OFS Asset Liability Management Application Pack

Installation Guide

Release 8.1.2.5.0

February 2025

ORACLE
Financial Services

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OFS Asset Liability Management Installation Guide

Document Control

Version Number	Revision Date	Change Log
1.0	February 2025	Created the document for the OFSALM 8.1.2.5.0 Maintenance Level Release.

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1 Preface

This section provides information about the Oracle Financial Services Asset Liability Management (OFS ALM) Application Pack.

You can find the latest copy of this document in the OHC Documentation Library which includes all the recent additions or revisions (if any) done to date.

Before you begin the installation, ensure that you have access to My Oracle Support with the required login credentials to quickly notify us of any issues at any stage.

Topics:

- Intended Audience
- How this Guide is Organized
- Access to Oracle Support
- Related Information Sources
- Conventions
- Abbreviations

1.1 Audience

OFS ALM Application Pack Installation Guide is intended for administrators and implementation consultants who handle installing and maintaining the application pack components.

This document assumes that you have experience in installing Enterprise components and basic knowledge about the following:

- OFS ALM pack components
- OFSAA architecture
- UNIX commands
- Database concepts
- Web server or web application server

1.2 How this Guide is Organized

The Installation Guide is organized into the following sections:

- OFS ALM Release v8.1.2.5.0
- Appendix A - Installation of R and Oracle R Enterprise (ORE)

1.3 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info

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

1.4 Related Documents

We strive to keep this and all other related documents updated regularly; visit the OHC Documentation Library to download the latest version available there. The list of related documents is provided here.

- Oracle Financial Services Asset Liability Management User Guide
- Oracle Financial Services Asset Liability Management Analytics User Guide
- Oracle Financial Services Analytical Applications Technology Matrix
- Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide

1.5 Conventions

The following text conventions are used in this document.

Table 1: Document Conventions

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, file names, text that appears on the screen, or text that you enter.
Hyperlink	Hyperlink type indicates the links to external websites and internal document links.

1.6 Abbreviations

The following table lists the abbreviations used in this document.

Table 2: Abbreviations

Abbreviation	Meaning
BDP	Big Data Processing
DBA	Database Administrator
DDL	Data Definition Language
DEFQ	Data Entry Forms and Queries

Abbreviation	Meaning
DML	Data Manipulation Language
EAR	Enterprise Archive
EJB	Enterprise Java Beans
ERM	Enterprise Resource Management
FTP	File Transfer Protocol
HDFS	Hadoop Distributed File System
HTTPS	Hypertext Transfer Protocol Secure
J2C	J2EE Connector
J2EE	Java 2 Enterprise Edition
JCE	Java Cryptography Extension
JDBC	Java Database Connectivity
JDK	Java Development Kit
JNDI	Java Naming and Directory Interface
JRE	Java Runtime Environment
JVM	Java Virtual Machine
LDAP	Lightweight Directory Access Protocol
LHS	Left Hand Side
MFA	Multi-Factor Authentication
MOS	My Oracle Support
OFSAA	Oracle Financial Services Analytical Applications
OFSAAI	Oracle Financial Services Analytical Application Infrastructure
OFSAAAI	Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack
OHC	Oracle Help Center
OLAP	On-Line Analytical Processing
OLH	Oracle Loader for Hadoop
ORAAH	Oracle R Advanced Analytics for Hadoop
OS	Operating System
RAM	Random Access Memory
RDBMS	Relational Database Management System
RHEL	Red Hat Enterprise Linux
SFTP	Secure File Transfer Protocol
SID	System Identifier
SSL	Secure Sockets Layer
TNS	Transparent Network Substrate

Abbreviation	Meaning
URL	Uniform Resource Locator
VM	Virtual Machine
WAR	Web Archive
XML	Extensible Markup Language

2 OFS ALM Release v8.1.2.5.0

OFS Asset Liability Management Installation Guide (OFS ALM) Maintenance Level (ML) release v8.1.2.5.0 includes all the bug fixes and minor enhancements done since the previous GA (General Availability) release v8.1.2.0.0.

This ML release of OFS ALM can be installed on a setup with any Oracle Financial Services Asset Liability Management Installation Guide (OFS ALM) v8.1.2.0.0 Application Pack.

> **NOTE** Catalog & RPD files are available in the installer at `/OFS_ALM_PACK/OFS_ALMBI/bin/ALMBI/RPD_WEBCATALOG/12.2.1.4.0`. Post installation of ALM 8.1.2.5, these files can also be found at `$FIC_HOME/ALMBI/RPD_WEBCATALOG/12.2.1.4.0`.

2.1 Pre-installation Requirements

The following pre-installation steps are required for this release:

- The minimum patch level installed must be OFS ALM Release **8.1.2.0.0**.
- The minimum OFS AAI patch level is Release **8.1.2.5.0 ML.**

> **NOTE** Download 36982168 (Erwin Data Model patches for ALM and ALMBI) from My Oracle Support.
>
> See the OFS Analytical Applications Technology Matrix for hardware and software requirements.
>
> For more details on Java 11, see the Update the OFSAA 8.1.1.x Java 8 Instance to Java 11 section.
>
> Take a backup of SETUP_MASTER table in Atomic schema if there are customizations. This table will be overwritten with default values post installation.

- The unlimited cryptographic policy for Java is enabled during the installation of OFS ALM 8.1.2.0.0. For more information, see the *Enabling Unlimited Cryptographic Policy* section in the OFS Analytical Applications Infrastructure Administration Guide.
- **Oracle Linux 9 Server Support**

  The OFS ALM 8.1.2.5.x release supports Oracle Linux 9 Server in addition to the continued support on Oracle Linux 8 and Oracle Linux 7.

> **NOTE** The **Oracle Linux 9 Server Configuration** section applies to upgrade installation of OFS ALM and the **New Installation of OFS ALM 8.1.2.0.0 with Oracle Linux 9 Server** section applies to new installation of OFS ALM.

New Installation of OFS ALM 8.1.2.0.0 with Oracle Linux 9 Server

To install the OFS ALM 8.1.2.0.0 base installer with Oracle Linux 9 Server, follow the instructions in the My Oracle Support Doc ID 3067623.1 and then upgrade to OFS ALM 8.1.2.5.0.

2.2 Installing this Release

To install this release patch, follow these steps:

1. Log in to My Oracle Support and search for **36944166** under the **Patches & Updates** tab.
2. Download the OFS ALM 8.1.2.5.0 ML Release archive file and copy to your OFSAA server in **Binary** mode.
3. Stop all the OFS AAI services. For more information, see the *Stopping Infrastructure Services* section in the Oracle Financial Services Asset Liability Management Installation and Configuration Guide.
4. Log in to the OFSAA server as a non-root user and navigate to the `$FIC_HOME` directory.
5. Assign WRITE permission to the files/directories such as common scripts, EXEWebService, ficapp, ficweb, and ficdb using the command:

   ```
   chmod -R 775 *
   ```

6. If you have the Unzip utility, skip to the next step or download the Unzip utility (OS-specific) and copy it in Binary mode to the directory that is included in your PATH variable, typically `$HOME` path or directory in which you have copied the 8.1.2.5.0 ML.
   - Uncompress the unzip installer file using the command:

     ```
     uncompress unzip_<os>.Z
     ```

     NOTE If you notice an error message: "**uncompress: not found [No such file or directory]**", when the package is not installed, contact your UNIX administrator.

   - Assign EXECUTE permission to the utility using the command:

     ```
     chmod 751 unzip_<os>
     ```

     For example, `chmod 751 unzip_Linux`

7. Extract the contents of the 8.1.2.5.0 ML archive file using one of the following commands:

   ```
   unzip_<os> -a <name of the file to be unzipped>
   ```

   Or

   ```
   unzip -a <name of the file to be unzipped>
   ```

   NOTE The "`-a`" option is mandatory to unzip the archive file. For example:
   For LINUX operating system,
   `unzip -a p36944166_81200_Linux-x86-64.zip`

8. Update the parameters in the `params.conf` file present in the `OFS_ALM_PACK/appsLibConfig/conf` directory. The update instructions are present in the file itself. Set UPLOAD_MODEL parameter to **1** to upload the Data Model.

```
# Specify wheter you want to perform Model Upload
# 0 = If you have already performed Model Upload and want to skip model upload process
# 1 = If you want to perform Model Upload
UPLOAD_MODEL=1

# Specify whether you want to use the released datamodel or customized datamodel for model upload
# 0 = If you want to upload the released datamodel
# 1 = If you want to upload the customized datamodel
MODEL_TYPE=

# Specify the path(DM_DIRECTORY) and file(DATAMODEL) name for the cutomized datamodel
# Mandatory only if you want to upload the customized datamodel
# i.e you have specified MODEL_TYPE=1
DATAMODEL=
DM_DIRECTORY=
```

NOTE **Model Upload Process**: Input values required are 0 or 1.

- **1** indicates Trigger Model Upload
- **0** indicates Skip Model upload process

If the value is 1, then choose a type of Model Upload from the following:

- **0** indicates Released Data Model
- **1** indicates the Customized Data Model

If the value of the Model upload type is 1, then provide the inputs for the Data Model name and the path of the Data Model.

