

Open Development Tool Installation  
Oracle FLEXCUBE Investor Servicing

Release 14.4.0.0.0

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**ORACLE**  
**FINANCIAL SERVICES**

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# 1. Open Development Tool Installation

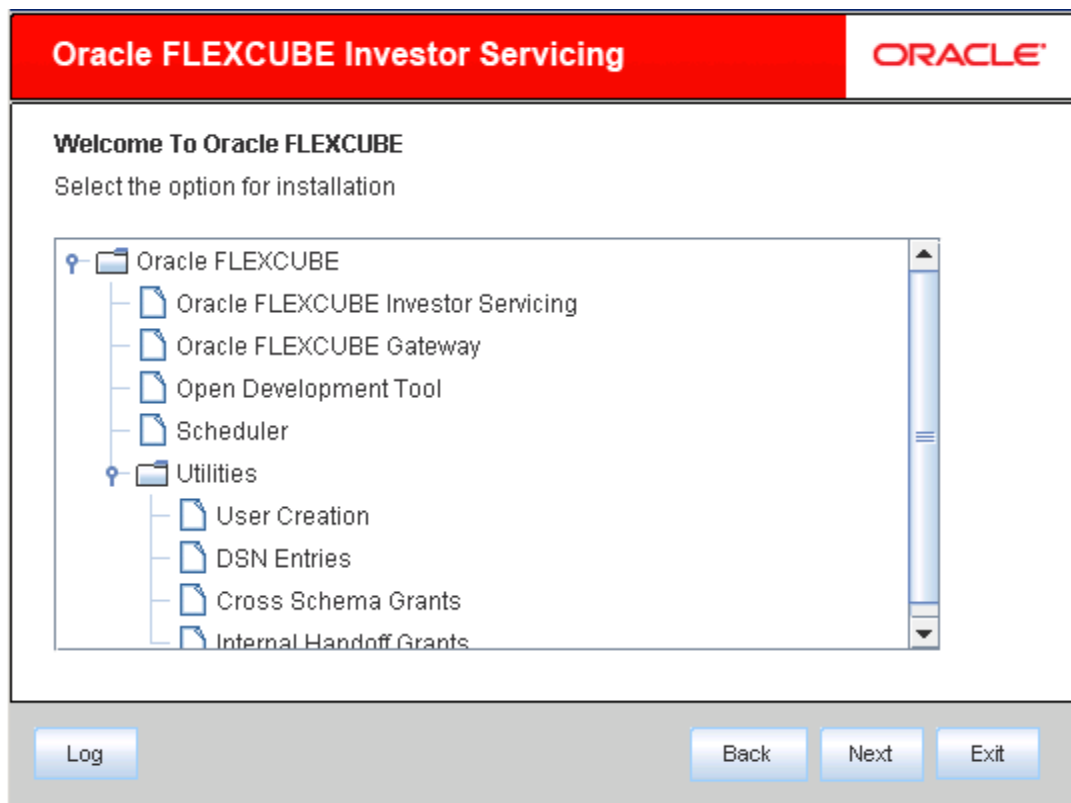
## 1.1 Introduction

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

## 1.2 Installing Open Development Tool

To install 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 is displayed.



3. Click 'Open Development Tool'.

- Click 'Next'. The following screen is displayed.

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Welcome To Oracle FLEXCUBE**  
Choose Oracle FLEXCUBE Component for installation.

Build Application  
Database  
Deploy Application

Operating System Linux ▼  
Application Server Weblogic ▼  
DataBase Server Oracle ▼

Log Back Next Exit

- Select 'Build Application' as Oracle FLEXCUBE component for installation.
- Specify the following details.

**Operating System**

Specify the operating system in which you are installing Oracle FLEXCUBE.

