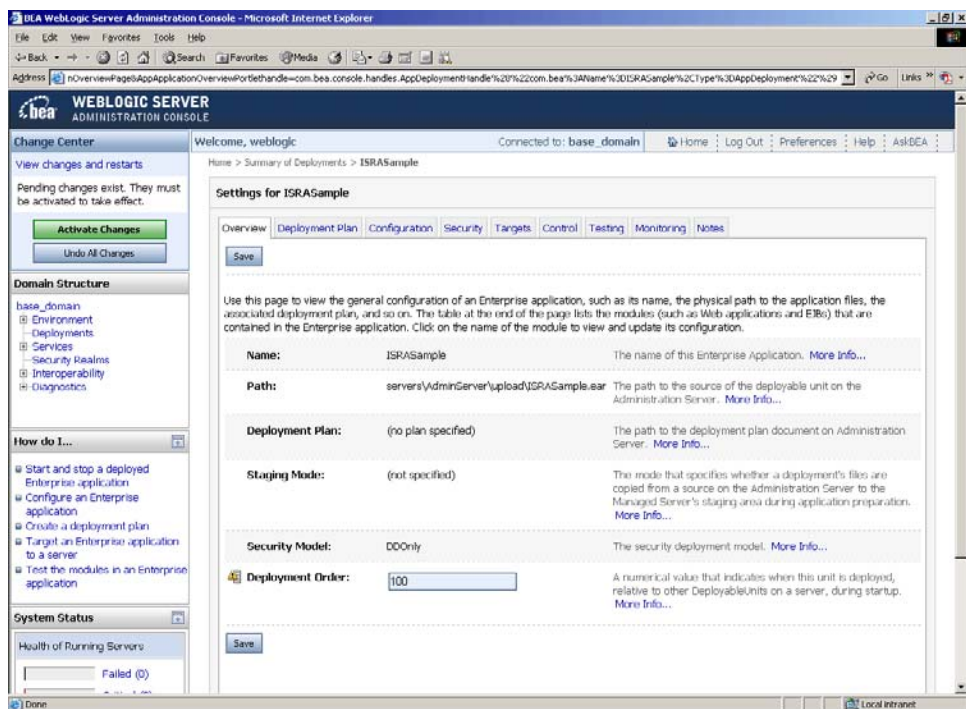


This screen displays the optional settings of the deployed file.

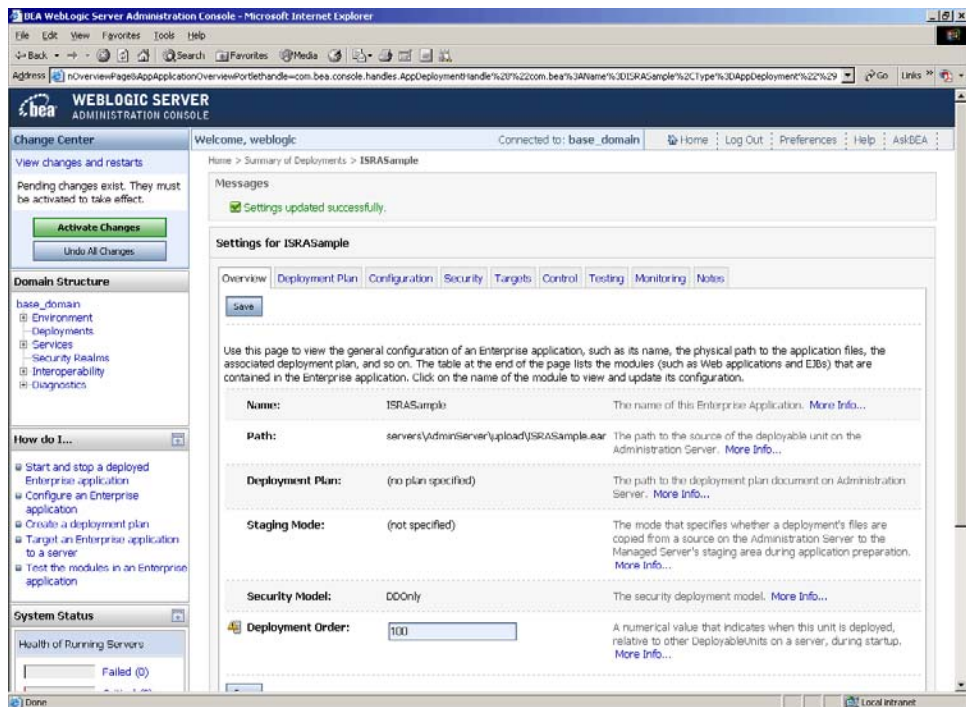
11. Retain the default settings, and click **Next**. The following screen appears:



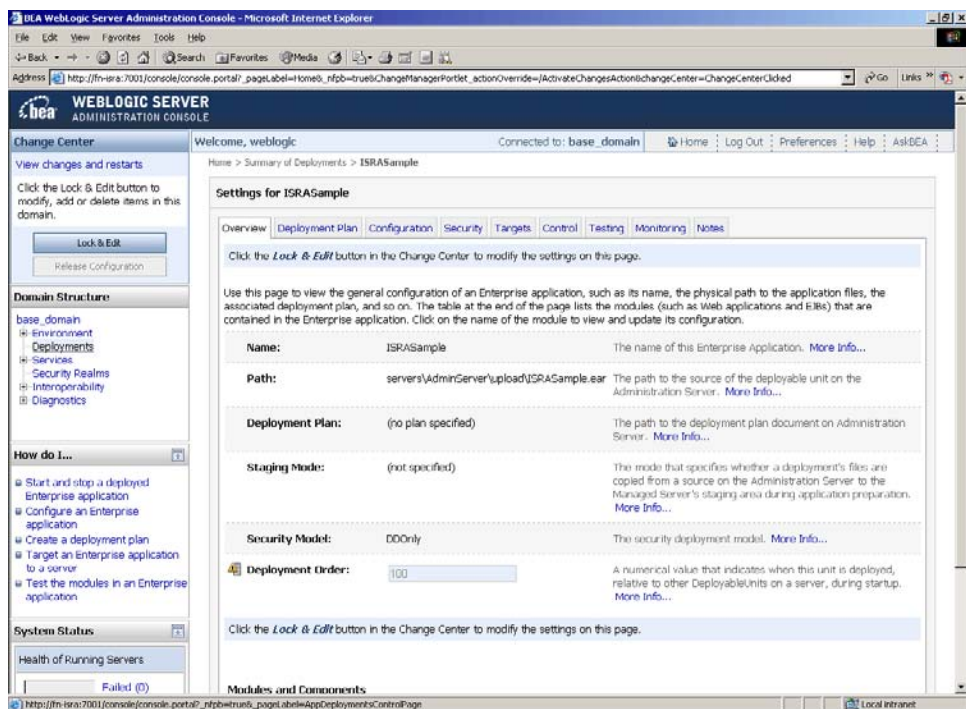
12. Retain the default settings, and click **Finish**. The following screen appears:



13. Click **Save**. The successful upload confirmation screen appears:

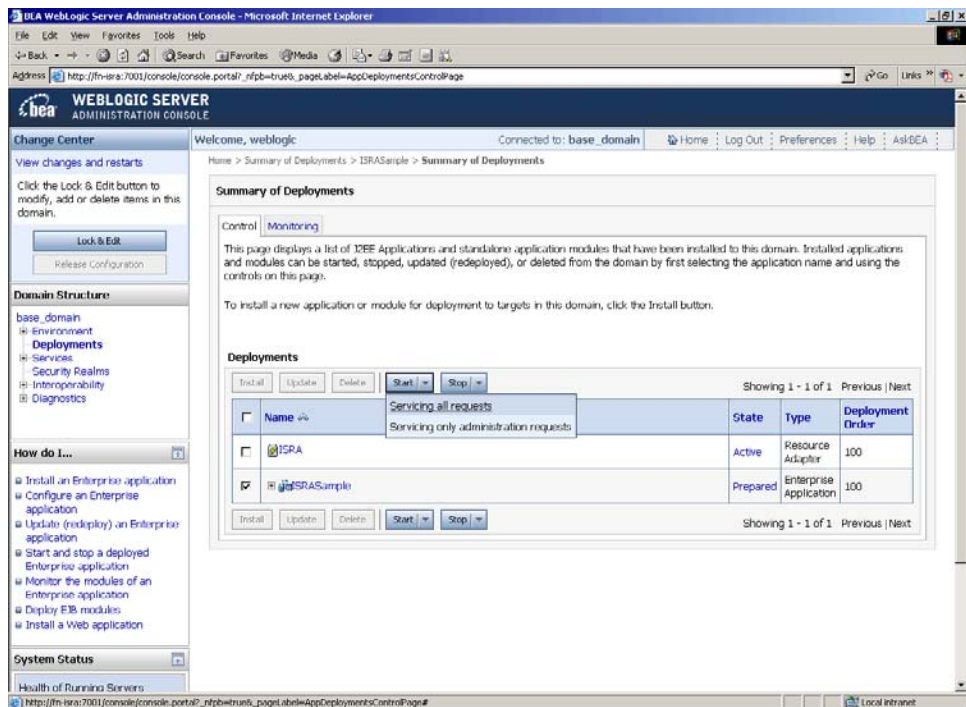


14. The system returns to the same page with the message: '*Settings updated successfully*' displayed. Click **Activate Changes** button. The following screen appears:



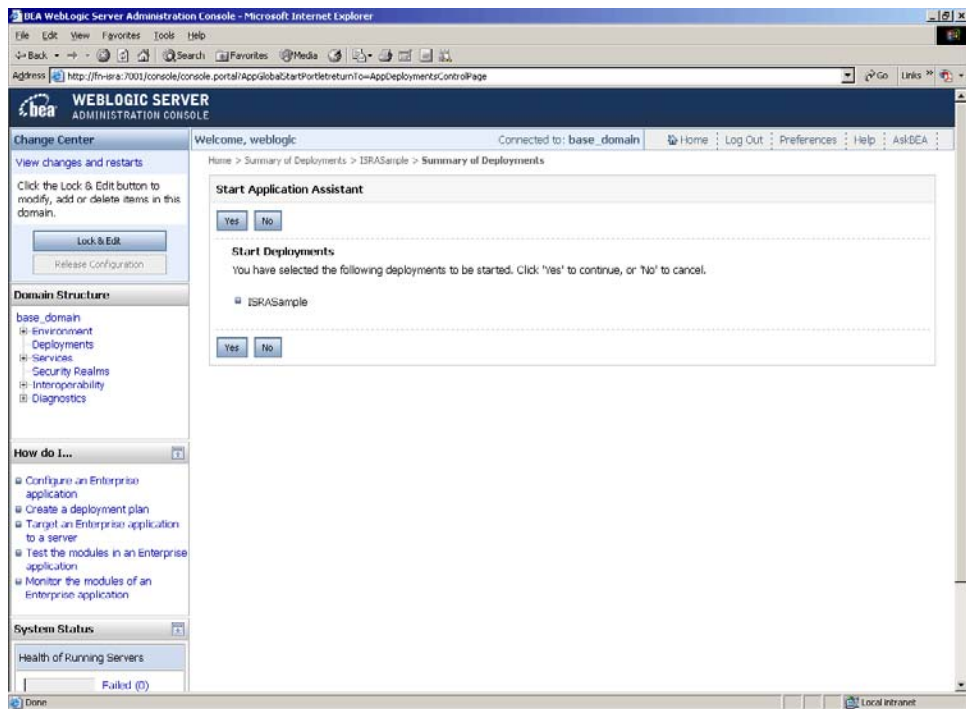
An overview of the deployments made is reflected. The **ISRSample.ear** file is successfully deployed.

15. Click **Deployments**. The following screen appears:



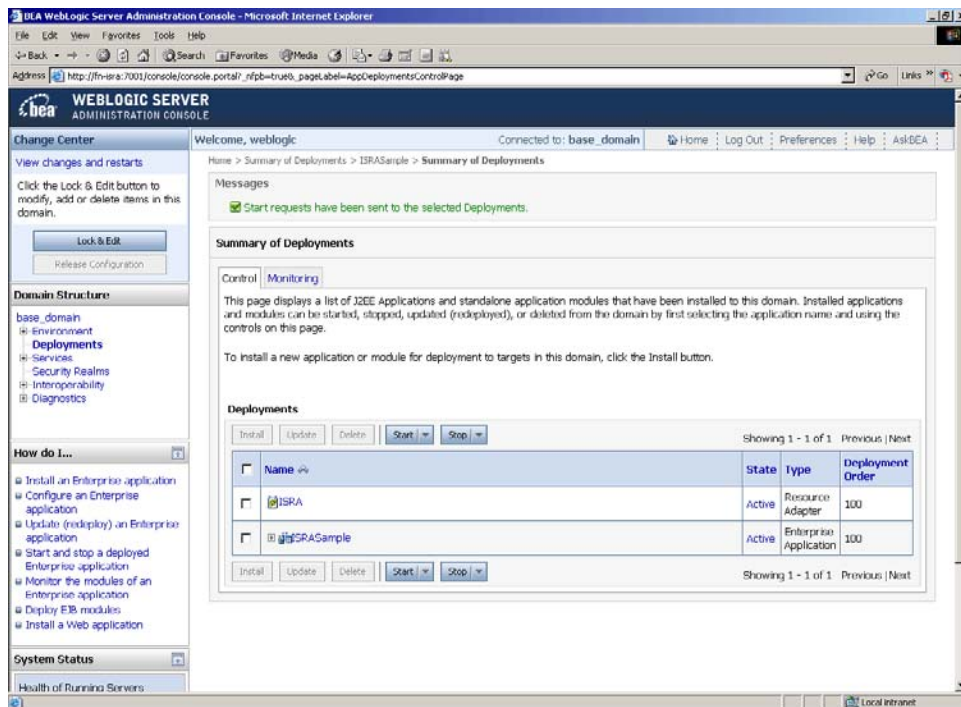
A summary of deployments is reflected on the screen.

16. Select the check box corresponding to **ISRASample**, and click **Servicing all requests** from the **Start** drop-down button. The **Start Application Assistant** screen appears:



17. Click **Yes** to start the deployment of the **ISRASample.ear** file. The **Summary of Deployment** screen appears:





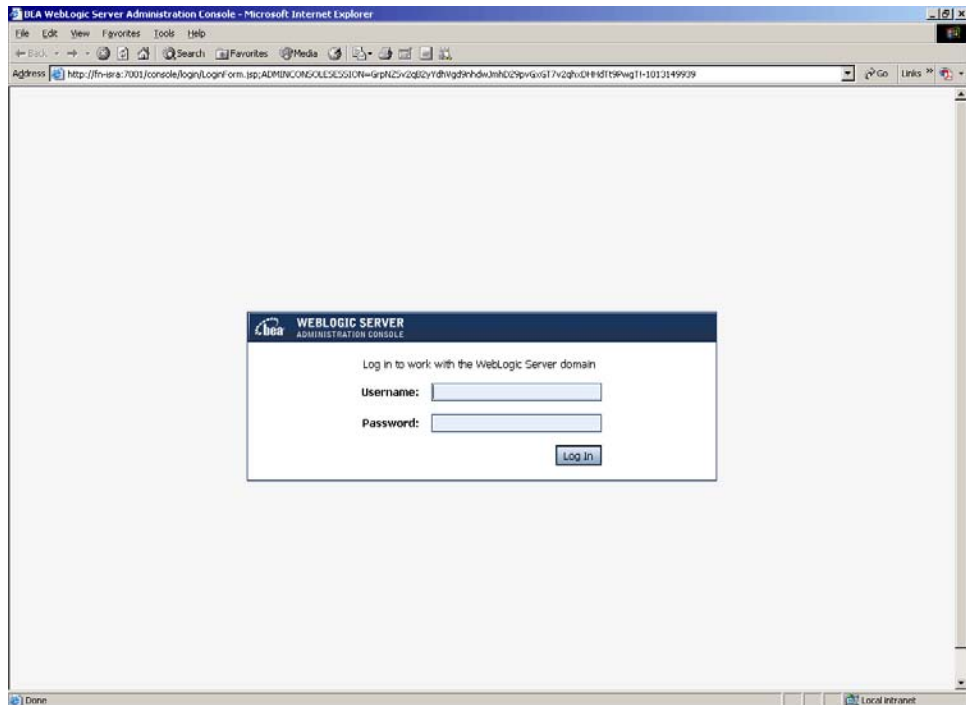
The **Status** of the deployed file changes to **Active**. The confirmation message: 'Start requests have been sent to the selected Deployments' is displayed.

## Deploying the Sample Application in a Clustered Environment

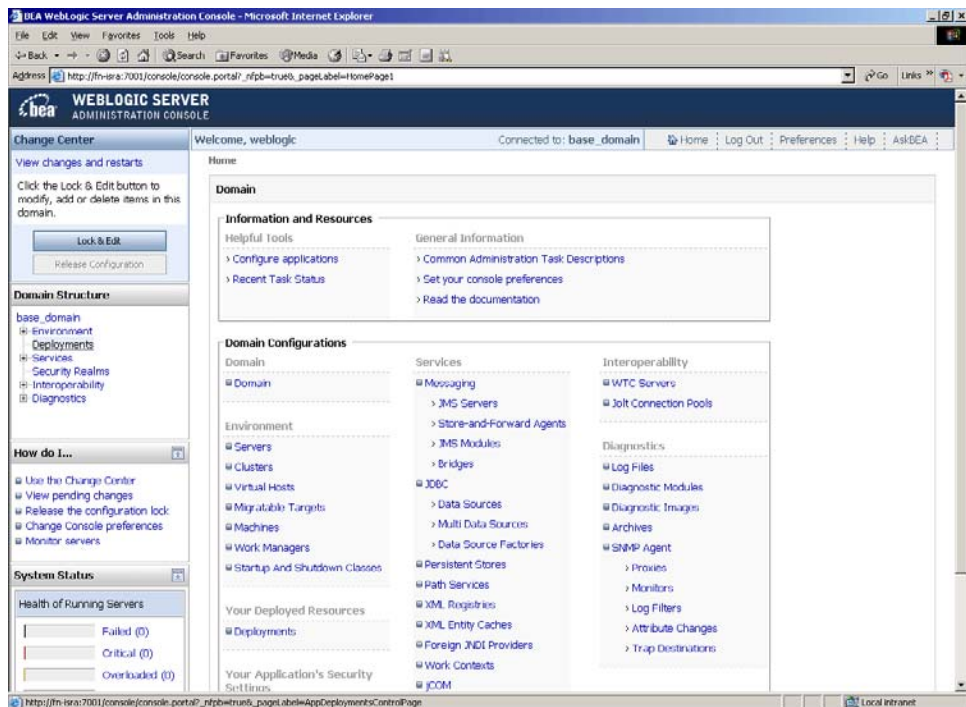
This section describes how to deploy the Sample Application on a WebLogic Server to access ISRA in a managed environment. It is assumed that ISRA is deployed and configured for the target IS.

Before deploying the Sample Application through the WebLogic Server Administration Console, ensure WebLogic Administration Server is running, else, start the Administration server as explained in the [Deploying ISRA in a Standalone Environment](#) section.

1. Start the administrative console. Open a browser window and enter the WebLogic admin console URL `http://<hostname>:<portnumber>/console`.

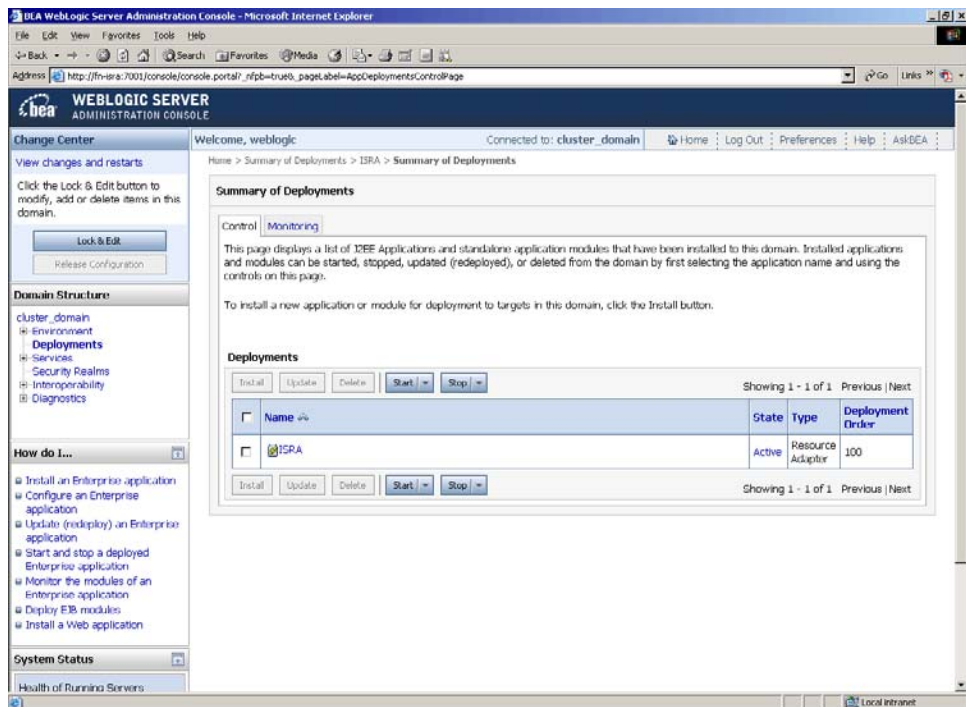


2. The WebLogic admin console sign on screen appears. Enter the WebLogic admin **Username** and **Password**. Click **Log In** to access the WebLogic admin console. The following screen appears:

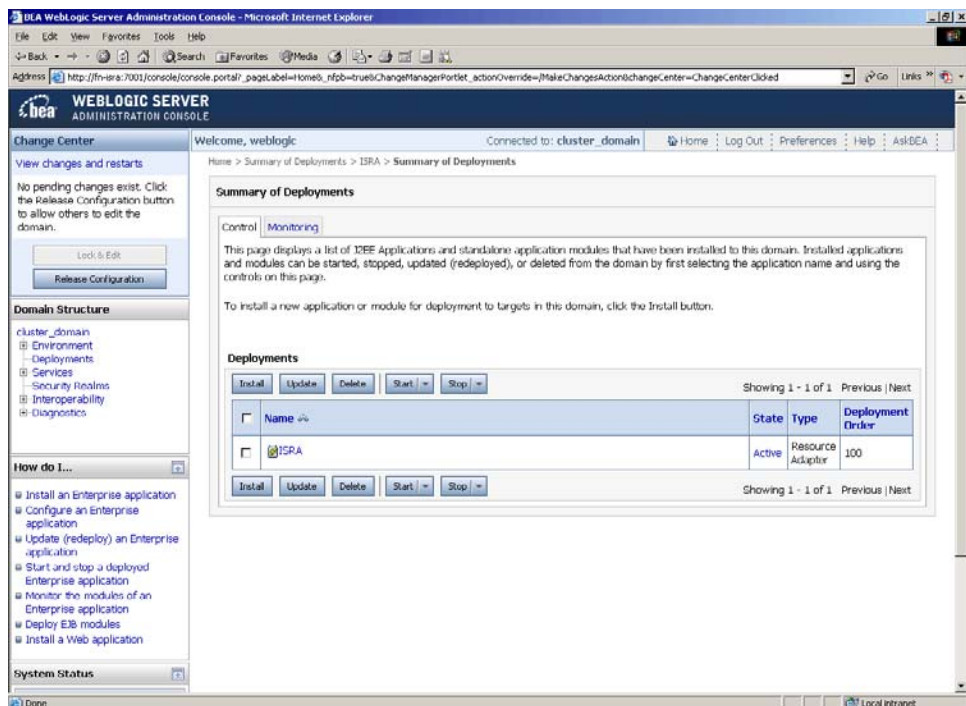


3. Click **Deployments**. The following screen appears:



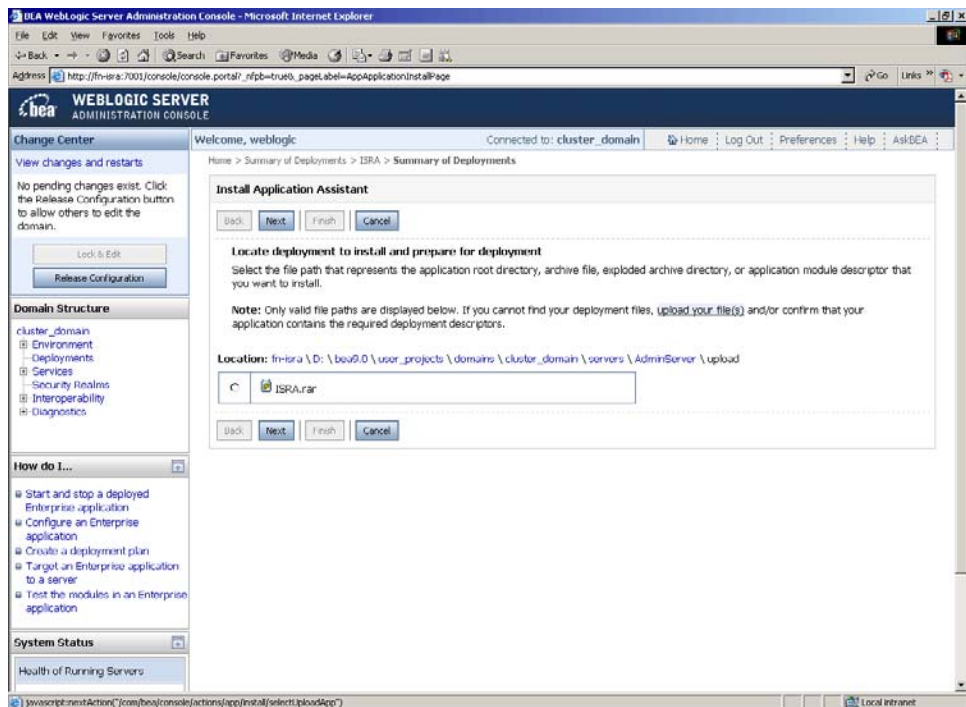


4. Click **Lock and Edit** button to make the console editable. The following screen appears:

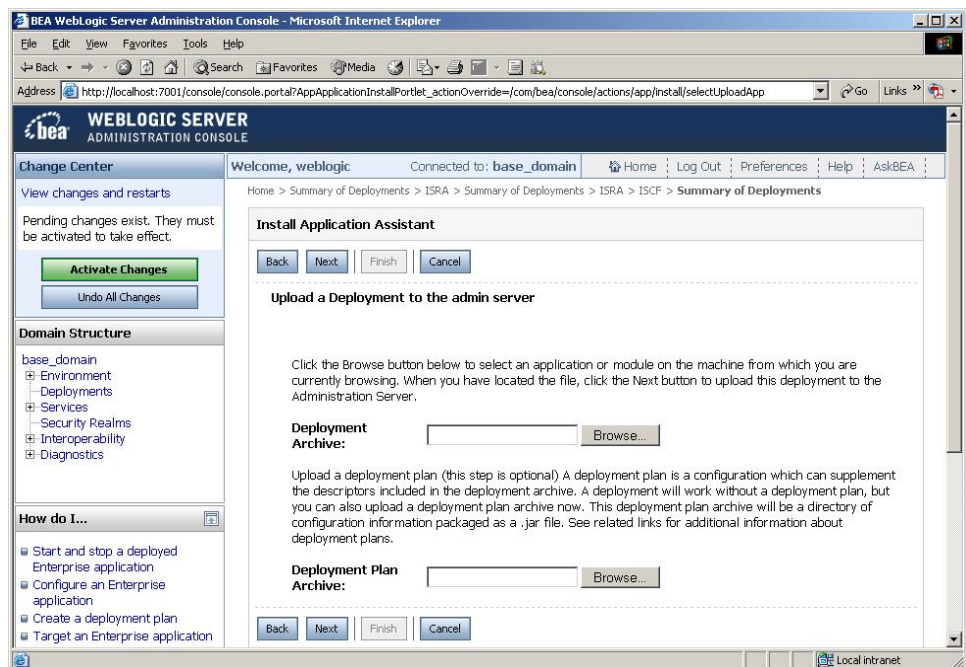


The **Release Configuration** button, along with the buttons under **Deployment** section is enabled.