9. Navigate to the `/OFS_ALM_PACK` directory to assign EXECUTE permission to the ML patch installer script using the command:

   `chmod 755 OFSAAIUpdate.sh`

10. Complete the patch upgrade using the command:

    `./OFSAAIUpdate.sh`

11. Verify if the ML patch is applied successfully by checking the following log files:

    - `OFS_ALM_installation.log` file in `/OFS_ALM_PACK/OFS_ALM/logs` directory
    - `OFS_ALMBI_installation.log` file in `OFS_ALM_PACK/OFS_ALMBI/logs` directory
    - `OFSAAIUpdate.log` file in `/OFS_ALM_PACK/logs` directory

    You can ignore error codes ORA-00001, ORA-02292, ORA-00955, and ORA-02260 in the log file. For any other errors, contact My Oracle Support.

> **NOTE** For upgrade on Hive Infodom, you may encounter an exception "PL/SQL: ORA-00942: table or view does not exist". You can ignore this error.

12. After successful installation of the ML, follow these steps:
    - Execute *.profile* using the following command:

      ```
      . $HOME/.profile
      ```

    - Clear the application cache. Navigate to the following path depending on the configured web application server and delete the files.
      - Tomcat:
        ```
        <Tomcat installation
        folder>/work/Catalina/localhost/<Application
        name>/org/apache/jsp
        ```
      - WebLogic:
        ```
        <WebLogic installation location>/domains/<Domain
        name>/servers/<Server name>/tmp/_WL_user/<Application name>
        ```
      - WebSphere:
        ```
        <WebSphere installation directory>/AppServer/profiles/<Profile
        name>/temp/<Node name>/server1/<Application name>/<.war file
        name>
        ```
13. Delete the existing EAR or WAR file available in the `$FIC_HOME/ficweb` directory.
14. Install the OFSAAIRunner package. This is an optional step and applicable only if you have installed Oracle R Enterprise Edition (ORE). For more information, see Installing OFSAAIRunner package with enhancements for OFS AAI 8.1.2.5.0.
15. Restart all the OFSAAI services. For more information, see the *Starting Infrastructure Services* section in the Oracle Financial Services Asset Liability Management Installation and Configuration Guide.
16. Generate the application EAR or WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying the EAR or WAR file, see the *Post Installation Configurations* section in the Oracle Financial Services Asset Liability Management Installation and Configuration Guide.
17. Configure the document upload settings. See the *Configure Document Upload Settings* section in the Oracle Financial Services Asset Liability Management Installation and Configuration Guide for more information.

3 Post Installation

Perform following post installation steps:

1. Manually execute below scripts incase objects in the schema remains invalid post installation:

   `OFS_ALM_PACK/OFS_ALM/bin/scripts/compileschema.sql`

4 RPD, Catalog Deployment, and D3 Configuration for OAS and OBIEE

This chapter provides the configuration procedures for RPD, Catalog Deployment, and D3 for OAS and OBIEE.

Topics:

- Data Visibility
- Deploying the Report Analytics
- Deploying D3 on the OBIEE Server

4.1 Data Visibility

This has been implemented with the set of tables and OBIEE roles. Roles Created in OBIEE is to restrict data based on Manager Hierarchy.

Topics:

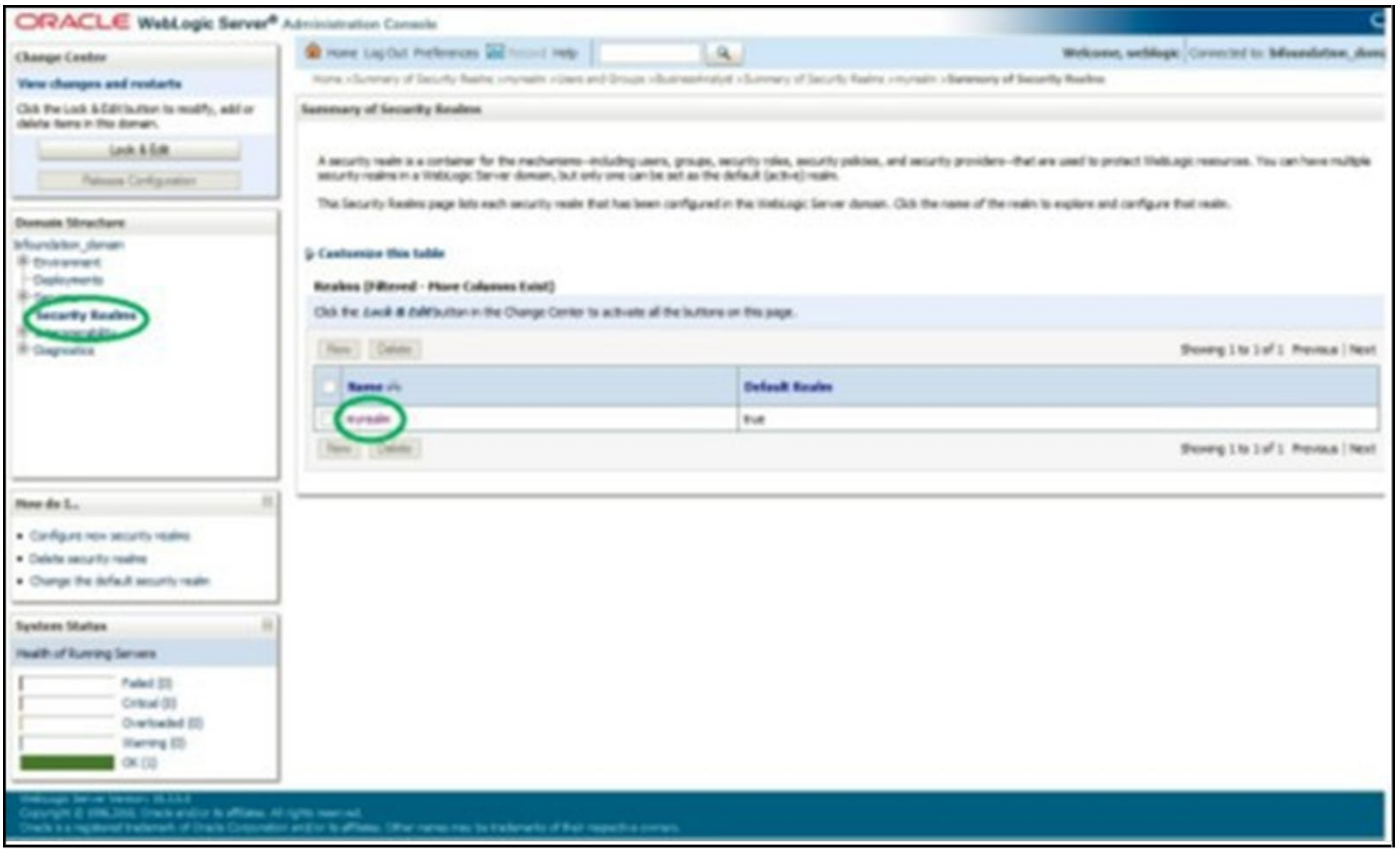
- Creating OBIEE Roles
- Data Population as per Visibility Changes

4.1.1 Creating OBIEE Roles

To create the OBIEE Roles, follow these steps:

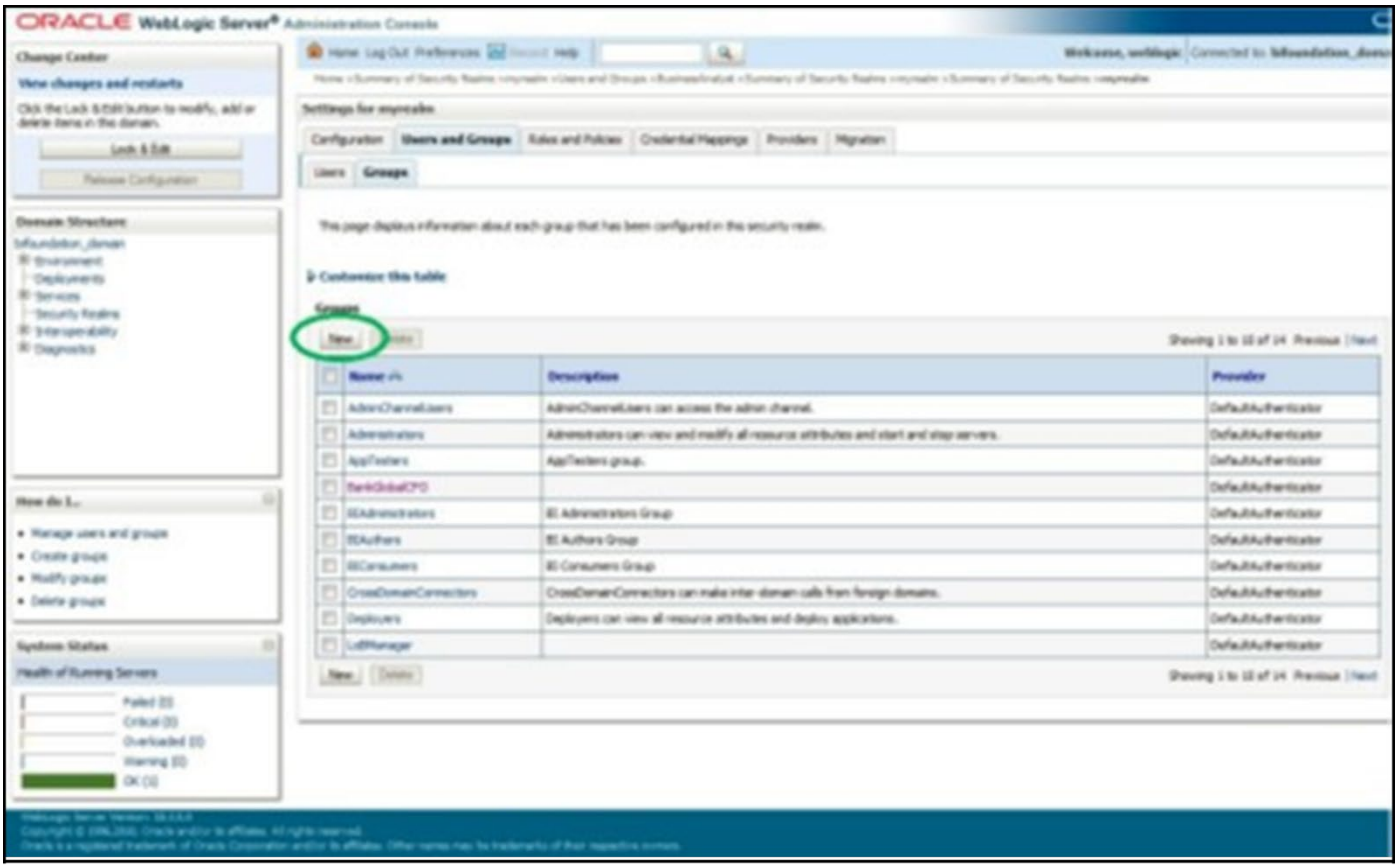
1. Open the Admin Console of OBIEE.
2. Click on **Security Realms** under Domain Structure.
3. Click on **myrealm** under Realms.

