Oracle® FLEXCUBE Investor Servicing

Open Development Tool Installation

Release 14.8.0.0.0
G32137-02
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Oracle FLEXCUBE Investor Servicing Open Development Tool Installation, Release 14.8.0.0.0

G32137-02

Contents

Preface

Oracle FLEXCUBE Investor Servicing is a comprehensive mutual funds automation software from Oracle® Financial Servicing Software Ltd.©.

You can use the system to achieve optimum automation of all your mutual fund investor servicing processes, as it provides guidelines for specific tasks, descriptions of various features and processes, and general information.

This topic contains the following sub-topics:

Purpose

This manual is designed to help FLEXCUBE Application developers/users to familiarize with ORACLE FLEXCUBE Development Workbench for Investor Servicing.

Audience

This document is intended for FLEXCUBE Application developers/users that use Development Workbench to develop various FLEXCUBE components.

To Use this manual, you need conceptual and working knowledge of the below:

Table 1 Proficiency and Resources

Proficiency	Resources
FLEXCUBE Functional Architecture	Training programs from Oracle Financial Software Services.
FLEXCUBE Technical Architecture	Training programs from Oracle Financial Software Services.
FLEXCUBE Object Naming Conventions	Development Overview Guide

Table 1 (Cont.) Proficiency and Resources

Proficiency	Resources
Working knowledge of Web based Applications	Self-Acquired
Working knowledge of Oracle Database	Oracle Documentations
Working knowledge of PLSQL developer	Respective vendor documents
Working knowledge of PLSQL and SQL Language	Self-Acquired
Working knowledge of XML files	Self-Acquired

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Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
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, text that appears on the screen, or text that you enter.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Prerequisite

Specify **User ID** and **Password**, and log in to **Home Screen**.

Related Resources

The functions of ORACLE FLEXCUBE Development Workbench for Investor Servicing system is organized into various guides, each discussing a component.

For more information, see these Open Development Tool documents:

- *Open Development Tool Installation*
- *Development Workbench - Getting Started*
- *Development Workbench - Administration*
- *Development Workbench - Screen Development I*
- *Development Workbench - Screen Development II*
- *Development Workbench - Screen Customizer*
- *Development Workbench - Notifications*
- *Development Workbench - Bulk Generation*
- *Development Workbench - Source Upgrade*
- *Development Workbench - Tracking Changes*
- *Child and Screen Childs - Concept and Design*
- *Development of Maintenance Form*
- *Development of Online Form*
- *Development of Call Form*
- *Development of Launch Forms and Other Screens*
- *Development of Dashboard Form*
- *Development Workbench Service XML Development*
- *Development Workbench Performance Tuning Enhancements*
- *Development Workbench - Rest Services Development*

1

Open Development Tool Installation

This topic explains about the creation of .war file using **Open Development Tool (ODT)** and setting up database for ODT installation.

This topic contains the following sub-topics:

- Installing Open Development Tool
  This topic describes the steps to install Open Development Tool application.
- Setting up Database for Open Development Tool
  This topic provides the systematic instructions to set up database for Open Development Tool.
- ODT Application Full Deployment
  This topic describes the steps to deploy Open Development Tool application in full deployment mode.

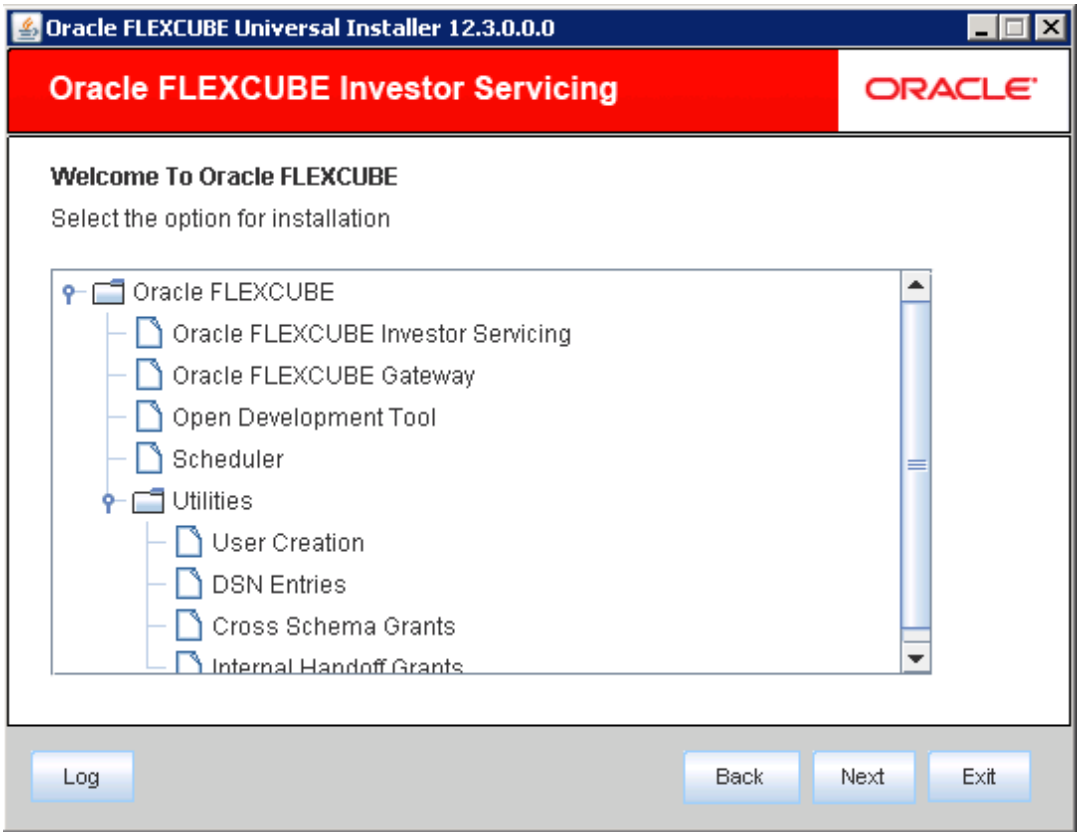
1.1 Installing Open Development Tool

This topic describes the steps to install Open Development Tool application.

To install ODT, follow the steps given below:

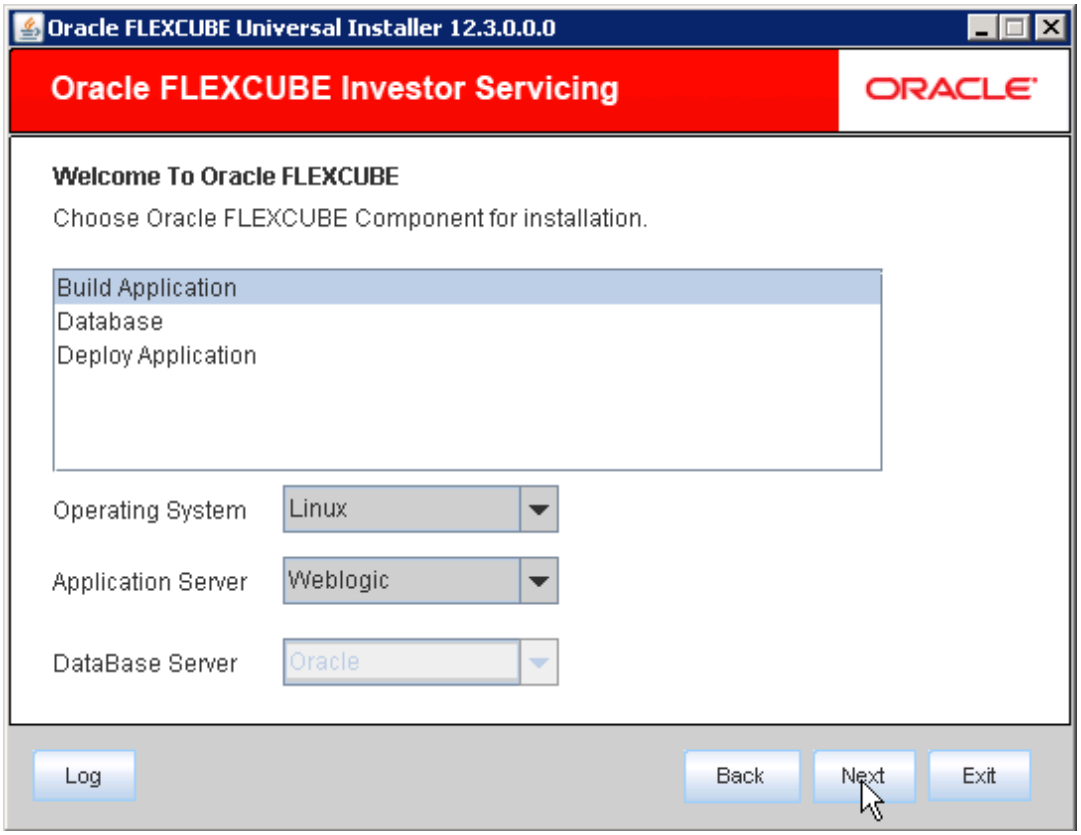
1. Run **FCUBSInstaller.bat** batch file to launch Oracle FLEXCUBE Investor Servicing Installer.
2. Click **Next** to select the option for installation.

   The following screen is displayed.



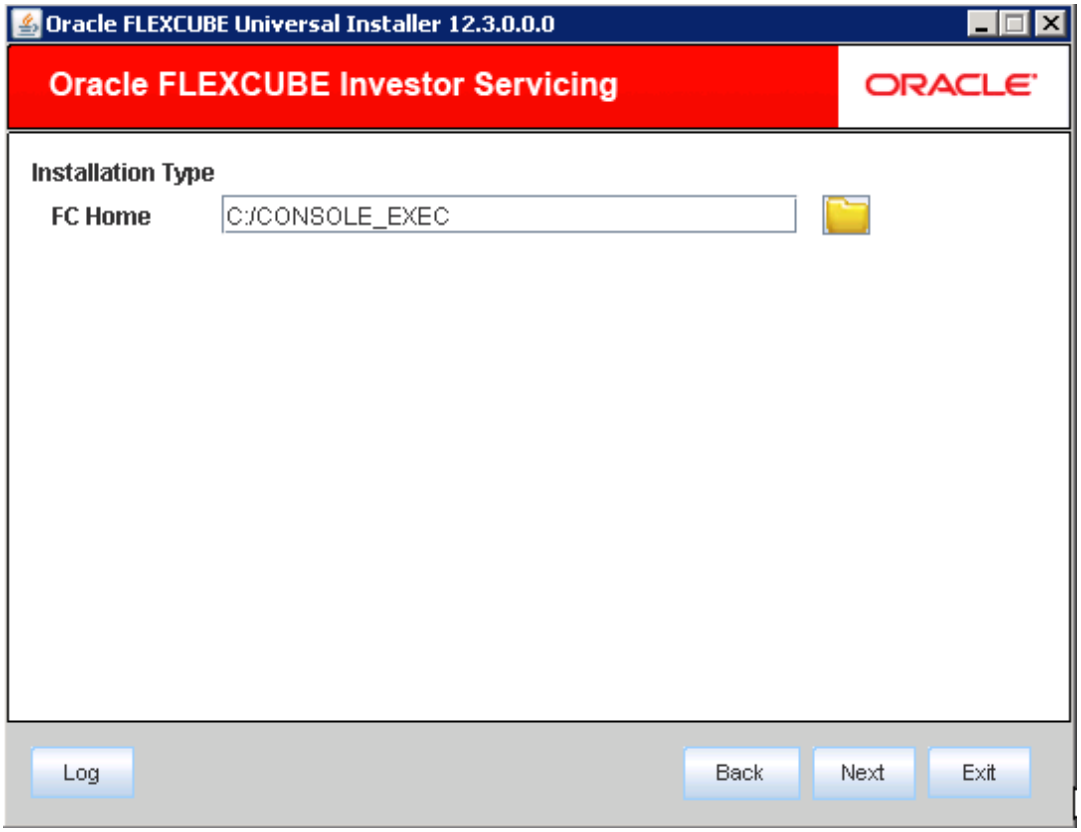
3. Click **Open Development Tool** and click **Next**.

   The following screen is displayed.



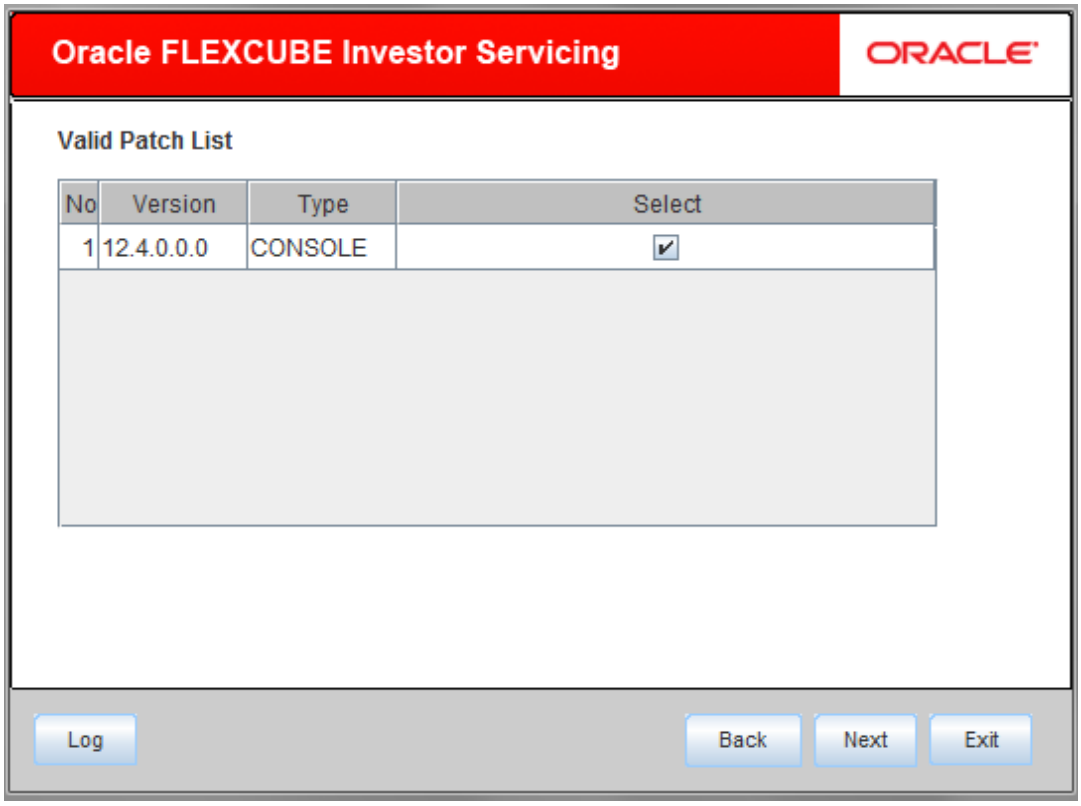
4. Select **Build Application** as Oracle FLEXCUBE component for installation.
5. Specify the following details.
   a. **Operating System:** Specify the operating system in which you are installing Oracle FLEXCUBE.
   b. **Application Server:** Specify the application server on which you are installing Oracle FLEXCUBE.
   c. **DataBase Server:** Specify the database server on which you are installing Oracle FLEXCUBE.
6. Click **Next**.