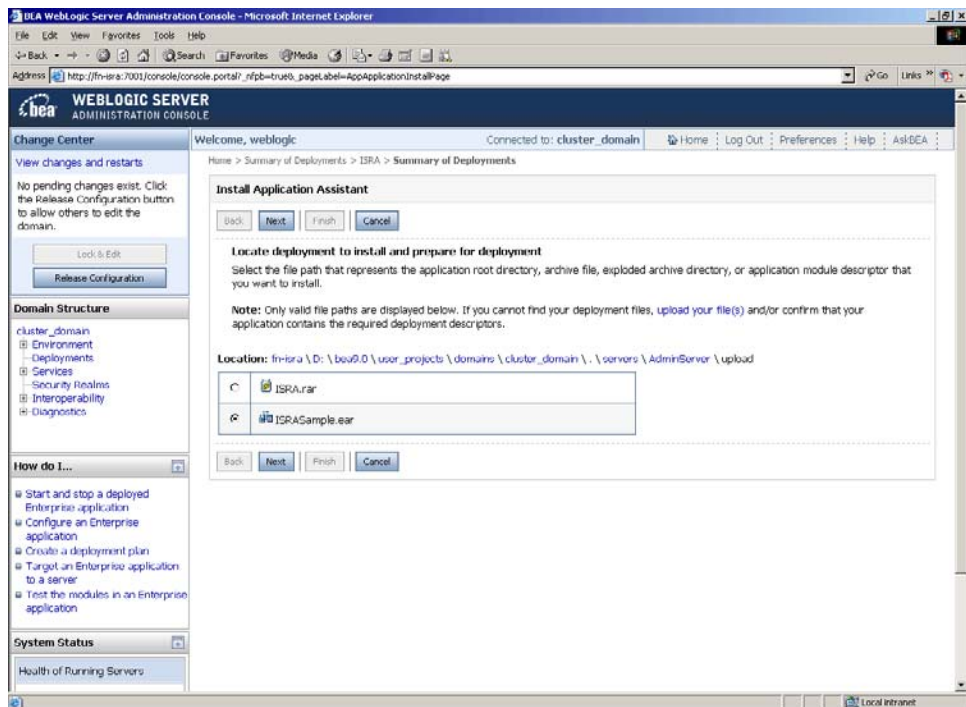
5. Under **Deployments** click **Install** button. The **Install Application Assistant** screen appears:



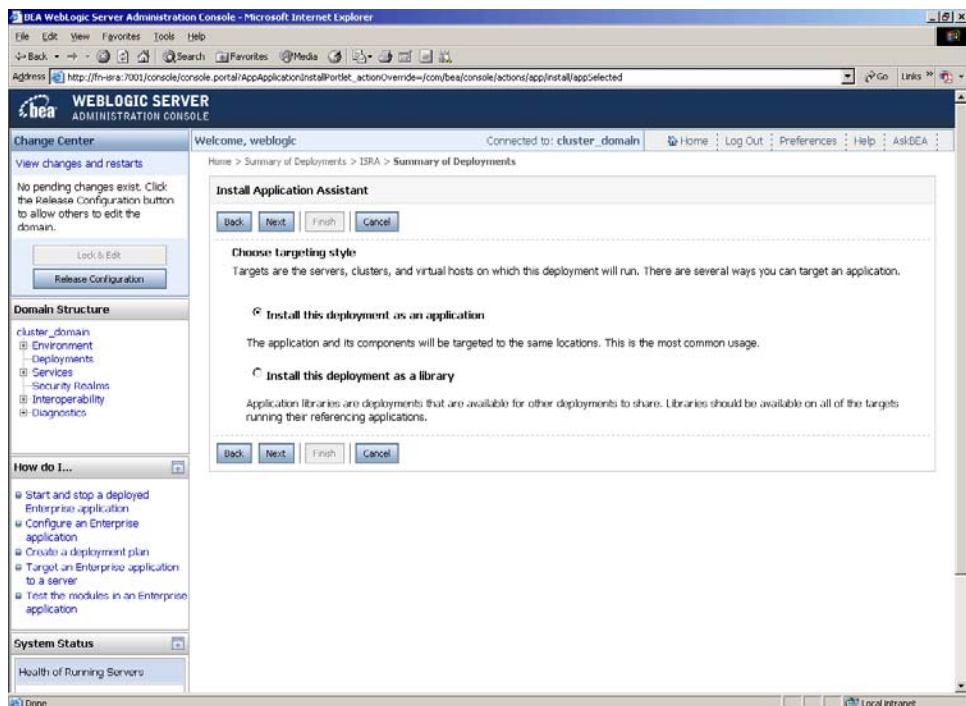
6. Click the **upload your file(s)** link. The following screen appears:



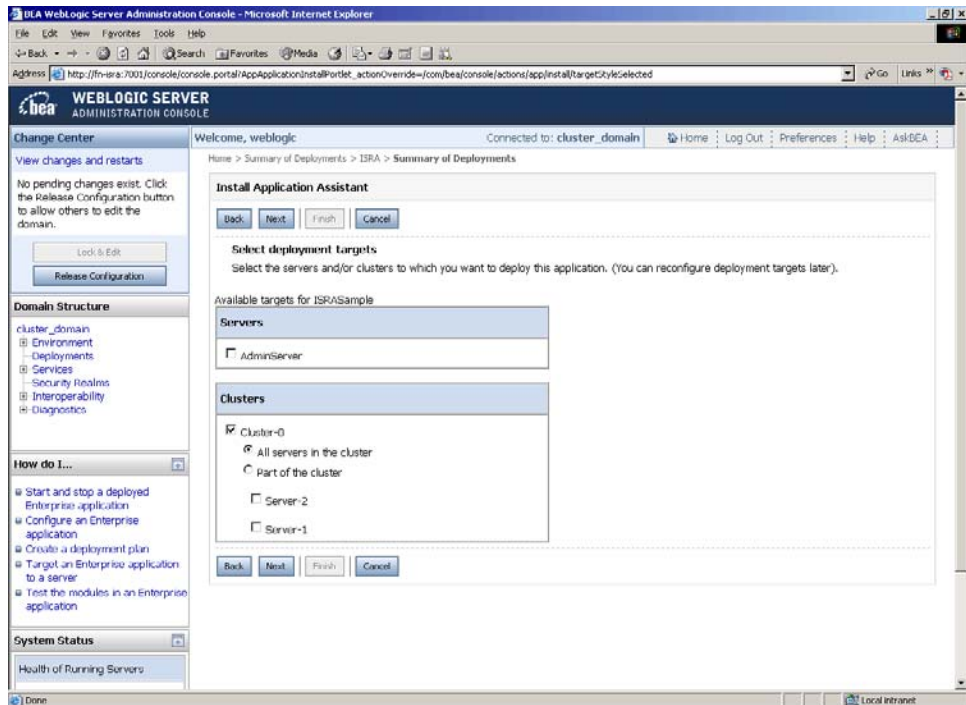
7. Click **Browse** to select the **ISRASample.ear** file. The **ISRASample.ear** file is located in **sample** subdirectory of the ISRA installation directory. For example, if user has installed ISRA in C:\fns\ISRA (/fns/ISRA on UNIX), the **ISRASample.ear** is located in C:\fns\ISRA\sample\ (/fns/ISRA/sample on UNIX) directory.
8. Click **Next** to upload the **ISRASample.ear** file. The system may take some time to upload the file. The following screen appears:



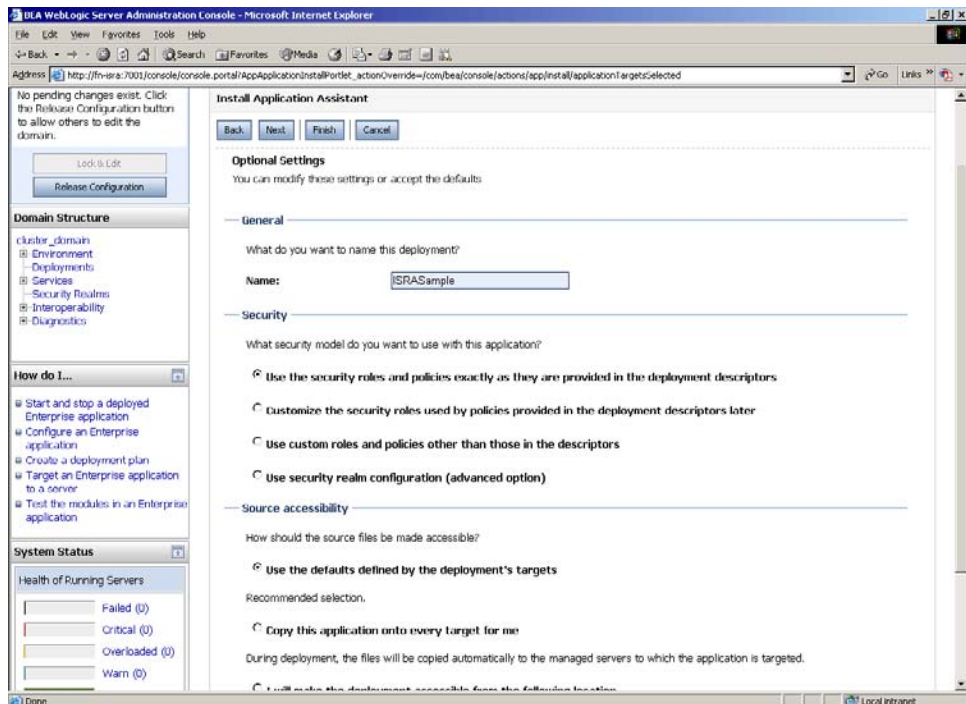
9. Select the radio button corresponding to **ISRASample.ear**, and click **Next**. The following screen appears:



10. Select the radio button corresponding to **Install this deployment as an application**, if not selected by default, and click **Next**. The following screen appears:



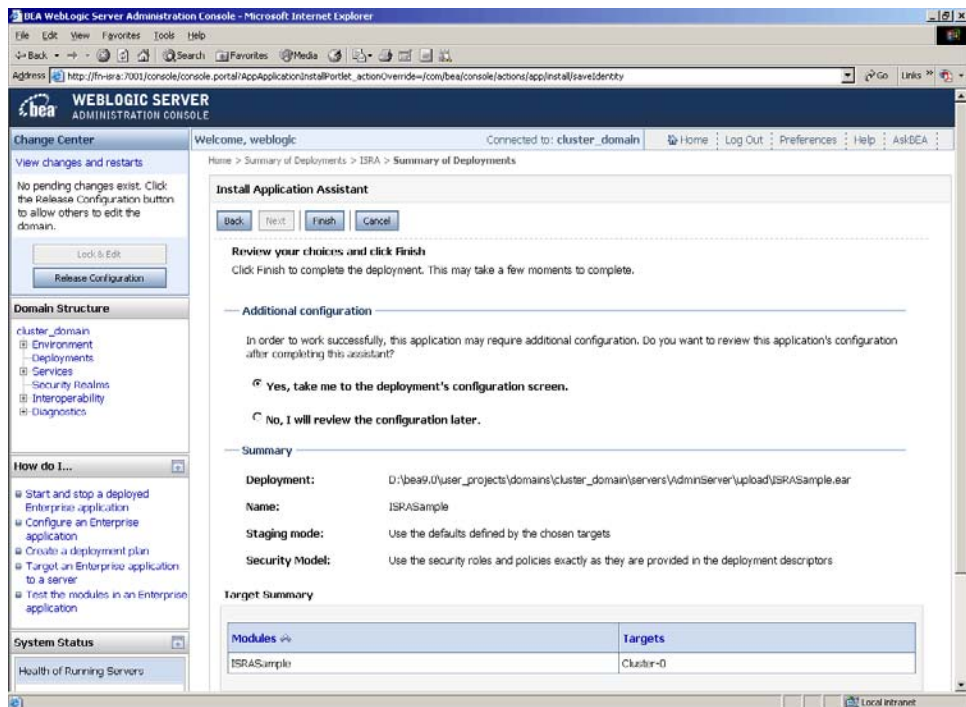
11. Select the check box corresponding to **Cluster 0**, and click **Next**. The following screen appears:



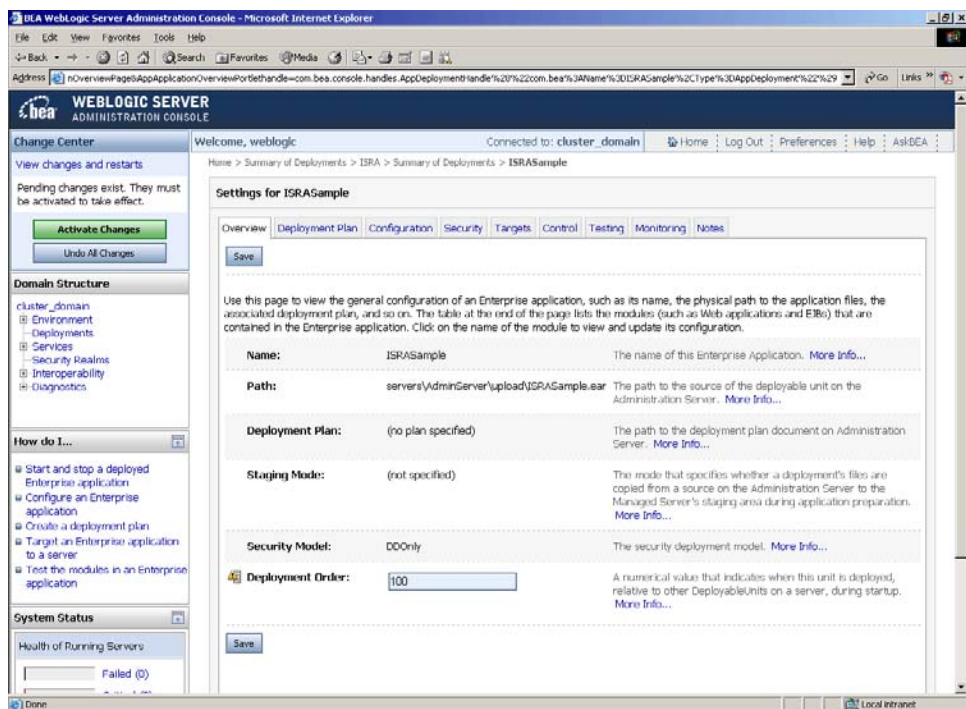
This screen displays the optional settings of the deployed file.

12. Retain the default settings, and click **Next**. The following screen appears:

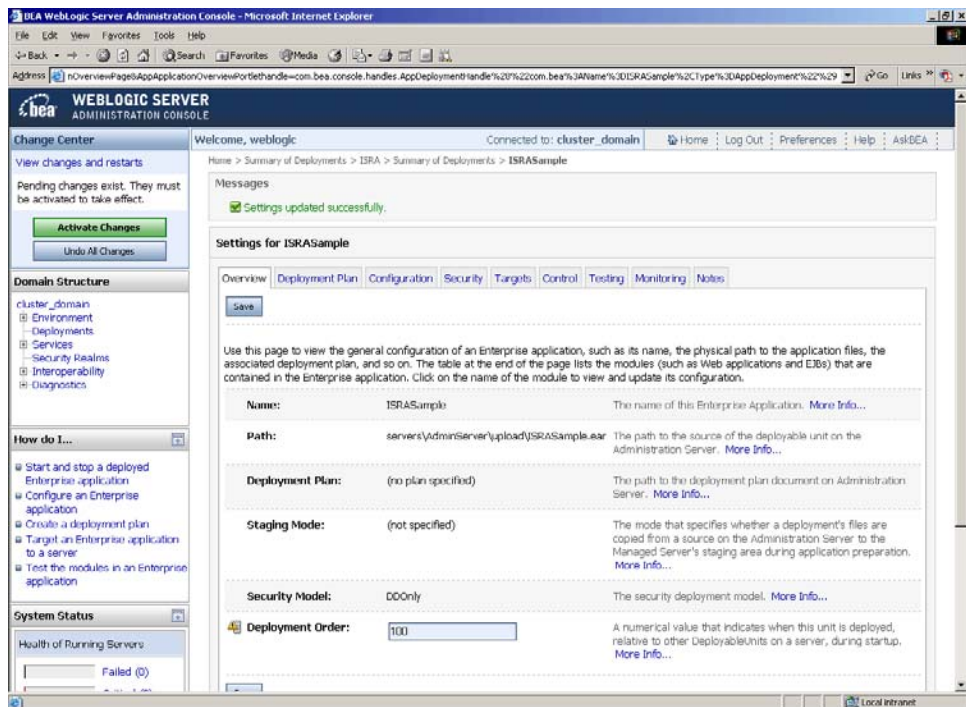




13. Retain the default settings, and click **Finish**. The following screen appears:

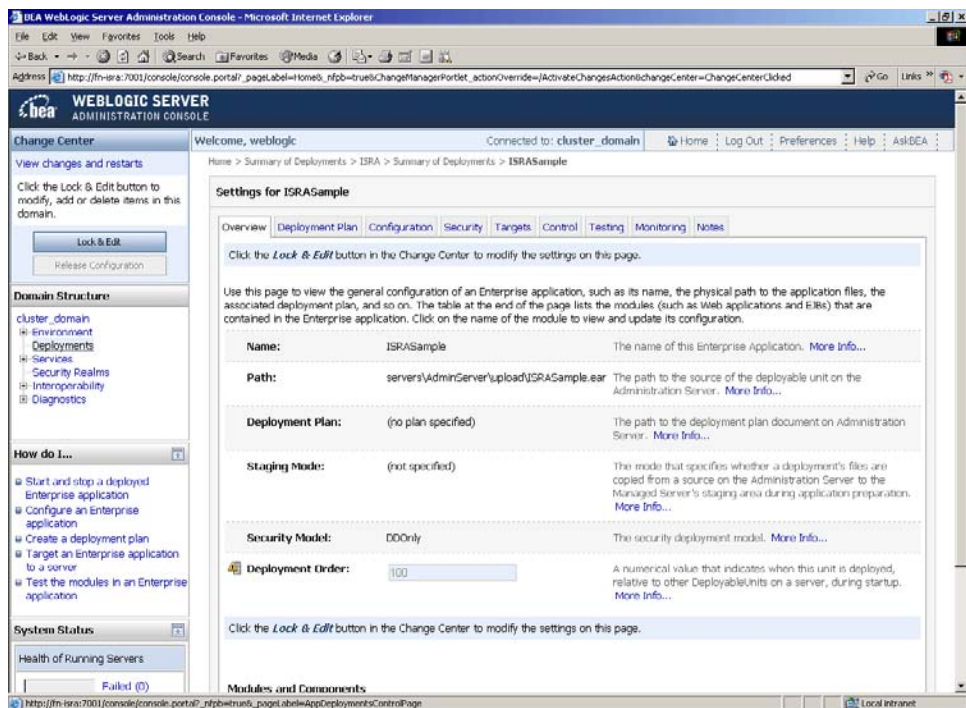


14. Click **Save**. The successful upload confirmation screen appears:



The system returns to the same page with the message: 'Settings updated successfully' displayed.

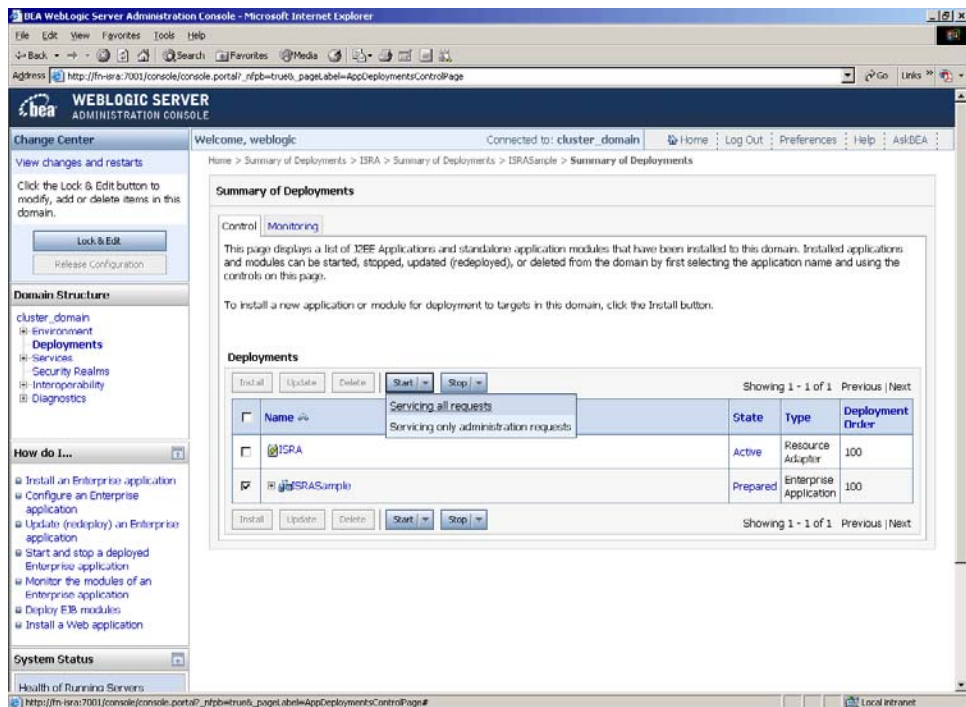
15. Click **Activate Changes** button. The following screen appears:



An overview of the deployments made is reflected. The **ISRASample.ear** file is successfully deployed.

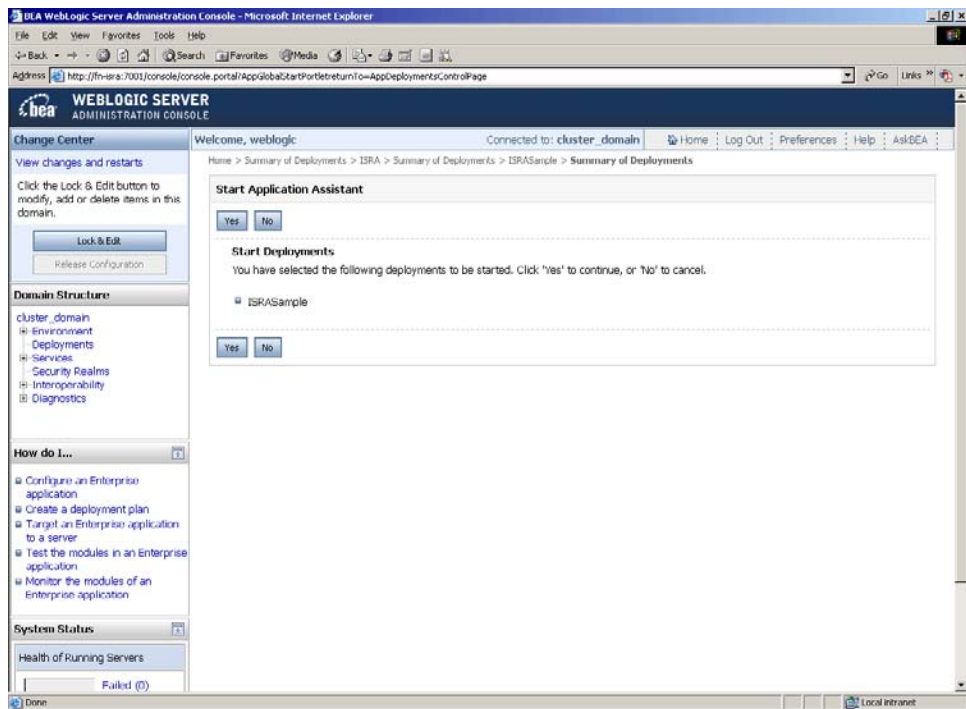
16. Click **Deployments**. The following screen appears:



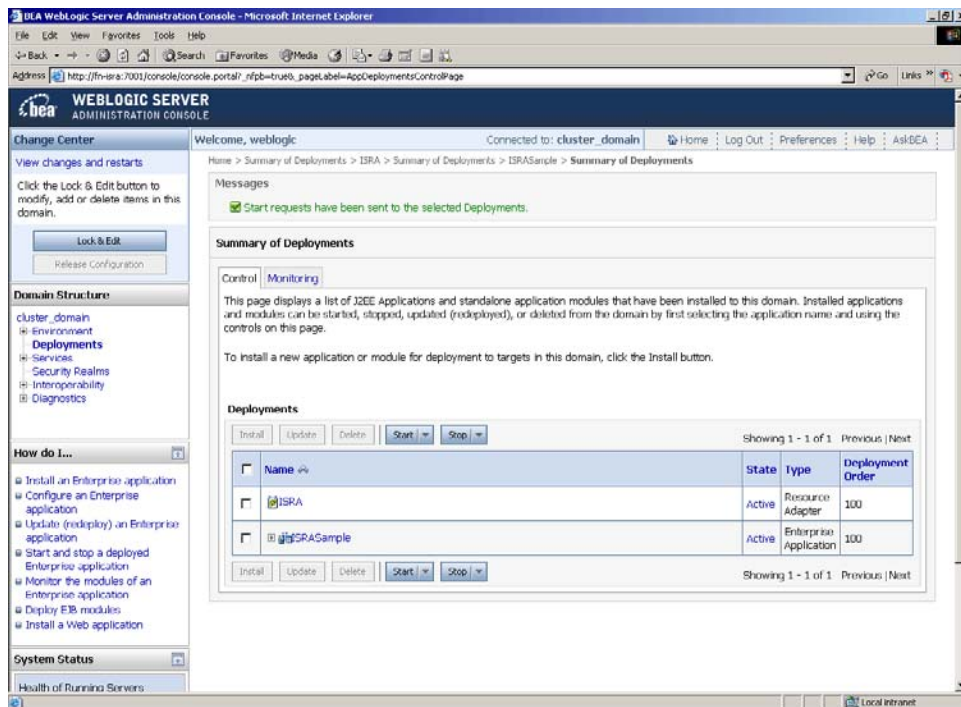


A summary of deployments is reflected on the screen.

17. Select the check box corresponding to **ISRASample**, and click **Servicing all requests** from the **Start** drop-down button. The **Start Application Assistant** screen appears:



18. Click **Yes** to start the deployment of the **ISRASample.ear** file. The **Summary of Deployments** screen appears:



The **Status** of the deployed file changes to **Active**. The confirmation message: 'Start requests have been sent to the selected Deployments' is displayed.

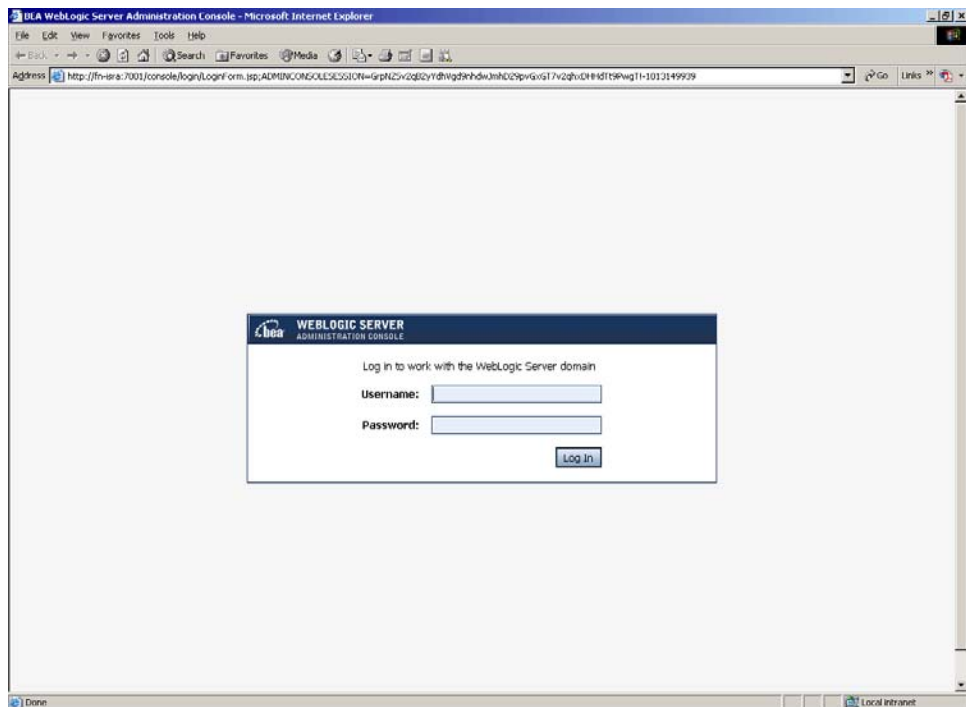
## Deploying IBM FileNet Image Viewer in a Standalone Environment

This section describes how to deploy the IBM FileNet Image Viewer. This viewer is used by the ISRA Sample Application to display documents of specific mime types (TIFF, JPEG and BMP). Skip this section, if you do not want the IBM FileNet Image Viewer configured with the ISRA Sample application.