Figure 4-1 WebLogic Server Administration Console – Security Realms



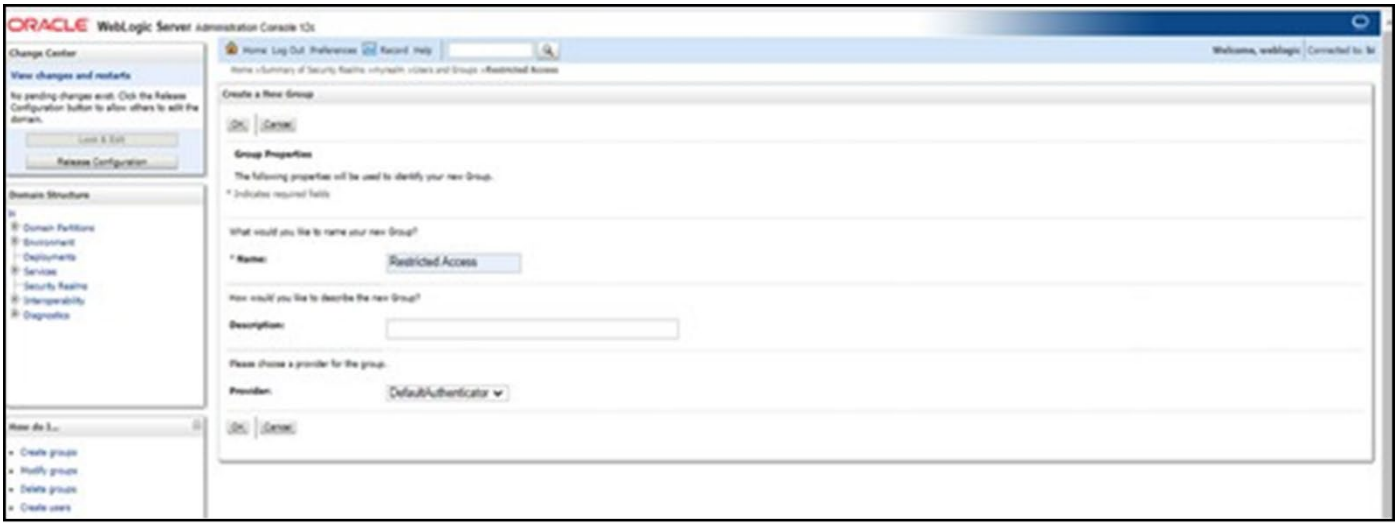
4. Click on **Groups** tab of **User and Groups**.

Figure 4-2 Groups Tab



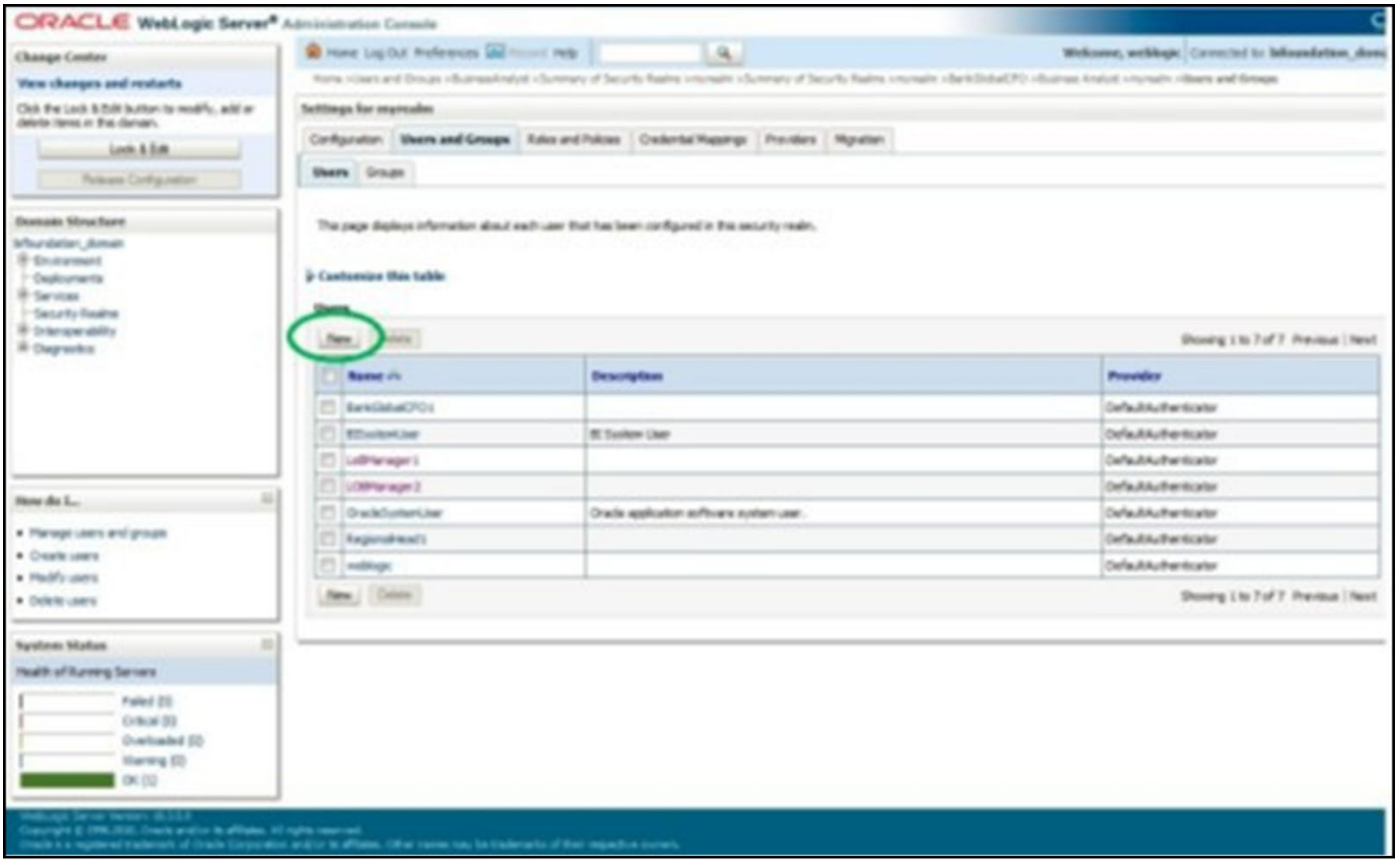
5. Click on **New** and create new user group as 'Restricted Access'.

Figure 4-3 New User Group Creation



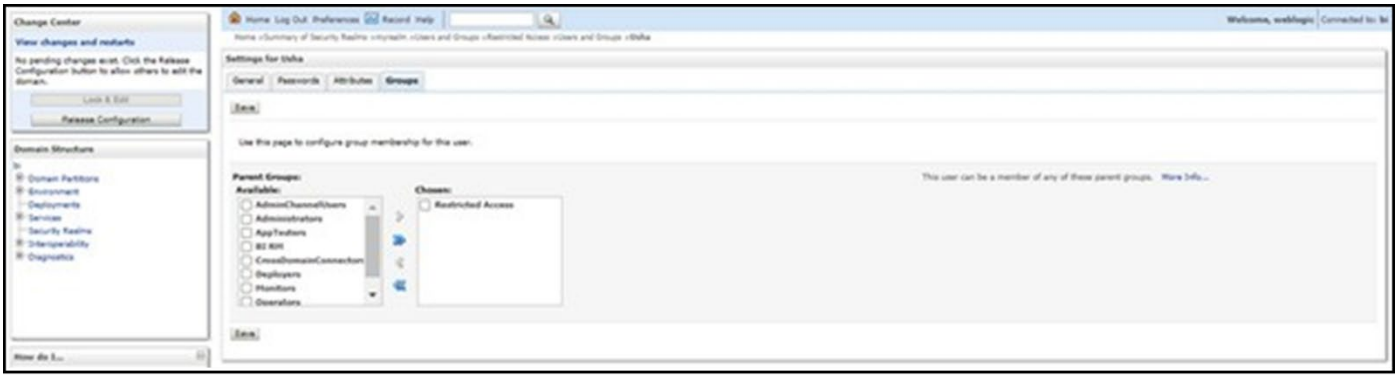
6. Create a new user under **Users** tab of **Users and Groups**.