   The following screen is displayed.



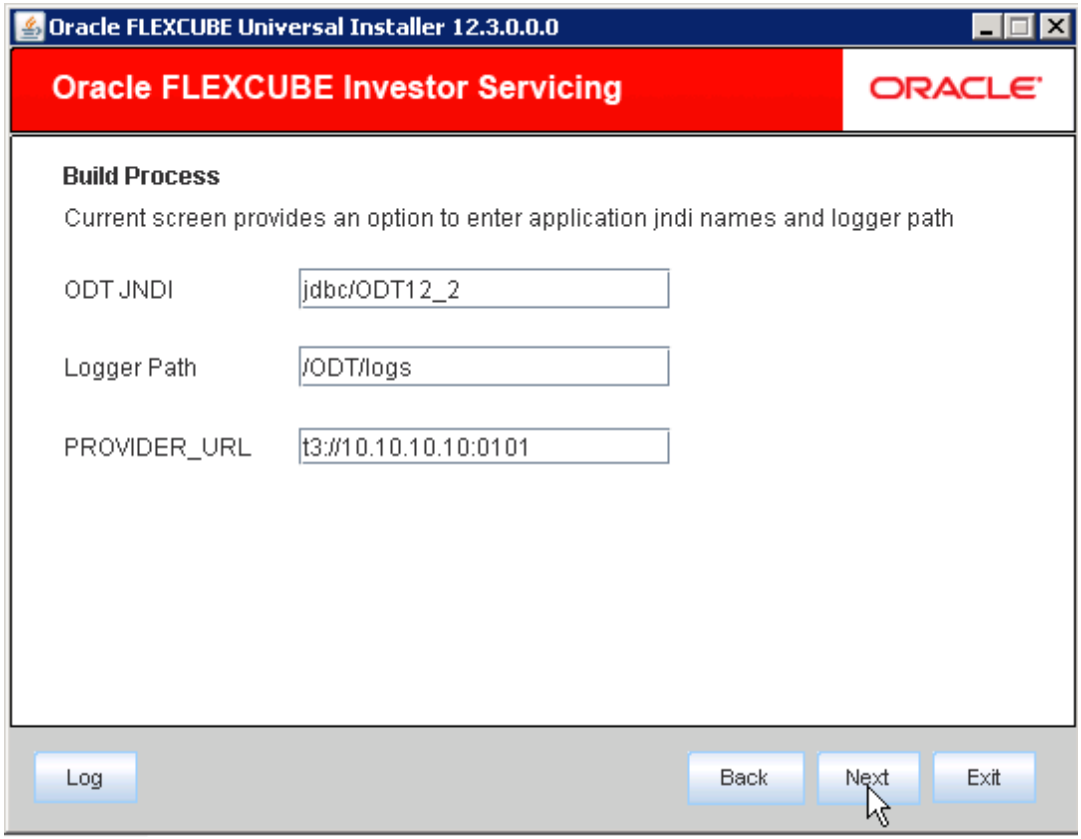
7. Specify the source directory. You can use the directory icon to browse to the directory location. The directory must contain FCHome. If the required folders are not present, then the error message is displayed and click **Next**. .

   The following screen is displayed:



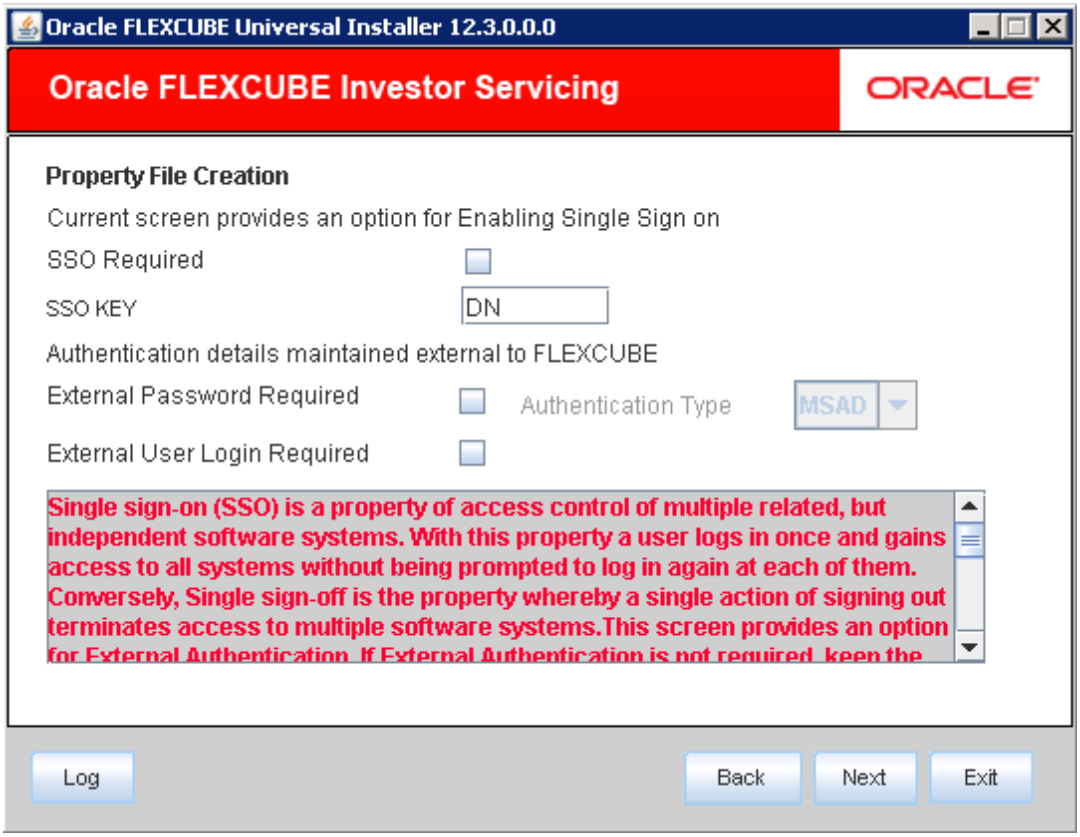
8. Select the Console type and click Next.

   The following screen is displayed.



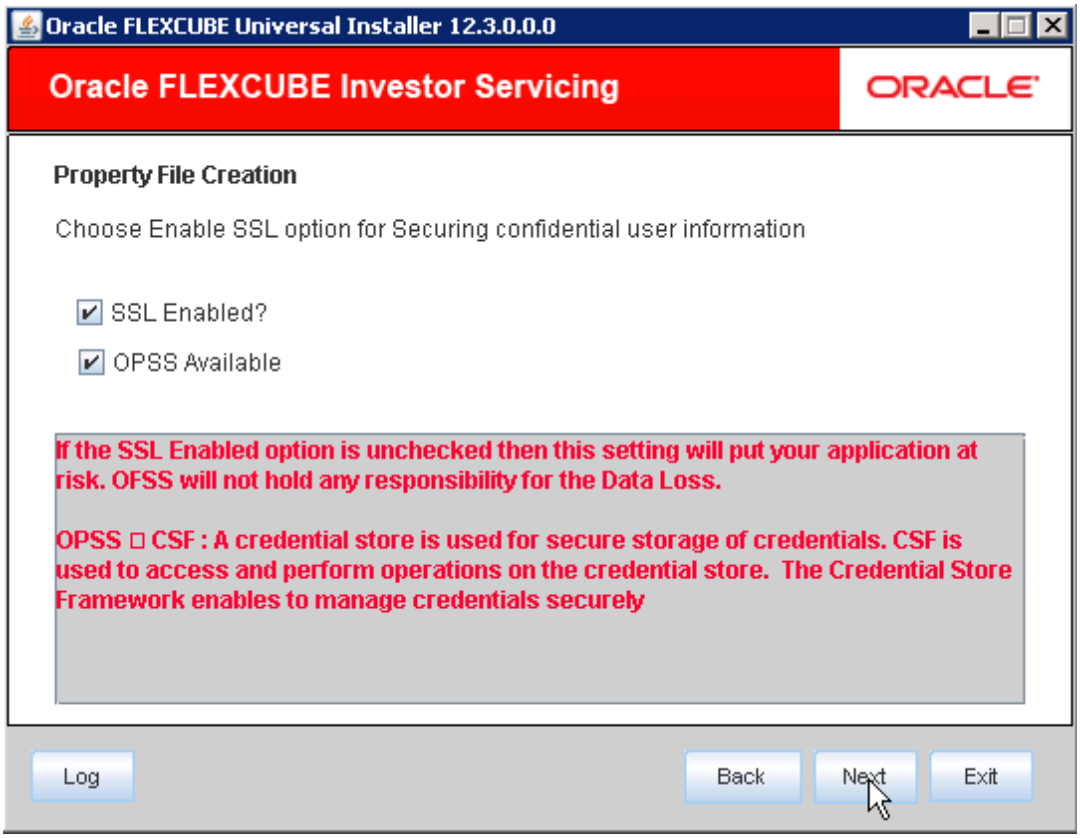
9. Specify the following details.
   a. **ODT JNDI:** Specify the JNDI for the ODT.
   b. **Logger Path:** Specify the path where the logs have to be written.
   c. **Provider_URL:** Specify the provider URL.
10. Click **Next**.

    The following screen is displayed.



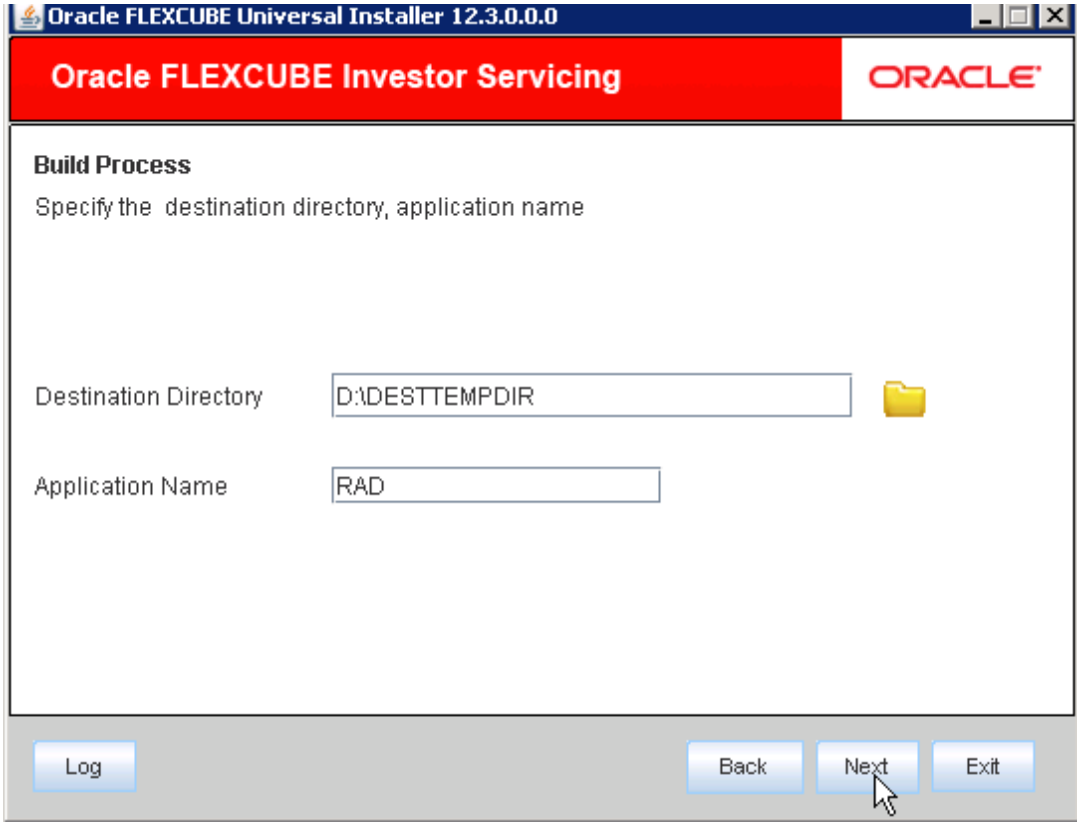
11. Set single sign on properties. Click **Next**.

    This is an external authentication window. If external authentication is not required, then uncheck all the options.



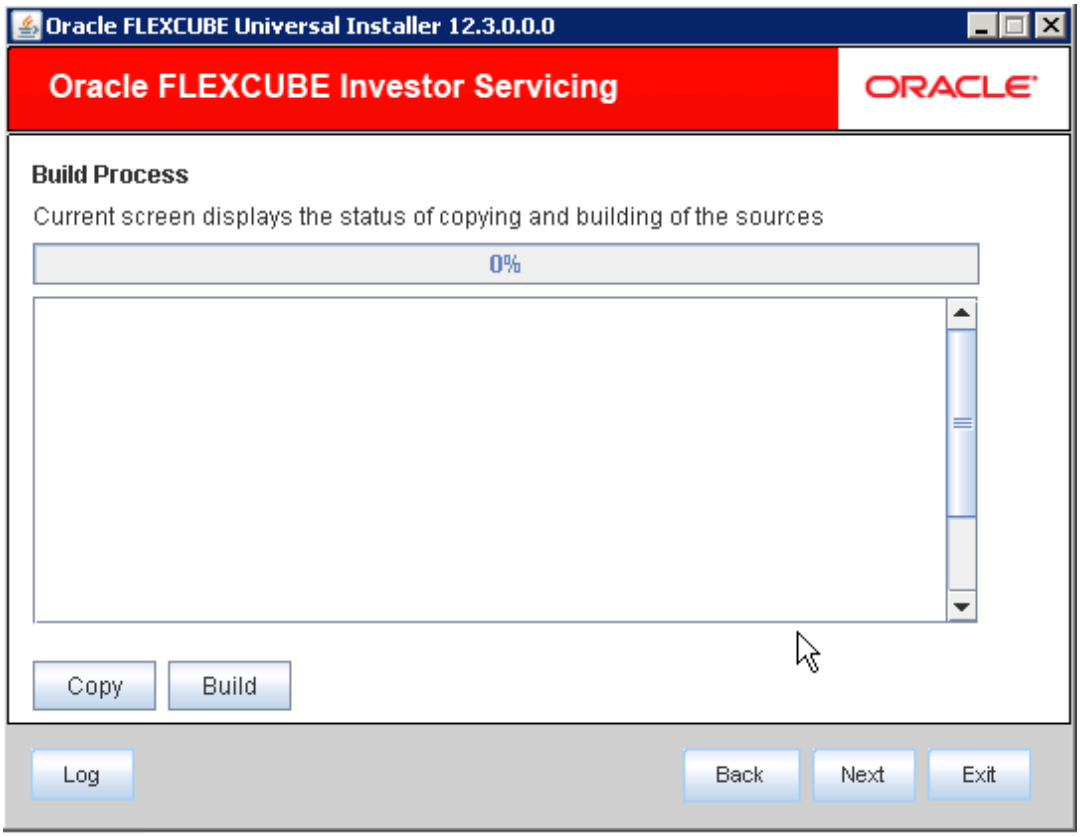
12. Enable SSL information and click **Next**.