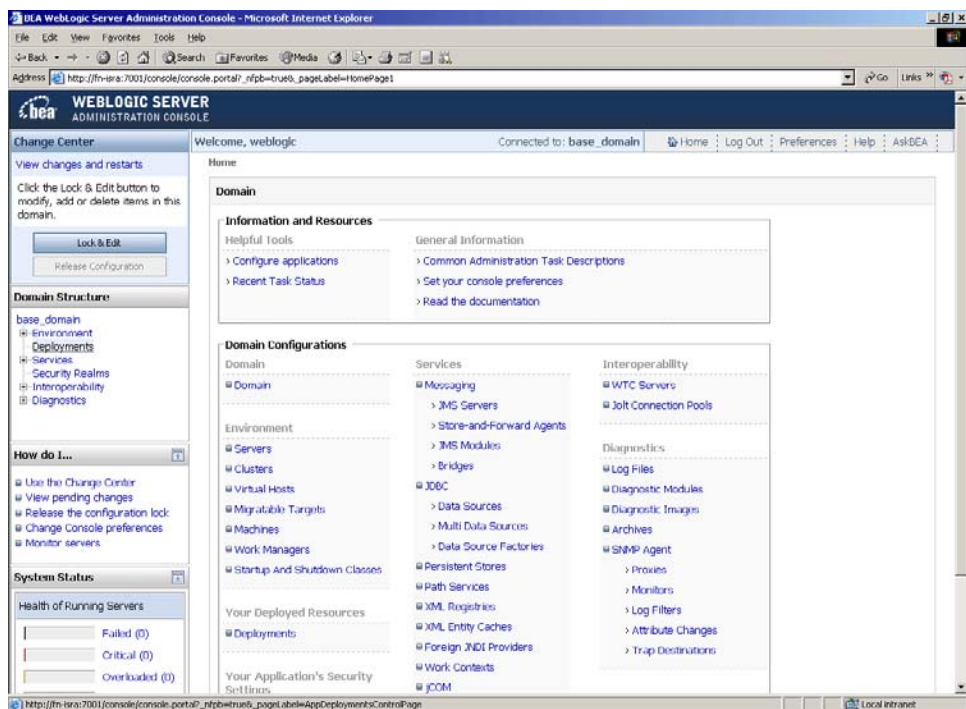
Before deploying IBM FileNet Image Viewer application through the WebLogic Server Administration Console, ensure that the WebLogic Administration Server is running, else, start the Administration as explained in the beginning of [Deploying ISRA in a Standalone Environment](#) section.

To deploy IBM FileNet Image Viewer:

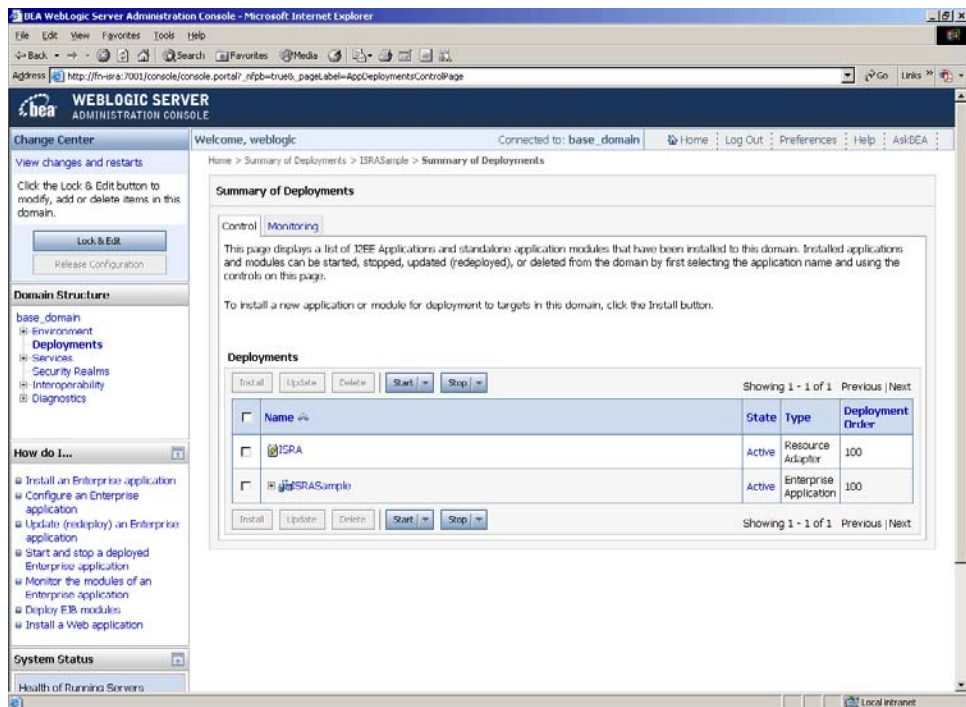
1. Start the administrative console. Open a browser window and enter the WebLogic admin console URL `http://<hostname>:<portnumber>/console`.



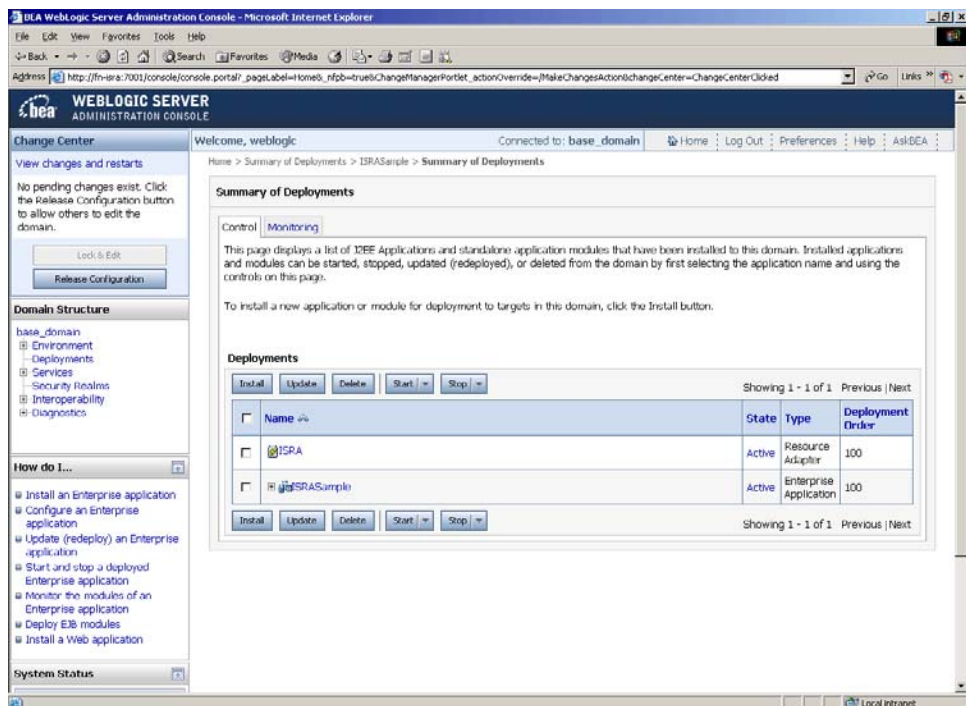
2. The WebLogic admin console sign on screen appears. Enter the WebLogic admin **Username** and **Password**. Click **Log In** to access the WebLogic admin console. The following screen appears:



3. Click **Deployments**. The following screen appears:



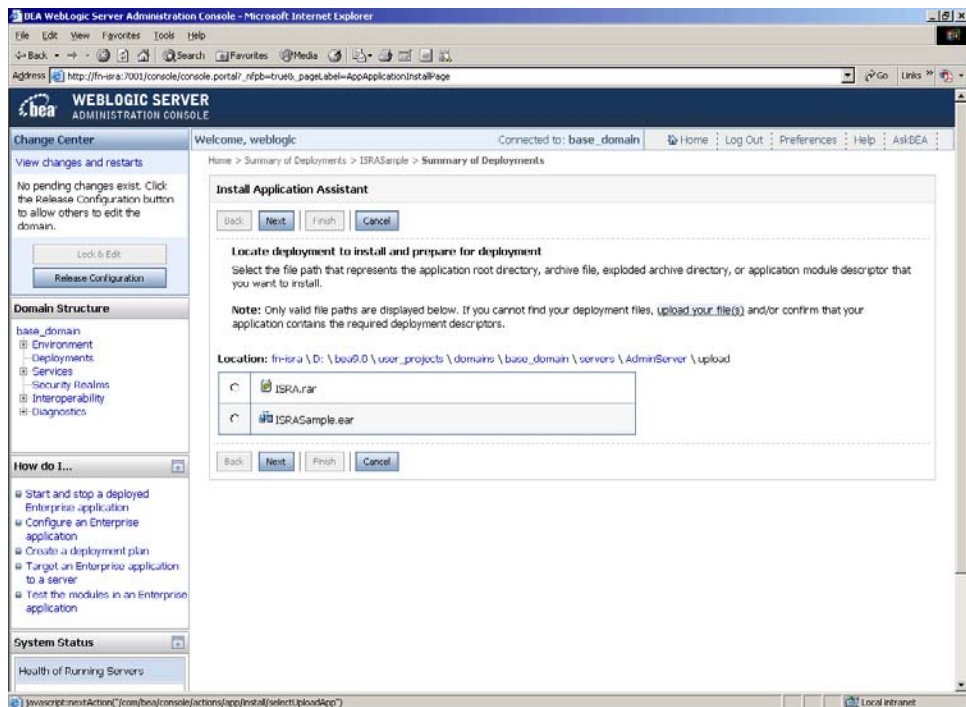
4. Click **Lock and Edit** button to make the console editable. The following screen appears:



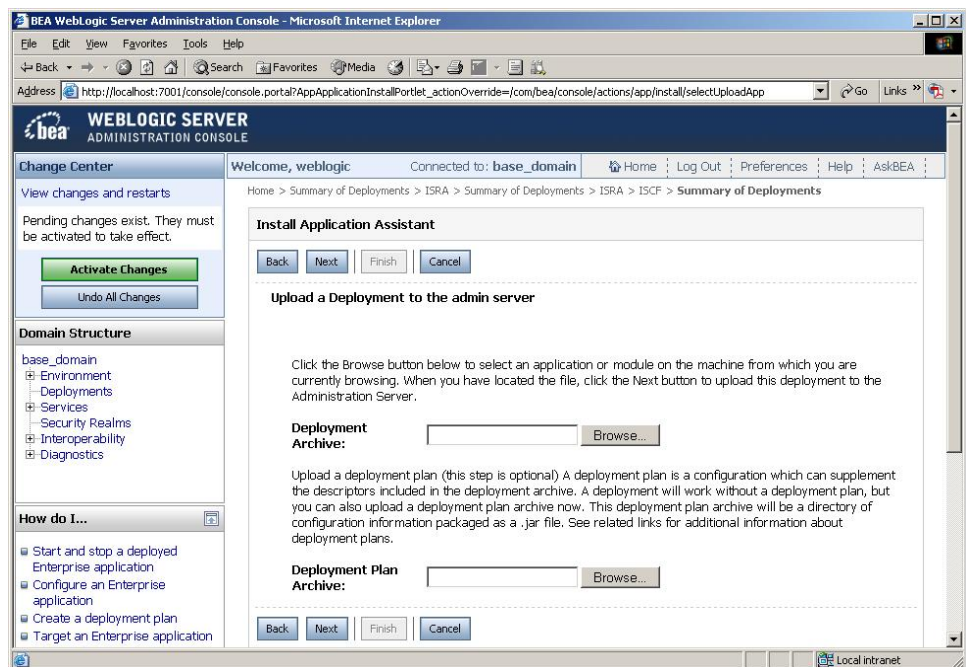
The **Release Configuration** button, along with the buttons under **Deployment** section is enabled.

5. Under **Deployments**, click **Install** button. The **Install Application Assistant** screen appears:

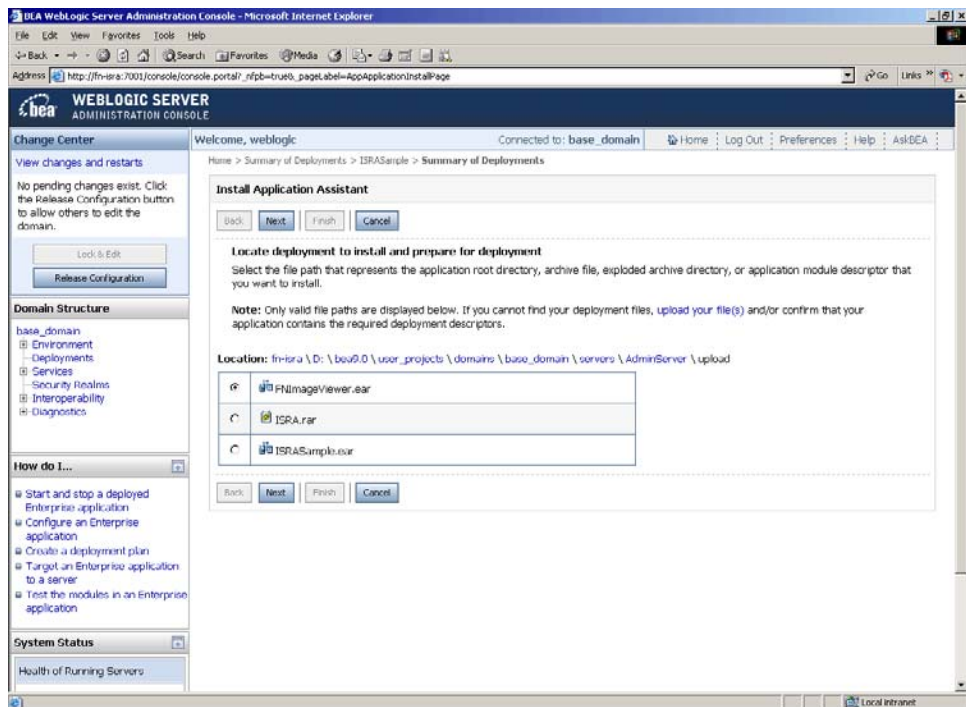




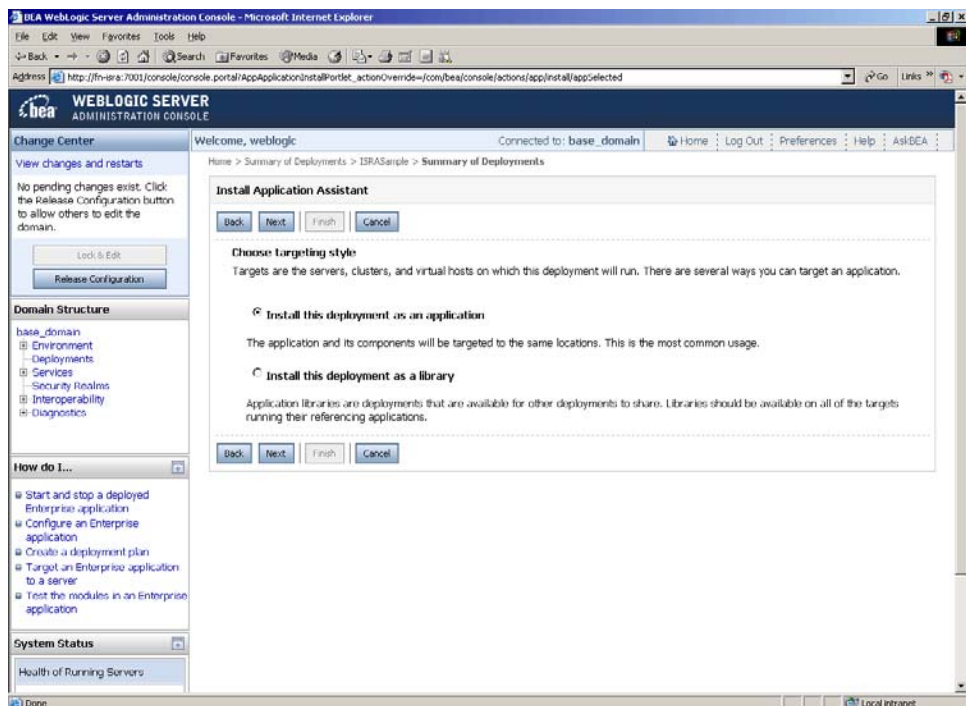
6. Click the **upload your file(s)** link. The following screen appears:



7. Click **Browse** to select the **FNImageViewer.ear** file. The **FNImageViewer.ear** file is located in **sample** subdirectory of the ISRA installation directory. For example, if user has installed ISRA in **C:\fnsw\ISRA** (/fnsw/ISRA on UNIX), the **FNImageViewer.ear** is located in **C:\fnsw\ISRA\sample\** (/fnsw/ISRA/sample on UNIX) directory.
8. Click **Next** to upload the **FNImageViewer.ear** file. The system may take some time to upload the file. The following screen appears:

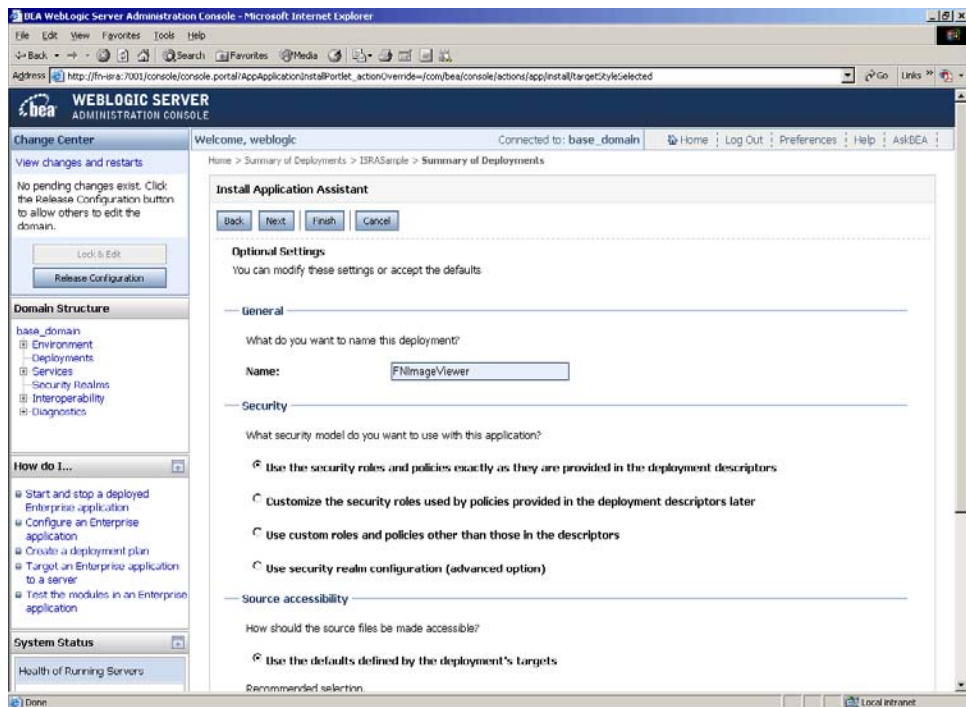


9. Select the radio button corresponding to **FNImageViewer.ear**, and click **Next**. The following screen appears:



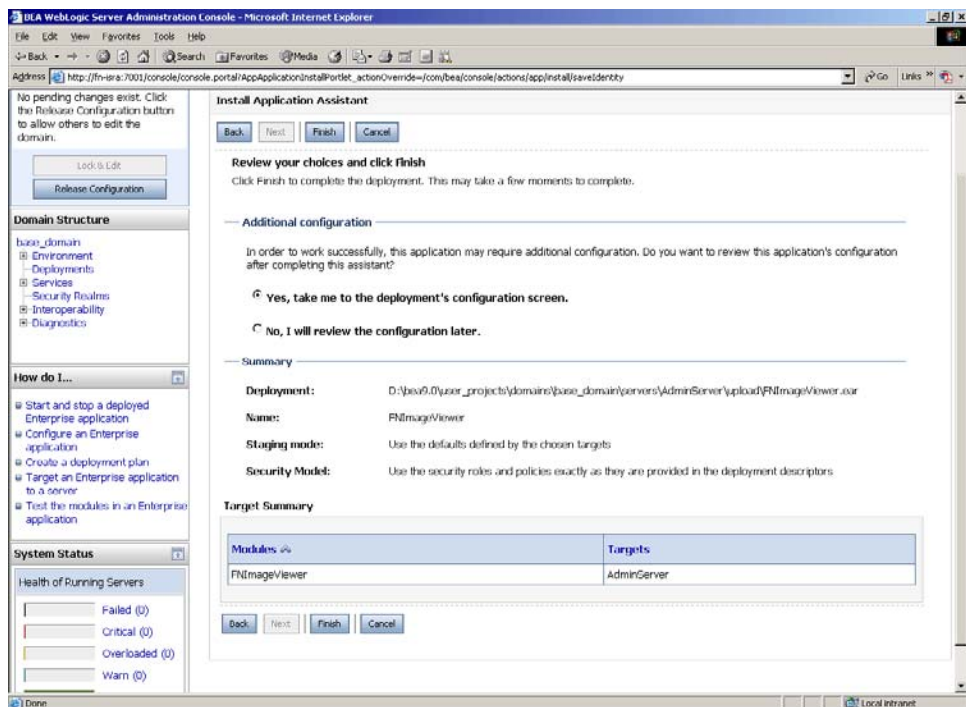
10. Select the radio button corresponding to **Install this deployment as an application**, if not selected by default, and click **Next**. The following screen appears:



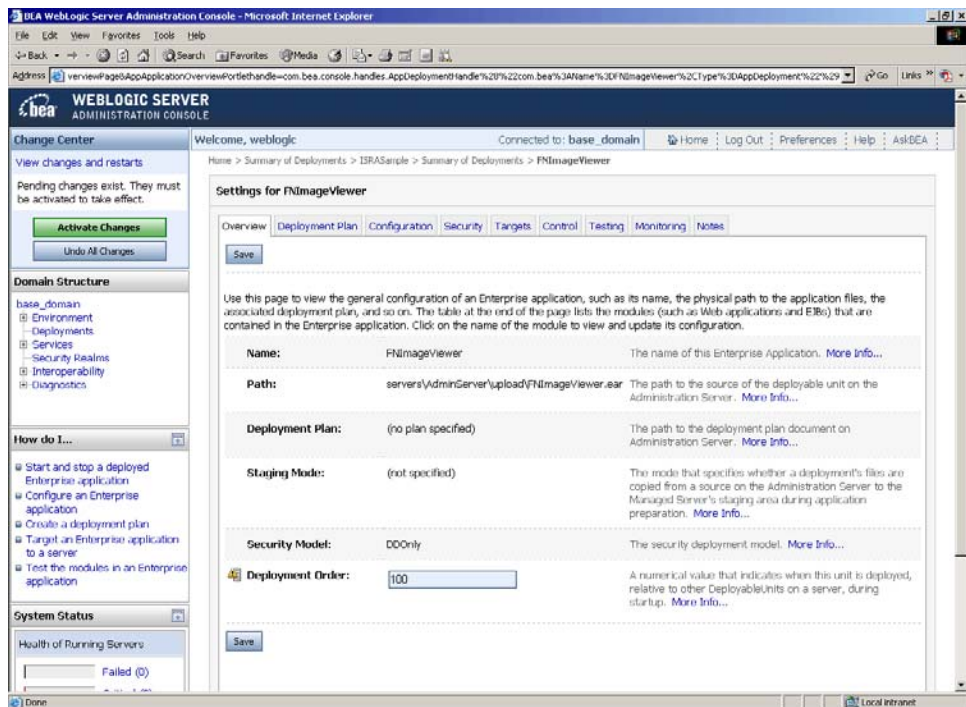


This screen displays the optional settings of the deployed file.

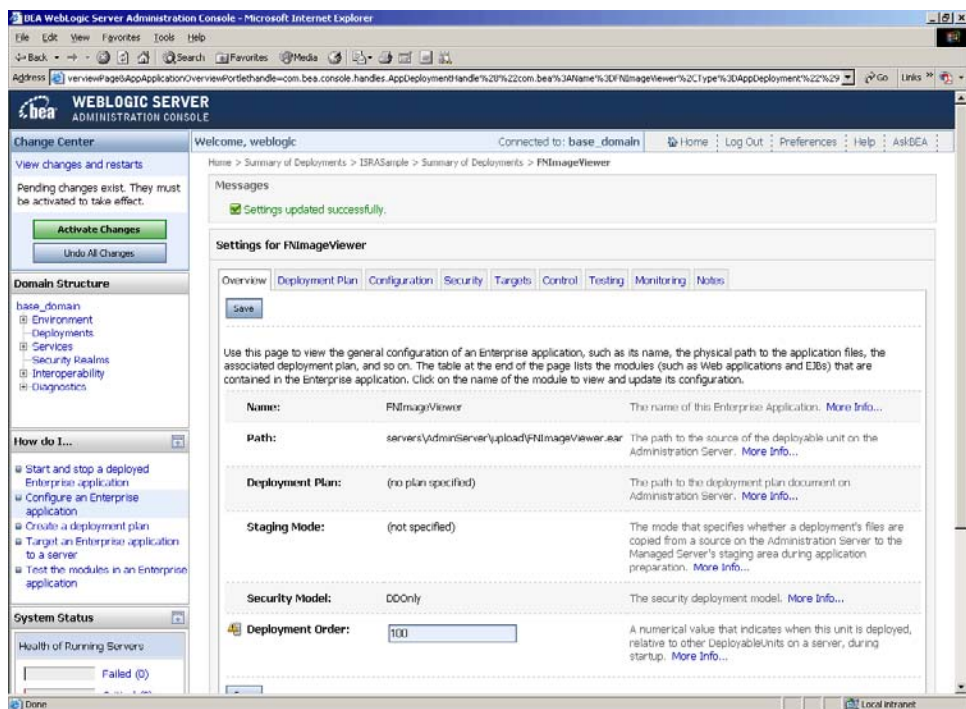
11. Retain the default settings, and click **Next**. The following screen appears:



12. Retain the default settings, and click **Finish**. The following screen appears.

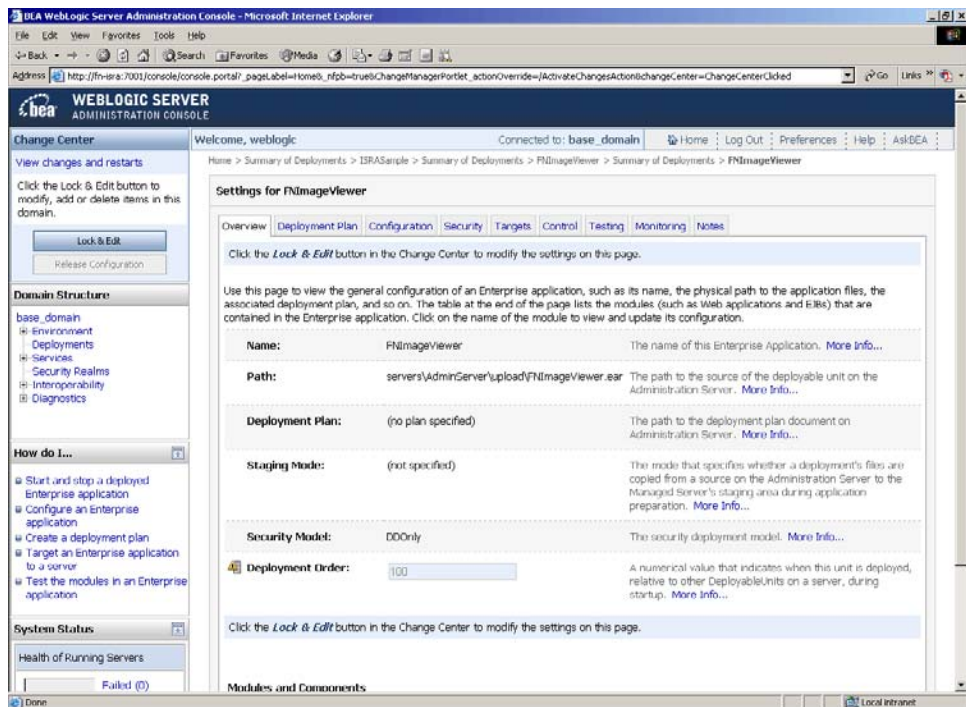


13. Click **Save**. The successful upload confirmation screen appears:



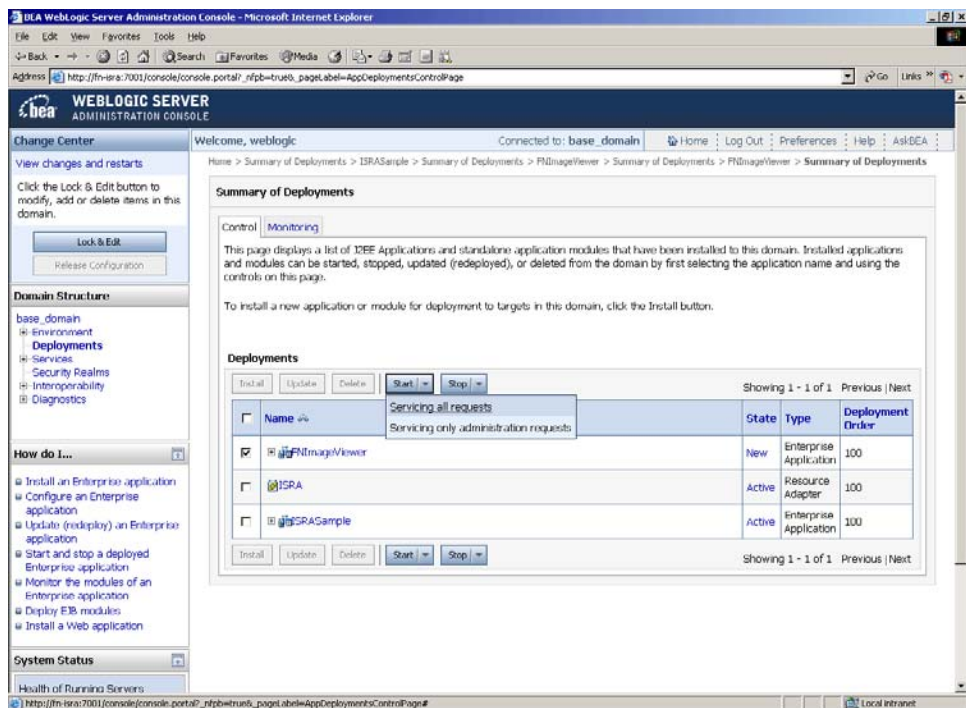
The system returns to the same page with the message: '*Settings updated successfully*' displayed.