Figure 4-4 New User Creation



7. Map the newly created users to 'Restricted Access' group, which need Data Visibility.

Figure 4-5 Mapping New Users to Restricted Access Group

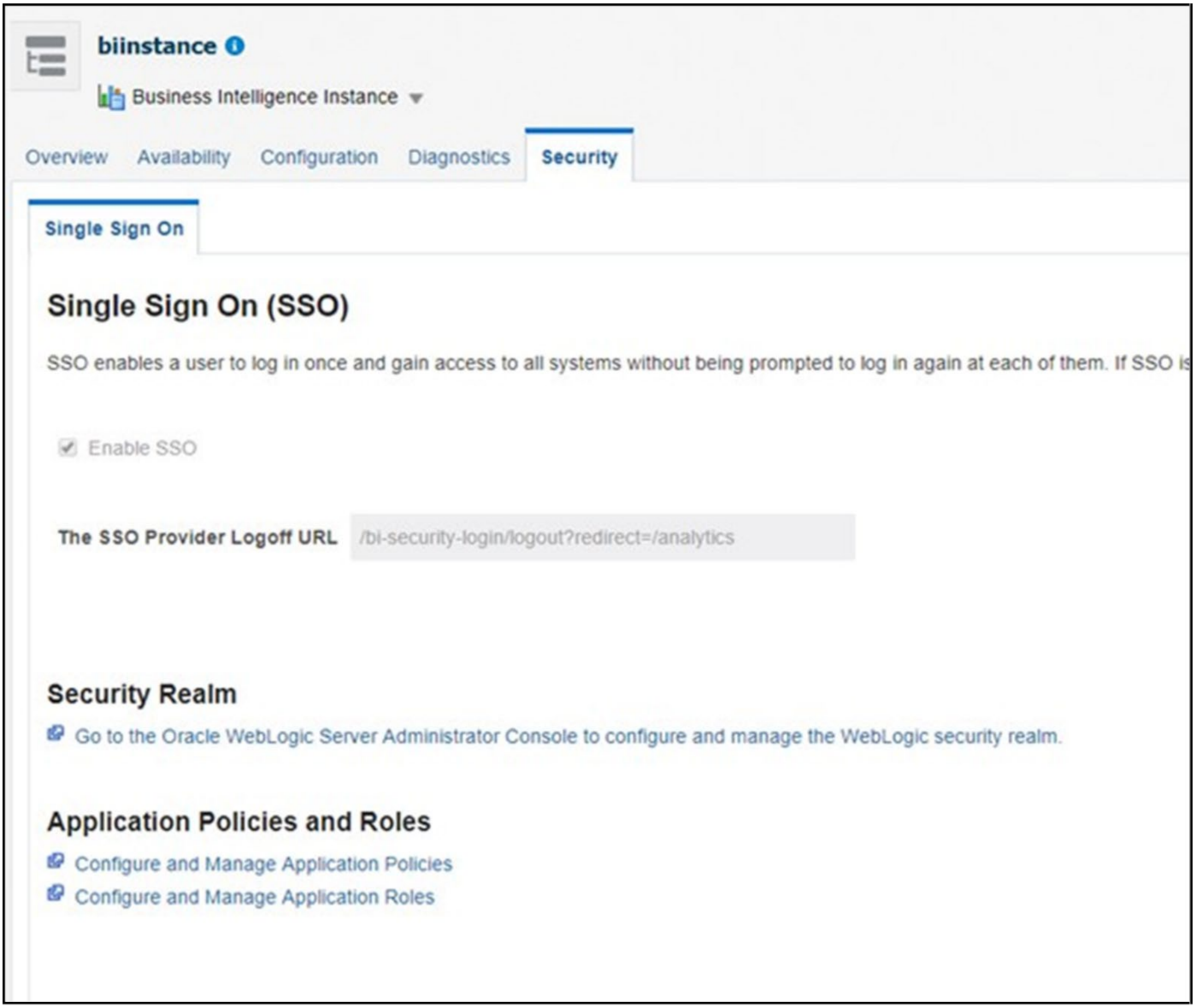


8. Close the Admin Console of OBIEE.
9. Open Enterprise Manager of OBIEE.
10. Click on **biinstance** under Business Intelligence.

Figure 4-6 BI Instance

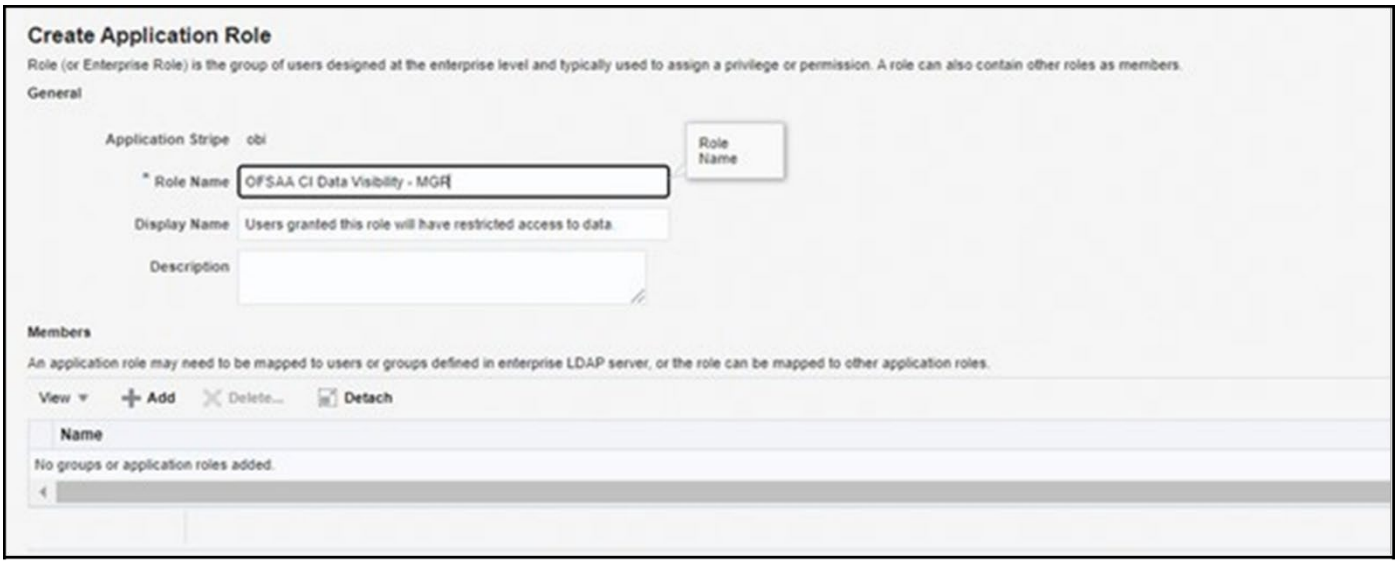
11. Click on **Security** under biinstance.

Figure 4-7 Security Tab



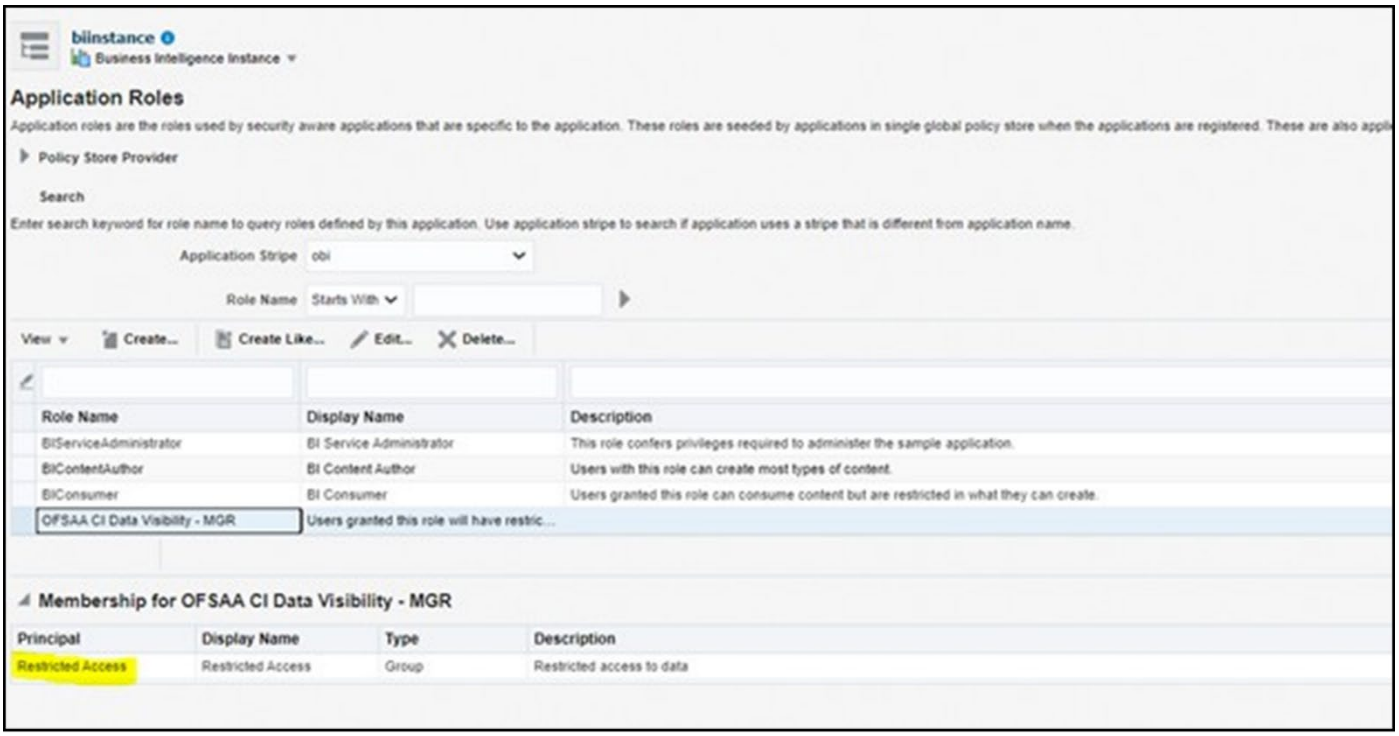
12. Click on **Configure and Manage Application Roles** to create Application Roles.
13. Map the newly created user group **Restricted Access** to the **BI Consumer Role**.
14. Click on **Create** and name as **OFSAA CI Data Visibility - MGR** role . Ensure to use the same name as it is referenced in RPD failed to do this should have access to all reports data.