The following screen is displayed.



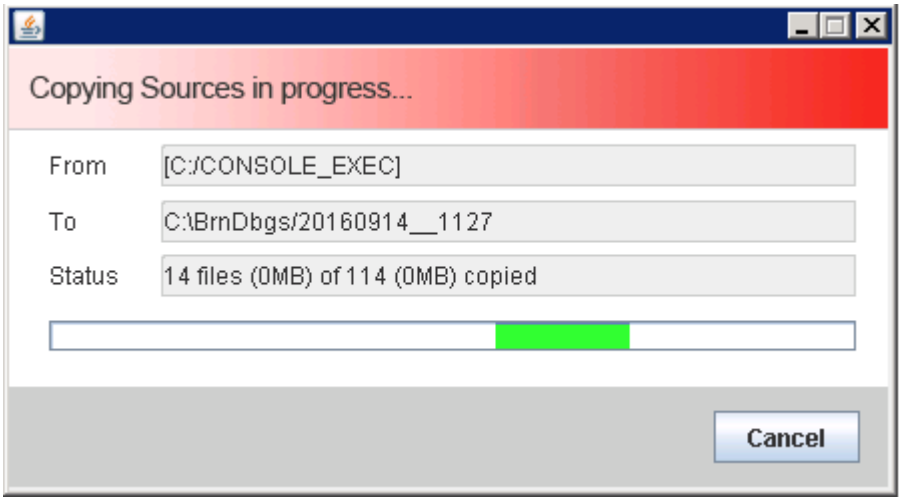
13. Specify the following details.
    a. **Destination Directory:** Specify the destination directory. You can use the directory icon to browse to the source directory location.
    b. **Application Name:** Specify the desired name for the application. For Example: RAD.
14. Click **Next**.

    The following screen is displayed.

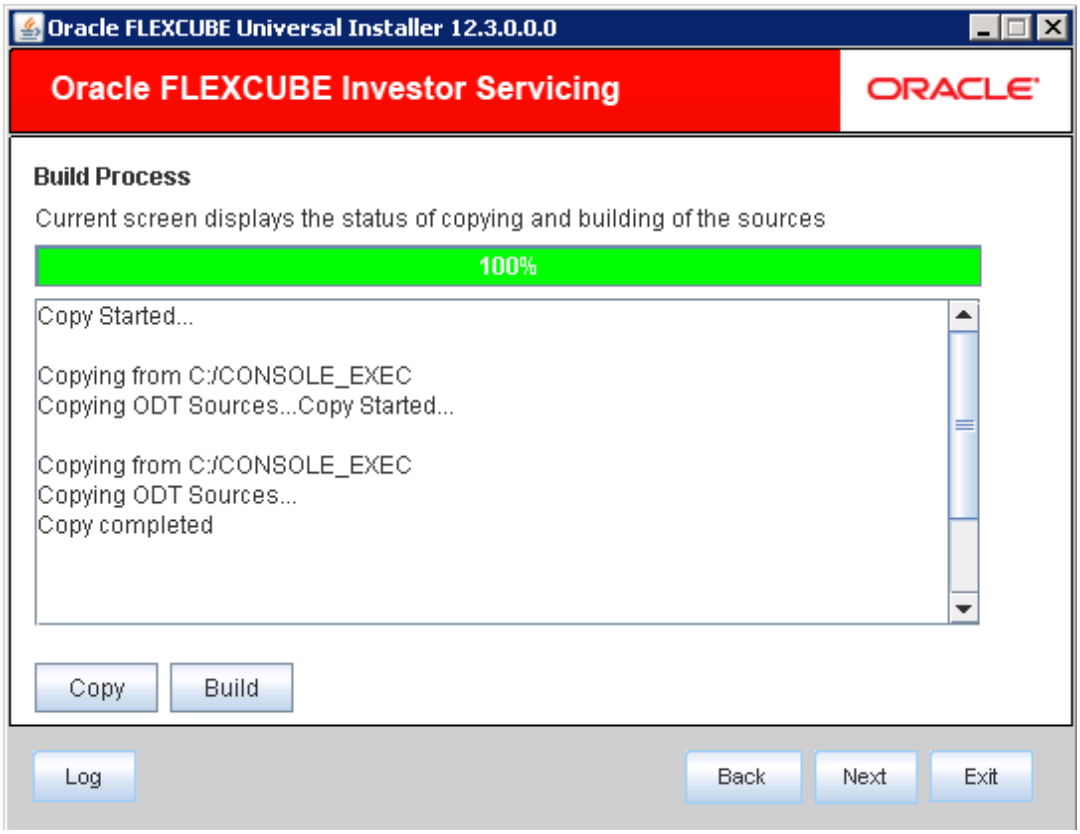


15. You can select all the source directories in this screen. The Installer will copy the sources from the multiple locations into the destination directory. You can have consolidated sources in the destination directory.
16. Click **Copy** button to copy sources to the destination location.

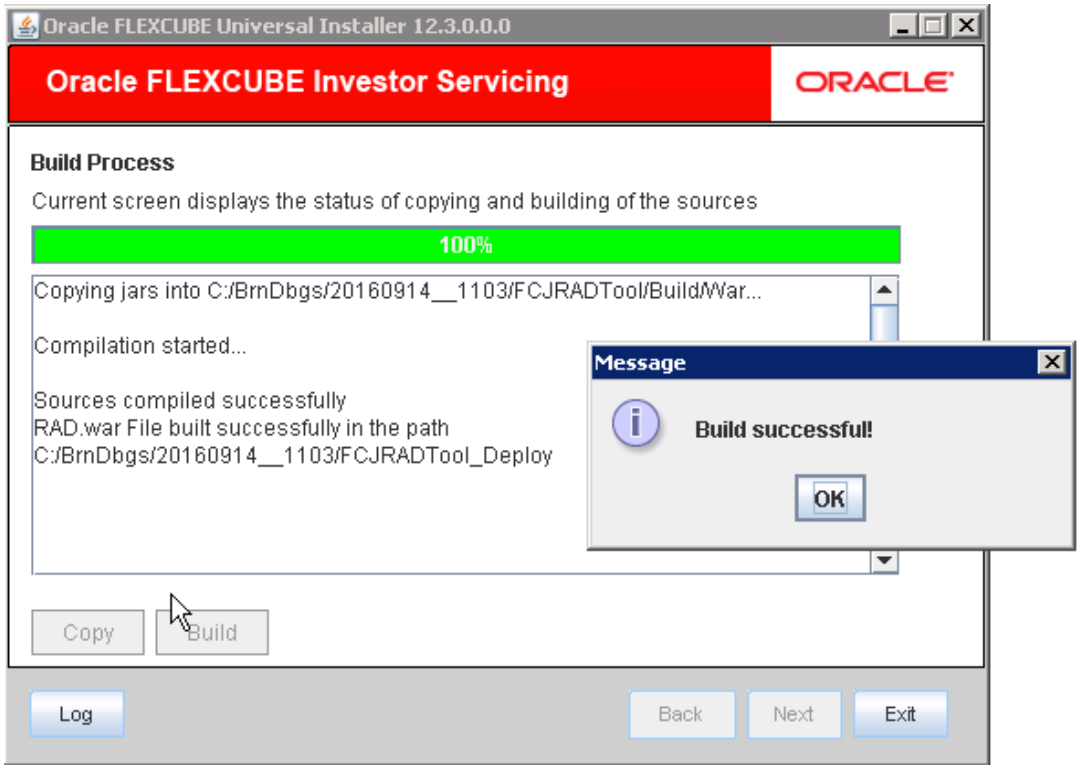
    The following screen is displayed.



Once the copying process is done, the following screen is displayed:

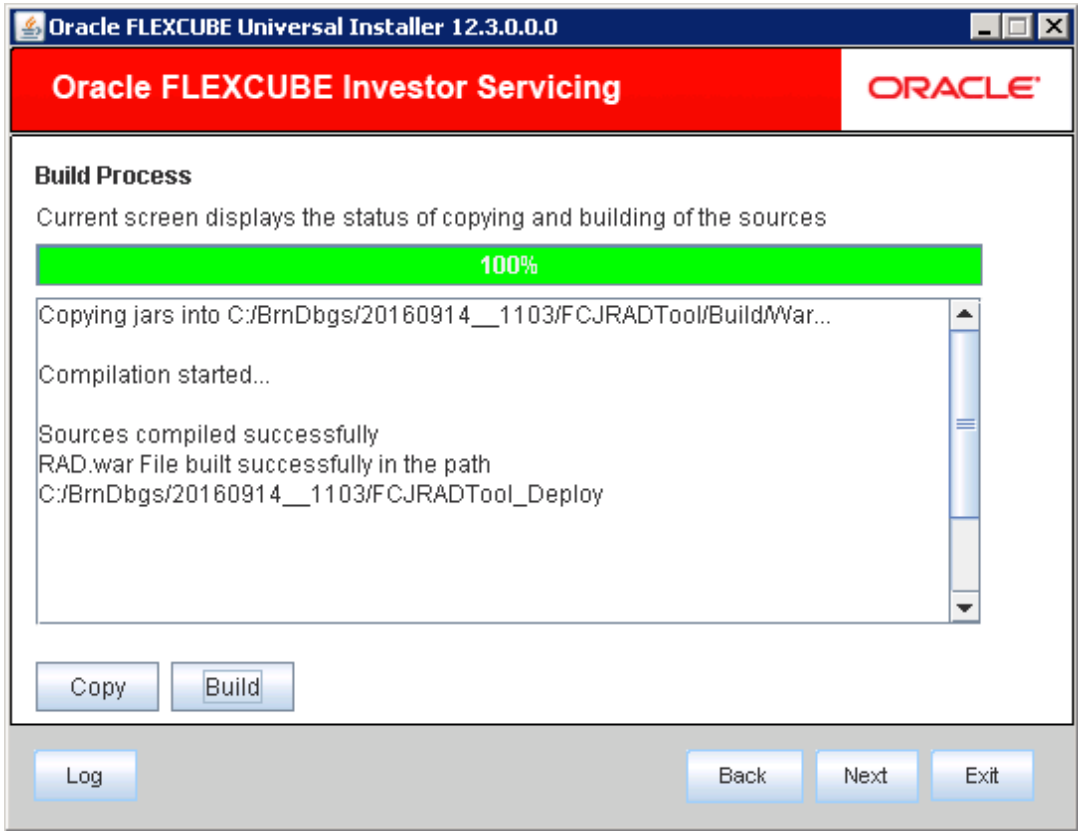


17. Click **Build** button to build the war file in the destination location.
18. The system displays the following screen when the copying is complete.



19. Click **OK**.

    The following screen is displayed.



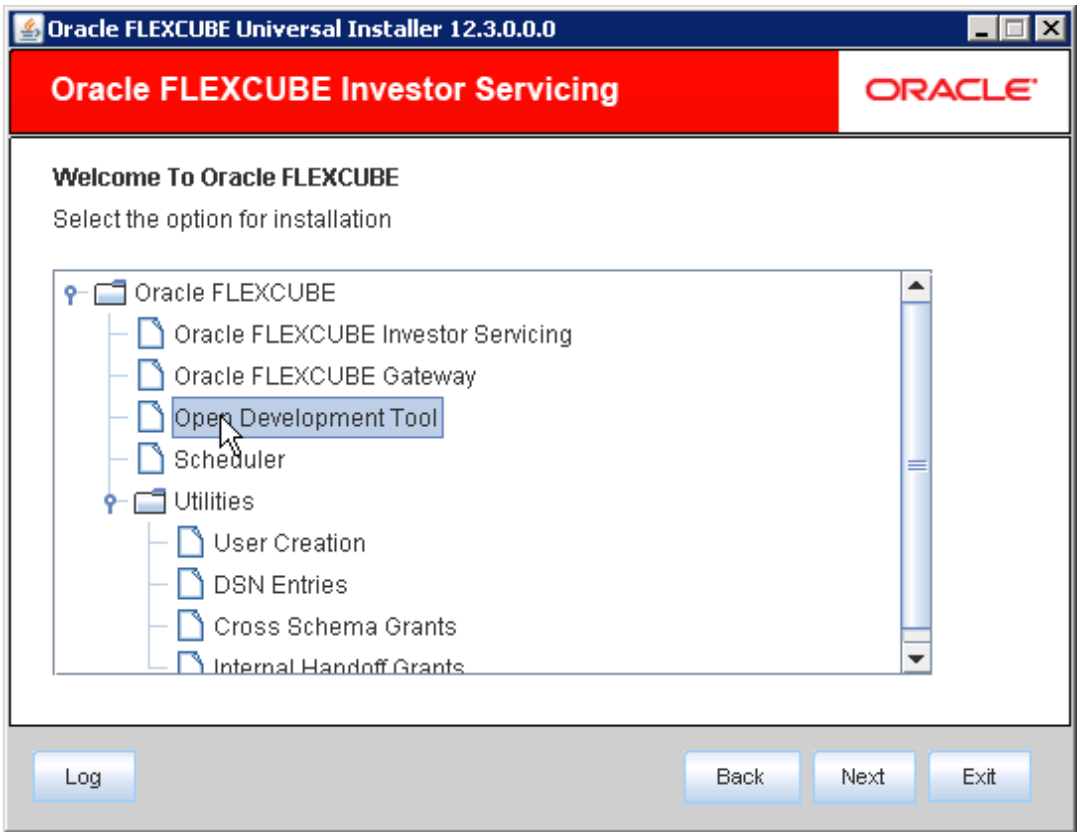
1.2 Setting up Database for Open Development Tool

This topic provides the systematic instructions to set up database for Open Development Tool.