14. Click **Activate Changes** button. The following screen appears:



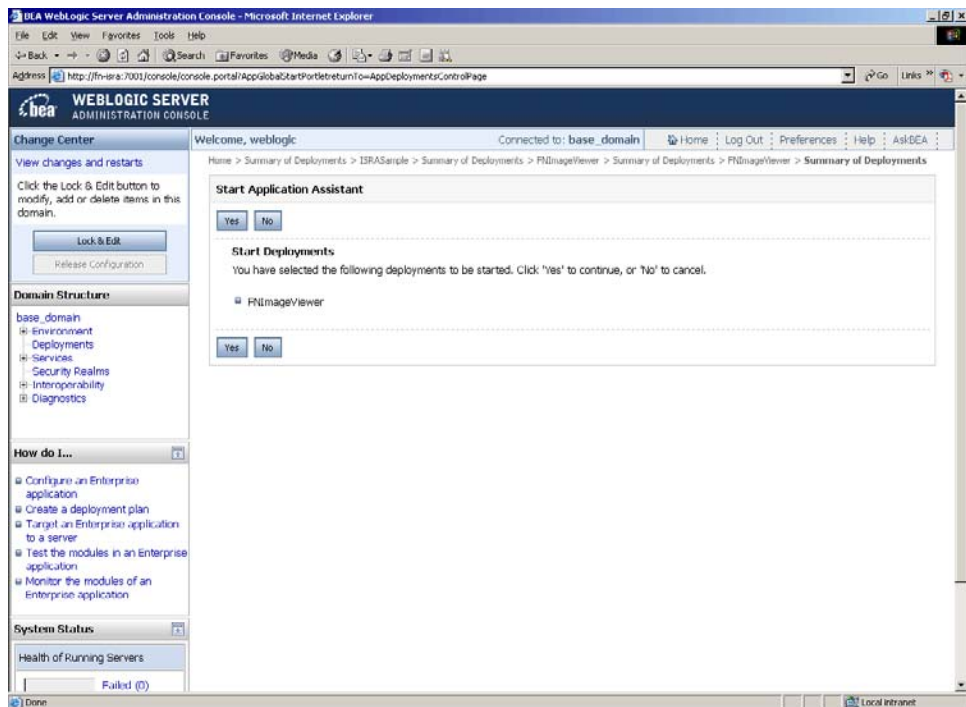
An overview of the deployments made is reflected. The **FNImageViewer.ear** file is successfully deployed.

15. Click **Deployments**. The following screen appears;

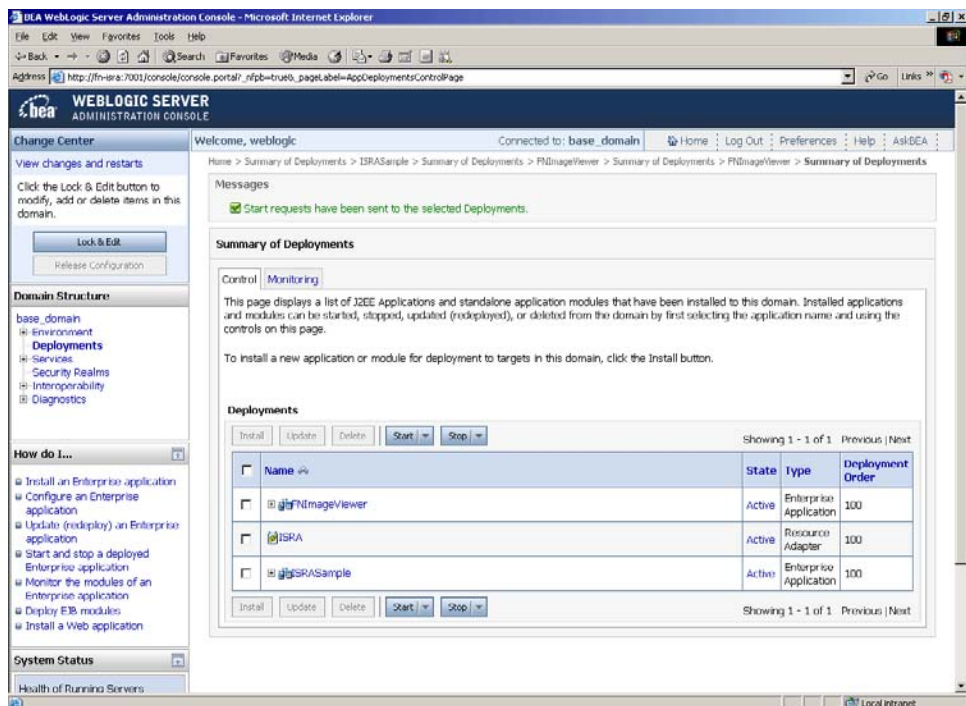


A summary of deployments is reflected on the screen.

16. Select the check box corresponding to **FNImageViewer**, and click **Servicing all requests** from the **Start** drop-down button. The **Start Application Assistant** screen appears:



17. Click **Yes** to start the deployment of the **FNIImageViewer.ear** file. The **Summary of Deployments** screen appears:



The **Status** of the deployed file changes to **Active**. The confirmation message: 'Start requests have been sent to the selected Deployments' is displayed.



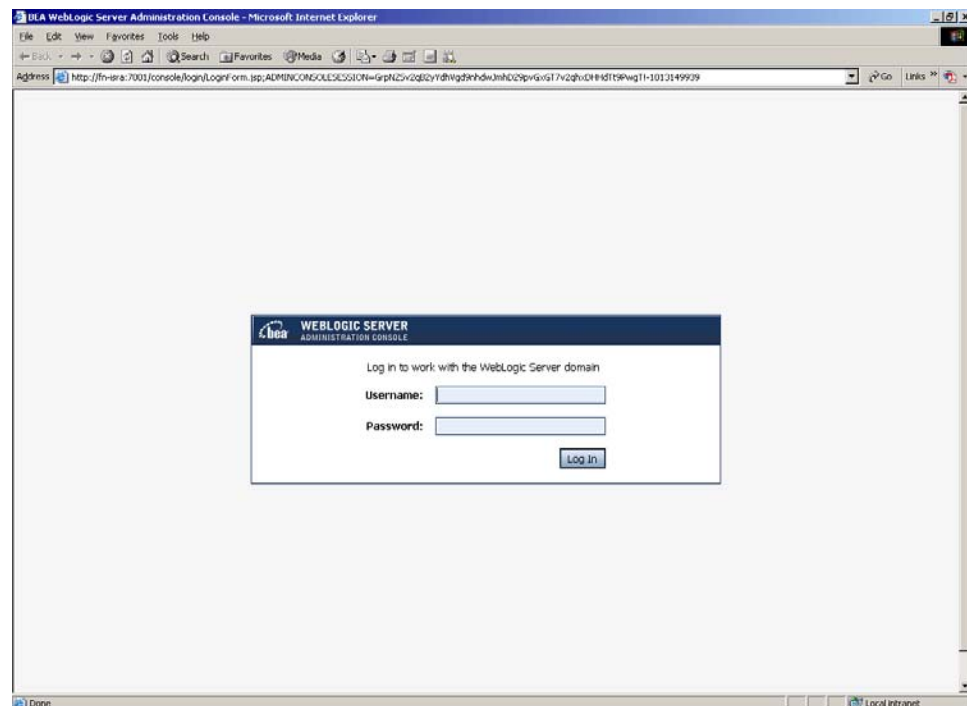
## Deploying IBM FileNet Image Viewer in a Clustered Environment

This section describes how to deploy the IBM FileNet Image Viewer on a clustered environment. This viewer is used by the ISRA Sample Application to display documents of specific mime types (TIFF, JPEG and BMP). Skip this section, if you do not want the IBM FileNet Image Viewer configured with the ISRA Sample application.

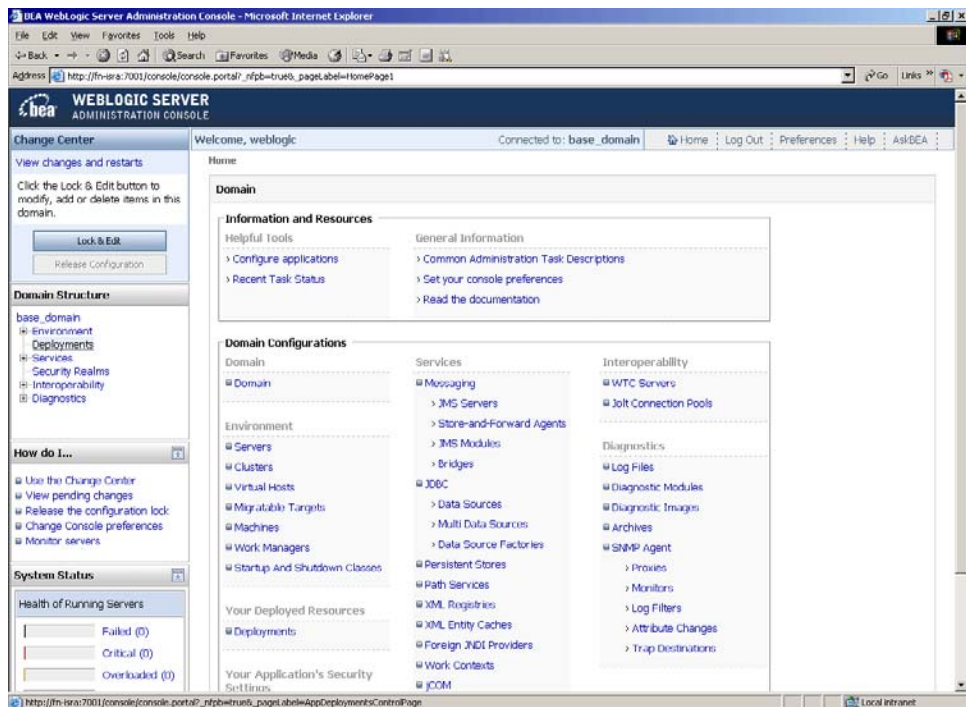
Before deploying IBM FileNet Image Viewer application through the WebLogic Server Administration Console, ensure that the WebLogic Administration Server is running, else, start the Administration as explained in the beginning of [Deploying ISRA](#) section.

To deploy IBM FileNet Image Viewer:

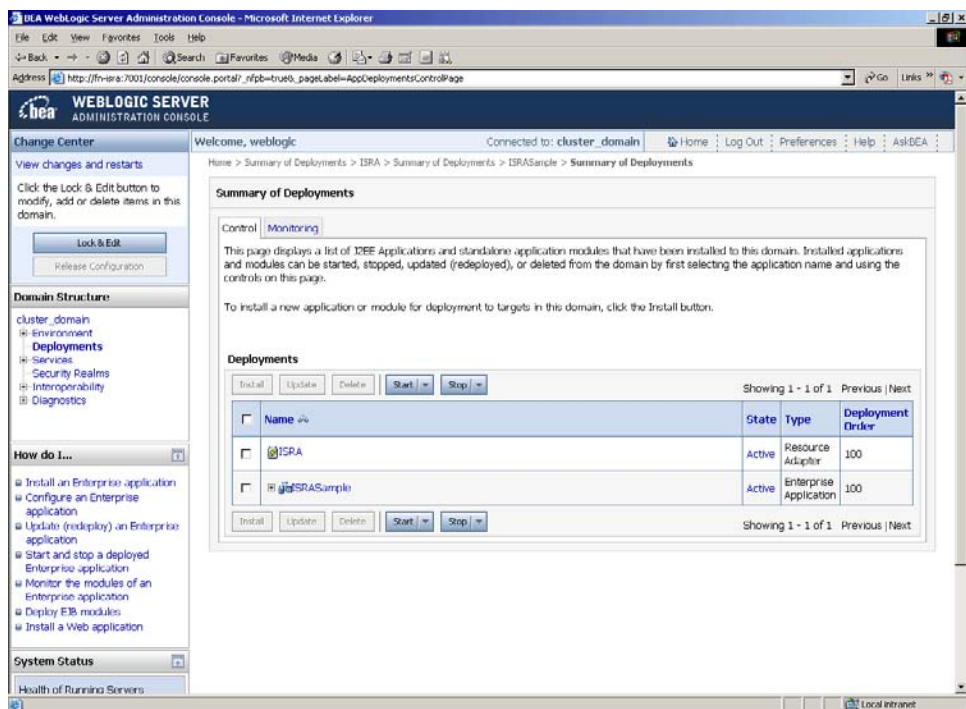
1. Start the administrative console. Open a browser window and enter the WebLogic admin console URL `http://<hostname>:<portnumber>/console`.



2. The WebLogic admin console sign on screen appears. Enter the WebLogic admin **Username** and **Password**. Click **Log In** to access the WebLogic admin console. The following screen appears:

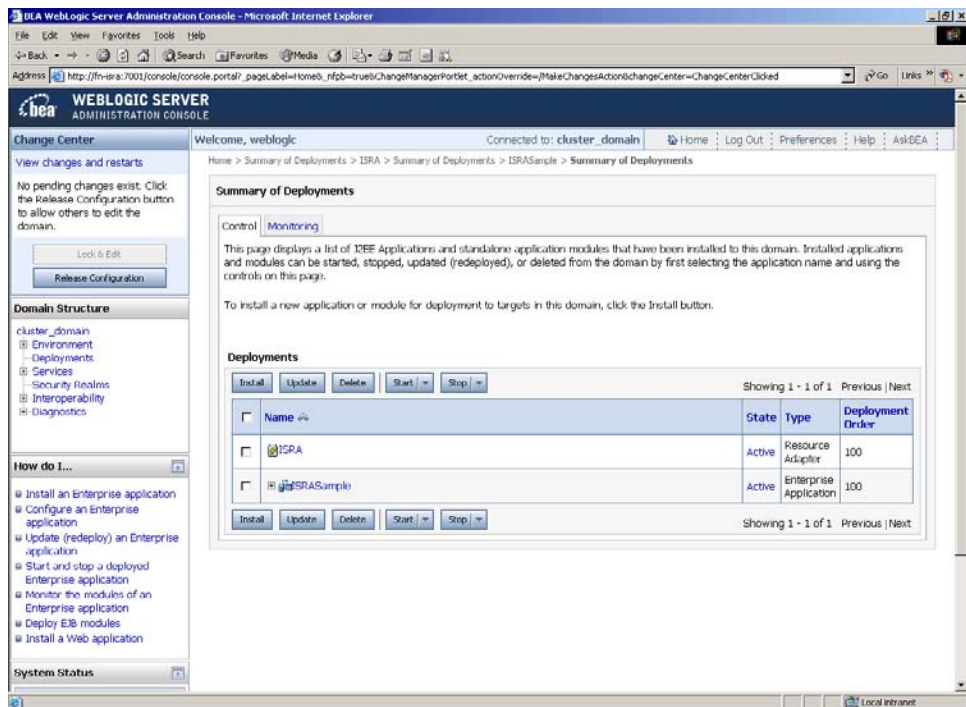


3. Click **Deployments**. The following screen appears:



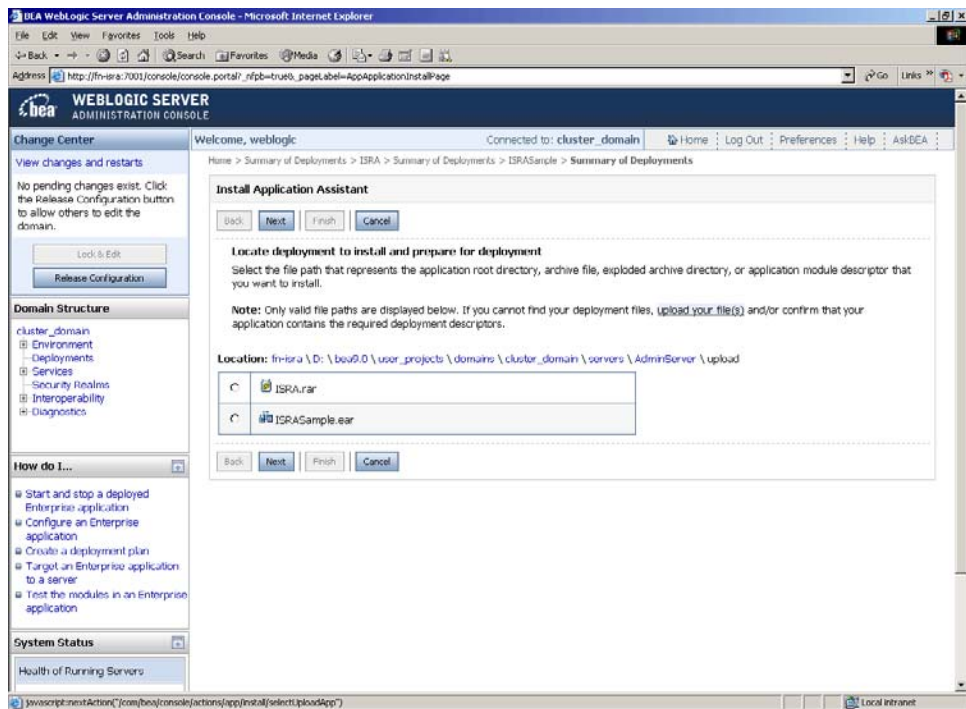
4. Click **Lock and Edit** button to make the console editable. The following screen appears:



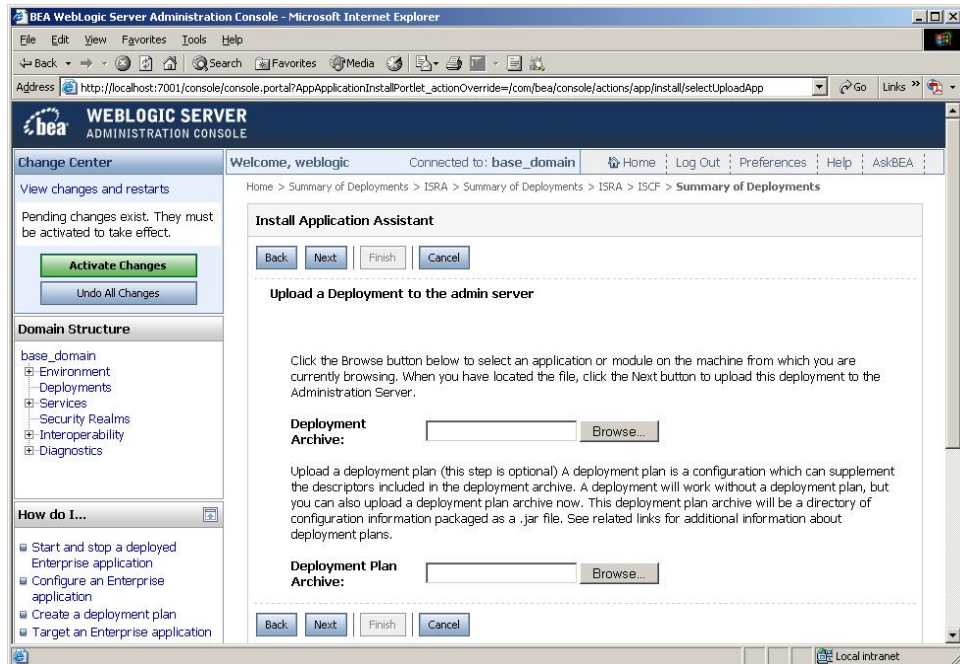


The **Release Configuration** button, along with the buttons under **Deployment** section is enabled.

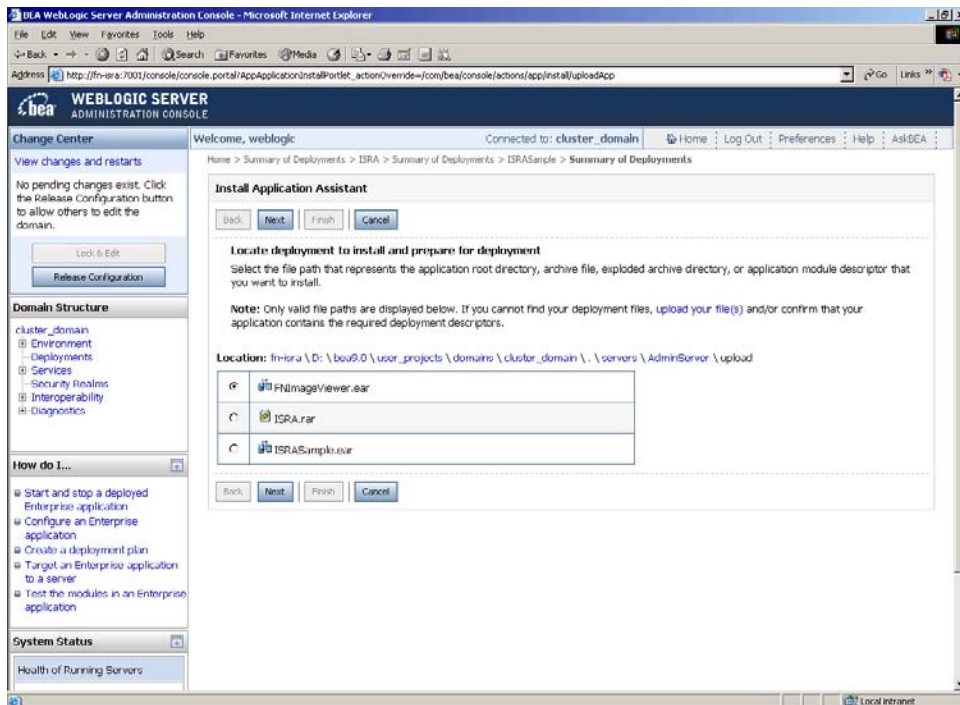
- Under **Deployments** click **Install** button. The **Install Application Assistant** screen appears:



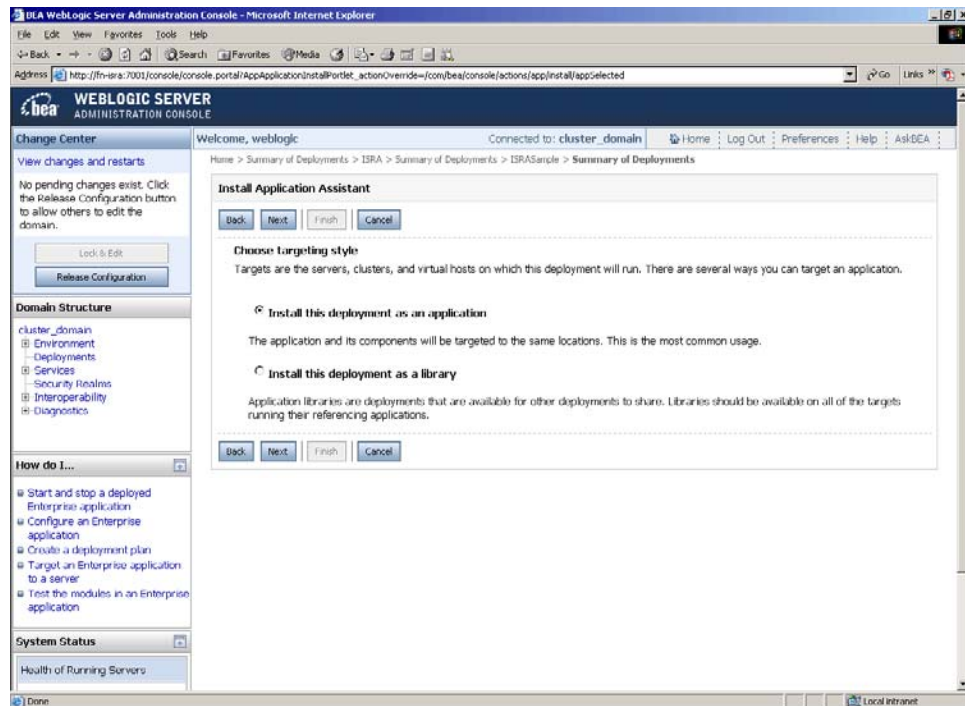
- Click the **upload your file(s)** link. The following screen appears:



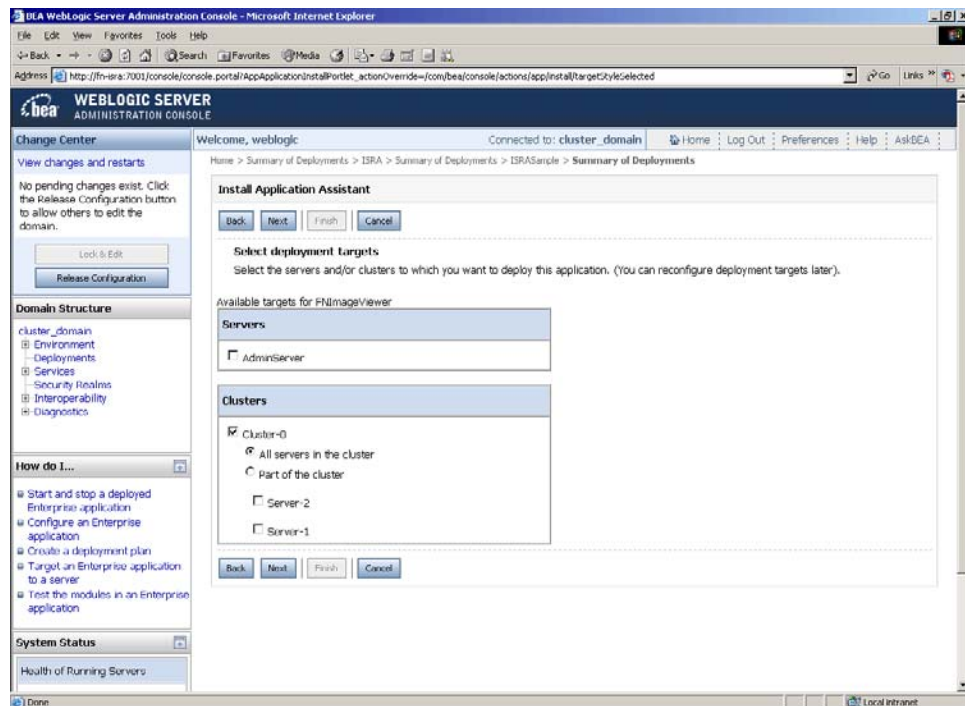
7. Click **Browse** to select the **FNImageViewer.ear** file. The **FNImageViewer.ear** file is located in **sample** subdirectory of the ISRA installation directory. For example, if user has installed ISRA in `C:\fnsw\ISRA` ( `/fnsw/ISRA` on UNIX), the **FNImageViewer.ear** is located in `C:\fnsw\ISRA/sample/` ( `/fnsw/ISRA/sample` on UNIX) directory.
8. Click **Next** to upload the **FNImageViewer.ear** file. The system may take some time to upload the file. The following screen appears:



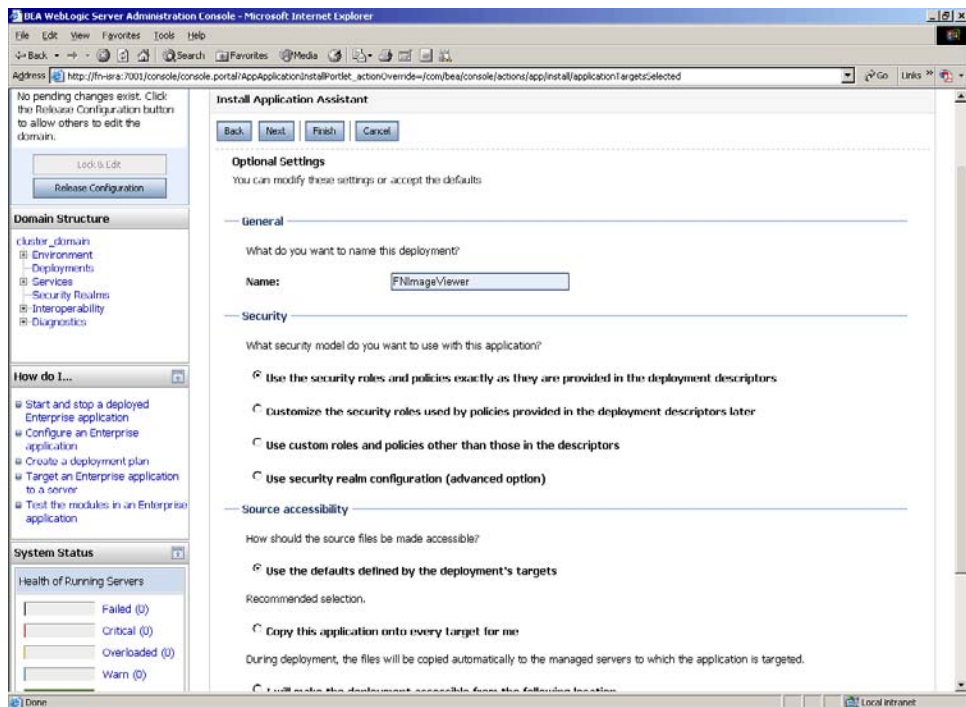
9. Select the radio button corresponding to **FNImageViewer.ear**, and click **Next**. The following screen appears:



10. Select the radio button corresponding to **Install this deployment as an application**, if not selected by default, and click **Next**. The following screen appears:

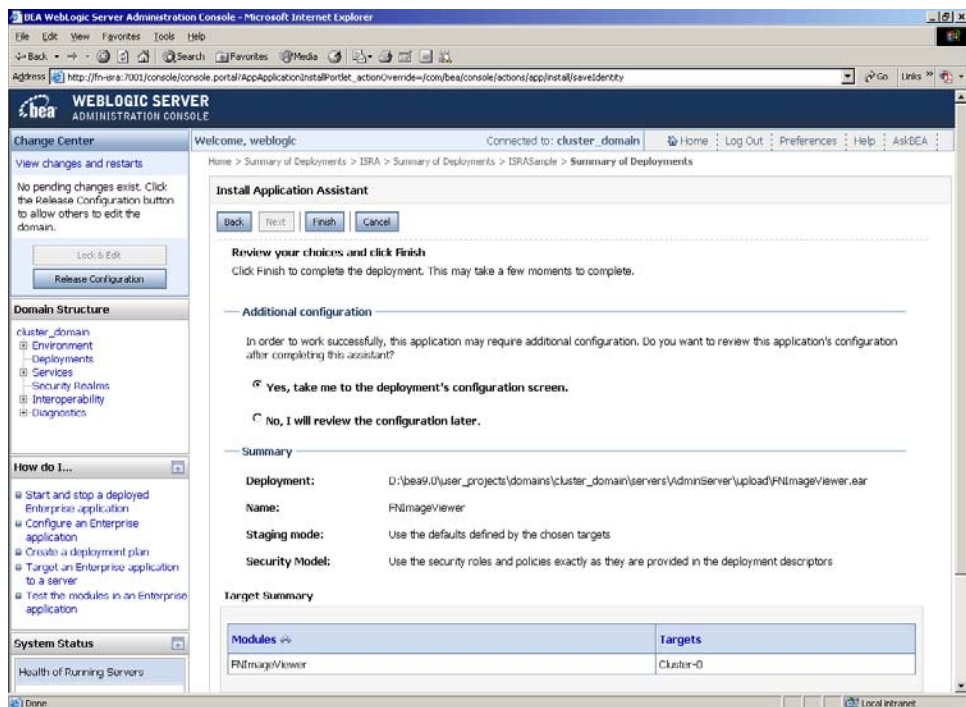


11. Select the check box corresponding to **Cluster 0**, and click **Next**. The following screen appears:



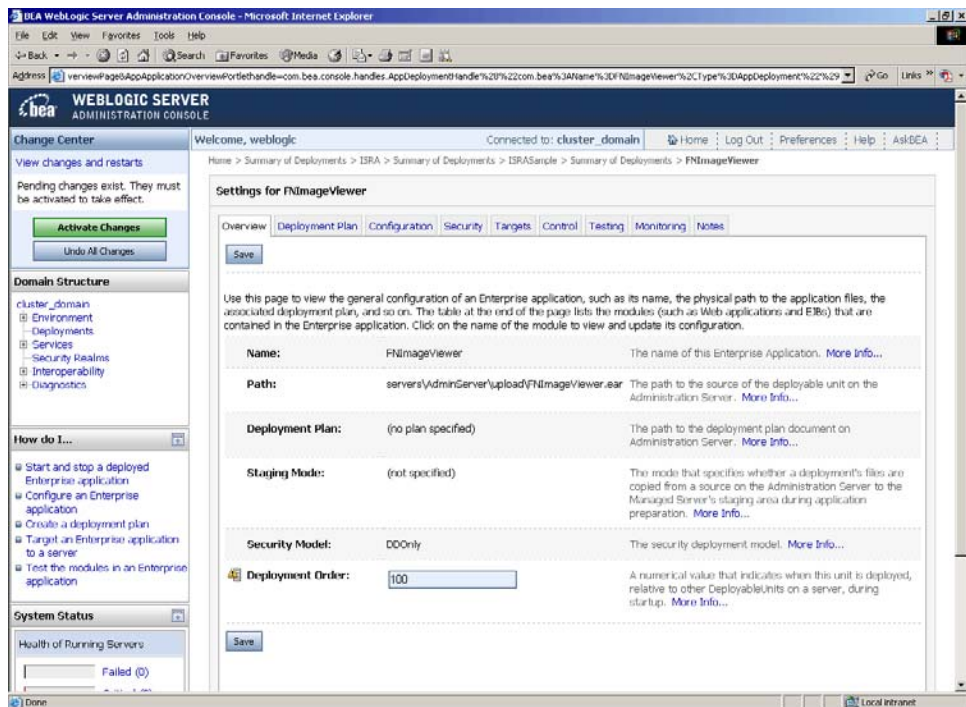
This screen displays the optional settings of the deployed file.

12. Retain the default settings, and click **Next**. The following screen appears:

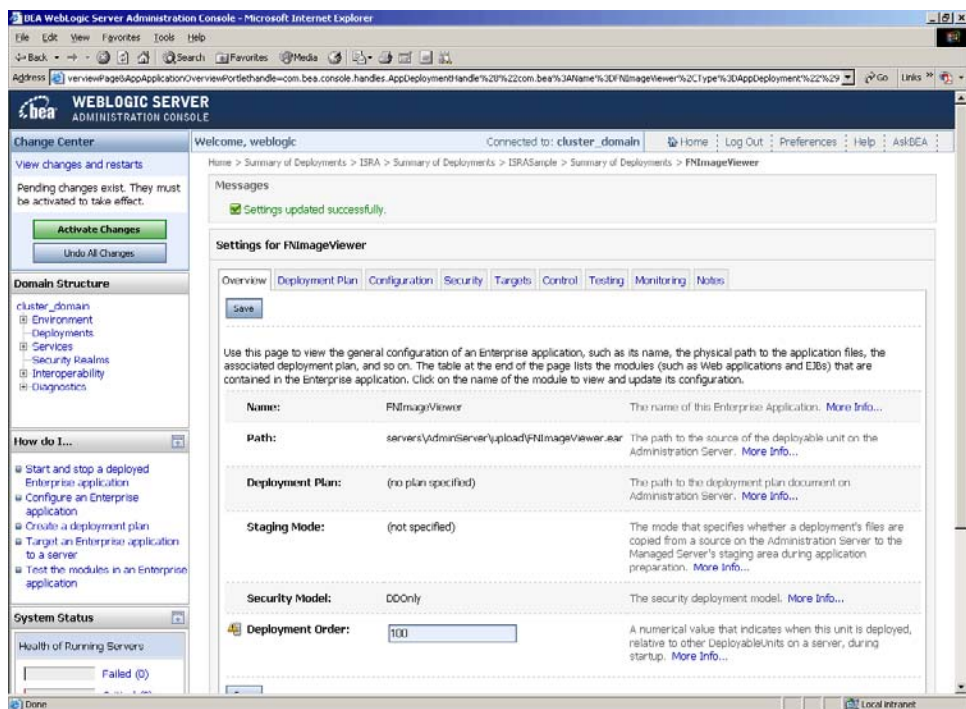


13. Retain the default settings, and click **Finish**. The following screen appears:





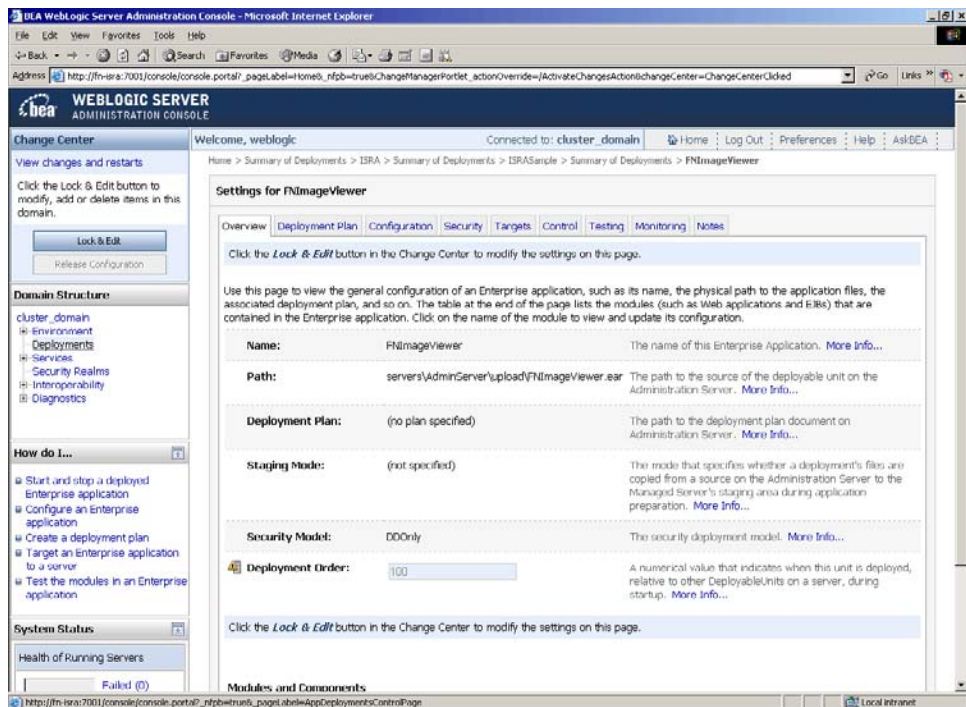
14. Click **Save**. The successful upload confirmation screen appears:



The system returns to the same page with the message: '*Settings updated successfully*' displayed.

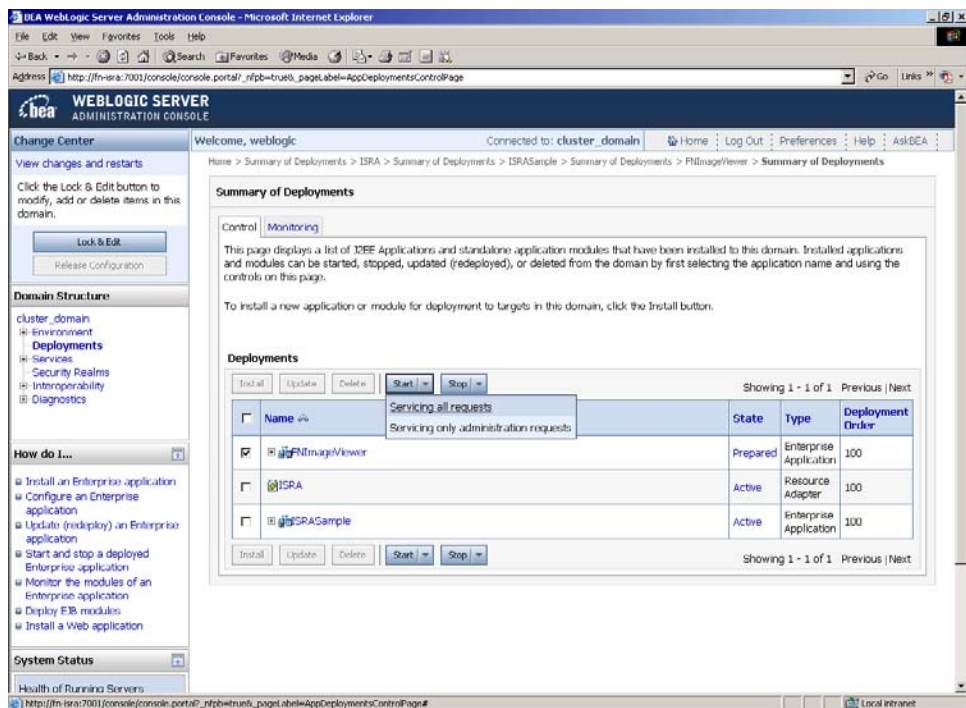
15. Click **Activate Changes** button. The following screen appears:





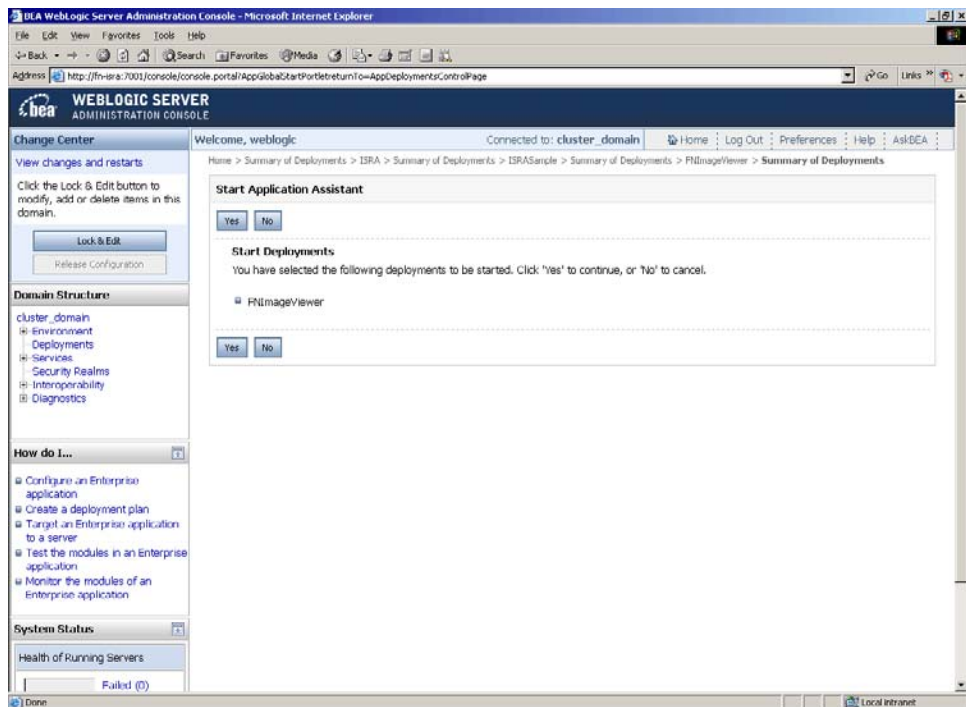
An overview of the deployments made is reflected. The **FNImageViewer.ear** file is successfully deployed.

16. Click **Deployments**. The following screen appears:

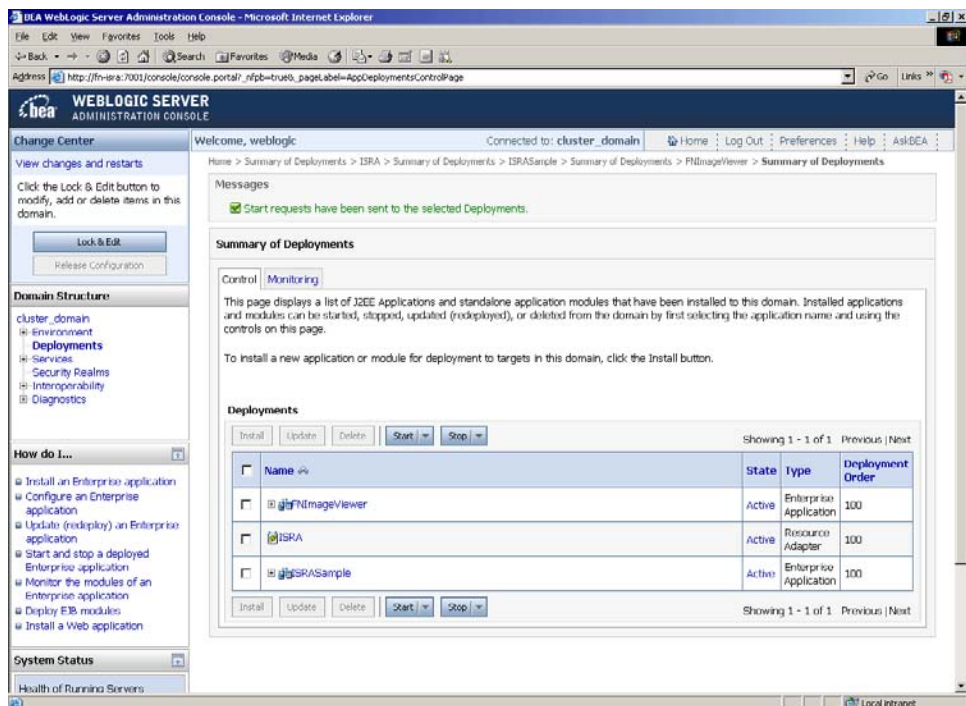


A summary of deployments is reflected on the screen.

17. Select the check box corresponding to **FNImageViewer**, and click **Servicing all requests** from the **Start** drop-down button. The **Start Application Assistant** screen appears:



18. Click **Yes** to start the deployment of the **FNImageViewer.ear** file. The Summary of Deployments screen appears:



The **Status** of the deployed file changes to **Active**. The confirmation message: 'Start requests have been sent to the selected Deployments' is displayed.

## IBM FileNet Image Viewer Quick Start Feature

The Quick Start feature provides a mechanism for initializing a Web browser, Java, and Image Viewer session. The background task required to initialize an Image Viewer session is done at the time when the Web browser is initialized, prior to the time when Image Viewer is actually required. This reduces the startup time of Image Viewer. This feature is supported on various Operating Systems, such as Microsoft Windows 98, NT, 2000 Professional, and XP. The only Web browser supported for this feature is Internet Explorer. The Quick Start feature is not enabled by default; user needs to manually enable it.

### Enabling Quick Start Feature

To enable quick start feature:

1. Extract FNImageViewer.ear from the patch.
2. Check the availability of "quickstart.htm" file in the FNImageViewer.war extracted from FNImageViewer.ear
3. Extract ISRASample.ear from the patch.
4. Extract ISRASampleWEB.war file from ISRASample.ear.
5. Extract 'DisplayDocument.jsp' file from ISRASampleWEB.war.
6. Add the highlighted tag to the file as shown in the code segment below:

```
<APPLET CODEBASE = "/FNImageViewer/FNJavaV1Files" ARCHIVE
="ji.jar"
CODE = "ji.applet.jiApplet.class" NAME = " viewONE" WIDTH =
"100%"
HEIGHT = "97%" HSPACE = 0 VSPACE = 0 ALIGN = middle
MAYSCRIPT="true">
```

-- -- --

```
<%if(RAVersion2.equalsIgnoreCase("Enterprise")){%>
```

-- -- --

```
<param name="UserId" value="<%=userId%>">
<param name="quickstartURL" value="quickstart.htm">
<%/*End of if condition where
RAVersion2.equalsIgnoreCase("Enterprise")*/%>
</Applet>
```

7. Save and close the file.
8. Bundle the new file into ISRASampleWEB.war
9. Bundle the WAR file into ISRASample.ear.
10. Undeploy the old ISRASample.ear
11. Deploy the new ISRASample.ear.
12. Open a document in IBM FileNet Image Viewer.
13. Right-click the document to open the context menu.
14. From the context menu, click Preferences > QuickStart to enable the Quick Start feature. A 'tick' icon appears on the left-hand side of the Quick Start menu indicating that the feature is enabled.

Enabling the Quick Start feature will add an icon within the System tray (bottom right of the Windows Desktop) and a menu item "IBM FileNet JavaView QuickStart for Internet Explorer" under Start > Programs > Startup menu. After enabling Quick Start, if the machine is rebooted, the Quick Start feature remains enabled. Disabling the Quick Start feature will remove the Quick Start icon from the System tray and the menu item "IBM FileNet JavaView QuickStart for Internet Explorer" from the Start > Programs > Startup menu.

## Known Issues in the Quick Start Feature

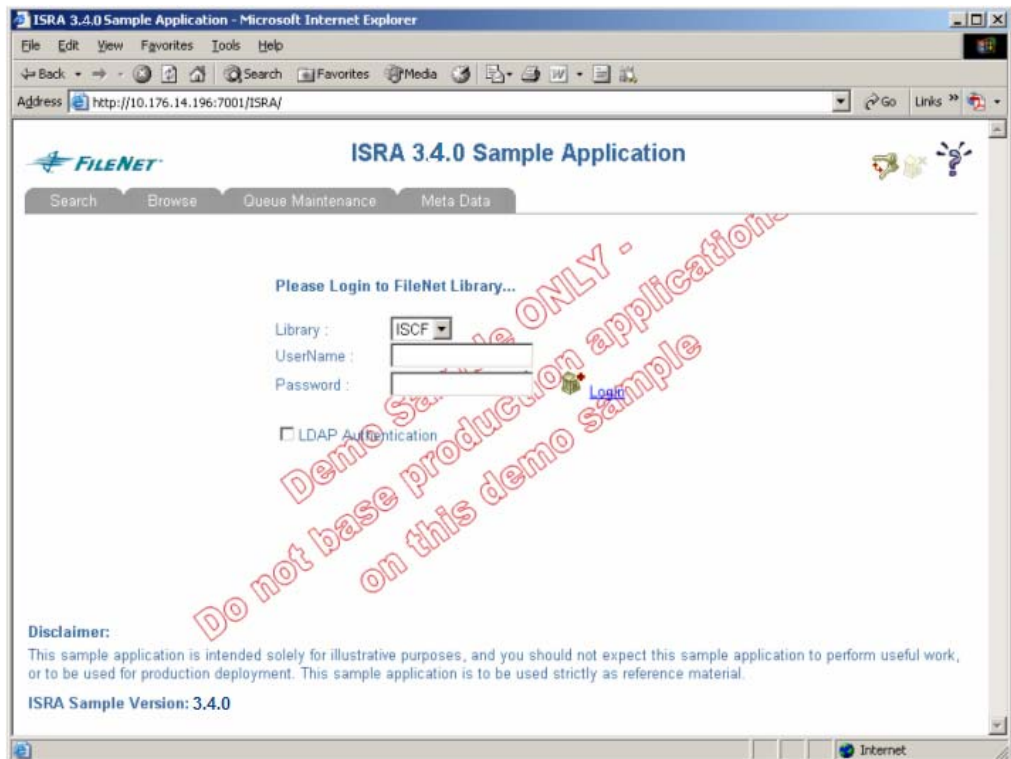
Following are the known issues in IBM FileNet Image Viewer:

- Web session will not end until Quick Start feature is disabled or the user explicitly logs out of the session with the Web server. If the Quick Start feature is enabled, closing the browser window(s) will not terminate the session with the Web server.
- If Quick Start is enabled and Internet Explorer is not the default browser, then on machine re-login or reboot, a message will display asking whether to make Internet Explorer the default browser. To avoid the message:
  1. Open a browser window.
  2. Select **Tools > Internet Options**.
  3. Click **Programs** tab and deselect the check box corresponding to "Internet Explorer should check to see whether it is the default browser".
  4. Click **Apply**.
  5. Click **OK**.
- If Always button is not selected on the security dialog box of Thawte security certificate associated with the Image Viewer, then on machine re-login or reboot, the Thawte security dialog box is displayed.
- QuickStart feature is not available in Image Viewer if web server is accessed using IP address instead of host name in the URL.

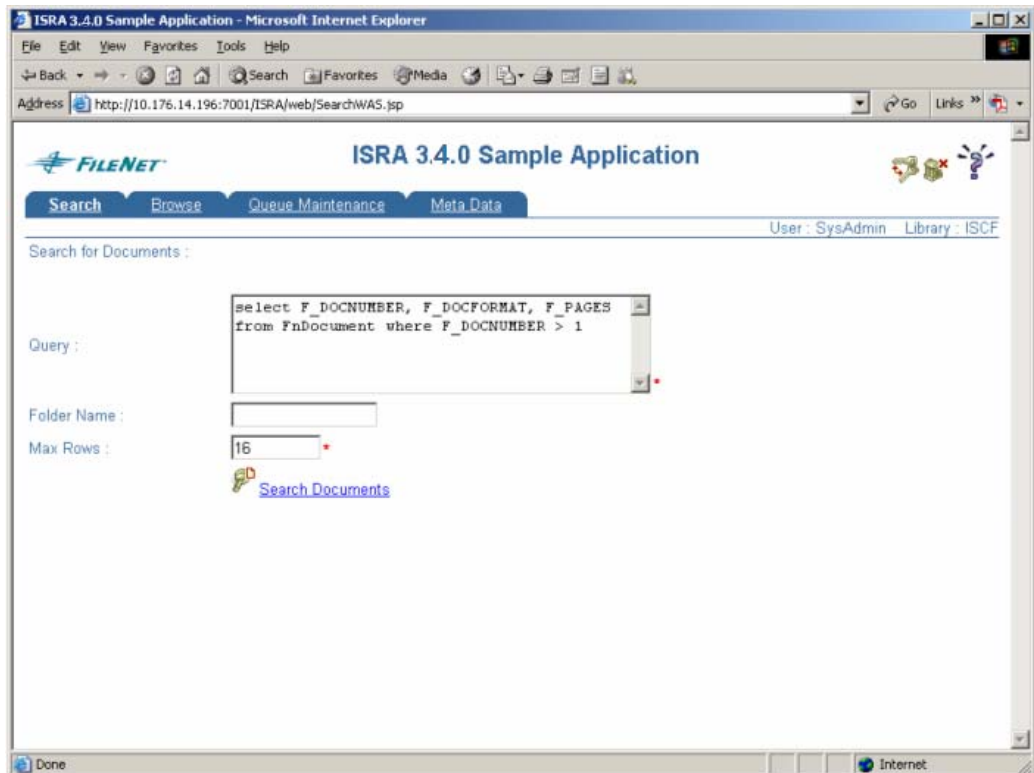
## Testing Sample Application

After the ISRA Sample Application is started, the steps to verify the deployment and access the ISRA Sample Application are:

1. Open a Web browser and enter the URL `http://<server:port>/context_root`.  
The Web application context\_root is case sensitive. On a Weblogic Server, the default port number is 7001. The default context\_root of the Sample Application is ISRA.