Figure 4-8 Create Application Role



15. Map the user group, which need data visibility to the **OFSAA CI Data Visibility – MGR**.

Figure 4-9 OFSAA CI Data Visibility- MGR



4.1.2 Data Population as per Visibility Changes

- **FSI_M_USER**: This table stores all the users that have access to OBIEE. The User ID in this table must match the user's login ID of OBIEE.

- **FSI_M_USER_MANAER_MAP**: This table needs only those users details who need Restricted Access. The V_USERNAME has to be inserted with the login username created in OBIEE. V_MANGER_CODE has to be inserted with the manager code of the corresponding user from DIM_MANAGEMENT table. V_USER_TYPE is updated as 'R' which denotes Restricted Access. Fail to update this table may end up with report errors.

Note:

Users insertion in FSI_M_USER and FSI_M_USER_MANAGER_MAP has to be done directly into the table. For example, in presence of Single Signon System, these tables need to be loaded with data from Single Signon System directly.

4.2 Deploying the Report Analytics

The deployment of ALM Report Analytics involves the following tasks:

Topics:

- Port OBIEE Artifacts to Oracle Analytics Server
- Deploying OFS ALMBI RPD File
- Deploying OFS ALMBI Catalog Files

4.2.1 Port OBIEE Artifacts to Oracle Analytics Server

You can deploy the OBIEE artifacts in two ways as follows:

- Directly deploy the artifacts distributed with OFSAA on the Oracle Analytics Server (OAS).
- Perform an in-place upgrade from OBIEE to OAS and deploy the artifacts. For more information, see Upgrade from Oracle Business Intelligence 12c documentation.

Note:

See the MOS Doc ID 2648055.1 to confirm if your application or pack is certified for Oracle Analytics Server.

4.2.2 Deploying OFS ALMBI RPD Files

To deploy the RPD file, follow these steps:

1. Copy the RPD file from the following location for the ALMBI application.

Table 4-1 RPD Files

Application	File Name	Location
ALMBI	ALMBI.rpd	$FIC_HOME/ALMBI/RPD_WEBCATALOG/12.2.1.4.0

Keep the merged rpd as the base in order to avoid the merge errors.

2. Paste the copied RPD file in the Windows machine where the OBIEE Windows Administration client or OAS Analytics client is installed and deploy. For more information on deployment, refer to your OBIEE 12c or OAS documentation.
3. Open the RPD file online with the default password.

Note:

The RPD files are configured with a default password, which you require to open for the first time. See the MOS Doc ID: 2691681.1 for the password.

4. In the OBIEE Windows Administration client, from the File menu, select **Save**.
5. Click **Yes** in the dialog box, Do you want to check global consistency?
6. Click OK to acknowledge the message, Consistency check didn't find any errors, warning, or best practices violations.

You can ignore the warnings on the consistency check.

4.2.3 Deploying ALMBI Catalog Files

To deploy the Catalog files, follow these steps:

1. Copy the Catalog files from the following locations for the OFS ALMBI application.

Table 4-2 Catalog Files

Application	File Name	Location
ALMBI	ALMBI.catalog	$FIC_HOME/ALMBI/RPD_WEBCATALOG/12.2.1.4.0

2. Paste the copied catalog files to a local folder.
3. Open the analytics OBIEE or OAS URL-(http://<ipaddress>:<port>/analytics) and login with your server credentials.
4. Click the **Catalog** link available on the top right corner.
5. Click **Shared Folders** and then click **Un-Archive**.
6. Browse the path where catalog files are copied in the local folder. Select a file and click **Open**. Click **OK**. Repeat this for the remaining catalog files.
7. Click any of the **Dashboards** and verify if all the reports are available.

4.3 Post-Installation Steps

After successfully deploying the RPD and Catalog files, perform the following steps:

1. Apply the patch **Bundle Patch** for OBIEE 12.2.1.4.0. See the **Readme** packaged with the patch for further instructions on how to install the patch. See the Doc ID 2070465.1 for more information about the bundle patch.
2. Do the following changes in the instanceconfig.xml file:

a. Backup and edit the instanceconfig.xml file located at:

```
$ORACLE_HOME/user_projects/domains/bi/config/fmwconfig/biconfig/OBIP S
```

Table 4-3 Tags and Changes for instanceconfig.xml File

Tag to be changed or added	Changes
Change the following tag: <Views>	<Charts> <DefaultWebImageType>html5</DefaultWebImageType> <MaxVisibleColumns>10000</MaxVisibleColumns> <MaxVisiblePages>600000</MaxVisiblePages> <MaxVisibleRows>900000</MaxVisibleRows> <MaxVisibleSections>600000</MaxVisibleSections> <JavaHostReadLimitInKB>8192</JavaHostReadLimitInKB> </Charts> <Cube> <CubeMaxRecords>9999999</CubeMaxRecords> <CubeMaxPopulatedCells>999999999</CubeMaxPopulatedCells> </Cube>
Change the followingtag: <Security>	<Security> <CheckUrlFreshness>false</CheckUrlFreshness> <EnableSavingContentWithHTML>true</EnableSavingContentWithHTML> </Security>
Add the following tag: <ServerIns tance>	<Prompts> <MaxDropDownValues>256</MaxDropDownValues> <ResultRowLimit>65000</ResultRowLimit> <AutoApplyDashboardPromptValues>true</AutoApplyDashboardPromptVal ues> <AutoSearchPromptDialogBox>true</AutoSearchPromptDialogBox>

Tag to be changed or added	Changes
	<AutoCompletePromptDropDowns> <SupportAutoComplete>true</SupportAutoComplete> <CaseInsensitive>true</CaseInsensitive> <MatchingLevel>MatchAll</MatchingLevel> <ResultsLimit>50</ResultsLimit> </AutoCompletePromptDropDowns> <ShowNullValueWhenColumnIsNullable>never</ShowNullValueWhenColumn IsNullable </Prompts>

b. Save and close the file.

c. Restart the presentation server for the changes to take effect.

3. Do the following changes in the `NQSConfig.INI` file.

   Evaluate function is used in filters of many reports. To support the evaluation function in reports, the value of `EVALUATE_SUPPORT_LEVEL` must be set as 2 instead of 0 in the NQSConfig.INI file of the OBIEE server present in the `$ORACLE_HOME/user_projects/domains/bi/config/fmwconfig/biconfig/OBIS` directory.

4.4 Deploying D3 on OBIEE Server

This section provides detailed steps to install and configure D3, a visualization framework, which is used in a few reports of the OFS ALMBI application.