To set up database for Open Development Tool (ODT), follow the steps given below:

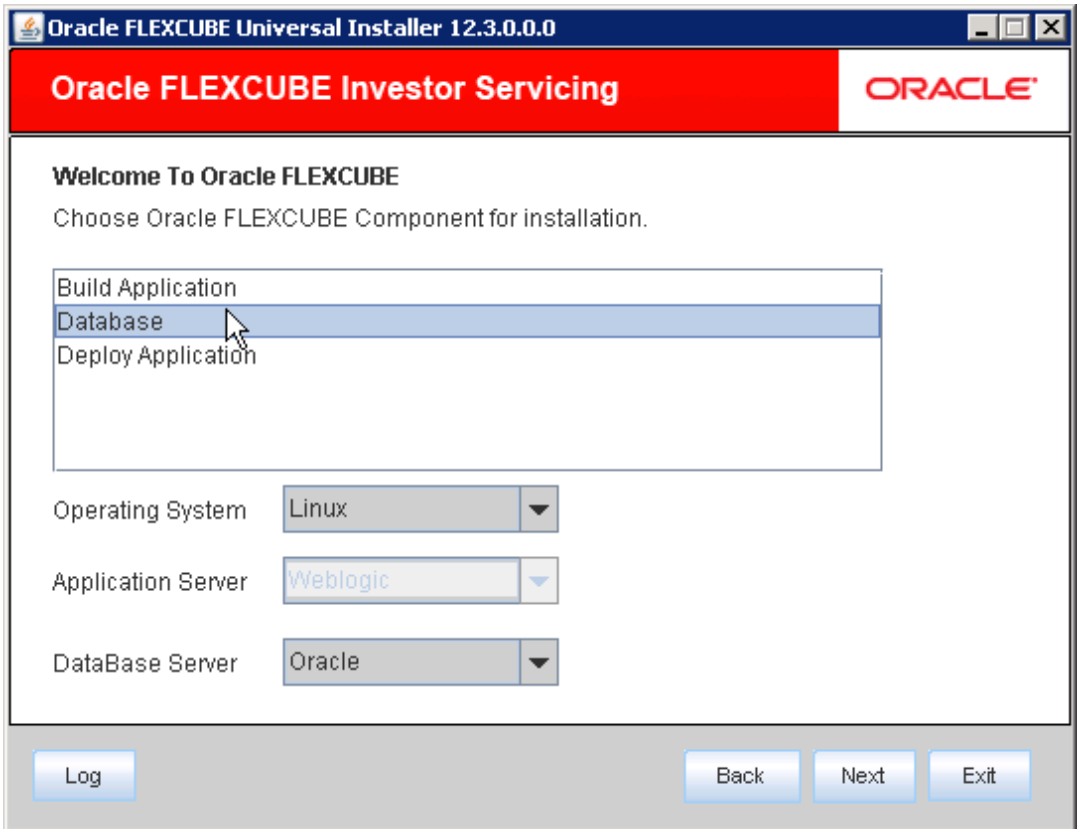
1. **Run** FCUBSInstaller.bat batch file to launch **Oracle FLEXCUBE Investor Servicing Installer**.
2. Click **Next**.

   The following screen will be displayed.



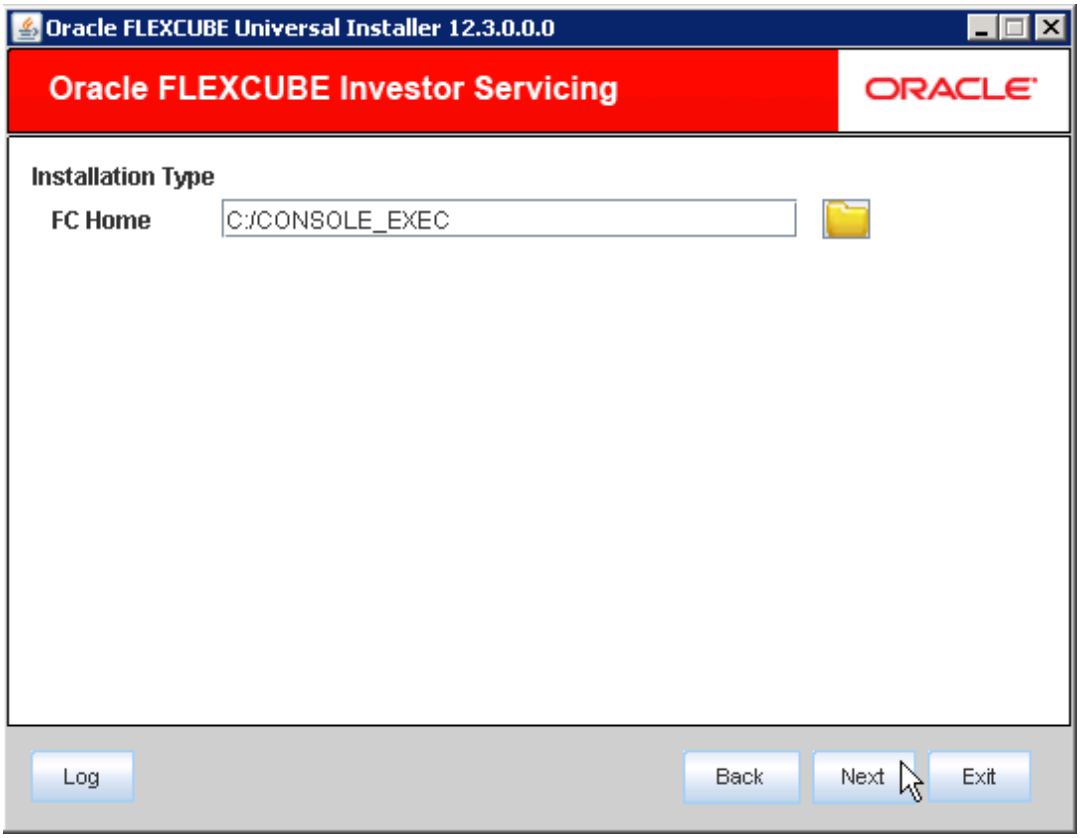
3. Click **Open Development Tool**.
4. Click **Next**.

   The following screen is displayed.



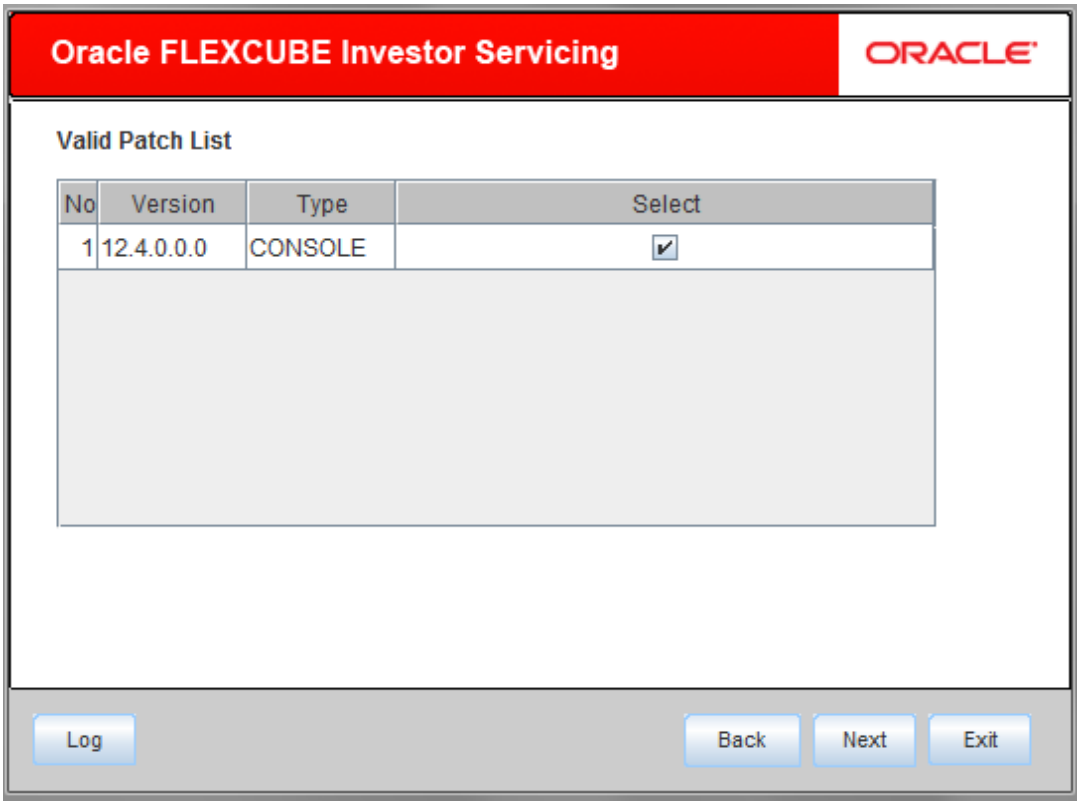
5. Select **Database** as Oracle FLEXCUBE component for installation.
6. Specify the following details.
   a. **Operating System:** Specify the operating system in which you are installing Oracle FLEXCUBE.
   b. **Database Server:** Specify the database server on which you are installing Oracle FLEXCUBE.
7. Click **Next**.

   The following screen is displayed.



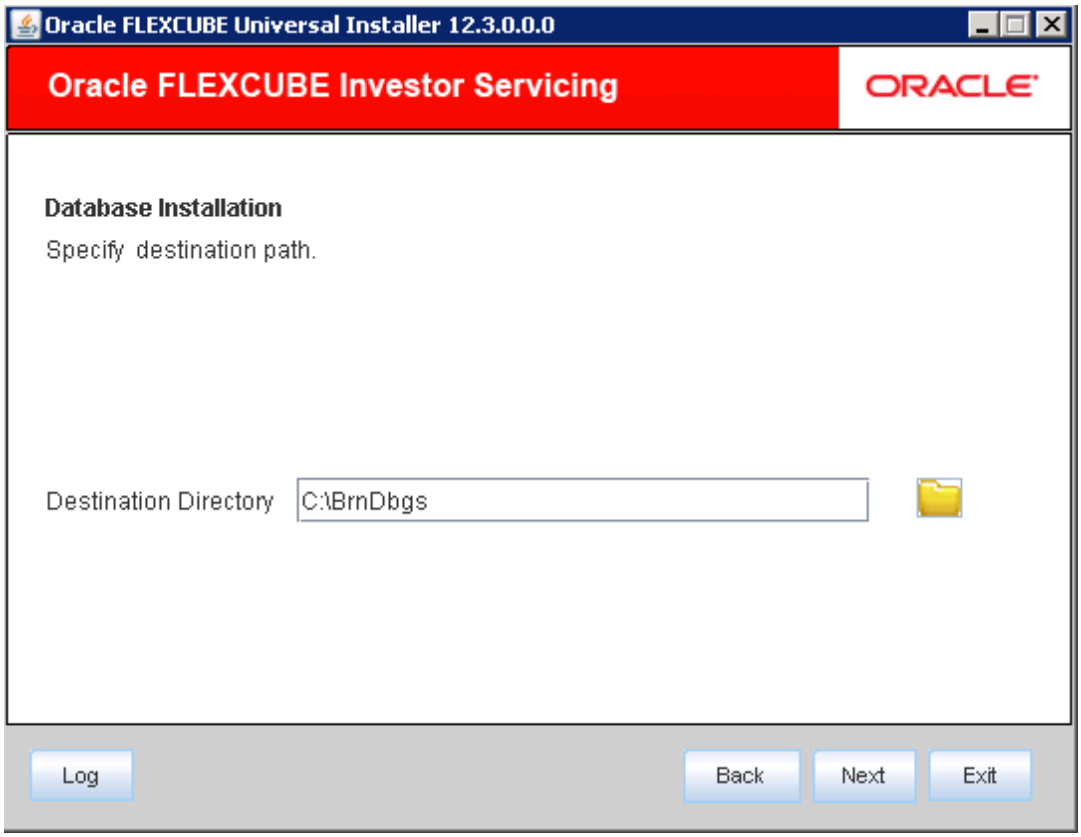
8. Browse for Console_EXEC folder and click **Next**.

   The following screen is displayed.



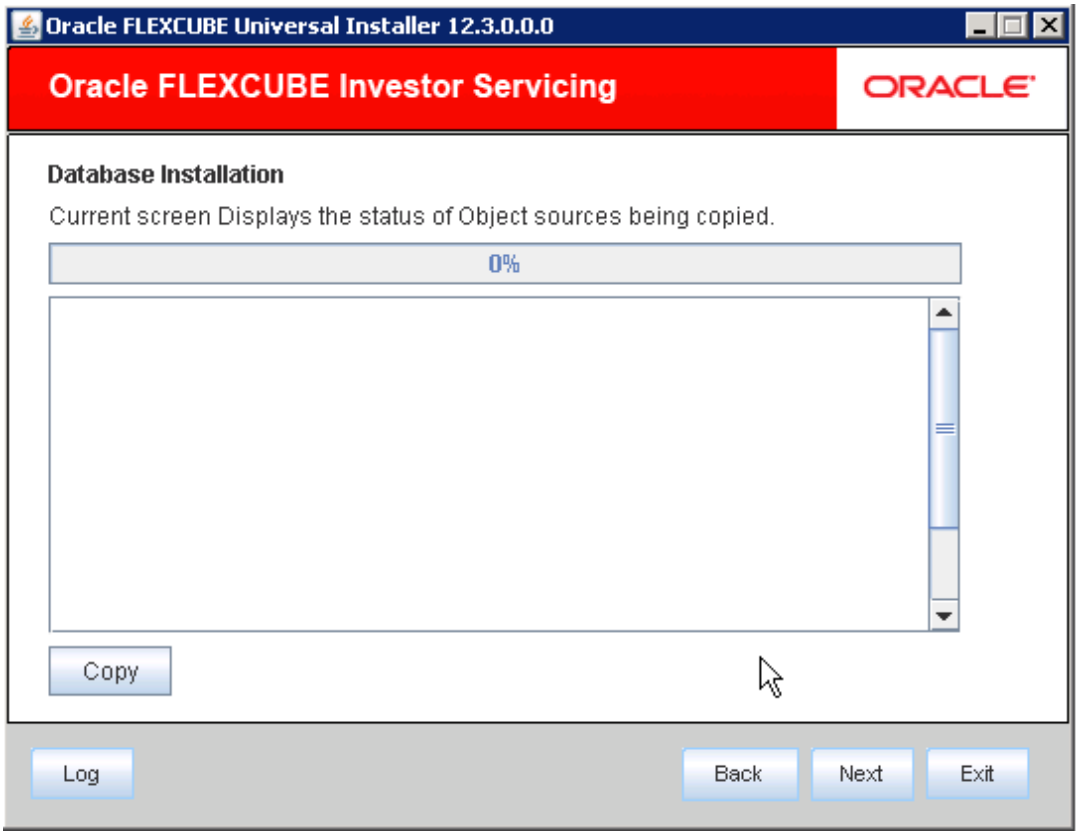
9. Select the console type and select **Next**.