2. Enter valid **Username** and **Password** for the configured IS (check configured ConnectionFactory for IS details) and click **Logon**.



3. Click **Help** icon on the Sample Application page for details on the interaction parameters and options.



## LDAP Configuration

In addition to direct IS logging, ISRA 3.4.0 also supports LDAP Authentication by third party Servers.

It is necessary to map users present on the LDAP Server to the IS, before using LDAP Authentication.

---

**Note** The installation of LDAP Server and creation of users on the LDAP machine are out of the scope of this document.

---

IBM FileNet provides two utilities - ldap\_export and ldap\_import, to map existing users on the LDAP Server to the IS. These utilities are part of the IS package and must be executed on the machines running the LDAP Server and the IS.

The ldap\_export utility is used to export usernames on the LDAP Server to an xml file. While, the ldap\_import utility imports usernames that have been mapped to the xml file and creates corresponding users on the IS.

It is mandatory that the ldap\_import algorithm and the xml file be present on the same machines, where IS exists. The ldap\_import algorithm uses a hashing algorithm to generate user passwords for the IS.

## Mapping Existing LDAP Server Users to IS

To configure user IDs in an IBM FileNet IS library:

1. Create user entries on the LDAP server. The user attribute "uid" will be used to create a user on IS. The remaining attributes (including "password") can be assigned any value.
2. Use the **LDAP\_EXP.exe** utility to export the user entries created into an XML file.
3. LDAP\_EXP program has the following parameters options:

Option	Description
s <server>	LDAP server name or IP address required value.
p <port>	LDAP port number, optional value, 389 is default.
d <binddn>	LDAP administrator bind domain name (DN), required value.
w <bindpw>	LDAP administrator bind password, required value.
t <ldap server type>	Required value for server type: msft – Microsoft Active Directory sun – Sun One Directory (iPlanet) nov – Novell eDirectory(NDS).

Option	Description
	ibm – IBM Directory.
b <basedn>	LDAP Base DN, optional value.
g <grouplist filename>	Group list file for input, optional value.
o <XML output filename>	XML output filename, optional value.
l <log filename>	Log Filename to use, optional value.
i	Check for special characters on <id> tags only
e	Remove all escape characters – '\.
k	Use paged results. Windows to AD only
z	Use secure socket connection
x <grouplist filename>	Group list file name for output, optional value.
v	Verbose log output.
c1 <user object class>	Class type for User, default is 'person'.
c2 <group object class>	Class type for Group, default is 'groupofuniquenames'.
a1 <user attribute>	Attribute to be used for user; default is 'dn'.
a2 <group attribute>	Attribute to be used for group; default is 'dn'
a3 <member attribute>	Attribute to be used for member; default is 'uniqueMember'.

---

**Note** User may use /?, -?, /h or -h to generate help.

---

Example command lines:

- **Sun One directory (iPlanet) server:**

```
ldap_exp -s SunSrvr1 -d "cn=Directory Manager" -w
":/, .++=" -t sun -b "dc=iPlanet, dc=com"
```

- **Microsoft Active Directory (AD) server:**

```
ldap_exp -s Win2KSrvr1 -d
"CN=Administrator,CN=Users,DC=win2ksrvr1,DC=com" -w
":/, .++=" -t msft -b "dc=win2ksrvr1,dc=com"
```

- **Novell eDirectory(NDS) server:**

```
ldap_exp.exe -s NovSrvr1 -d "cn=Admin, o=server" -w
":/, .++=" -t nov -b "o=wa"
```

- **IBM Directory server:**

```
ldap_exp -s IBMSrvr1 -d "Cn=Administrator" -w "":/, .++="
-t
ibm -b "dc=ibmsrvr1, dc=com"
```

4. Use the **LDAP\_IMPORT.exe** for IS libraries to import the user entries from XML file into the specified IBM FileNet IS library.

Parameters:

<i>/?</i>	Help screen
/h<host>[:organization]	IS host or domain name, organization.
/u<id> (used with /p)	Authorized IS user name
/p"<pwd>" (used with /u)	Encrypted IS user password.
/i<file>	XML input file.

For example, to import user entries from XML file:

```
C:\>ldap_import /hIMGSESV:FileNet /ildap_exp.xml
```

---

**Note** Options are NOT case sensitive. All the information or error messages are logged to the system log or the file 'ldap\_importyyyyymmddlog.txt'. If Username and password are not specified in the command, it prompts for username and password.

---

5. The IBM FileNet users created will have a password generated from the corresponding user IDs.

## Changing ISRA Specific Parameters for LDAP

The configurable properties to be set (modified) in **ra.xml** are:

- LdapImplClassName
- LdapImplClassString
- InherentLogin

Refer to [LdapImplClassName](#), [LdapImplClassString](#), and [InherentLogin](#), in section [Configurable ra.xml Entities](#) for details on the configuration of the respective entities.

## Configuring Performance Statistics from ISRA

User can execute an EnablePerformanceLogging interaction to enable or disable the logging of performance statistics of each ISRA interaction. To enable this, configure JMS server, connection factory and JMS queue. The current value of EnablePerformanceLogging interaction will be updated in the file name mentioned by the user while deploying ISRA.

Enabling the performance logging statistics will send the messages to JMS queue, else these messages will not be logged in the JMS queue.

To configure the performance statistics, perform the following:

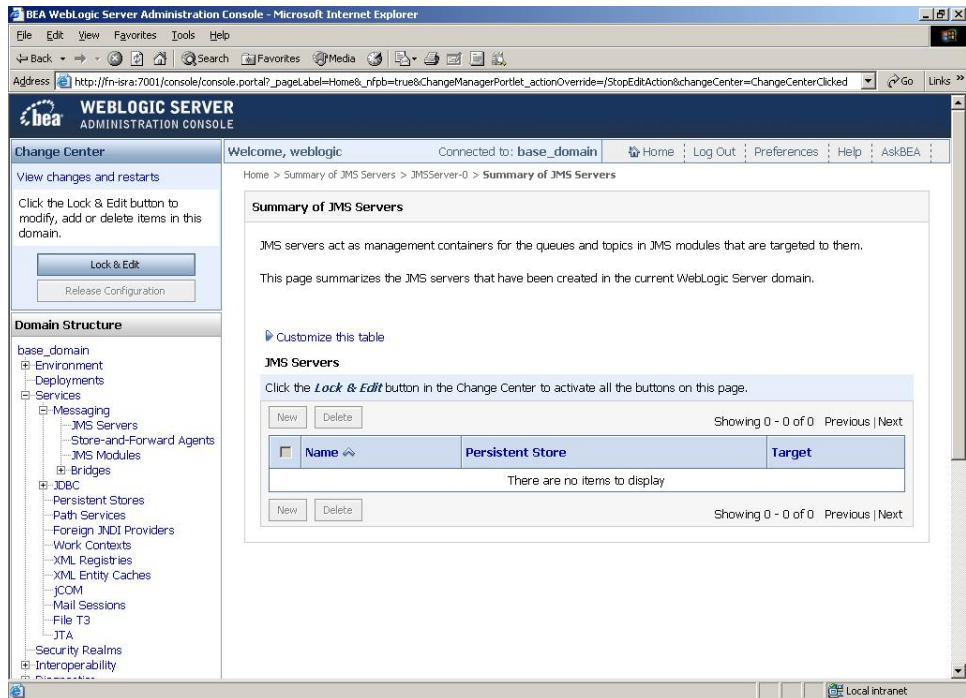
1. Configure a new JMS server
2. Configure a JMS queue
3. Configure JMS connection factory

These are explained in detail in the following sections.

### Configuring JMS Server

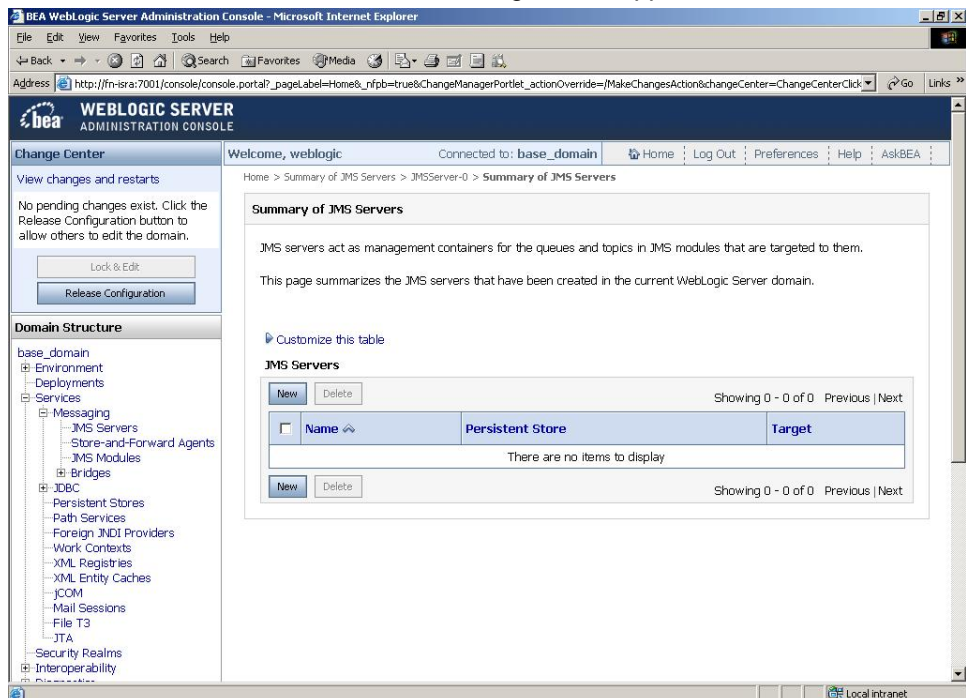
To configure a JMS server:

1. On the left pane of the WebLogic 9.x console, click **Services > Messaging > JMS Servers**. The following screen appears:



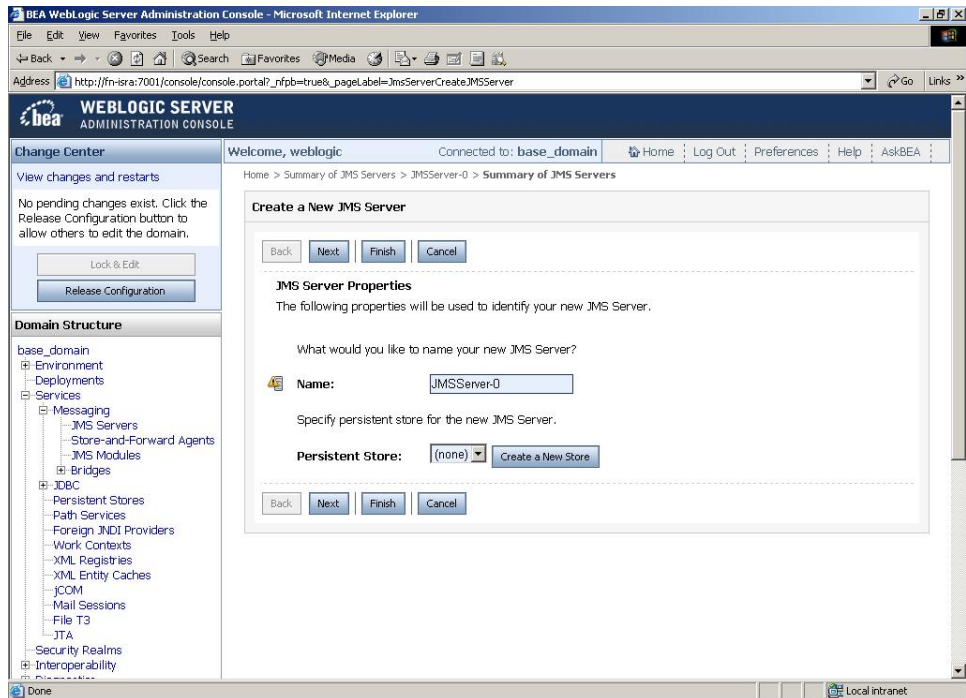
**Note** User may also use an existing JMS server.

2. Click **Lock & Edit** Button. The following screen appears:

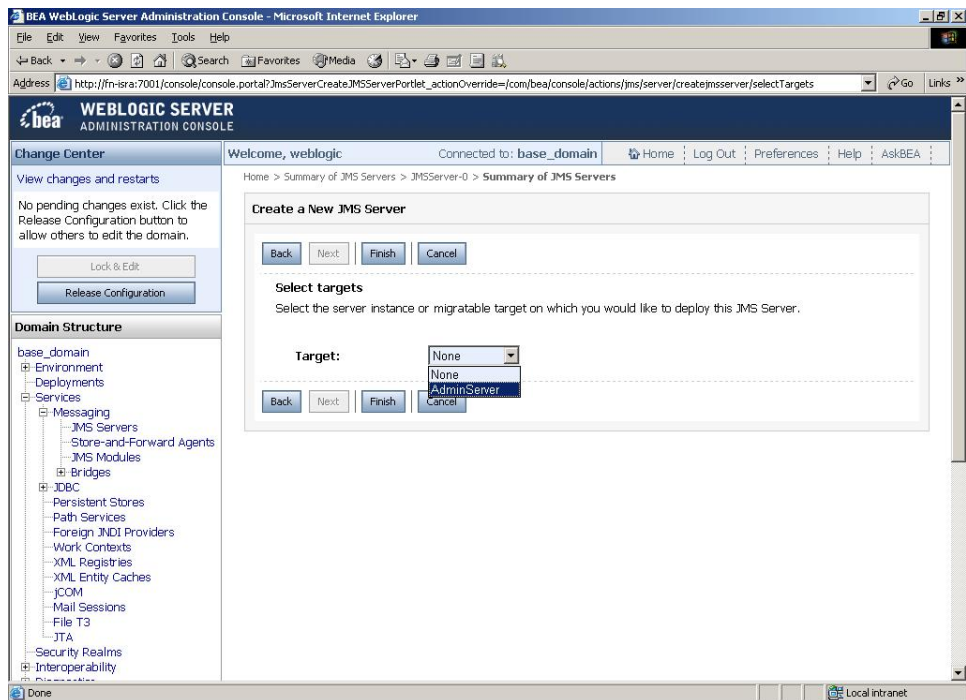


3. Click **New** Button. The following screen appears:

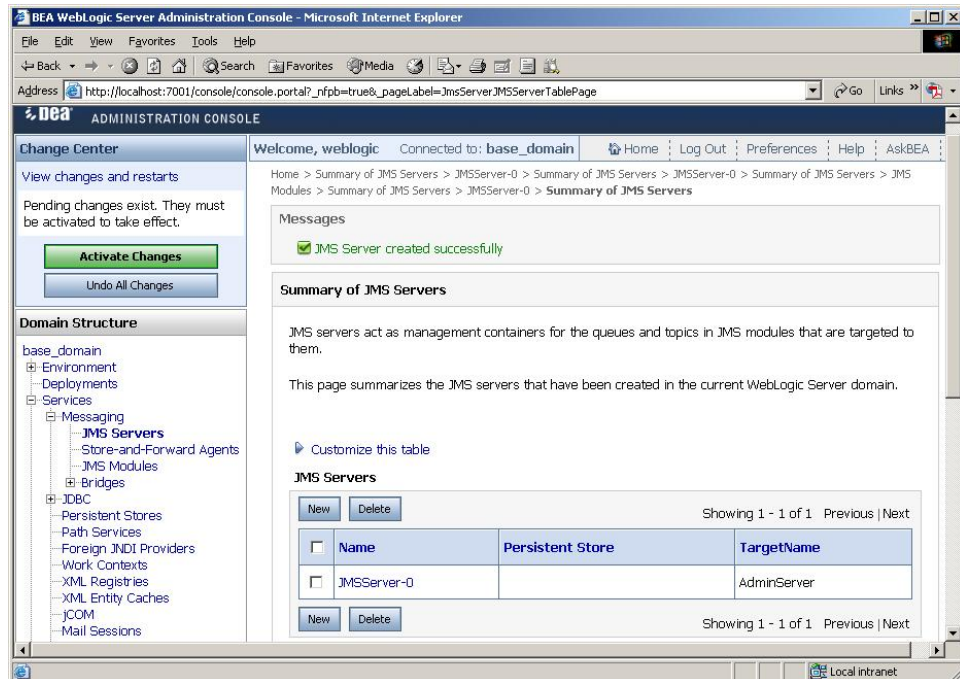




4. Click **Next** (user can enter a name other than default). The following screen appears:



5. Select the target server from the drop down list and click **Finish**. The following screen appears:

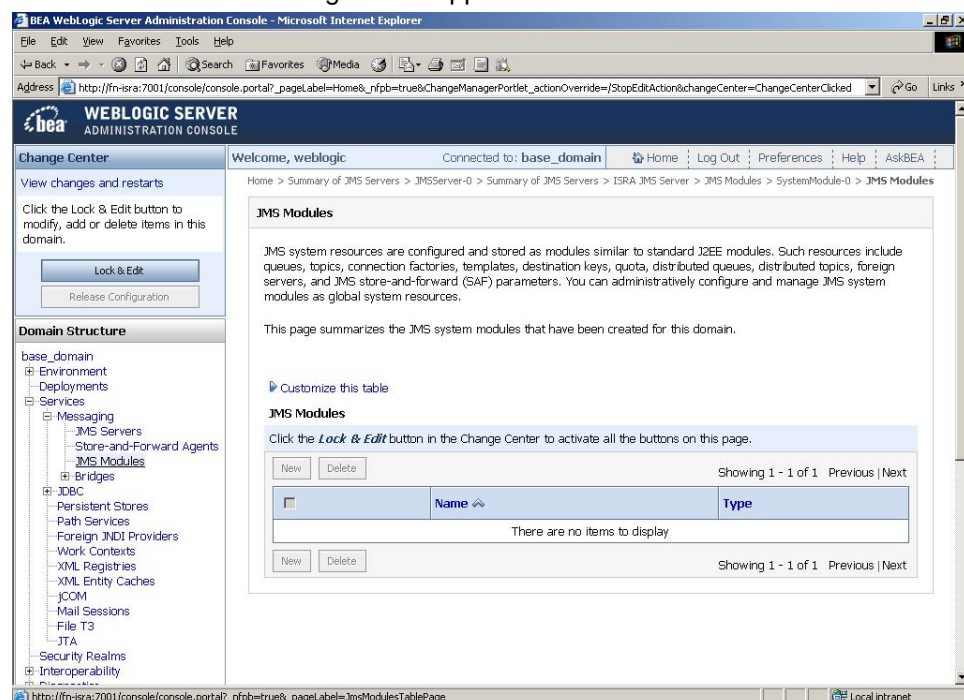


6. Click **Activate Changes**. An overview of created JMS Server is reflected.

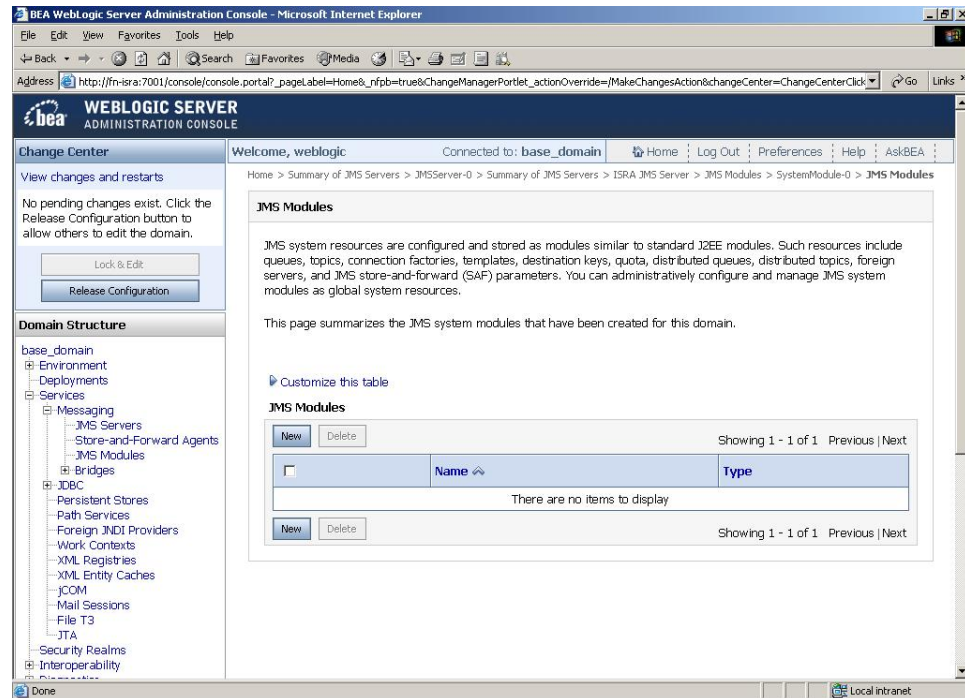
## Configure a JMS Queue

JMS resources, such as, queues, connection factories, templates, destination keys and distributed queues are configured and stored as modules similar to J2EE modules. To configure a JMS queue:

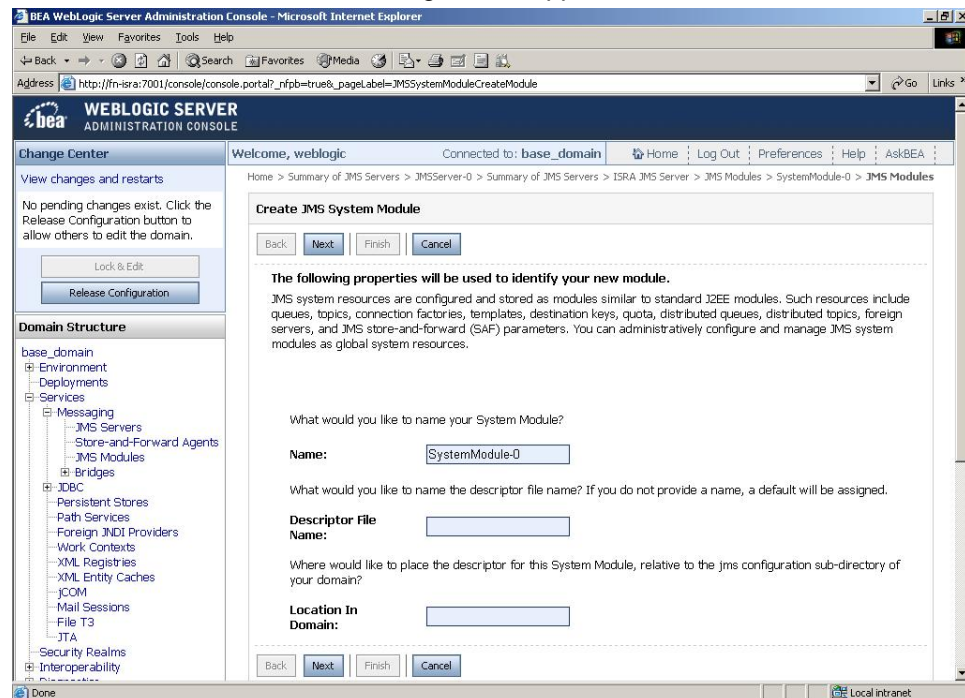
1. On the WebLogic 9.x console, navigate to **Services > Messaging > JMS Modules**. The following screen appears:



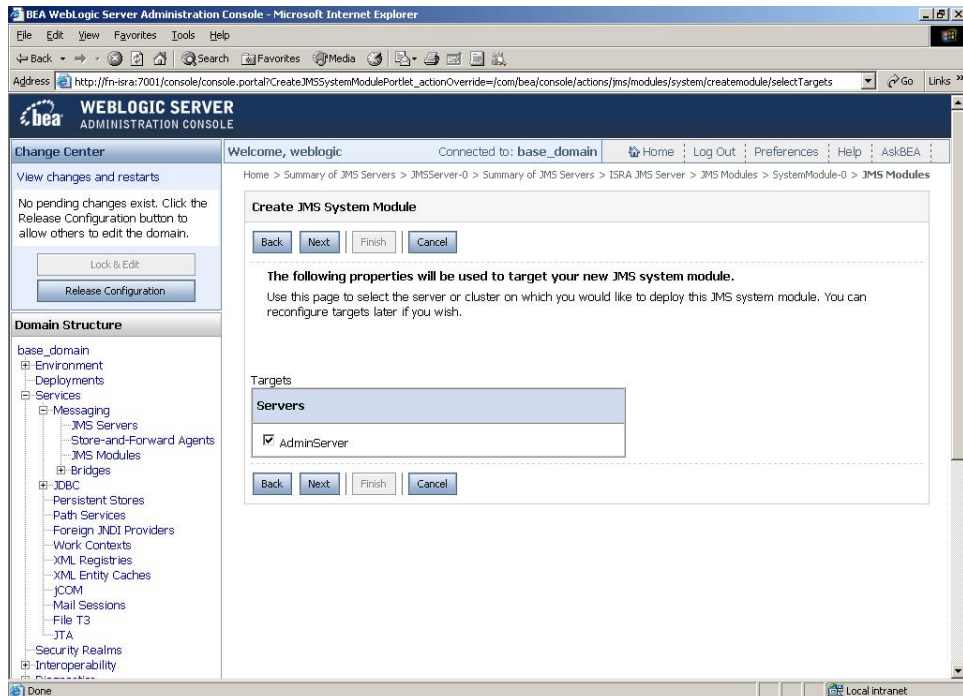
2. Click **Lock & Edit Button**. The following screen appears:



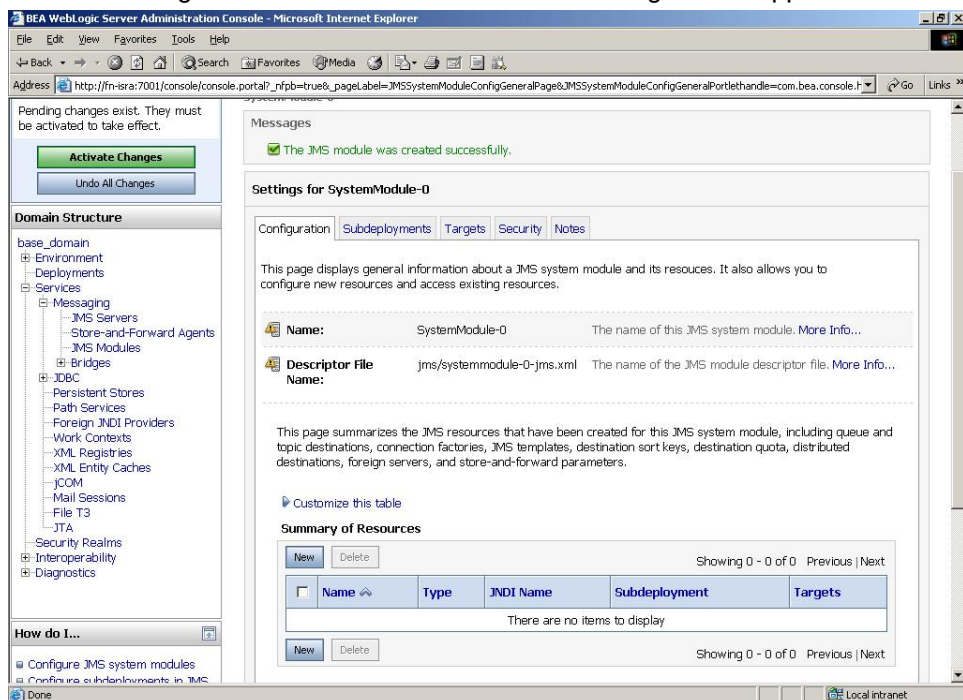
3. Click **New Button**. The following screen appears:



4. Click **Next** (User can enter the name of System Module, other than default). The following screen appears:

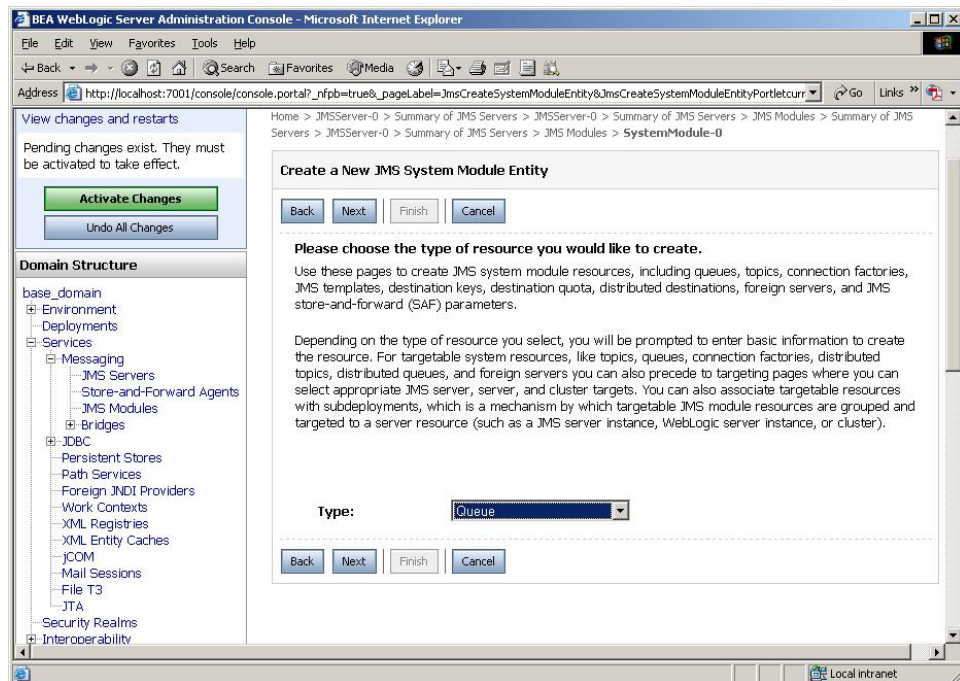


5. Select Target Servers and click **Next**. The following screen appears:

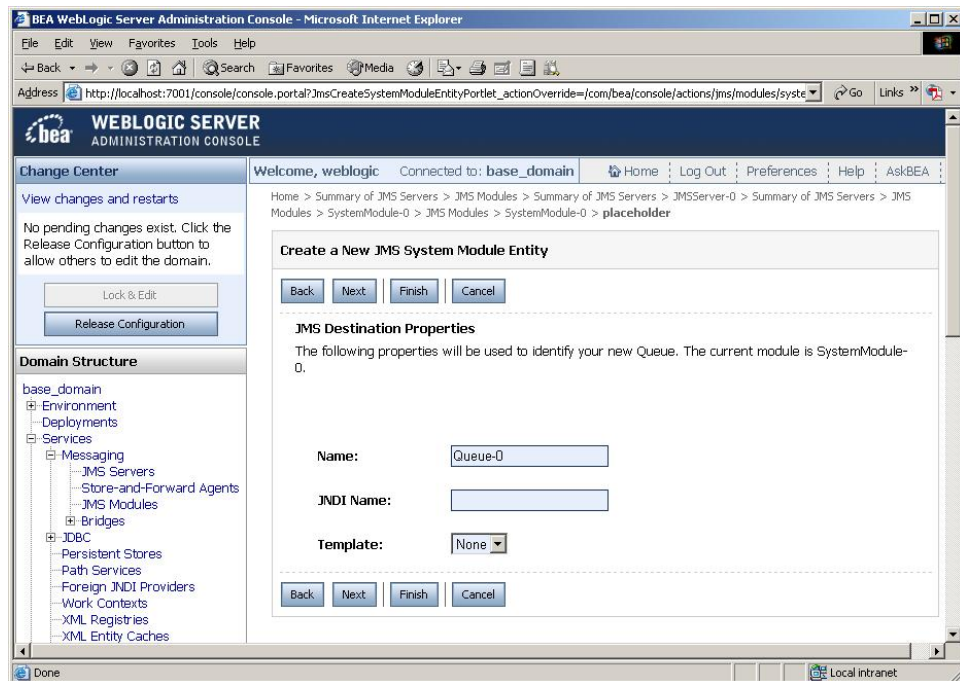


6. Click **New** for creating Queue. The following screen appears:



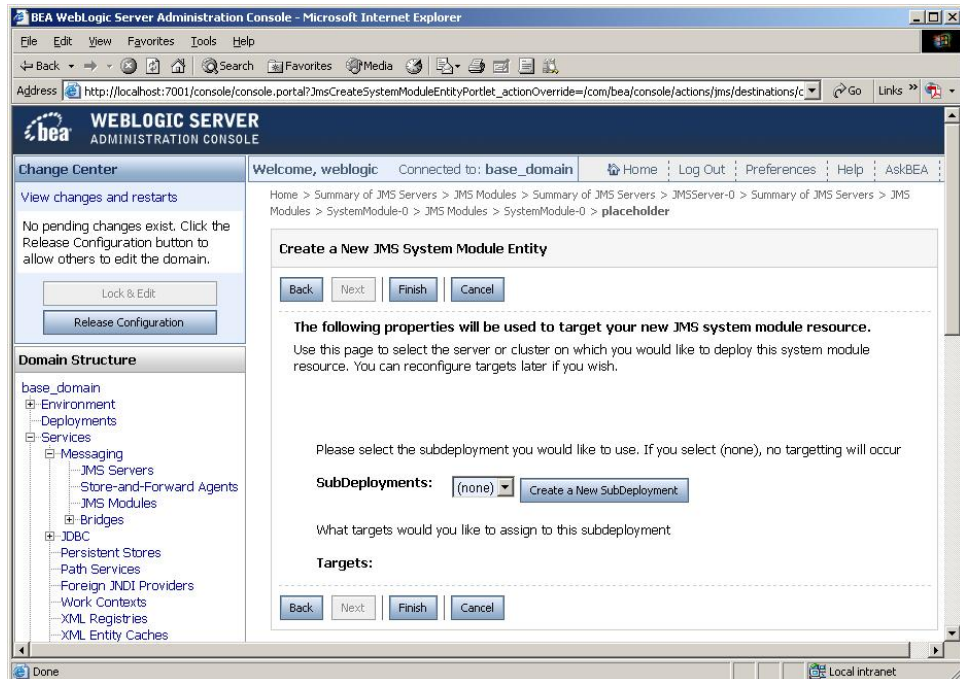


7. Select **Queue** from the drop down list and click **Next**. The following screen appears:



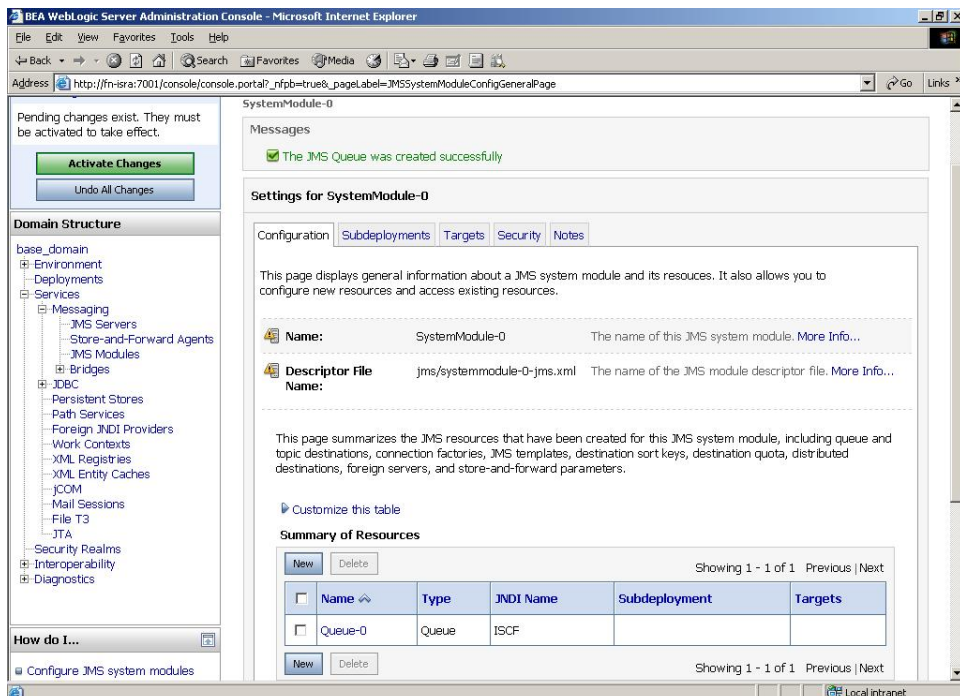
8. Enter the **JNDI Name** of the JMS queue and click **Next**. The following screen appears:





**Note** The JNDI name of the queue must be the same (also case-sensitive) as in the deployment descriptor (**ra.xml** file).

9. Click **Finish** The following screen appears:

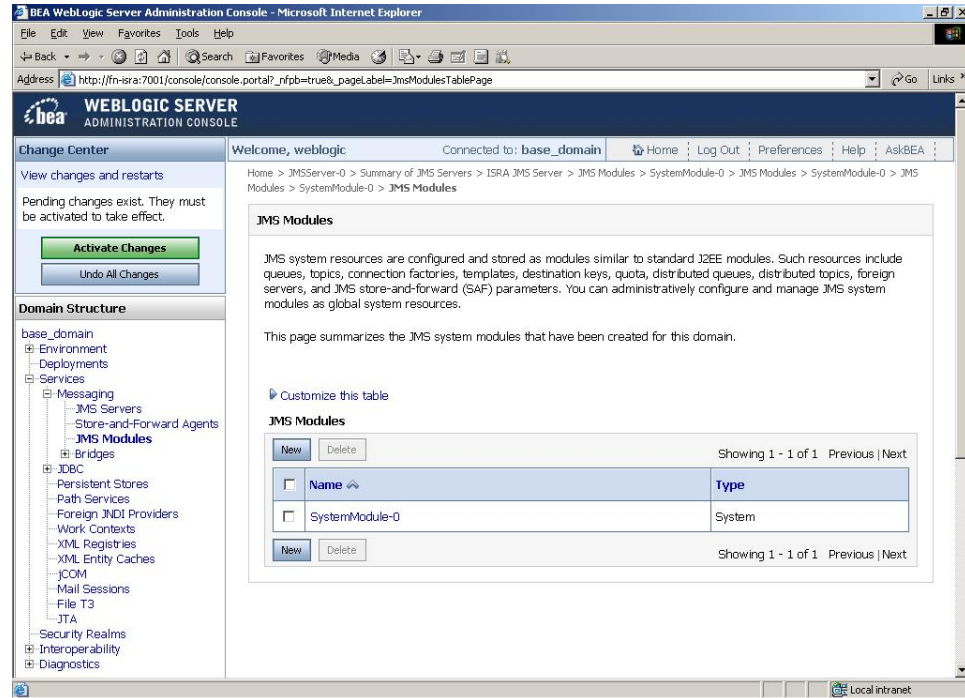


10. Click **Activate Changes**. An overview of the settings is reflected.

# Configure JMS Connection Factory

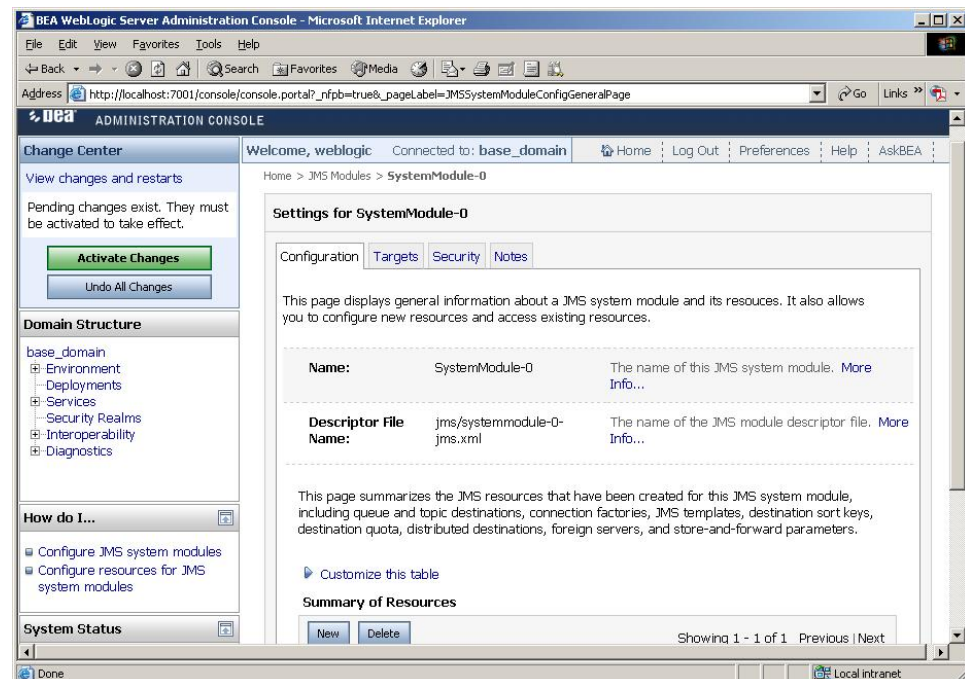
To configure the JMS connection factory:

1. On the WebLogic 9.x console, navigate to **Services > Messaging > JMS Modules**. The following screen appears:

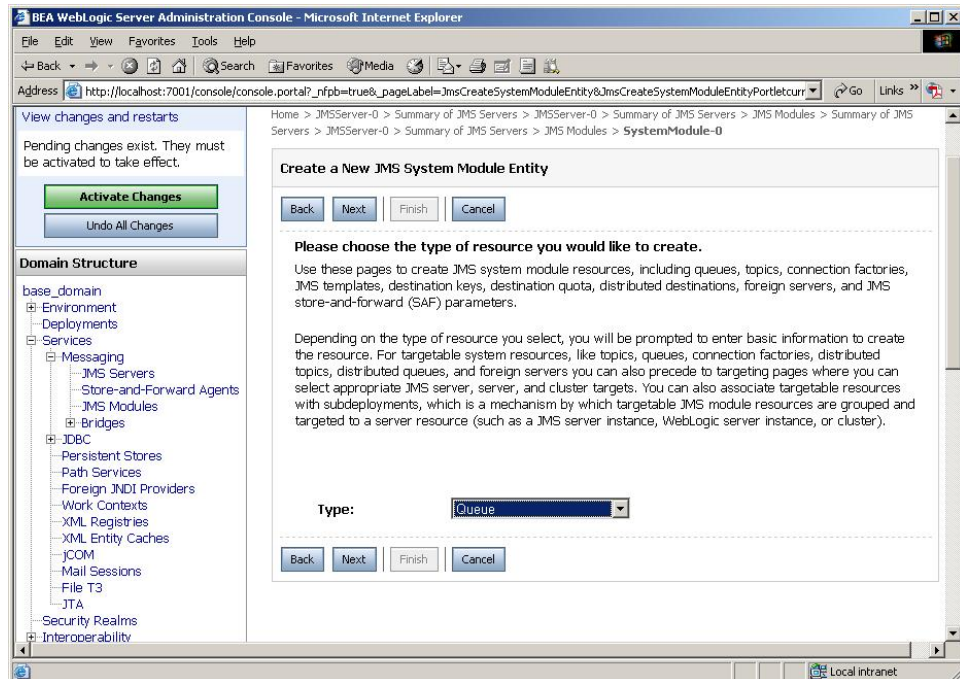


**Note** The user can also use an existing connection factory.

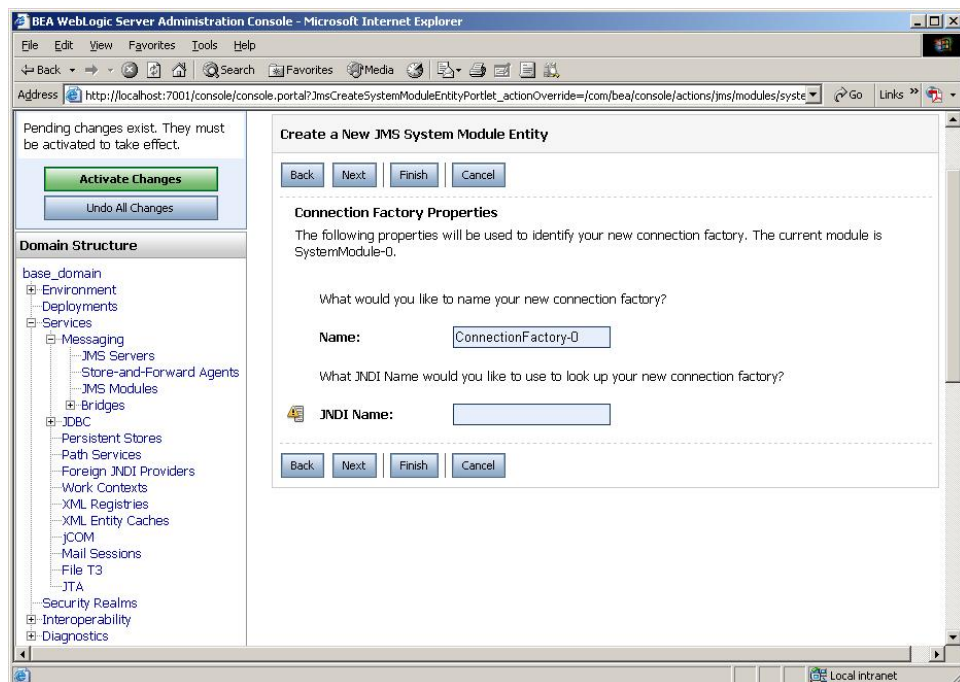
2. Click on the configured system module. The following screen appears:



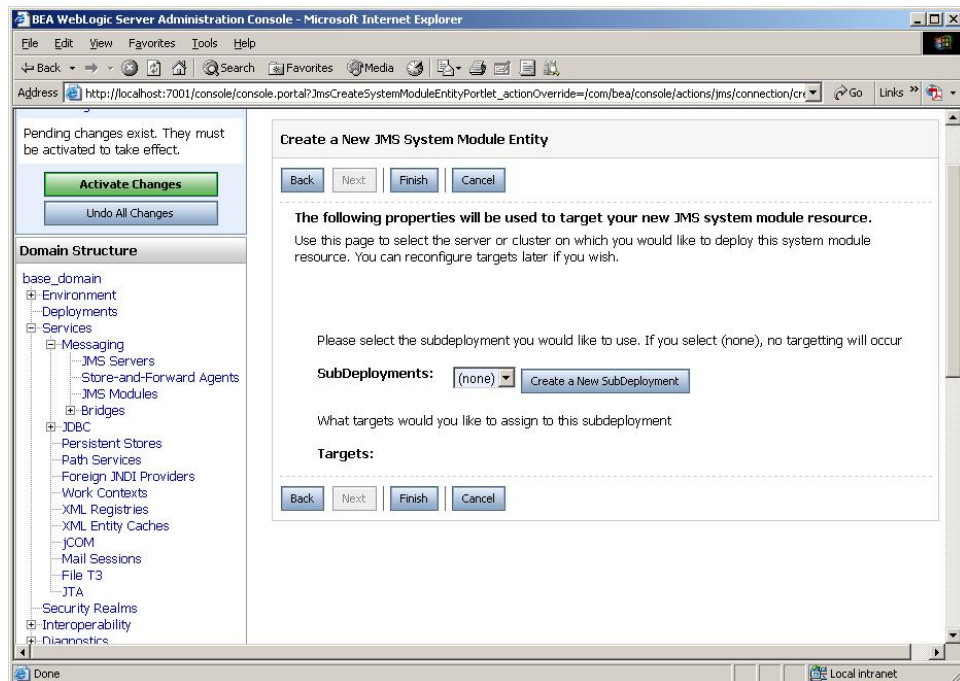
3. Click **New Button** for creating JMS Connection Factory. The following screen appears:



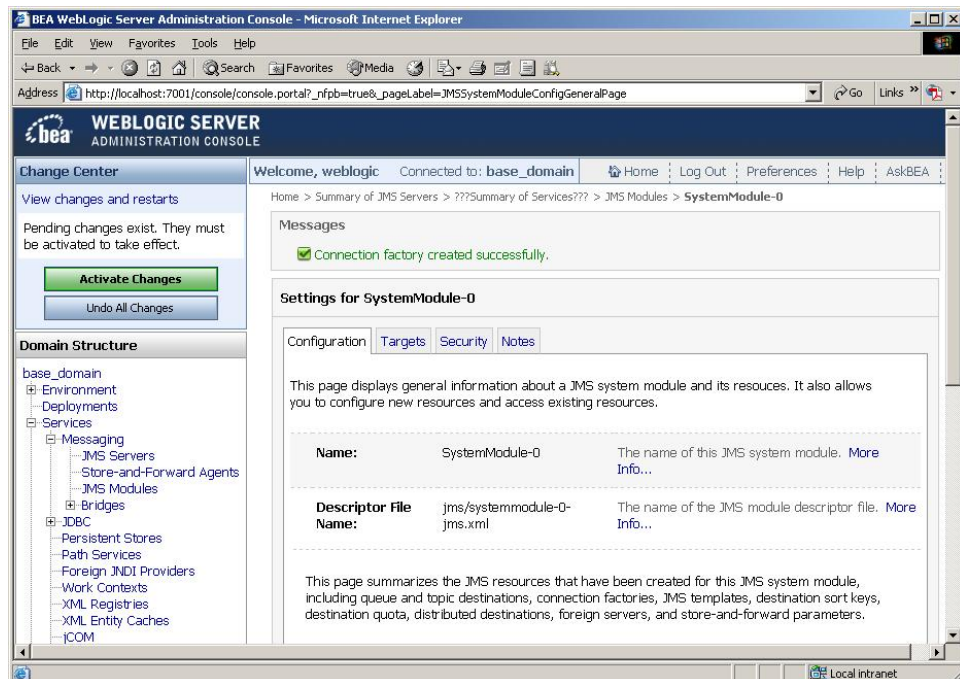
4. Select radio button corresponding to **Connection Factory** and click **Next**. The following screen appears:



5. Enter the Connection factory name (User can enter the name, other than default). The JNDI name of the connection factory must be the same (also case-sensitive) as mentioned in the **ra.xml** file. Click **Next**. The following screen appears:



6. Click **Finish**. The following screen appears:



7. Click **Activate Changes**. An overview of the settings is reflected.

## Configuring ISRA Parameters for Performance Statistics

The following parameters must be configured in **ra.xml** if user wants to configure EnablePerformanceLogging:

- **JmsConnectionFactory**

It is the name of the connection factory configured on the JMS server. The default value is 'ConnectionFactory'.

- **JmsQueueName**

It is the name of the queue configured on the JMS server. The default value is 'testQueue'.

- **PortNumber**

It is the port number on which the WebLogic server is running. The default value is 7001.

- **MachineName**

This is the machine name on which the WebLogic server is running. The default value is 'local host'.

- **AppServerInitialContext**

It is the name of the initial context class for WebLogic server. The default value is 'Weblogic.jndi.WLInitialContextFactory'.

- **EnableLoggingFileName**

This is the name of the file where the current value of PerformanceLogging will be updated. The default value is 'enableJMS\_ISCF.properties'.

---

**Note** This file must be a properties file.

---



## Undeployment

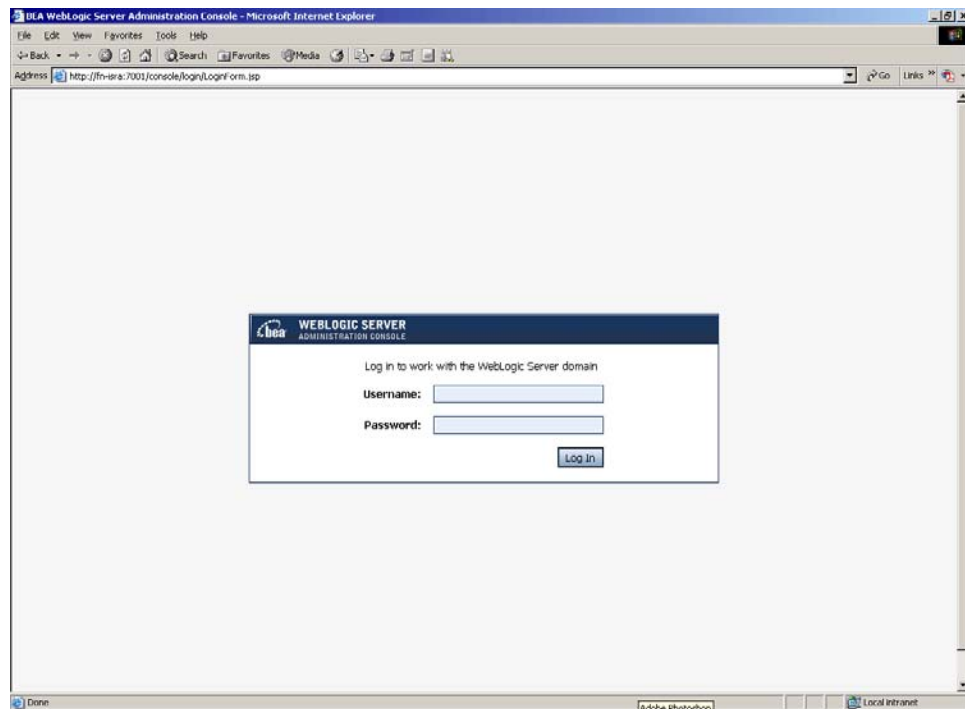
This section describes undeployment procedure to remove the ISRA and the Sample Application from the WebLogic Server.

### Undeploying ISRA

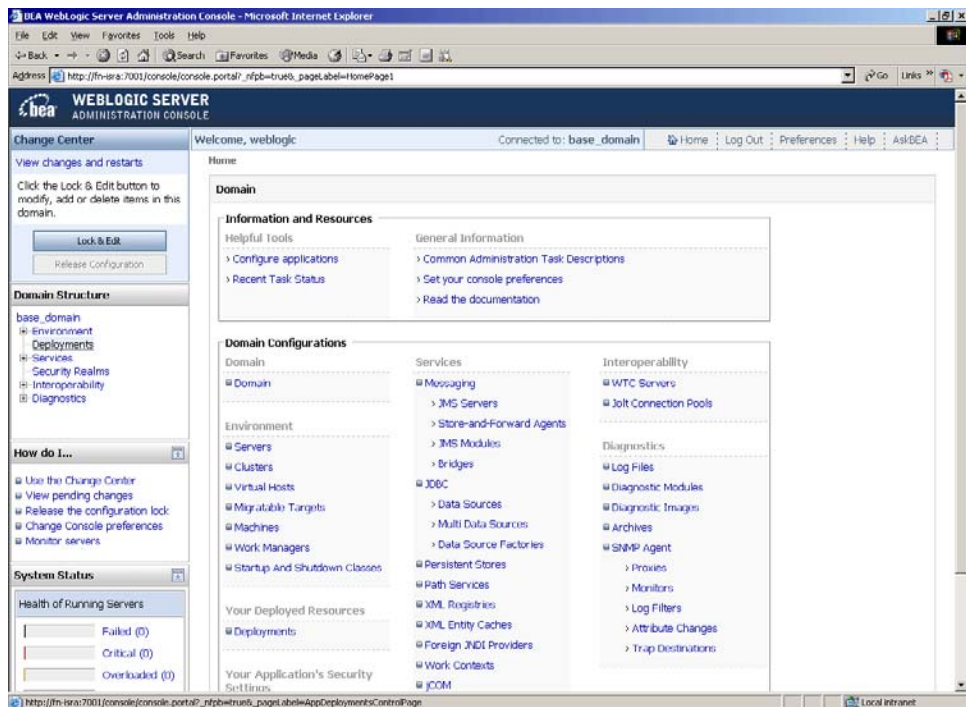
To undeploy ISRA ensure that WebLogic admin server is running. If it is not, start the WebLogic Administration Server as explained in the [Deploying ISRA](#) section.