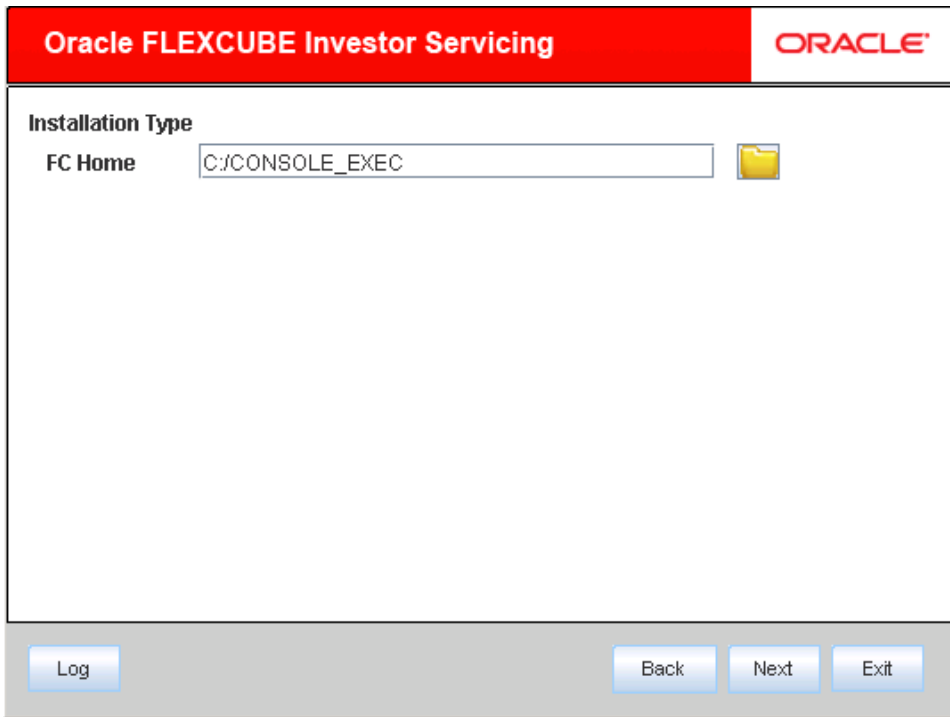
**Application Server**

Specify the application server on which you are installing Oracle FLEXCUBE.

**DataBase Server**

Specify the database server on which you are installing Oracle FLEXCUBE.

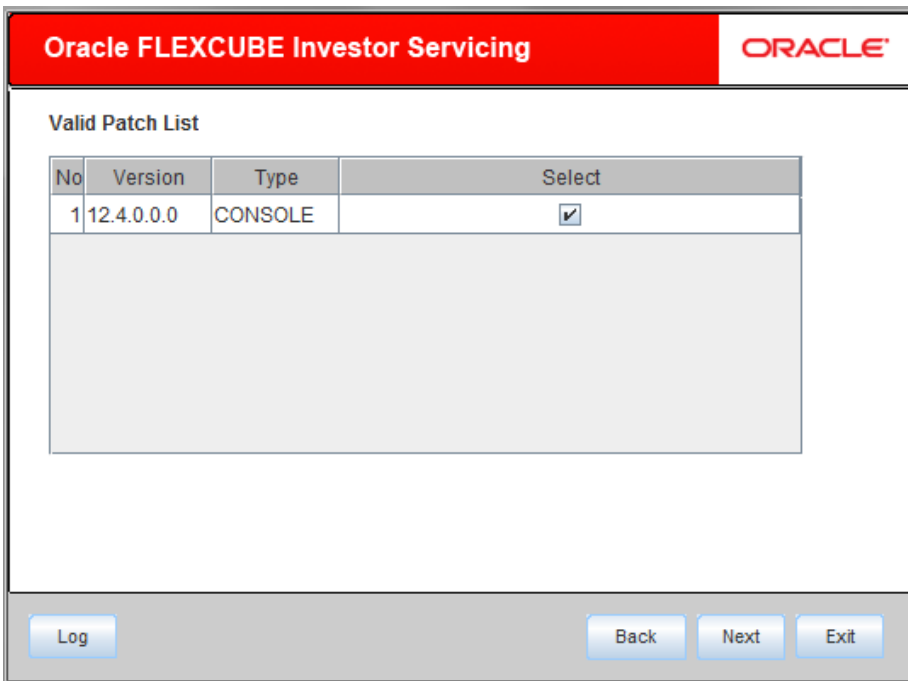
7. Click 'Next'. The following screen is displayed.



The screenshot shows the 'Installation Type' screen in the Oracle FLEXCUBE Investor Servicing application. The title bar is red with 'Oracle FLEXCUBE Investor Servicing' on the left and the 'ORACLE' logo on the right. Below the title bar, the text 'Installation Type' is displayed. Underneath, there is a label 'FC Home' followed by a text input field containing 'C:\CONSOLE\_EXEC' and a yellow folder icon to its right. At the bottom of the window, there is a grey bar containing four buttons: 'Log', 'Back', 'Next', and 'Exit'.