   The following screen is displayed.



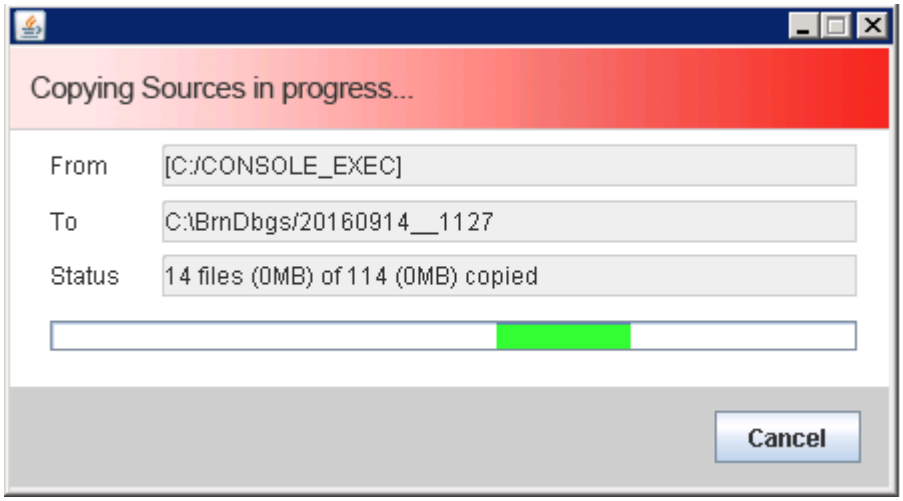
10. Specify the destination directory. You can use the directory icon to browse to the source directory location.

    The following screen is displayed.



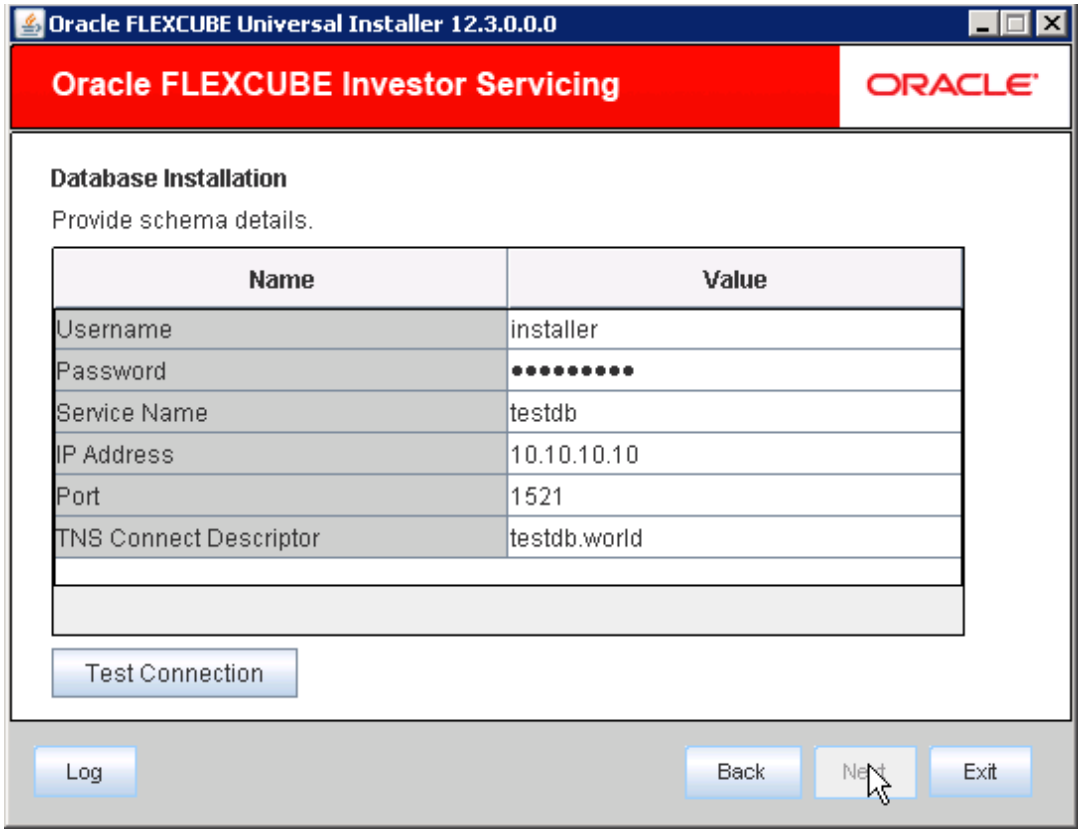
11. Click **Copy**.

    The following screen is displayed.



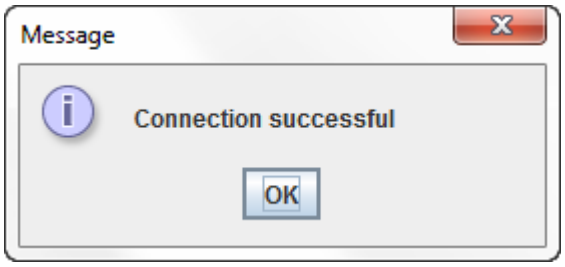
12. Click **Copy** to copy the source from source directory to the destination directory.

    Once the source is copied, the following screen is displayed.



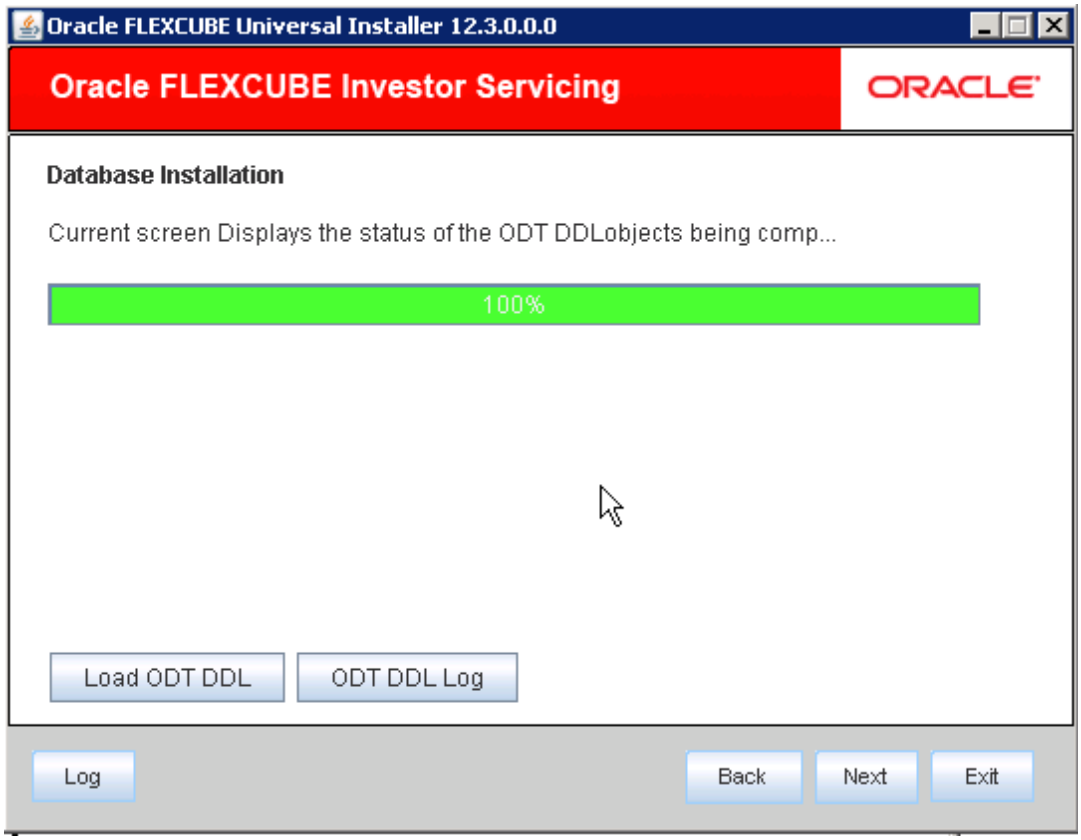
13. Specify the following schema details:
    a. **User Name:** Specify the user name to access the schema.
    b. **Password:** Specify the schema password for the above user name.
    c. **Service Name:** Specify service name of database.
    d. **IP Address:** Specify the IP address of the system where the database schema is installed.
    e. **Port:** Specify the port number.
    f. **TNS Connect Descriptor:** Specify a valid connect string that contains the details for database connectivity.
14. Once you have specified the details, click **Test Connection** button to test the database schema connection.

    The below message is displayed if the connection is established successfully.



15. Click **Next**.

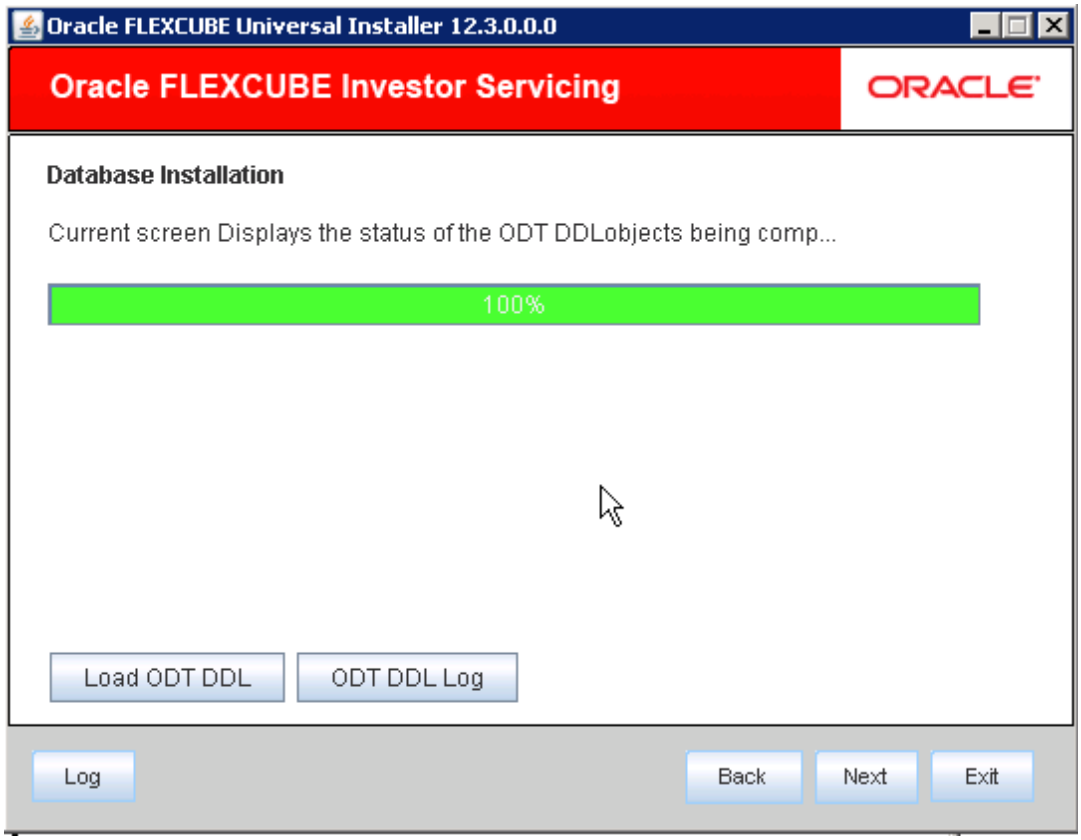
The following screen is displayed.



16. Click **Load ODT DDL** button to start compiling.

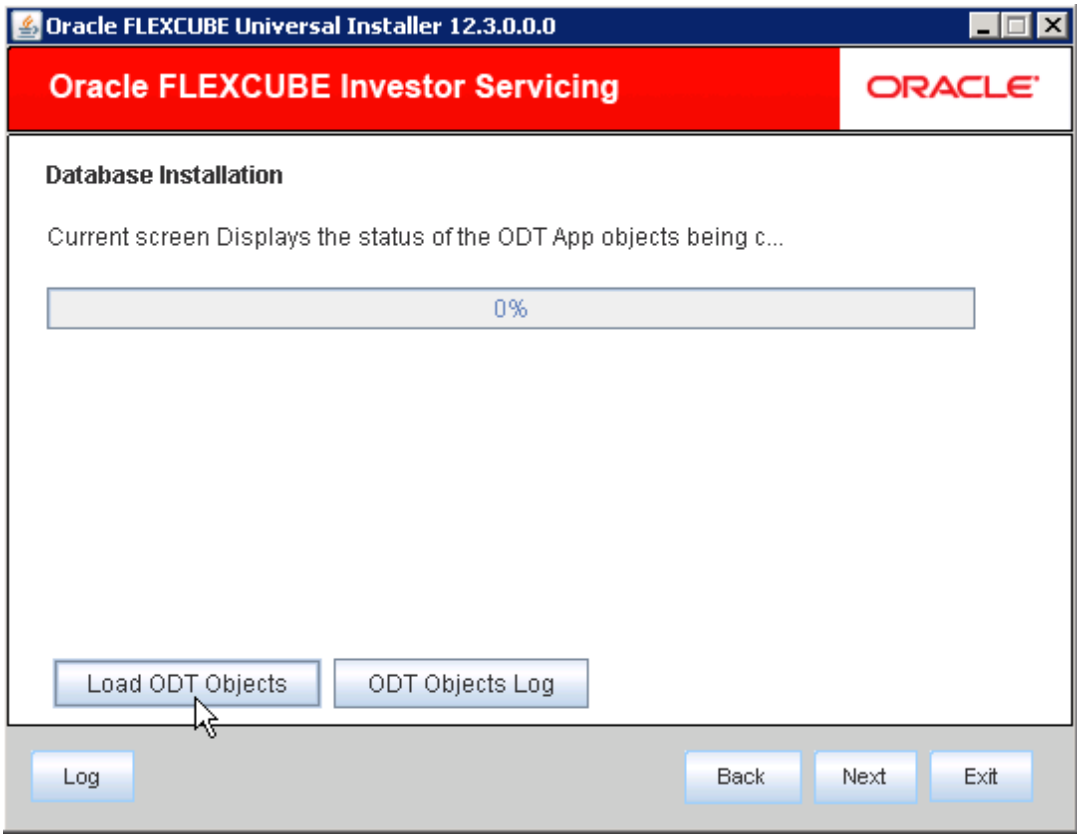
    You can verify the DDL objects compilation by comparing the current count and the release count. The release count is the number of files in the temporary folder to which the files are copied.