To deploy the D3 in the OBIEE server, follow these steps:

1. Download version D3 v.5.4.0 from the D3 website:

   https://github.com/d3/d3/releases/download/v5.4.0/d3.zip

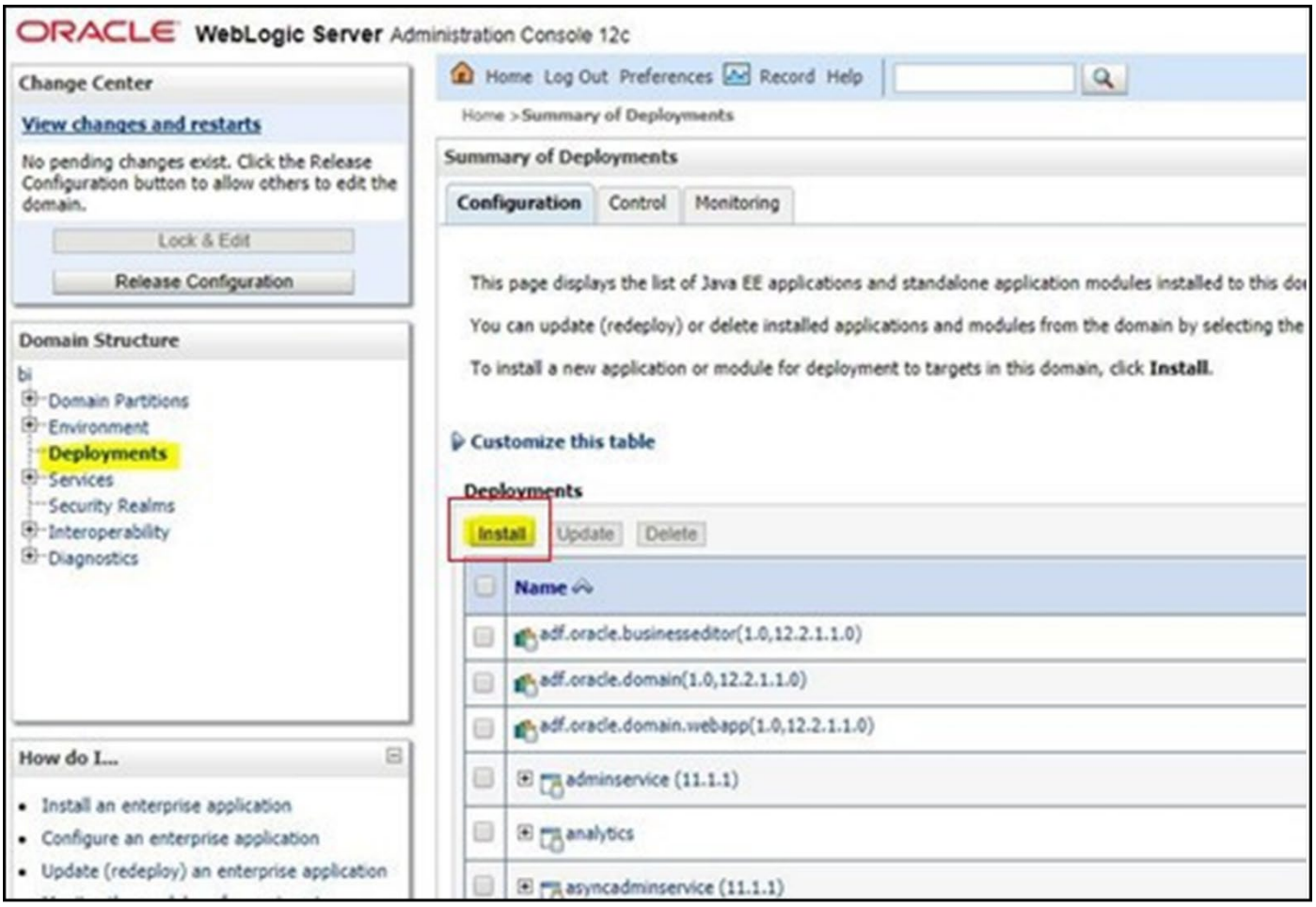
2. Unzip the contents of d3.zip.

3. Copy the `d3.min.js` file and place it under `analyticsRes/d3` from `$FIC_HOME/OFS_ALMBI_DASHBOARDS` directory and paste the `analyticsRes` folder to OBIEE Server at the following location:

   `$ORACLE_HOME/user_projects/domains/`

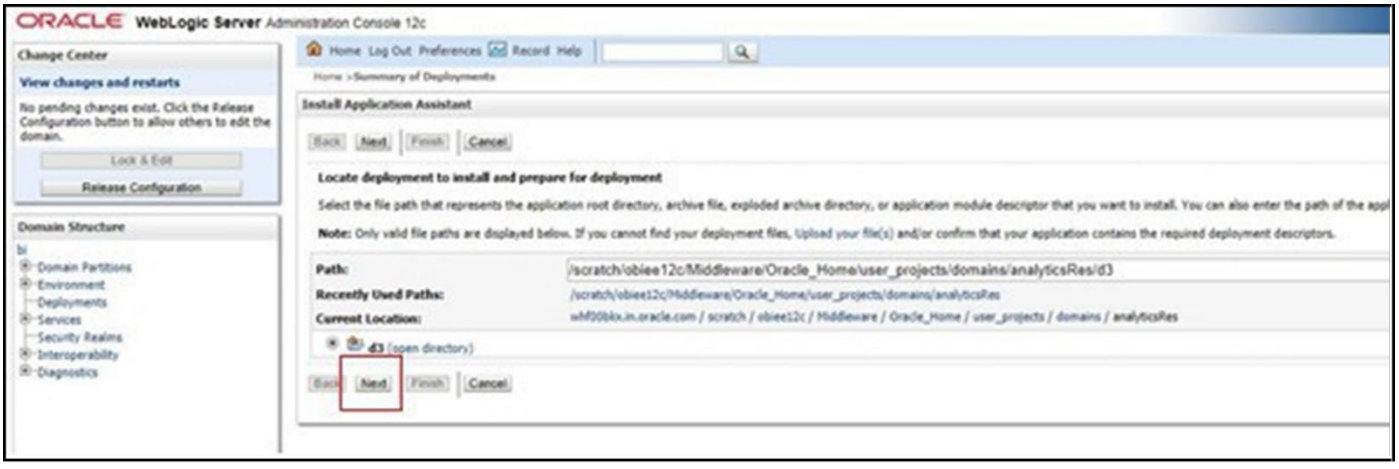
4. Log in to the WebLogic server, navigate to **Deployments** in your Domain Structure, and then click **Install**.

Figure 4-10 WebLogic Administration Console



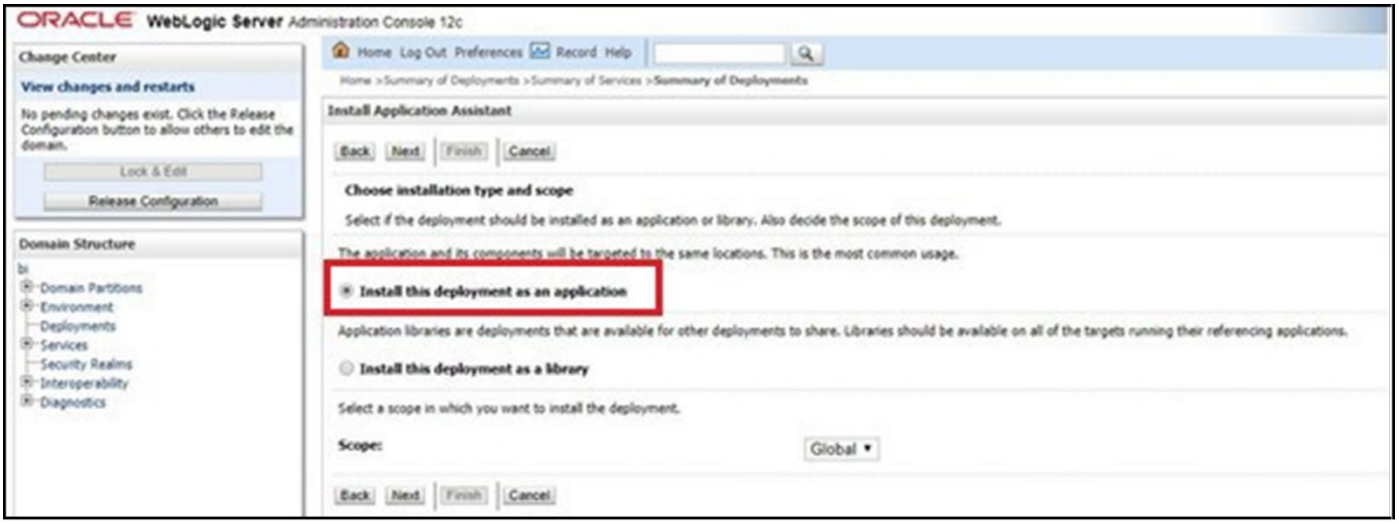
5. Paste the full path of the D3 directory, select D3 (open directory), and click **Next**.