8. 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.

9. Click 'Next'. The following screen is displayed:



The screenshot shows the 'Valid Patch List' screen in the Oracle FLEXCUBE Investor Servicing application. The title bar is red with 'Oracle FLEXCUBE Investor Servicing' on the left and the 'ORACLE' logo on the right. Below the title bar, the text 'Valid Patch List' is displayed. Underneath, there is a table with the following data:

| No | Version    | Type    | Select                              |
|----|------------|---------|-------------------------------------|
| 1  | 12.4.0.0.0 | CONSOLE | <input checked="" type="checkbox"/> |

Below the table, there is a large empty rectangular area. At the bottom of the window, there is a grey bar containing four buttons: 'Log', 'Back', 'Next', and 'Exit'.

10. Select the Console type and click Next. The following screen is displayed:

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Build Process**  
Current screen provides an option to enter application jndi names and logger path

ODT JNDI

Logger Path

PROVIDER\_URL

Log Back Next Exit

11. Specify the following details.

**ODT JNDI**

Specify the JNDI for the ODT.

**Logger Path**

Specify the path where the logs have to be written.

**Provider\_URL**

Specify the provider URL.

12. Click 'Next'. The following screen is displayed.

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Property File Creation**

Current screen provides an option for Enabling Single Sign on

SSO Required

SSO KEY

Authentication details maintained external to FLEXCUBE

External Password Required  Authentication Type

External User Login Required

**Single sign-on (SSO) is a property of access control of multiple related, but independent software systems. With this property a user logs in once and gains access to all systems without being prompted to log in again at each of them. Conversely, Single sign-off is the property whereby a single action of signing out terminates access to multiple software systems. This screen provides an option for External Authentication. If External Authentication is not required, keep the**

Log Back Next Exit

13. Here we set single sign on properties. Click 'Next'.

This is an external authentication window. If external authentication is not required, then uncheck all the options and click 'Next'. The following screen is displayed:

The screenshot shows the 'Property File Creation' window. The title bar reads 'Oracle FLEXCUBE Investor Servicing' and 'ORACLE'. The main content area is titled 'Property File Creation' and contains the instruction: 'Choose Enable SSL option for Securing confidential user information'. There are two checked checkboxes: 'SSL Enabled?' and 'OPSS Available'. A red warning box contains the text: 'If the SSL Enabled option is unchecked then this setting will put your application at risk. OFSS will not hold any responsibility for the Data Loss.' Below this, another red text block states: 'OPSS □ CSF : A credential store is used for secure storage of credentials. CSF is used to access and perform operations on the credential store. The Credential Store Framework enables to manage credentials securely'. At the bottom, there are four buttons: 'Log', 'Back', 'Next', and 'Exit'. A mouse cursor is pointing at the 'Next' button.

Here we enable SSL information and click 'Next'. The following screen is displayed:

The screenshot shows the 'Build Process' window. The title bar reads 'Oracle FLEXCUBE Investor Servicing' and 'ORACLE'. The main content area is titled 'Build Process' and contains the instruction: 'Specify the destination directory, application name'. There are two input fields: 'Destination Directory' with the value 'D:\DESTTEMPDIR' and a folder icon to its right, and 'Application Name' with the value 'RAD'. At the bottom, there are four buttons: 'Log', 'Back', 'Next', and 'Exit'. A mouse cursor is pointing at the 'Next' button.