    The objects **Type**, **Table**, and **Sequence** will be compiled and the count will be updated.



17. Click **ODT DDL Log** to see the log.
18. Click **Next**.

    The following screen is displayed.



19. Click **Load ODT Objects** button to compile APP objects. The installer loads the functions, procedures, views, triggers and packages as per your selection and compiles them.

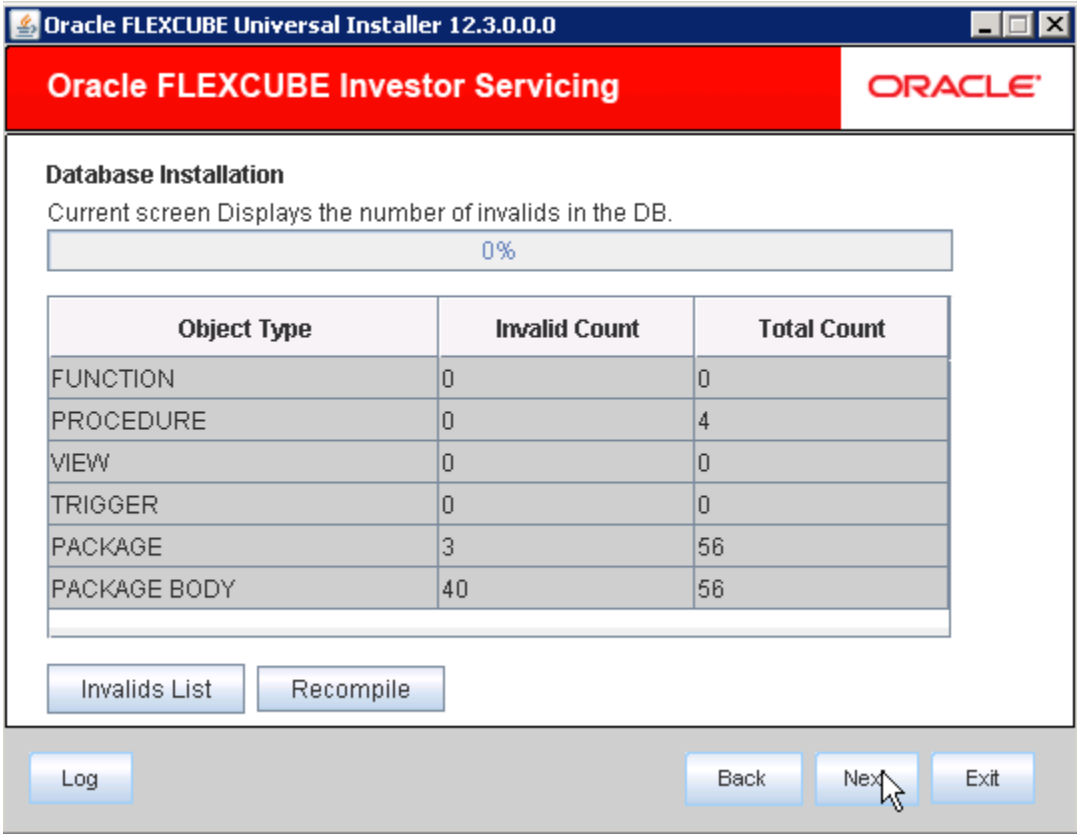
    You can verify the application objects compilation by comparing the count shown in this screen with the release count.

20. Click **ODT Objects Log** to view the log.

    The log file **LoadODTObj.log** will be available in the destination directory under the folder **DBLogs**.

21. Click **Next**.

    The following screen is displayed.



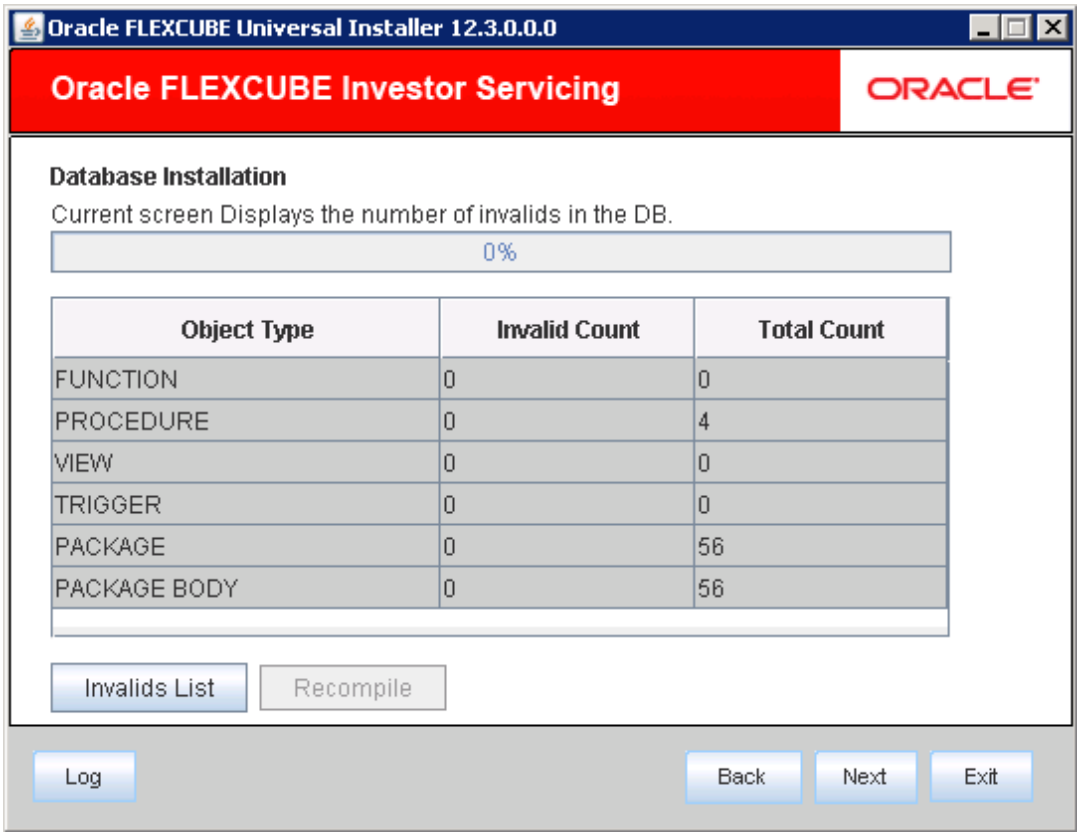
22. Click **Invalids List** button to view the count of invalid objects in the database.

    You can view the file **InvalidList.txt** created by the installer in the destination directory under the folder **DBLogs**.

23. Click **Recompile** to recompile any invalid objects if present.

    This reduces the invalid object count. The Installer allows **Recompile** multiple times in order to reduce the invalid objects count.

    The following screen is displayed on successful recompilation of ODT Objects.



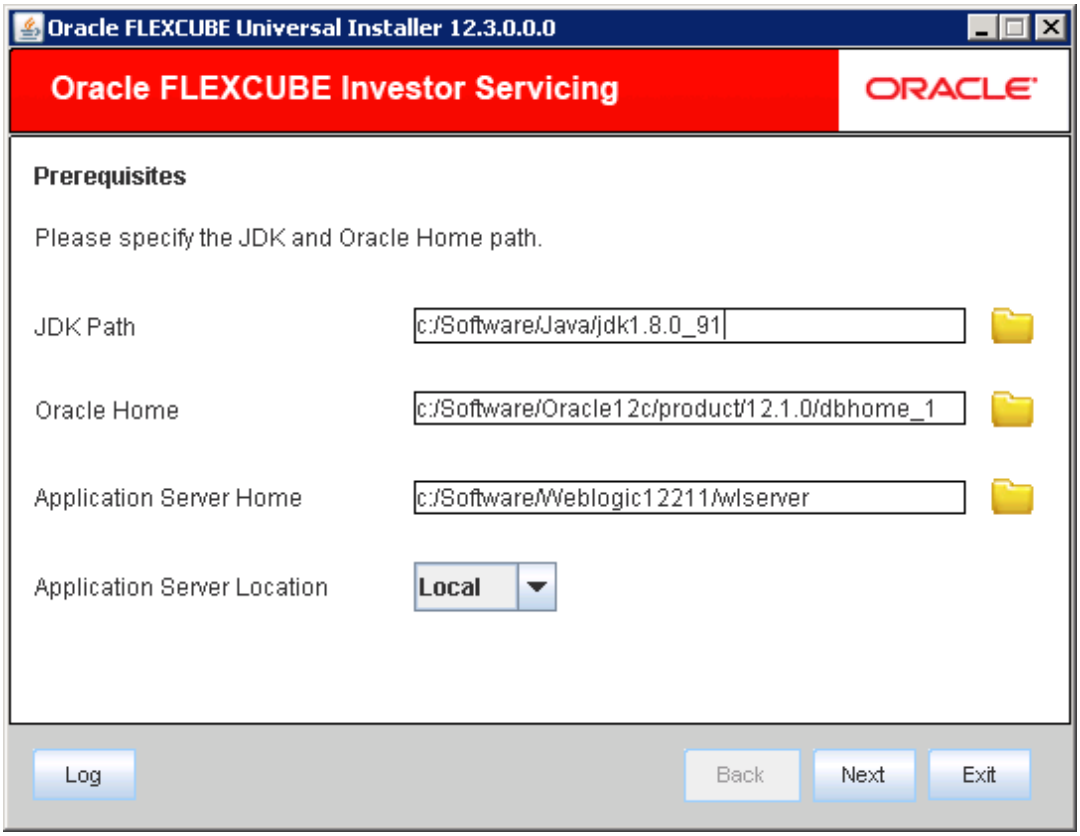
1.3 ODT Application Full Deployment

This topic describes the steps to deploy Open Development Tool application in full deployment mode.

1. Start **Oracle FLEXCUBE Universal Installer**.

   The **Oracle FLEXCUBE Universal Installer** is displayed.

Figure 1-1 Oracle FLEXCUBE Universal Installer



2. On **Oracle FLEXCUBE Universal Installer** screen, enter the following details.

   Refer to the table for JDK and Oracle Home path.

Table 1-1 JDK and Oracle Home path

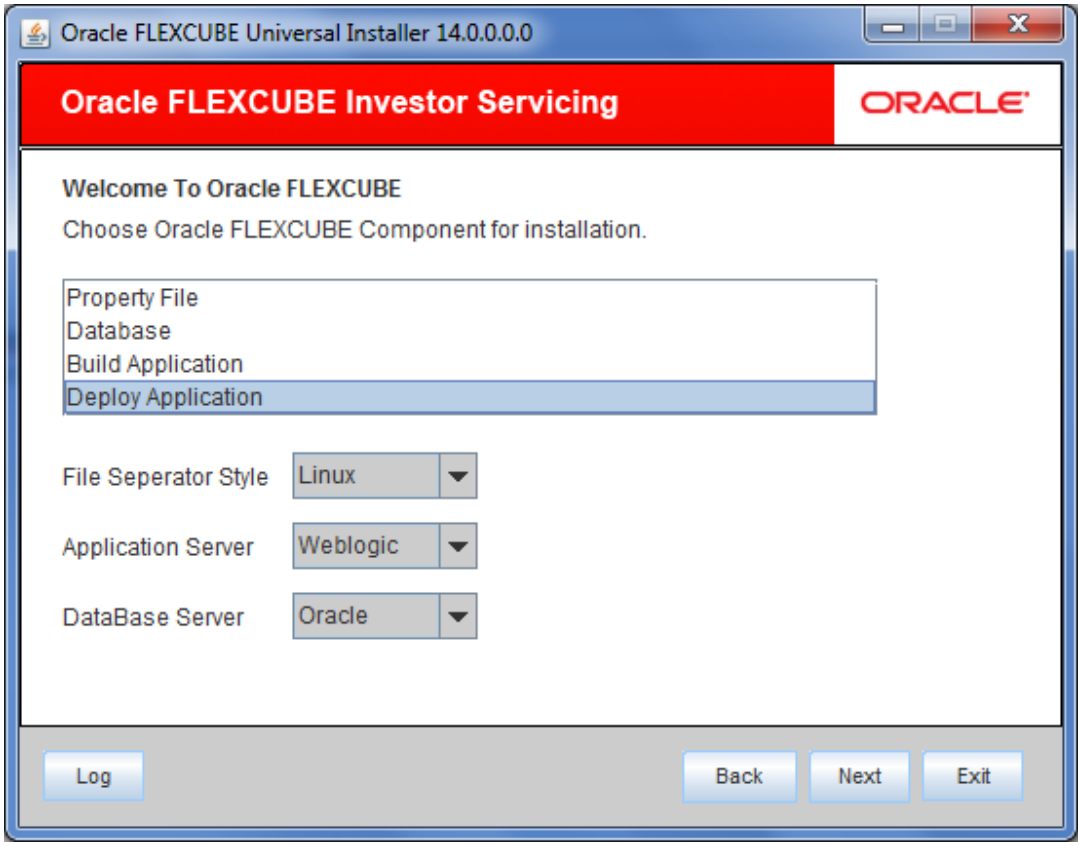
Field	Description
JDK Path	Provide Home folder path of JDK1.8.
Oracle Home	Provide home folder path of Oracle Client or Database.
Application Server Home	Provide home folder path of Application Server.
Application Server Location	Select location of the application server either local or remote.