The steps to undeploy ISRA using the Administration Console are:

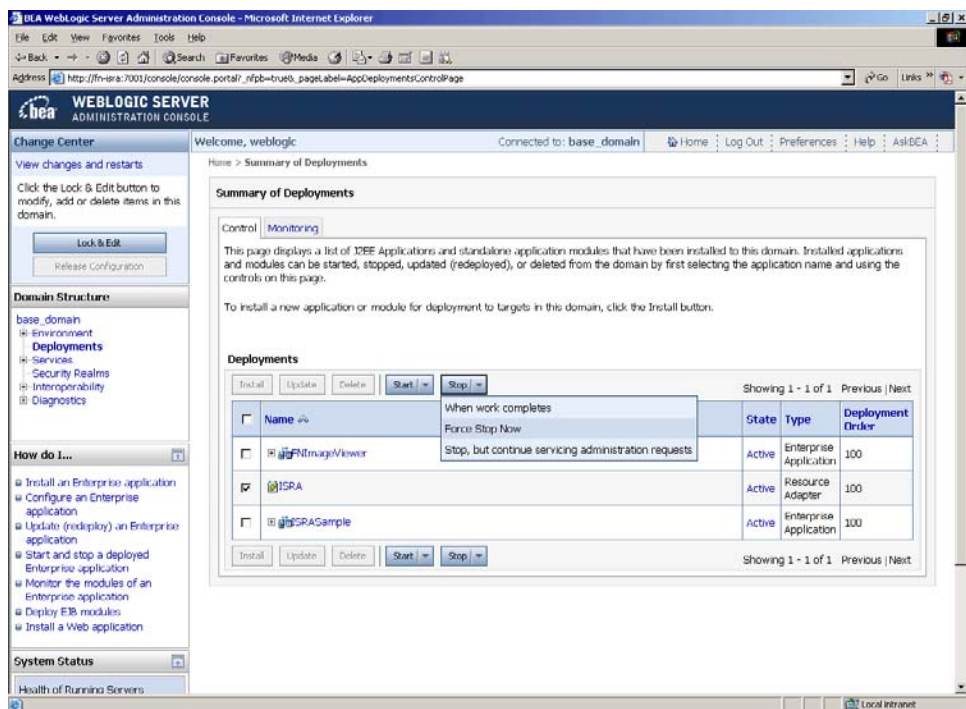
1. To start the administrative console, enter the following URL in the Web browser `http://hostname:portnumber/console`. The WebLogic admin console sign on screen appears, as shown below:



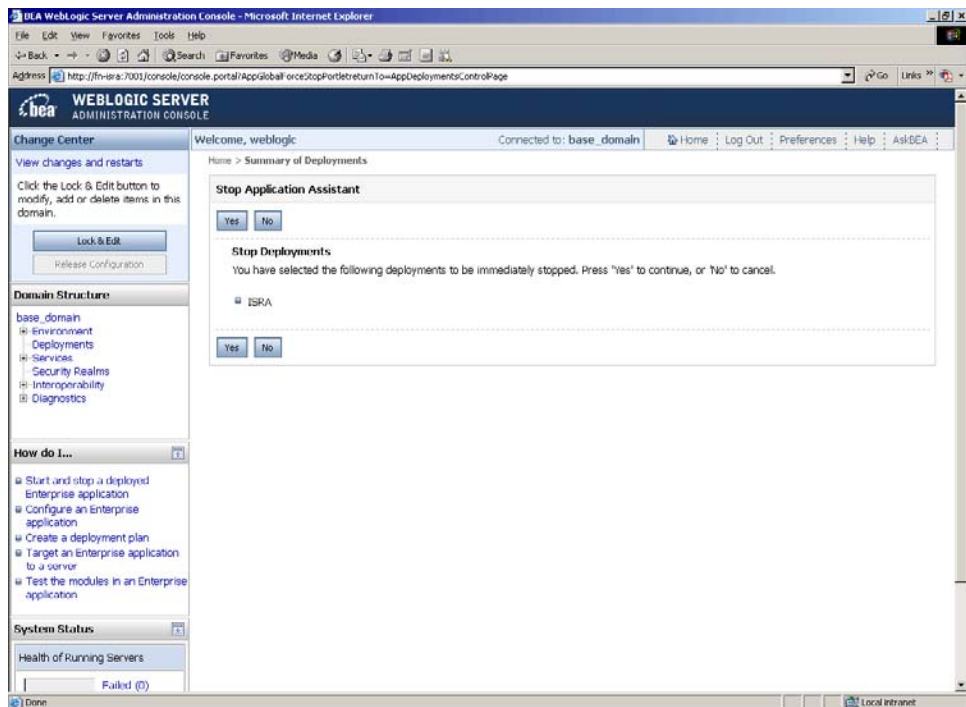
2. Enter **Username** and **Password**. Click **Sign In** to access the WebLogic admin console. The following screen appears:



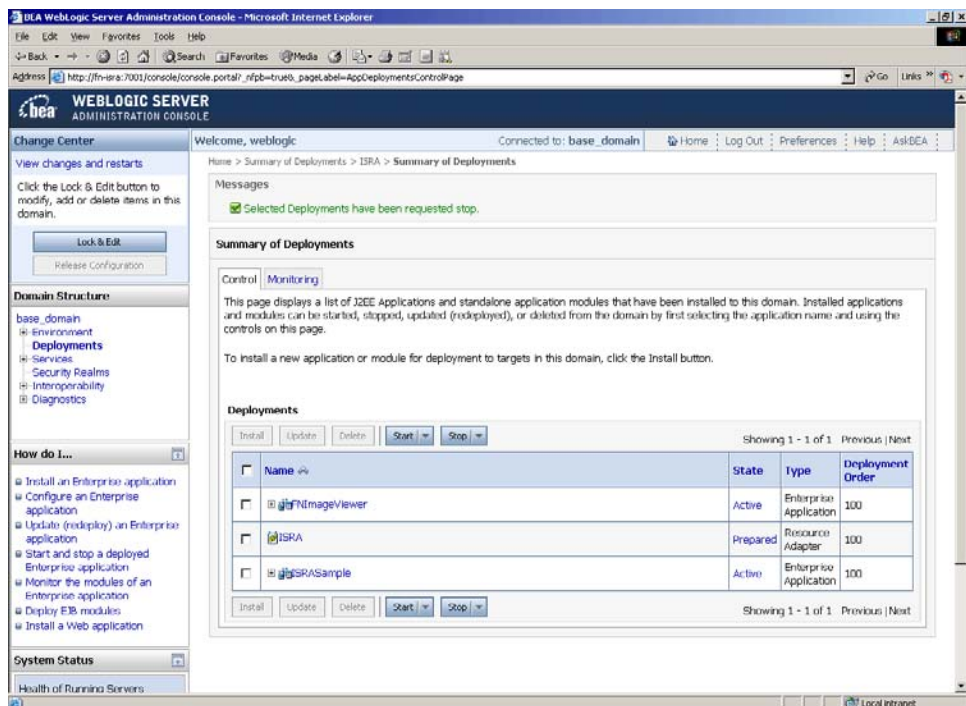
3. Click **Deployments**. The following screen appears:



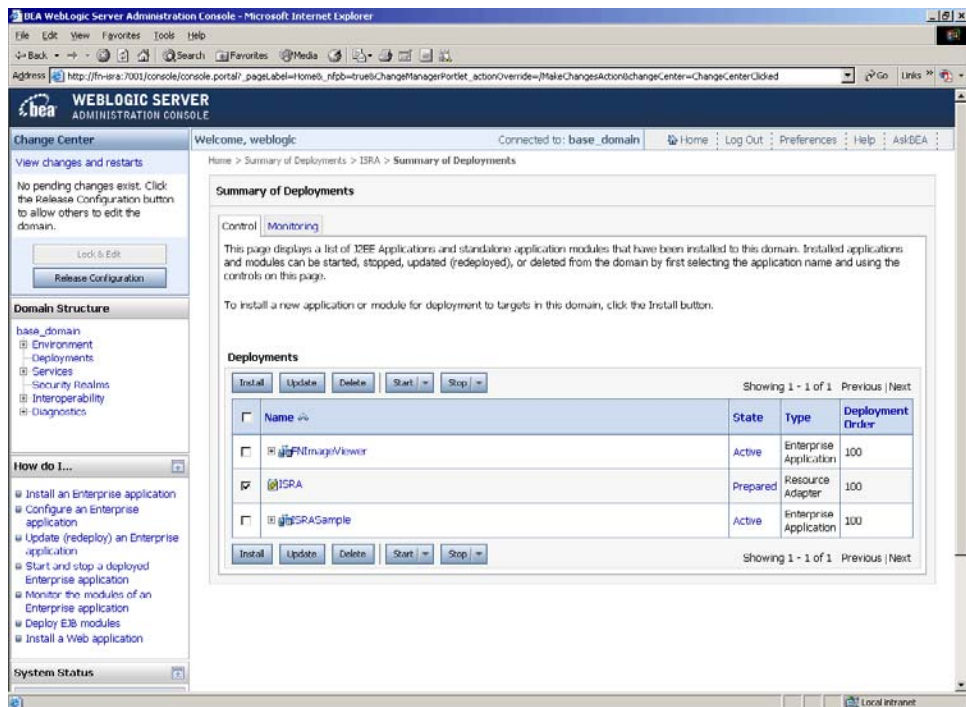
4. Select the check box corresponding to the name of the file to be undeployed, and click **Force stop now** from the **Stop** drop-down button. For example: in the above screenshot, **ISRA** is selected. The following screen appears:



5. Click **Yes** to stop the application. The **Summary of Deployments** screen appears:

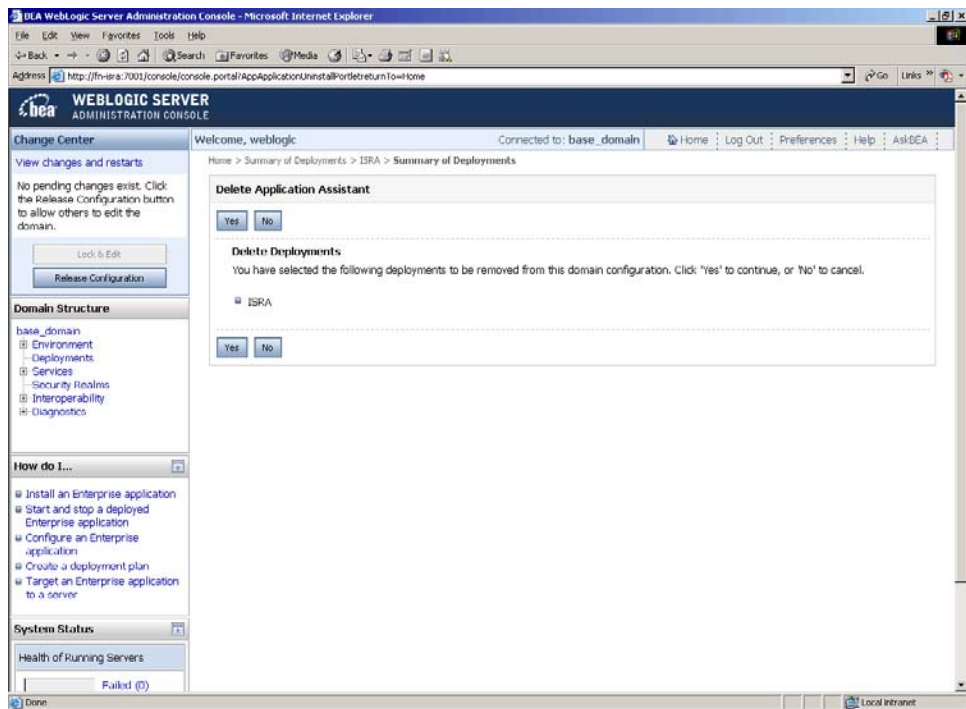


6. Click **Lock and Edit** button to make the console editable. The following screen appears:

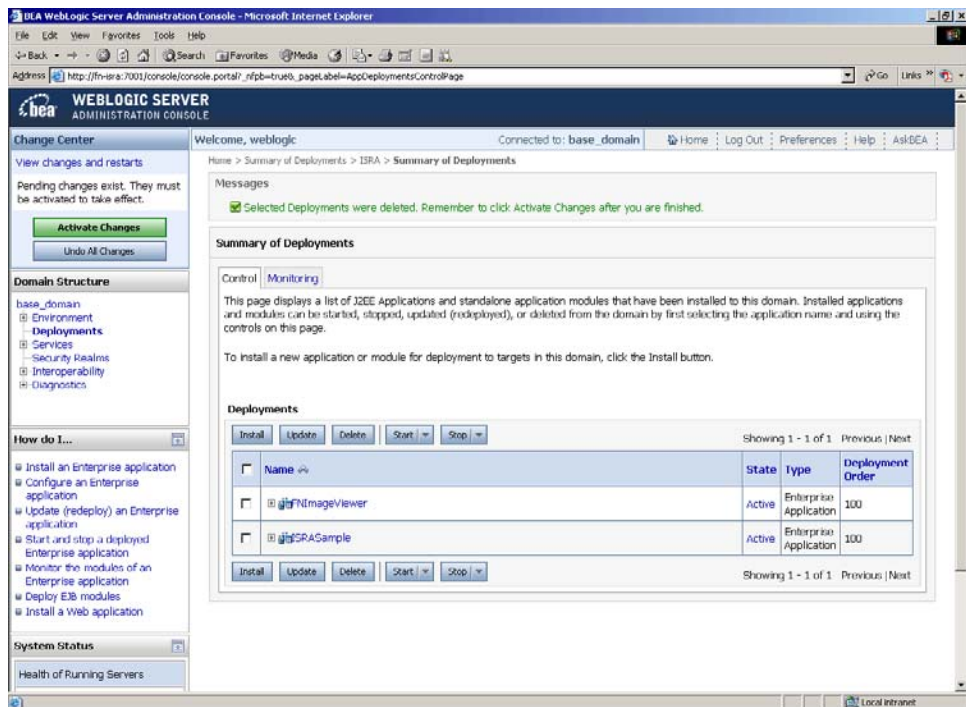


The **Release Configuration** button, along with the buttons under **Deployment** section is enabled.

- Under **Deployments**, select the same file as in step 4, and click **Delete** button. The **Install Application Assistant** screen appears:

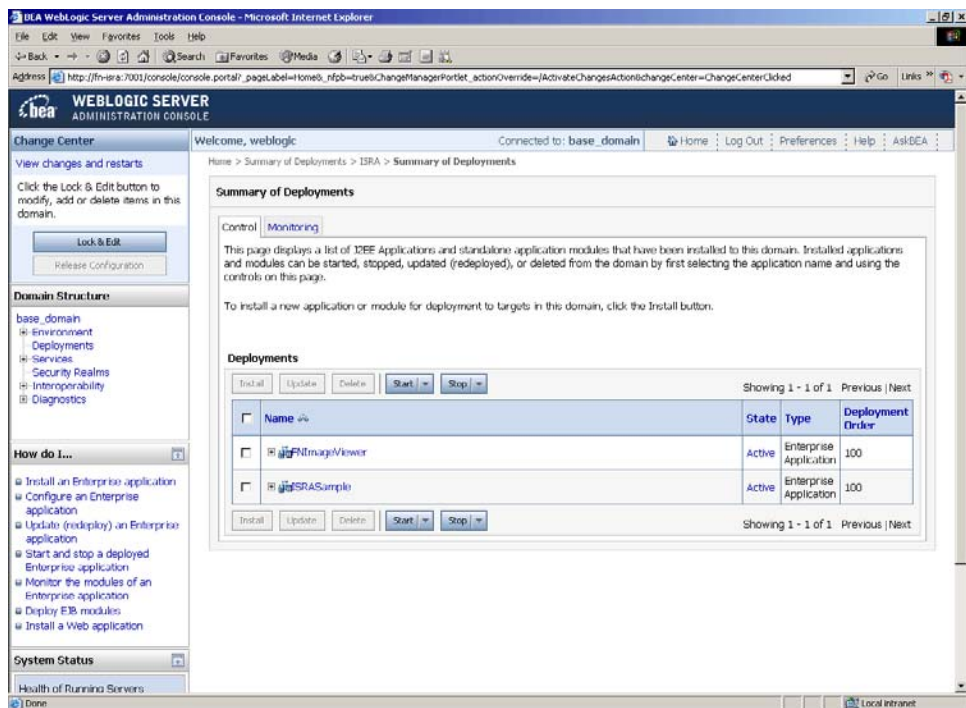


- Click **Yes**. The following screen appears:



The message: 'Selected Deployments were deleted. Remember to click Activate Changes after you are finished' is displayed.

9. Click **Activate Changes** button. The following screen appears:



The system returns to the Deployment page, showing ISRA is undeployed.

**Note** The steps to undeploy the ISRA in clustered environment are same as the above steps.



## Undeploying Sample Application

The procedure of undeploying Sample Application is same as Undeploying ISRA. Refer to [Undeploying ISRA](#) section for the details.

Ensure that WebLogic Administration server is running, else start the WebLogic Administration Server as explained in the [Deploying ISRA](#) section.

## Undeploying IBM FileNet Image Viewer

The procedure of undeploying IBM FileNet Image Viewer is same as Undeploying ISRA. Refer to [Undeploying ISRA](#) section for the details.

Ensure that WebLogic Administration server is running; else start the WebLogic Administration Server as explained in the [Deploying ISRA](#) section.

---

**Note** The user must undeploy the previous version of IBM FileNet Image Viewer before deploying the latest version.

---

## Troubleshooting

This section describes how to troubleshoot ISRA.

### Disabling NCH Broadcasts

ISRA users (application client) need to access IS libraries across routers on networks where broadcasts are disabled. This is done by creating alias entries for the IS libraries in the hosts file, where ISRA is deployed. ISRA must locate the IP address of the NCH server to find other IS services for an IS setup.

ISRA attempts to find the NCH server by generating broadcast packets, even if the NCH server was not reachable using broadcasts. User can disable NCH server location broadcasts to reduce broadcast traffic on the network.

User may want to disable NCH broadcasts, if:

- Routers are present between servers;
- Want no broadcast activity on the networks;
- Want to force a multi-homed server to use a specific IP address configured by the operating system network directory search facility.

To specify the alias in the hosts file:

1. Locate **hosts file** on the server. It is located in the `/etc` folder on UNIX systems. On a Microsoft Windows Server, it is located in the `\system32\drivers\etc` under the Windows installation directory.
2. Open the hosts file with a text editor. If the hosts file does not exist, create a new file.
3. For each IBM FileNet library that user needs to connect through ISRA, entries should be made in the hosts file as `<IP address of domain:organization> <domain-organization>-nch-server`, where:
  - `<IP address of domain:organization>` is IP address of an IBM FileNet domain and organization identifying the target IBM FileNet library system (NCH Server).
  - `<domain-organization>` is domain and organization name. The rules to follow while specifying the domain-organization name are:
    - Delete all characters except ASCII alphanumeric characters and hyphens.
    - Convert all upper case characters to lower case.
    - Insert a hyphen between the domain and organization names.
    - Append `nch-server` as a literal.

For example, if an IBM FileNet library has a domain, `fn_is`, and organization, `IBM`, and its IP address is `123.45.6.78`, the hosts file entry will be  
`23.45.6.78 fnis-IBM-nch-server`

# Appendix A

## ra.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE connector PUBLIC "-//Sun Microsystems, Inc.//DTD Connector
1.0//EN" 'http://java.sun.com/dtd/connector_1_0.dtd'>

<connector>
  <display-name>ISRA</display-name>
  <vendor-name>IBM</vendor-name>
  <spec-version>1.0</spec-version>
  <eis-type>IBM FileNet Image Services</eis-type>
  <version>3.4.0</version>
  <license>
    <license-required>>false</license-required>
  </license>
  <resourceadapter>
    <managedconnectionfactory-
class>com.filenet.is.ra.spi.FN_IS_SpiManagedConnectionFactory</managedc
onnectionfactory-class>
    <connectionfactory-
interface>javax.resource.cci.ConnectionFactory</connectionfactory-
interface>
    <connectionfactory-impl-
class>com.filenet.is.ra.cci.FN_IS_CciConnectionFactory</connectionfacto
ry-impl-class>
    <connection-interface>javax.resource.cci.Connection</connection-
interface>
    <connection-impl-
class>com.filenet.is.ra.cci.FN_IS_CciConnection</connection-impl-class>
    <transaction-support>NoTransaction</transaction-support>
    <config-property>
      <description>Domain name of the Image Services
Server</description>
      <config-property-name>DomainName</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>FileNetIS</config-property-value>
    </config-property>
    <config-property>
      <description>Organization name of the Image Services
Server</description>
      <config-property-name>OrganizationName</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>IBM</config-property-value>
    </config-property>
    <config-property>
      <description>0-Exceptions and Warnings; 1-Info; 2-Debug
Level</description>
      <config-property-name>LoggingLevel</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>0</config-property-value>
```

```

    </config-property>
    <config-property>
      <description>0-No Logging; 1-Console Logging; 2-File Logging; 3-
Both(File and console)</description>
      <config-property-name>LoggingMode</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>3</config-property-value>
    </config-property>
    <config-property>
      <description>Page data fetch size (in kilo bytes)</description>
      <config-property-name>PageBufferSize</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>64</config-property-value>
    </config-property>
    <config-property>
      <description>Cache refresh interval(in minutes)</description>
      <config-property-name>CacheRefreshInterval</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>30</config-property-value>
    </config-property>

    <config-property>
      <description>Security cache mode(1-caches users and groups 2-
caches groups only)</description>
      <config-property-name>SecurityCacheMode</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>1</config-property-value>
    </config-property>

    <config-property>
      <description>Selective metadata refresh(1-printer cache 2-doc
class cache 4-key fields cache 8-menu values cache )</description>
      <config-property-name>MetaDataCacheRefreshMode</config-property-
name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>15</config-property-value>
    </config-property>

    <config-property>
      <description>Name of the Product</description>
      <config-property-name>ProductName</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>IBM FileNet Image Services Resource
Adapter</config-property-value>
    </config-property>
    <config-property>
      <description>Product Version</description>
      <config-property-name>ProductVersion</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>ISRA 3.4.0 Enterprise</config-property-
value>
    </config-property>
    <config-property>
      <description>ISRA Logfile name (can include path) </description>
      <config-property-name>LogFileName</config-property-name>
      <config-property-type>java.lang.String</config-property-type>

```

```

        <config-property-value>ISRA.log</config-property-value>
    </config-property>
    <config-property>
        <description>Maximum Size of ISRA LogFile (in mega
bytes)</description>
        <config-property-name>LogFileSize</config-property-name>
        <config-property-type>java.lang.Integer</config-property-type>
        <config-property-value>5</config-property-value>
    </config-property>
    <config-property>
        <description>LDAP Authentication Class
Name</description>
        <config-property-name>LdapImplClassName</config-property-
name>
        <config-property-type>java.lang.String</config-property-
type>
        <config-property-
value>com.filenet.is.ra.fnis.FN_IS_IPlanetImpl</config-property-value>
    </config-property>
    <config-property>
        <description>Server details for LDAP Authentication
</description>
        <config-property-name>LdapImplClassString</config-property-
name>
        <config-property-type>java.lang.String</config-property-
type>
        <config-property-
value>filenetserver;389;ou=Users,ou=FileNet,dc=FileNetRoot</config-
property-value>
    </config-property>
    <config-property>
        <description>Inherently login through LDAP
authentication or not 0-Direct IS Login;1-LDAP
Authentication</description>
        <config-property-name>InherentLogin</config-property-name>
        <config-property-type>java.lang.Integer</config-property-type>
        <config-property-value>0</config-property-value>
    </config-property>
    <config-property>
        <description>ISRA instance that is currently being deployed on a
single machine; Min Value = 1, Max Value = 10</description>
        <config-property-name>DeploymentInstance</config-property-name>
        <config-property-type>java.lang.Integer</config-property-type>
        <config-property-value>1</config-property-value>
    </config-property>
    <config-property>
        <description>Parameter to enable PCH Logging in ISRA
</description>
        <config-property-name>PCHLogging</config-property-name>
        <config-property-type>java.lang.String</config-property-type>
        <config-property-value>Disabled</config-property-value>
    </config-property>
    <config-property>
        <description>LDAP Anonymous user login flag</description>
        <config-property-name>AllowAnonymousUser</config-property-
name>
        <config-property-type>java.lang.Boolean</config-property-type>

```



```

        <config-property-value>true</config-property-value>
    </config-property>
    <config-property>
        <description>0-No Logging; 1-File Logging</description>
        <config-property-name>RPCLogging</config-property-name>
        <config-property-type>java.lang.Integer</config-property-type>
        <config-property-value>0</config-property-value>
    </config-property>
    <config-property>
        <description>Codepage for ISRA</description>
        <config-property-name>ClientCodepage</config-property-name>
        <config-property-type>java.lang.String</config-property-type>
        <config-property-value>cp1250</config-property-value>
    </config-property>
    <config-property>
        <description>Locale of the Image Services Server (two letter ISO
language code, for example en, de, ar, ja)</description>
        <config-property-name>ISLocale</config-property-name>
        <config-property-type>java.lang.String</config-property-type>
        <config-property-value>en</config-property-value>
    </config-property>
    <config-property>
        <description>It is a configurable parameter to Ignore [77,0,11 The
object is busy] error, incase of DocMigration</description>
        <config-property-name>IgnoreObjectBusyMsgInDocMigration</config-
property-name>
        <config-property-type>java.lang.Boolean</config-property-type>
        <config-property-value>false</config-property-value>
    </config-property>
    <authentication-mechanism>
        <authentication-mechanism-type>BasicPassword</authentication-
mechanism-type>
        <credential-
interface>javax.resource.security.PasswordCredential</credential-
interface>
    </authentication-mechanism>
    <reauthentication-support>false</reauthentication-support>
</resourceadapter>
</connector>

```

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## Index

- AllowAnonymousUser, 42
- CacheRefreshInterval, 42
- Changing ISRA Specific Parameters, 41
- Changing ISRA Specific Parameters for LDAP, 94
- ClientCodepage, 42
- Configure a JMS Queue, 98
- Configure JMS Connection Factory, 103
- Configuring and Deploying ISRA Sample Application, 52
- Configuring Deployed ISRA, 41
- Configuring ISRA Parameters for Performance Statistics, 105
- Configuring JMS Server, 95
- Configuring Multiple IS Servers with ISRA, 51
- Configuring Performance Statistics from ISRA, 95
- Configuring Sample Application, 52
- Configuring Weblogic-Specific Entities, 47
- Deploying FileNet Image Viewer in a Clustered Environment, 80
- Deploying FileNet Image Viewer in a Standalone Environment, 71
- Deploying ISRA in a Clustered Environment, 29
- Deploying ISRA in a Standalone Environment, 7
- Deploying the Sample Application in a Clustered Environment, 62
- Deploying the Sample Application in a Standalone Environment, 54
- Deployment Requirements, 7
- DeploymentInstance, 42
- Disabling NCH Broadcasts, 113
- DomainName, 41
- Enabling Quick Start Feature, 89
- FileNet Image Viewer Quick Start Feature, 89
- InherentLogin, 42
- ISRA Configuration, 41
- ISRA Deployment, 7
- Known Issues in the Quick Start Feature, 90
- LDAP Configuration, 92
- LdapImplClassName, 42
- LdapImplClassString, 42
- LogFileName, 42
- LogFileSize, 42
- LoggingLevel, 41
- LoggingMode, 41
- Mandatory Requirements for ISRA, 39
- Mandatory Requirements for ISRA 3.3.0, 38
- Mapping Existing LDAP Server Users to IS, 92
- OrganizationName, 41
- PageBufferSize, 42
- PCHLogging, 42
- ra.xml, 114
- RPCLogging, 42
- Testing Sample Application, 90
- Troubleshooting, 113
- Undeploying FileNet Image Viewer, 112
- Undeploying ISRA, 107
- Undeploying Sample Application, 112
- Undeployment, 107