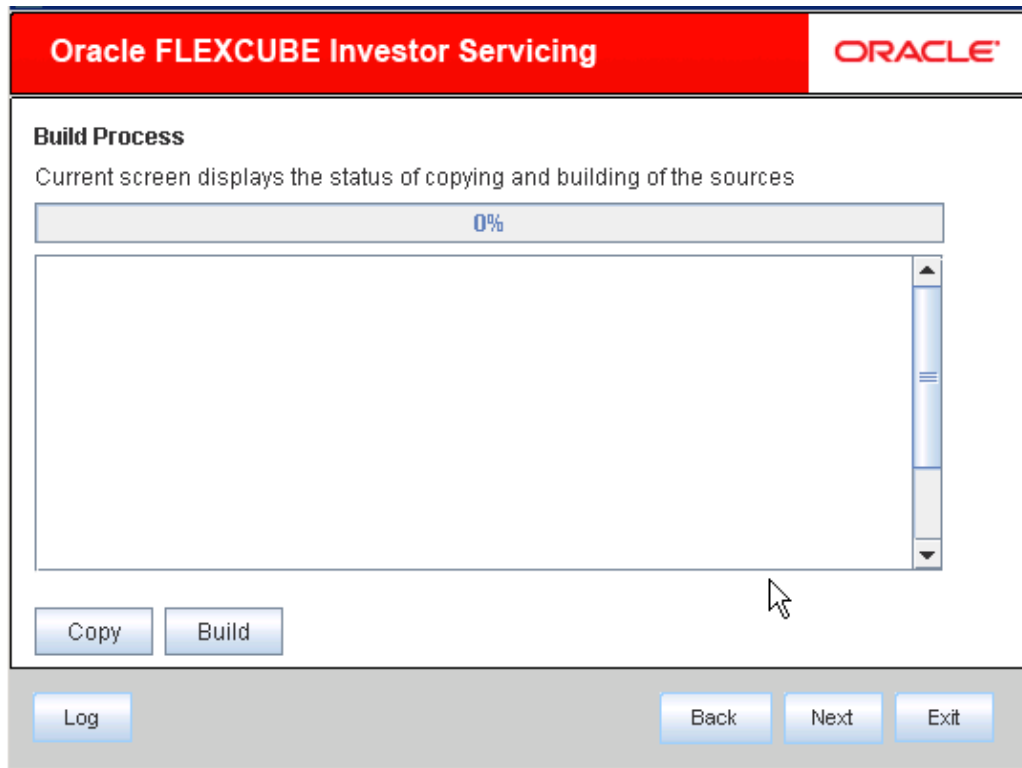
## Destination Directory

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

## Application Name

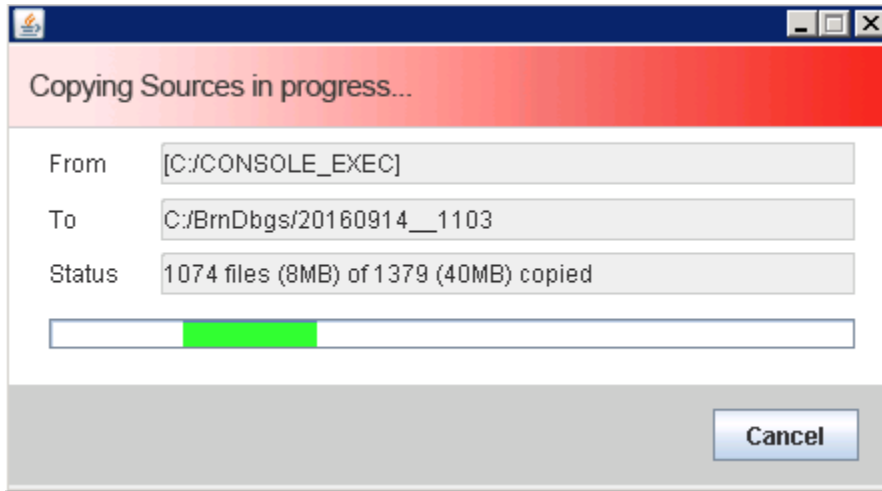
Specify the desired name for the application. For example,,: RAD.

Click 'Next. The following screen is displayed.