3. Click **Next** to select the option for installation.
4. Select **Open Development Tool** from the lists of **Oracle FLEXCUBE** options.

   The available options for installation are displayed.
5. Click **Next** to choose **Oracle FLEXCUBE** component for installation.
6. Select **Deploy Application**.

   The available options **Property File**, **Database**, **Build Application**, and **Deploy Application** are displayed.

Figure 1-2 Oracle FLEXCUBE Component for Installation in Full Deployment



7. Select the appropriate operating system from the **File Seperator Style** drop-down.
8. Choose **Weblogic** from the **Application Server** drop-down.
9. Select the appropriate **DataBase Server** from the drop-down and click **Next**.
10. Specify Server details to connect to the server and click **Next**.

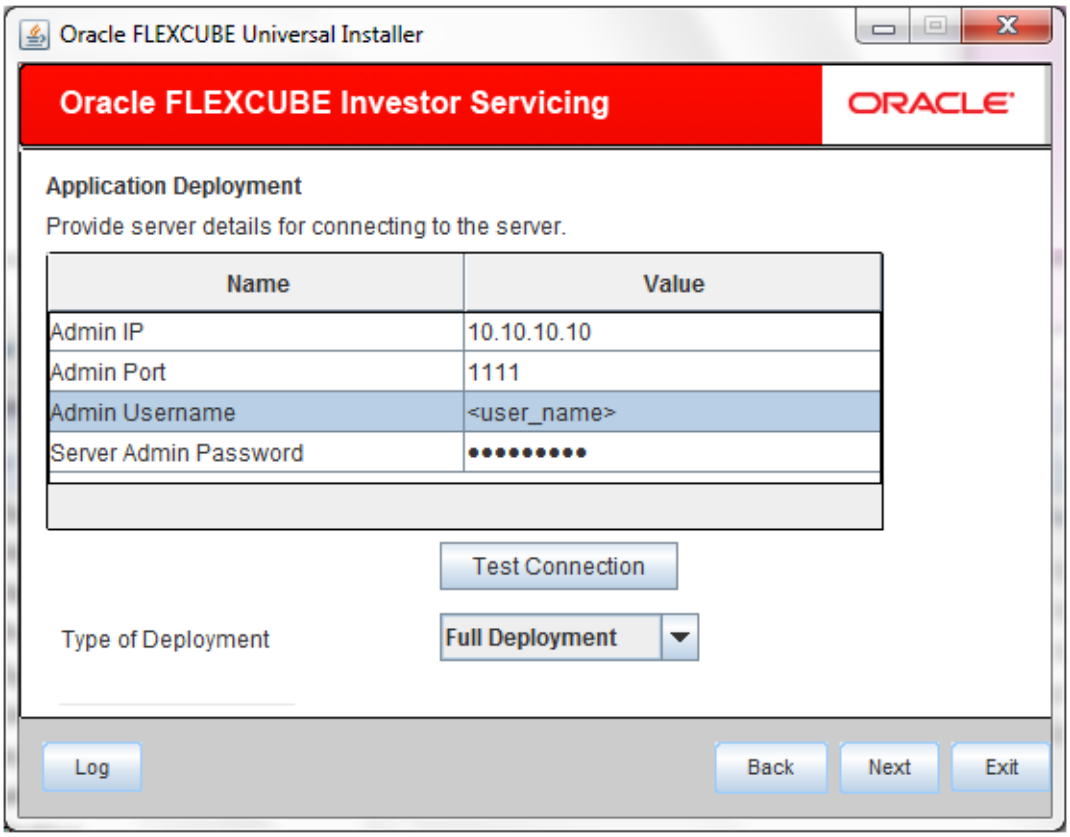
    Refer to the table for server details.

Table 1-2 Server details

Field	Description
Admin IP	Provide host address of Admin server.
Admin Port	Provide port number of Weblogic server.
Admin UserName	Provide the appropriate Admin Username of the Weblogic Application server.
Admin Password	Provide the appropriate Admin Password of the Weblogic Application server.
Type of Deployment	Choose **Full Deployment**.

The following screen is displayed.

Figure 1-3 Server Details for Full Deployment



11. Click **Test Connection** to test the connection with the Application server.

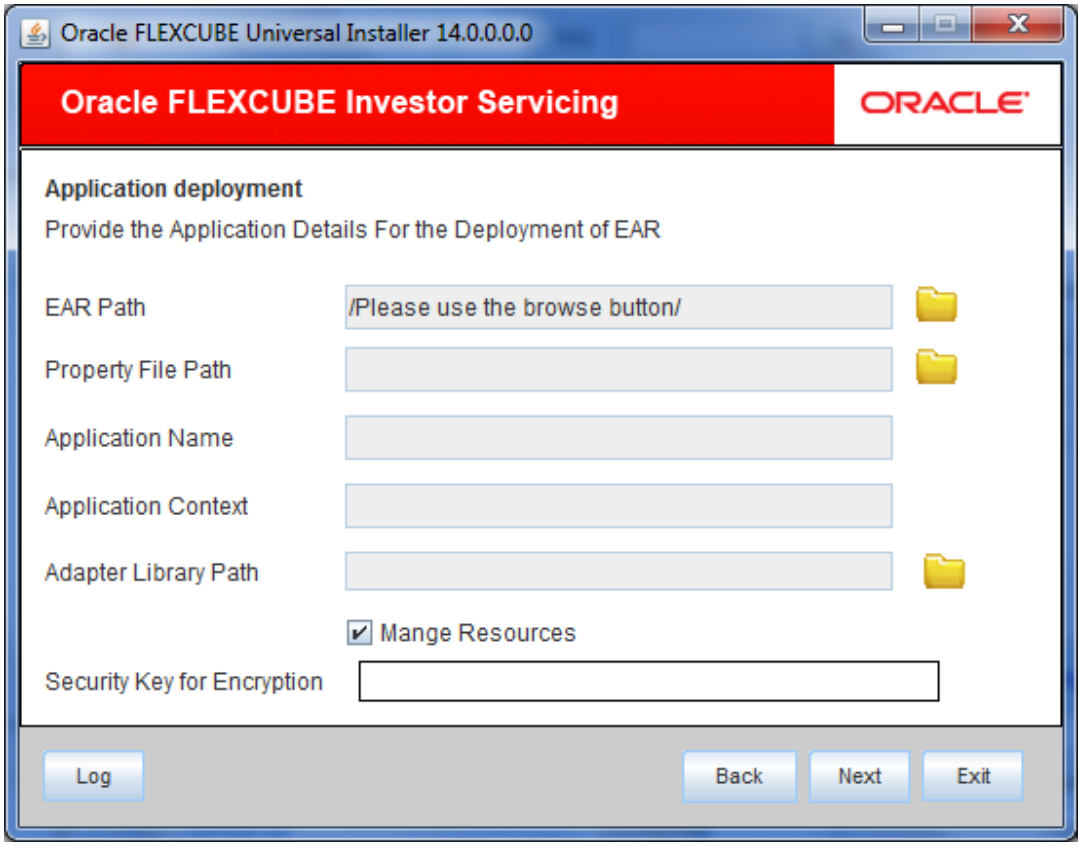
    On successful connection, the following message is displayed.

Figure 1-4 Information Message on Successful Connection

12. Click **Ok** and click **Next** in the installer.

    The following screen is displayed.

Figure 1-5 Application Details for Full Deployment



13. Specify Application details to deploy the EAR.

    Refer to the table for Application details.

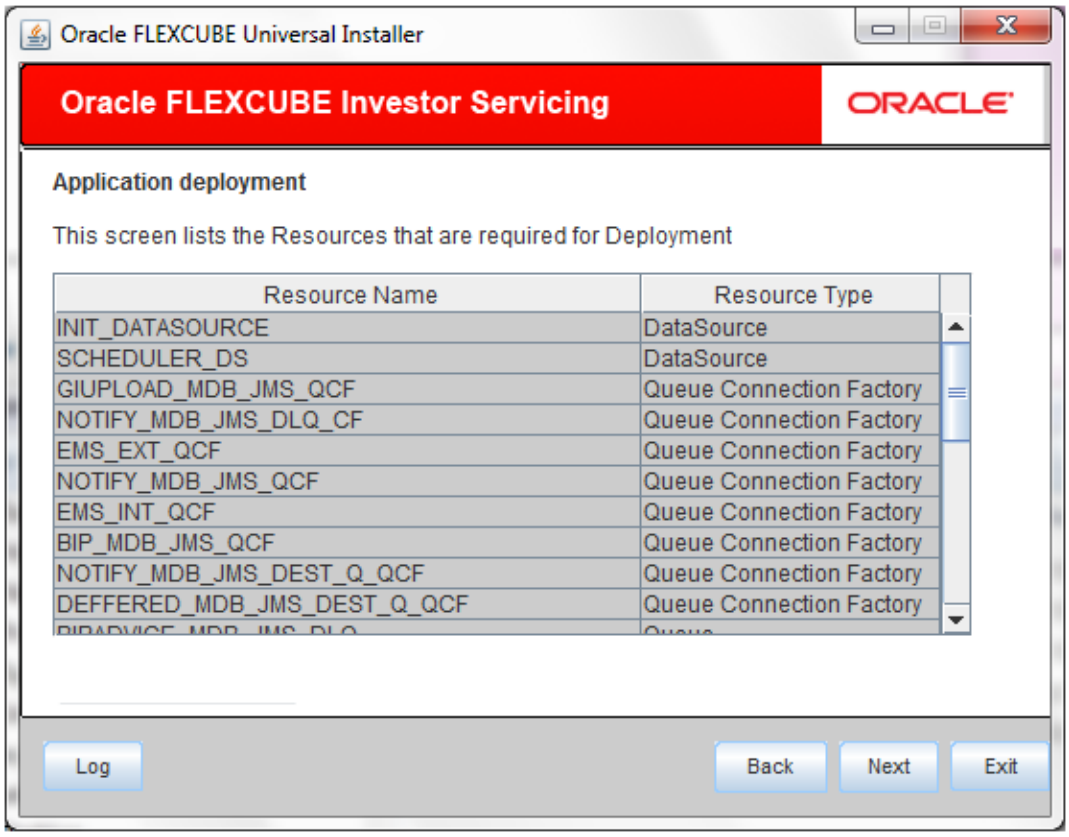
Table 1-3 Application details

Field	Description
EAR Path	Select the application EAR to be deployed using the **Browse** button. **Note**: The Application EAR path cannot be copied and pasted on to the text box, thereby demanding the use of the **Browse** button to select the EAR.
Property File Path	Select the appropriate path to the external properties file. If the properties file is internal to the application EAR, it would be fetched on selection of the EAR and will be in a non-editable state.
Application Name	Selection of the EAR would fetch the Application Name and it will be in a non-editable state.
Application Context	Selection of the EAR would fetch the Application Context and it will be in a non-editable state.
Adapter Library Path	Selection of the EAR would fetch the Application Library Path and it will be in a non-editable state.
Manage Resources	Select this box if resources are to be created along with deployment.

14. Click **Next**. If **Manage Resources** is not checked, you can continue to provide Server Environment details for deployment.
15. Select **Manage Resources** box if resources are to be created along with deployment.

The screen provides a read only list of resources.

Figure 1-6 Resources lists



16. Specify the resource details that are required for deployment.

    Refer to the table for resource details.

Table 1-4 Resource details

Field	Description
Resource ID	Specify **Resource ID**. Also, you can select the resource from a list of data sources maintained and update the details.
DataSource Driver	Specify the **JDBC driver URL** with which the connection is to be established. Ex: oracle.jdbc.OracleDriver for Non-XA datasources
DataSource Type	Specify the type of datasource that is to be created, XA or Non-XA.
Schema Username	Specify the username of the schema to which the connection is to be established.
Schema Password	Specify the password of the schema.
IP Address	Specify the host address of the schema.
Port Number	Specify the port number of schema.
Service Name	Specify the service name of schema.
Initial Capacity	It is the number of physical connections that can be created when creating the connection pool in the data source

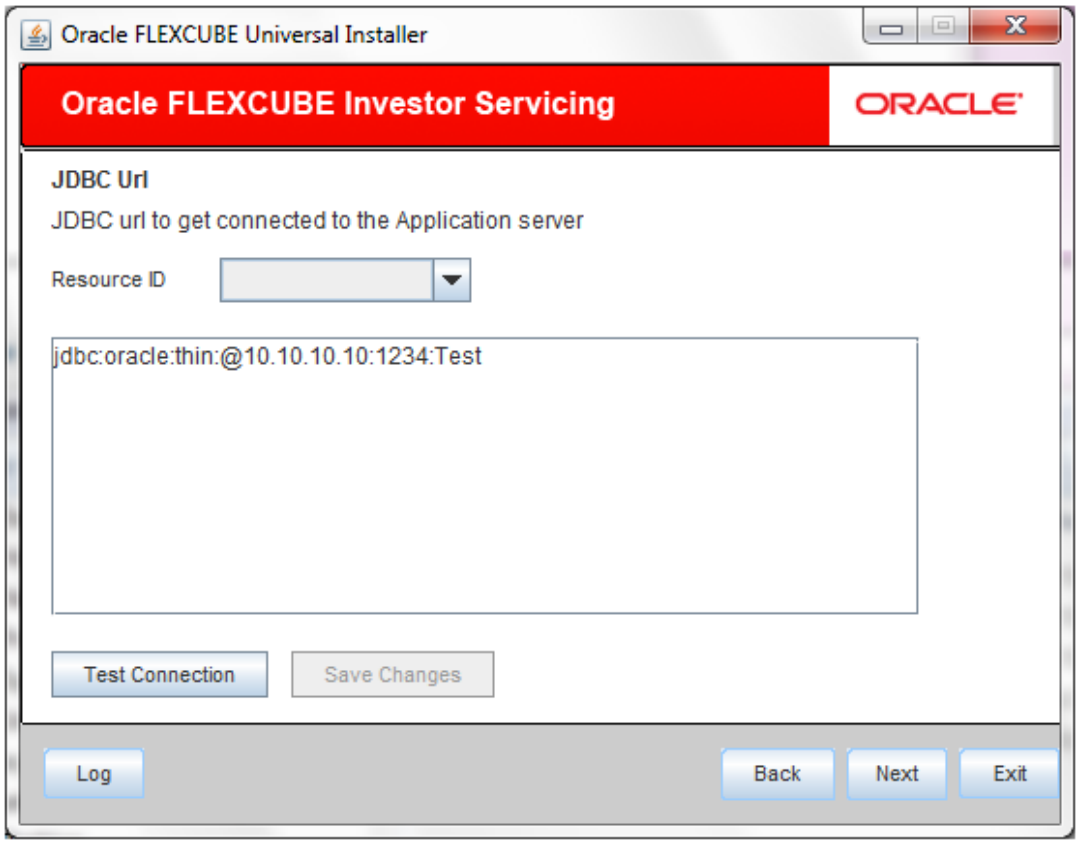
Table 1-4 (Cont.) Resource details

Field	Description
Maximum Capacity	The maximum number of physical connections that this connection pool can contain.
Capacity Increment	The increment by which this JDBC connection pool's capacity is expanded.
Shrink Frequency	The number of seconds to wait before shrinking a connection pool that has incrementally increased to meet demand.
Connection Reserve Timeout	The number of seconds after which a call to reserve a connection from the connection pool will timeout.