Figure 4-11 Locale Deployment



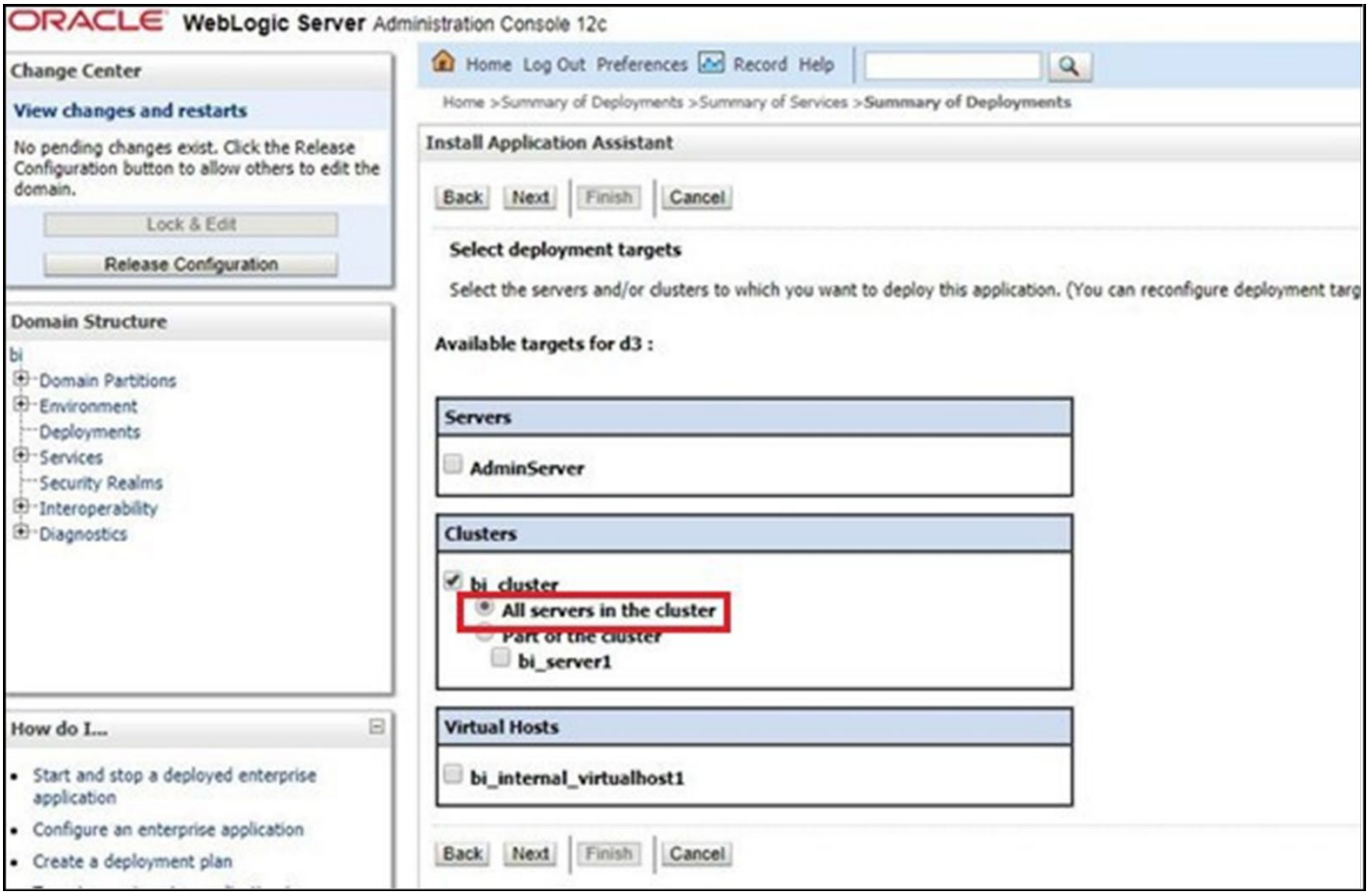
6. Select **Install this deployment as an application** and click **Next**.

Figure 4-12 Installation Type Selection



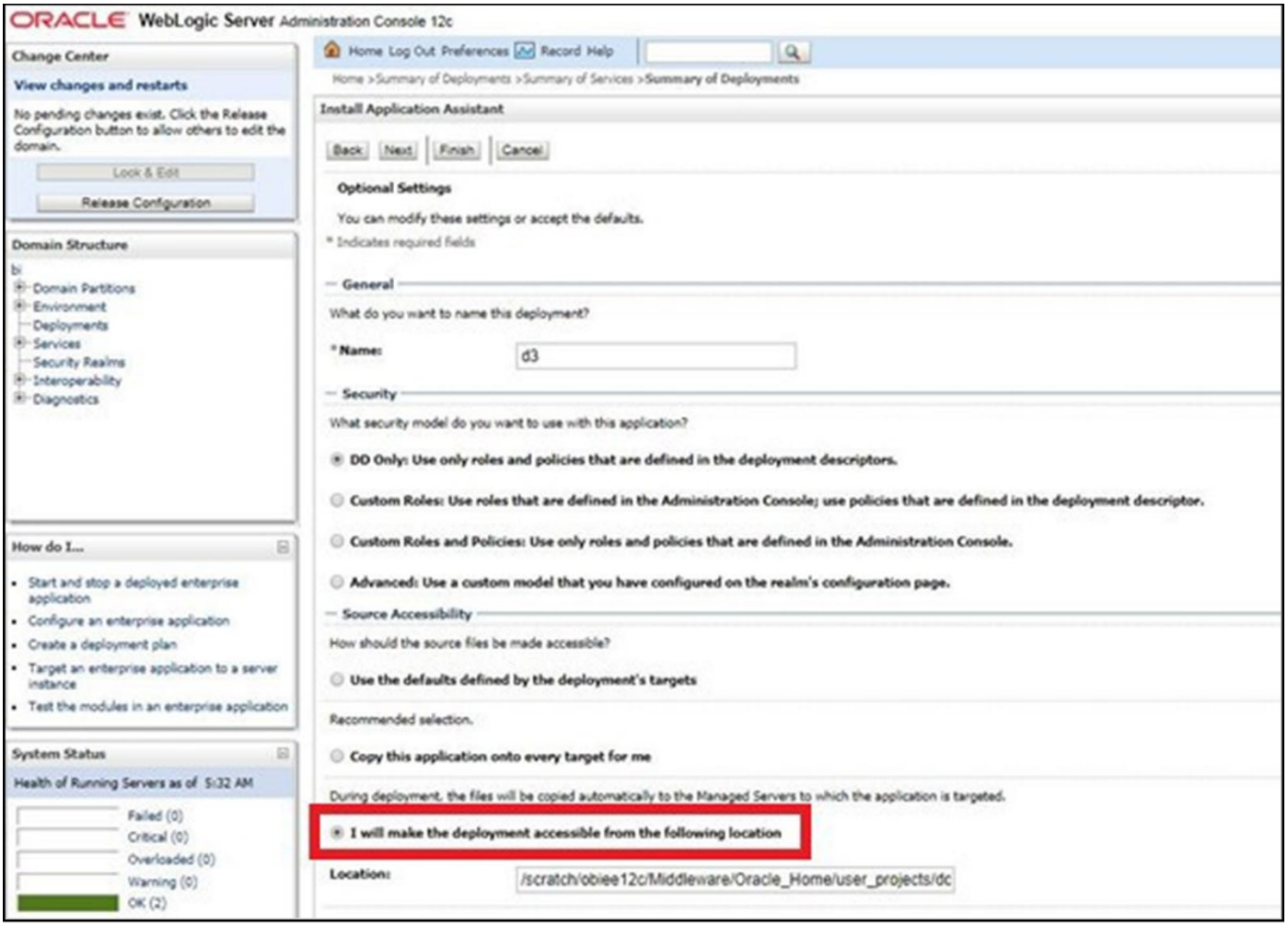
7. Select **bi_cluster**, and then select **All servers in the cluster**.

Figure 4-13 Deployment Targets



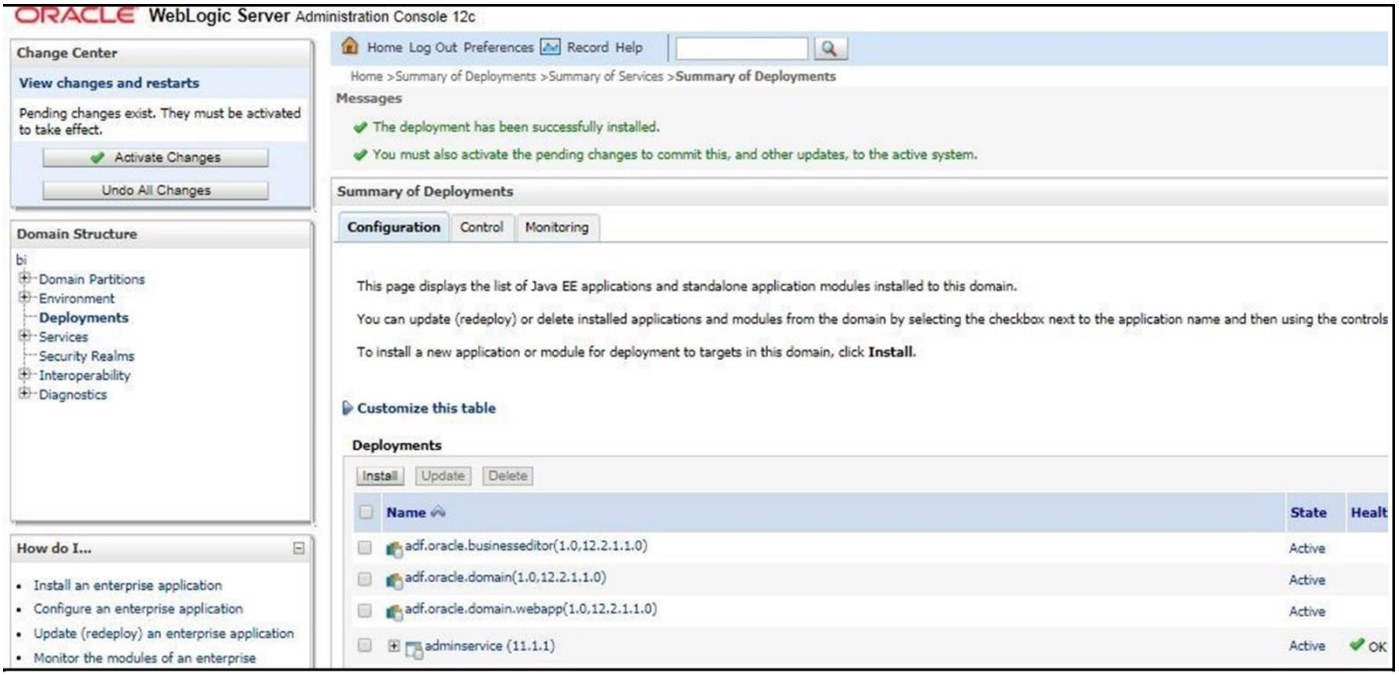
8. Select **I will make the deployment accessible from the following location** (as highlighted in the following screenshot) and click **Finish**.

Figure 4-14 Optional Settings



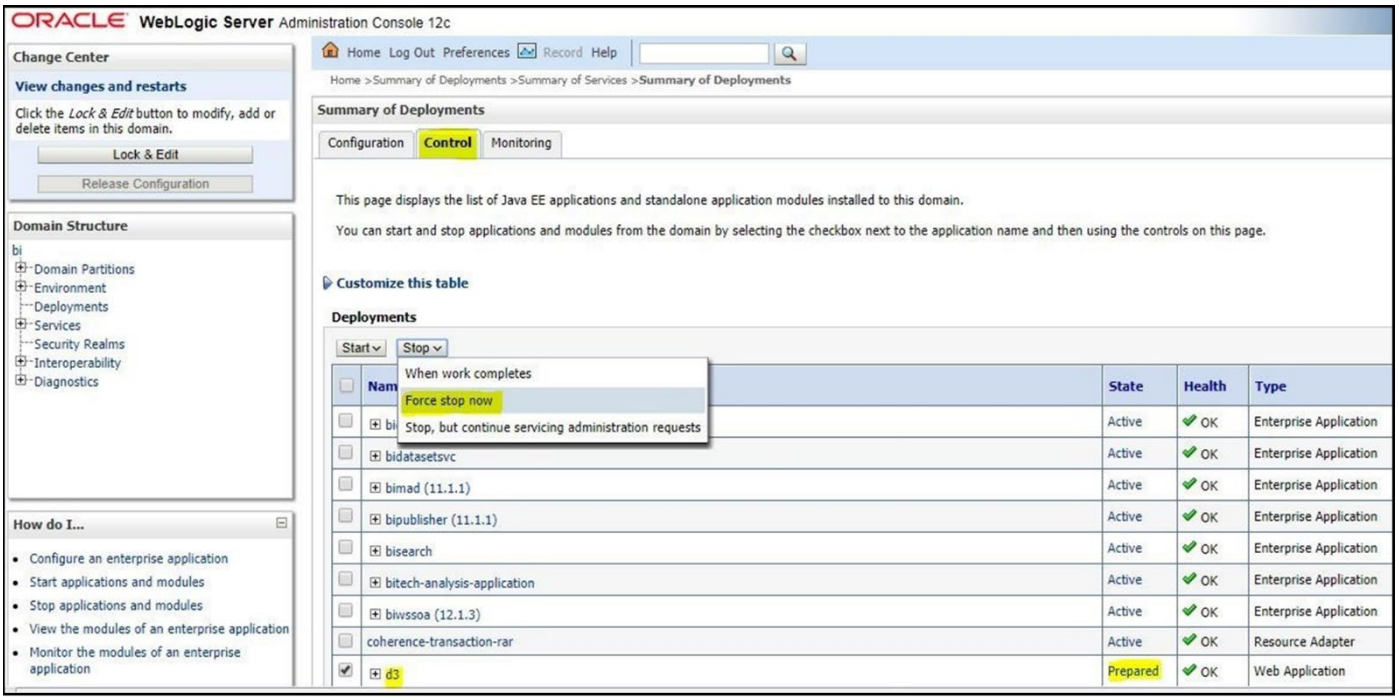
9. Click **Activate Changes**.

Figure 4-15 Summary of Deployments



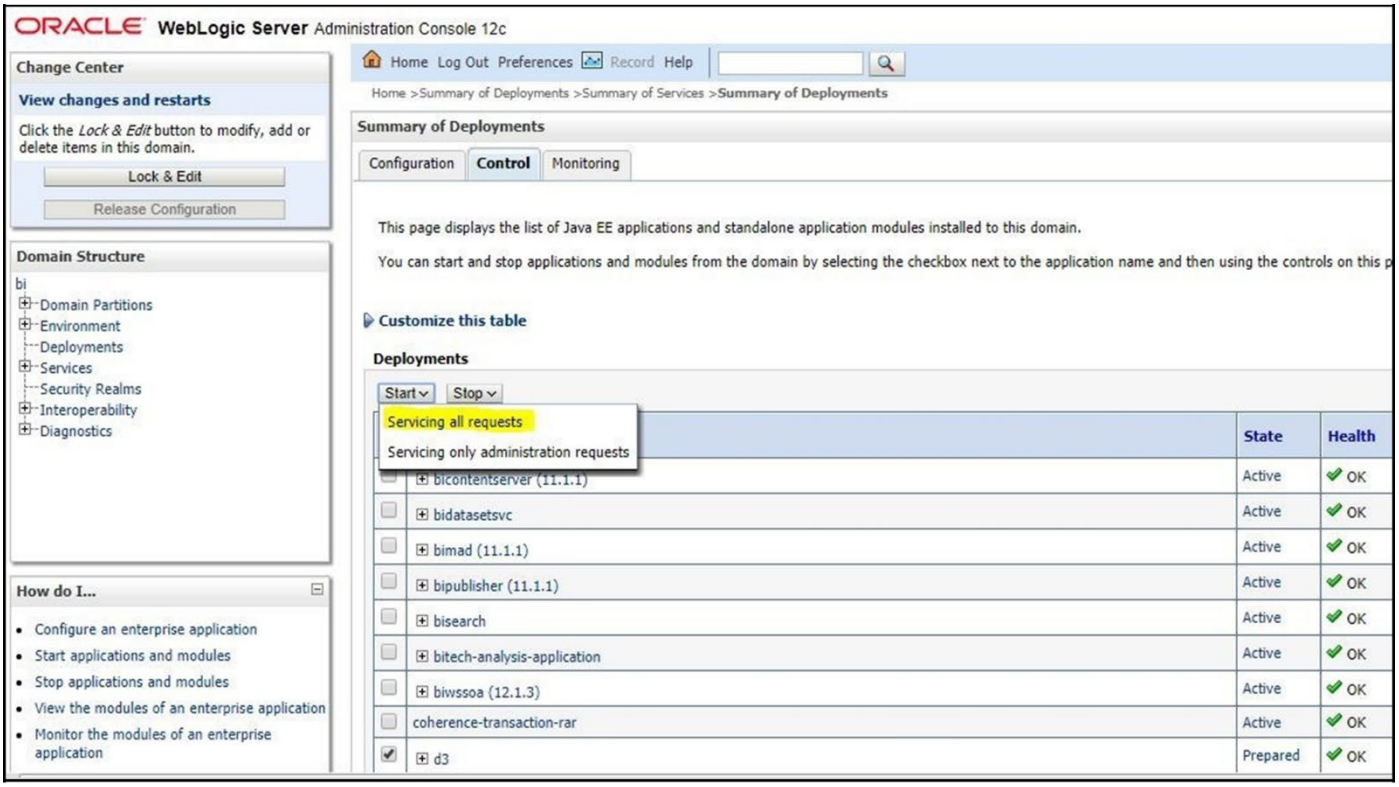
10. After activating the changes, the application is in a **Prepared** state. Select the **Control** tab. All the installed applications are displayed. Select the application from the **Deployments** table, click **Stop**, and then select **Force stop now** from the drop-down menu.

Figure 4-16 Customize the Deployed Applications



11. Start the application by selecting the check box next to it and then select **Servicing all requests** from the **Start** drop-down menu in the **Deployments** table in the WebLogic Server Administration Console.

Figure 4-17 Customize the Deployed Applications



12. The application changes to the **Active** state and is ready to use.

5 Additional Configurations

Topics:

- Install the Updated OFSAAI Runner

5.1 Install the Updated OFSAAI Runner

NOTE

1. This is a post-installation configuration and is applicable if you have installed Oracle R Enterprise (ORE) for Oracle Financial Services Enterprise Modeling (OFS EMF) Application.
2. This configuration is not applicable for Tomcat web server.

If OFS Enterprise Modeling is licensed and enabled in your OFSAA instance, uninstall the OFSAAI Runner package and reinstall the latest available OFSAAI Runner package. For details on uninstallation and reinstallation, see the *Configuring Oracle R distribution and Oracle R Enterprise (ORE)* section in the Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide.

6 Appendix A - Installation of R and Oracle R Enterprise (ORE)

This is an optional step and required only if you intend to use Term Structure Parameter Estimation functionality under Interest Rates of Rate Management for computing term structure parameters. Both OFS Funds Transfer Pricing and OFS Asset Liability Management applications require term structure parameters for all Monte Carlo engine-based calculations (OAS, VaR, and EaR).

The following are the prerequisites:

- Install R and Oracle R Enterprise Server on the Oracle Database server. For more information, see the Oracle® R Enterprise Installation and Administration Guide
- Oracle R Enterprise (Server) version 1.4.1
- Configuration for Oracle R Enterprise
- Grant the RQADMIN role to atomic schema

  You can grant the RQADMIN role in SQL*Plus by logging in to the database with DBA privileges and providing the following privilege to Atomic Schema:

  ```
  RQADMIN by executing the command:
  GRANT RQADMIN TO < atomic_schema>;
  ```

OFSAA Support

Raise a Service Request (SR) in My Oracle Support (MOS) for queries related to the OFSAA applications.

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- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this manual?

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