17. Click **Test Connection** to establish connection with required details provided in the table against corresponding value of **Resource ID**.
18. Click **Save Changes** to save the values provided in the table against corresponding value of **Resource ID**.
19. Select **Modify JDBC Url** to modify the provided JDBC url.

    If **Modify JDBC Url** is selected, the following screen is displayed.

Figure 1-7 JDBC Url



20. Specify **Resource ID** and click **Test Connection** to check the connection using the changed Url. If the Url changed is correct, then the successful connection will be made. Click **Save Changes** to save the changed JDBC Url.

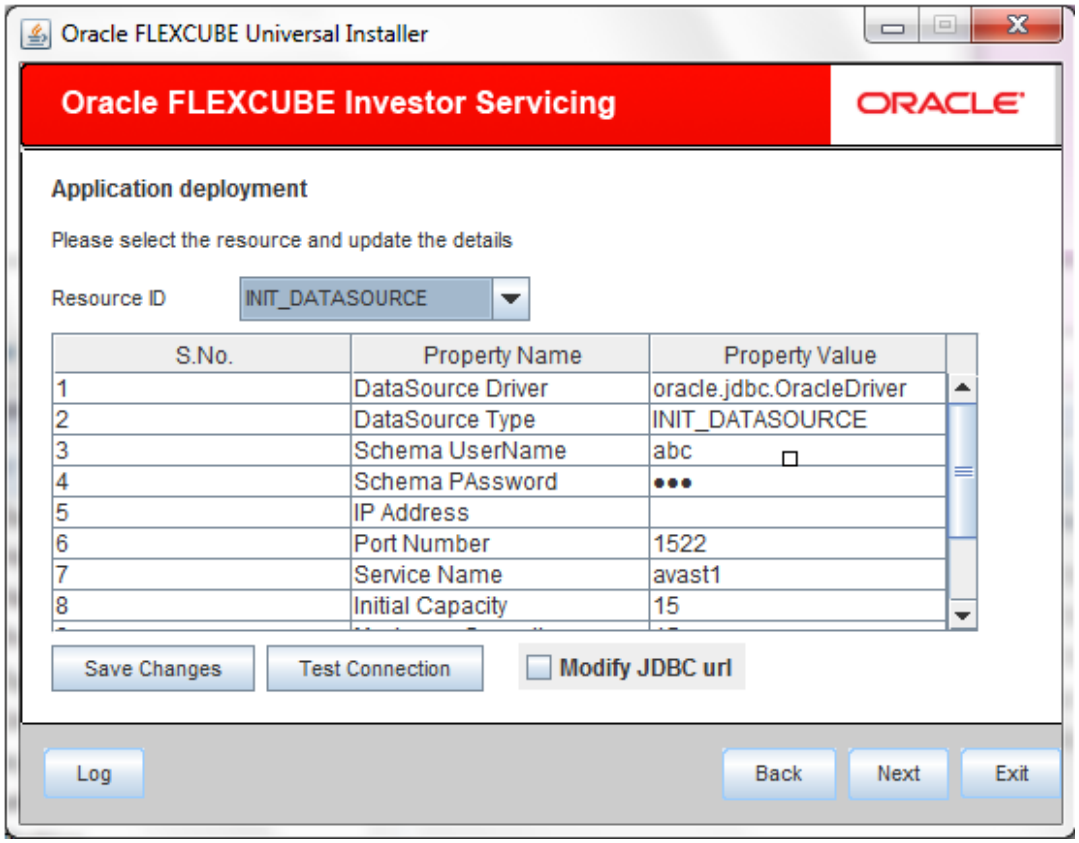
    Resource ID: It provides the list of all the datasources created. Select the data source for which the **JDBC Url** needs to be modified.

Note: The **JDBC Url** generated from the previous screen will be displayed here. If the user wants to change the **JDBC Url**, it can be changed in the current screen.

21. Click **Next** after the resource details are updated.

    The following screen is displayed.

Figure 1-8 Resource Details Update



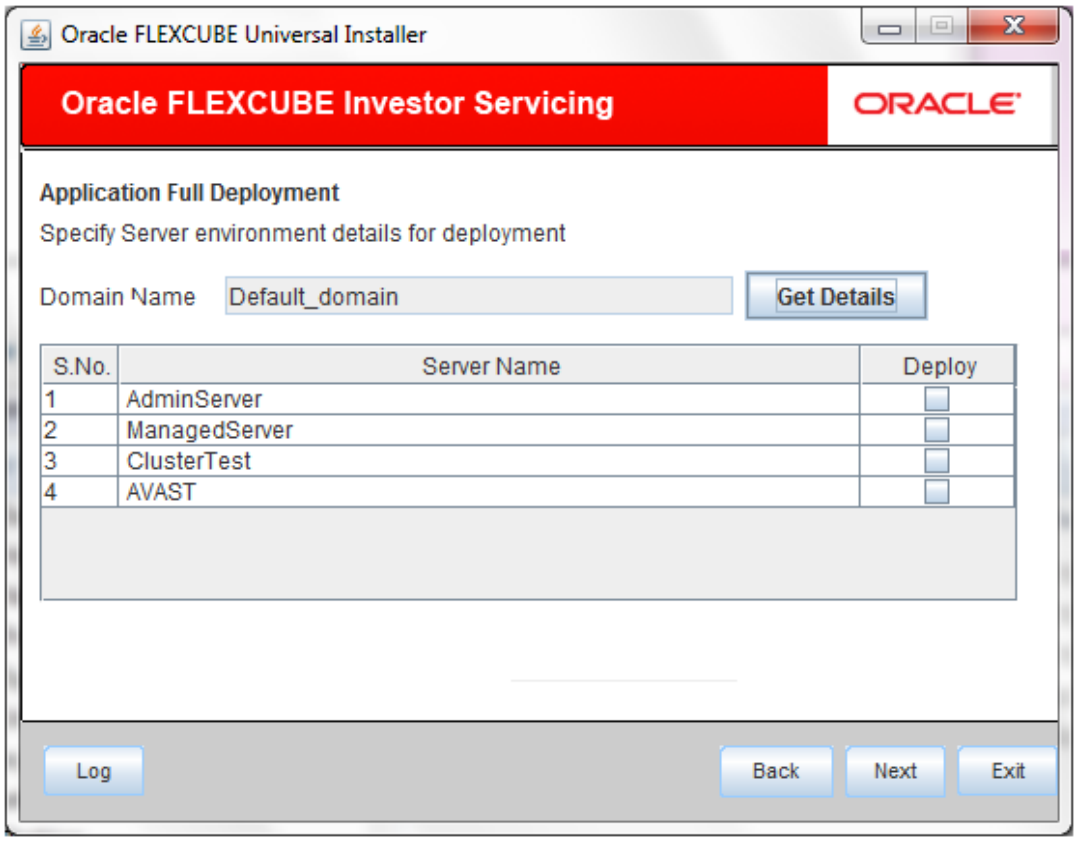
22. Specify Server Environment details for deployment.

    The **Domain Name** shows the weblogic domain name.

23. On Server Environment details screen, click **Get Details** button.

    The list of available servers are displayed. Atleast, one server should be selected to proceed.

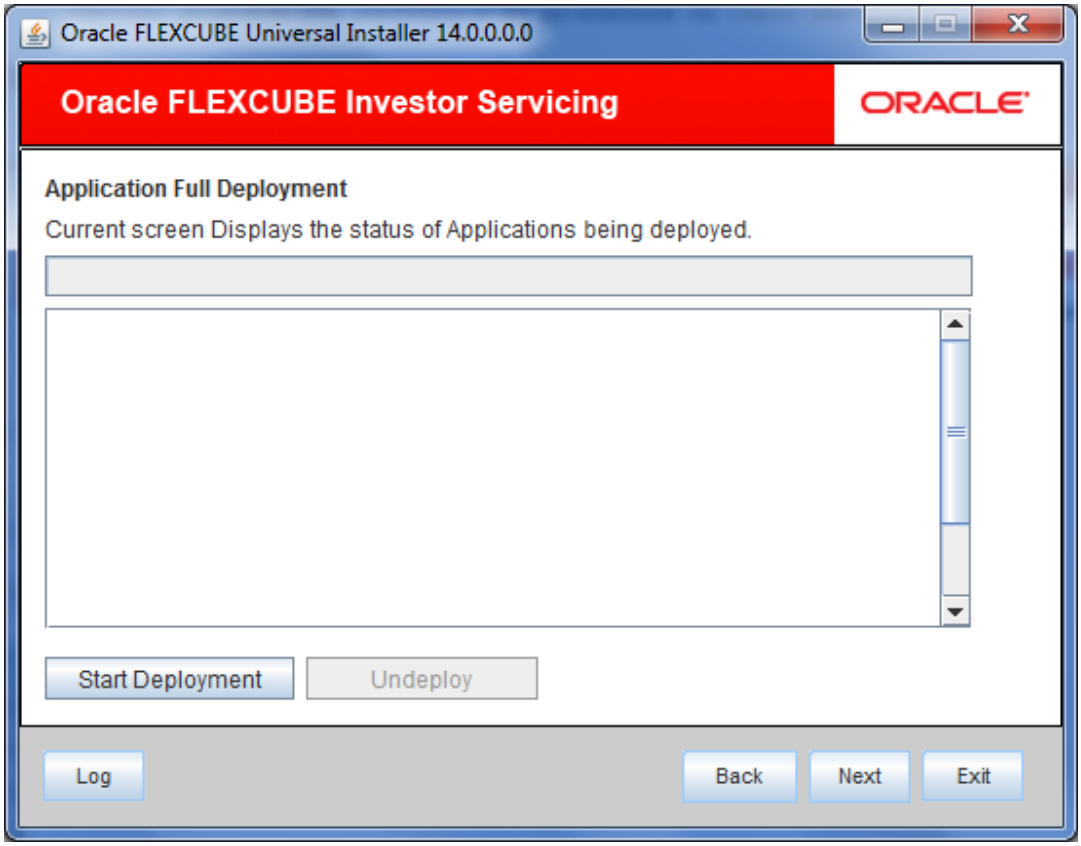
Figure 1-9 Server Environment Details for Full Deployment



24. Click **Next** after the server environment details are specified.

    The following screen is displayed.

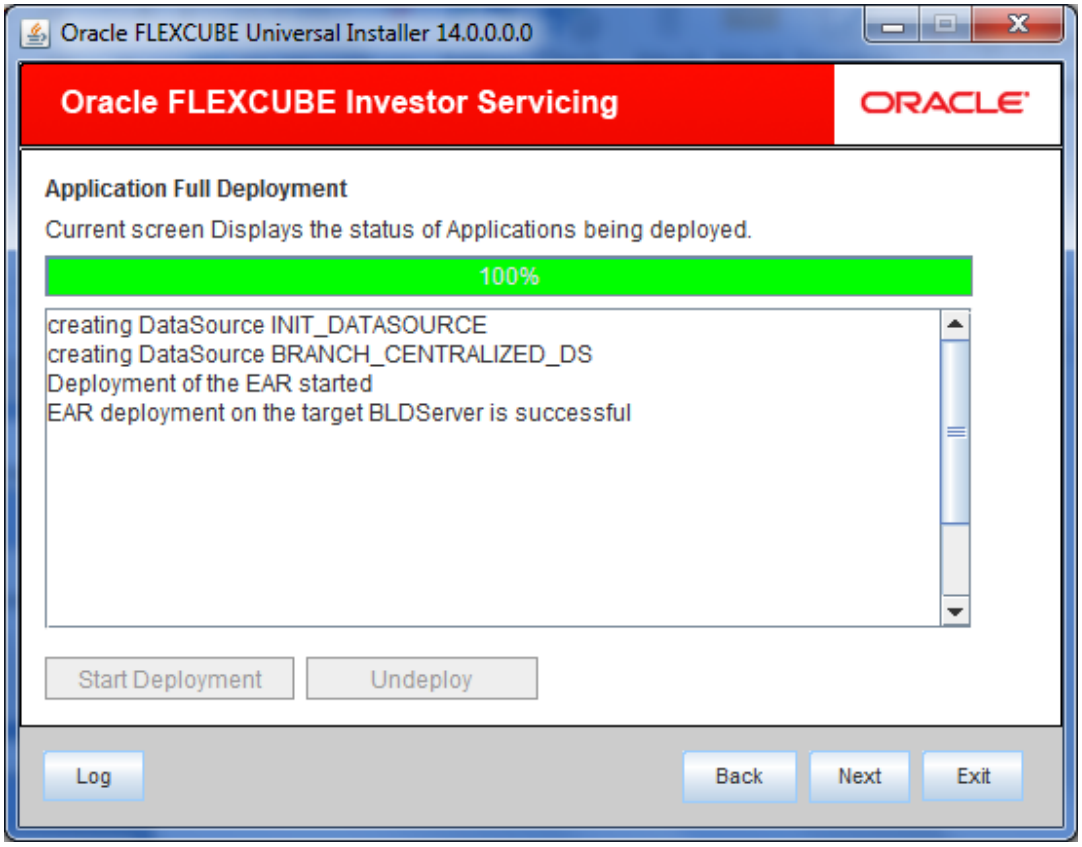
Figure 1-10 Application Deployment Status for Full Deployment



25. Click **Start Deployment** to start the process of application deployment.

    The following screen displays the status of Applications being deployed.

Figure 1-11 Start Application Full Deployment



26. You can view the information message on successful deployment and click **Ok** in the **Message** window.

    The following **Message** window is displayed.

Figure 1-12 EAR Deployment Message

27. Click **Undeploy** button for undeploying the partially deployed EAR from the server.

    If the deployment is not successful, the **Undeploy** button will be enabled in the **Application Deployment** status screen.