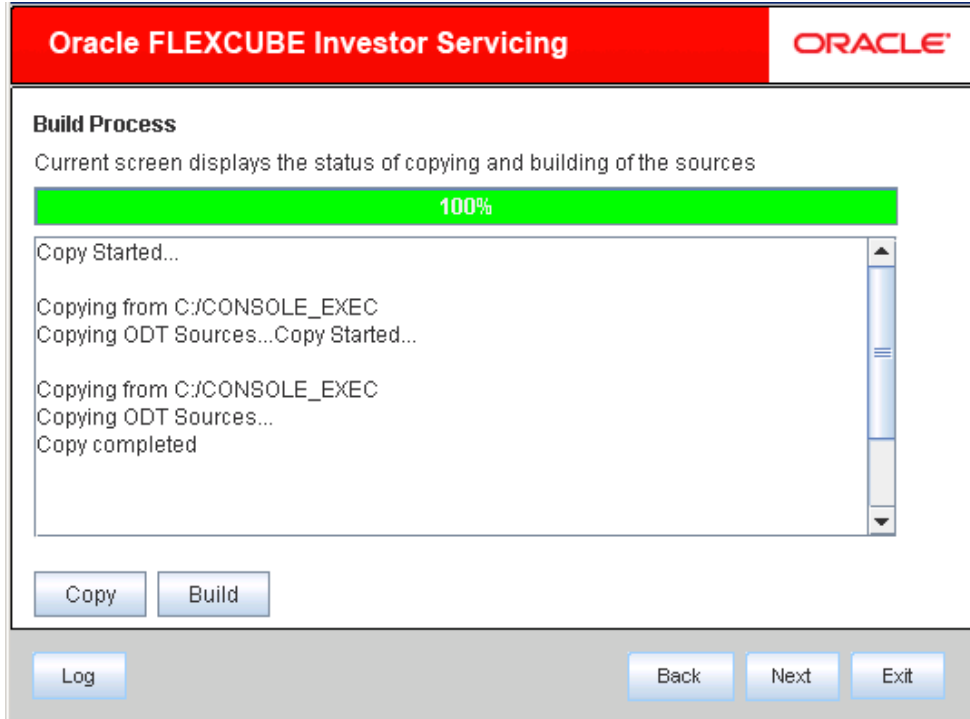


You can select all the source directories in this screen. The Installer will copy the sources from the multiple locations into the destination directory. You can have consolidated sources in the destination directory.

Click 'Copy' button to copy sources to the destination location. The following screen is displayed:

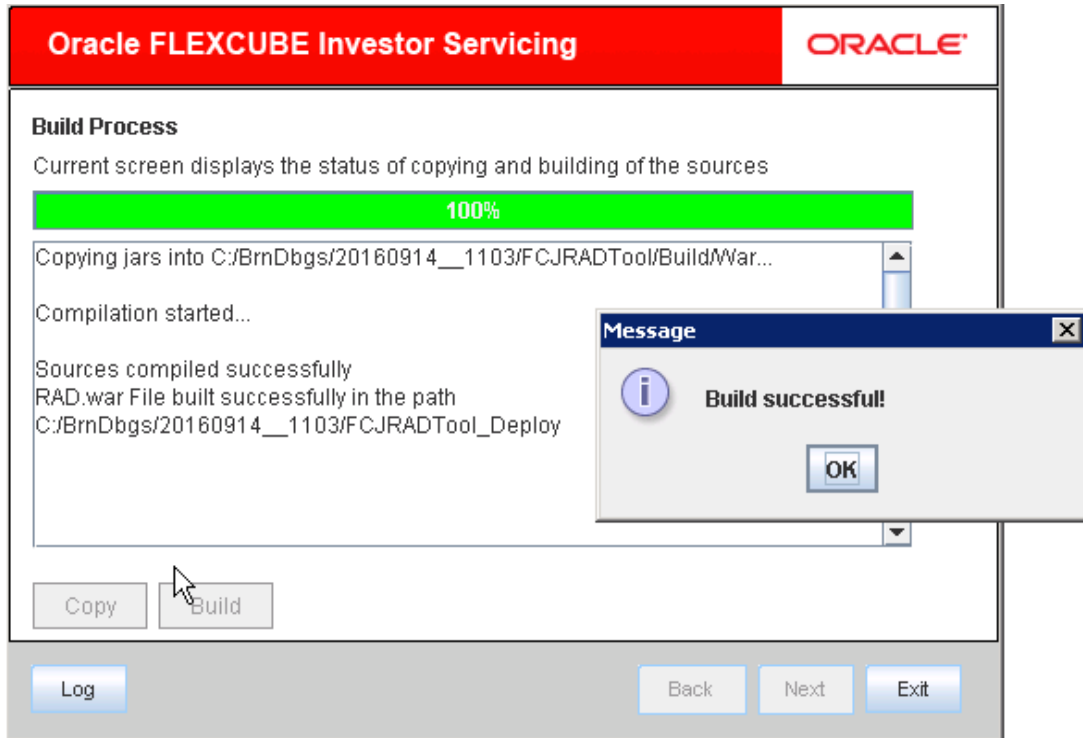


Once the copying process is done, the following screen is displayed:

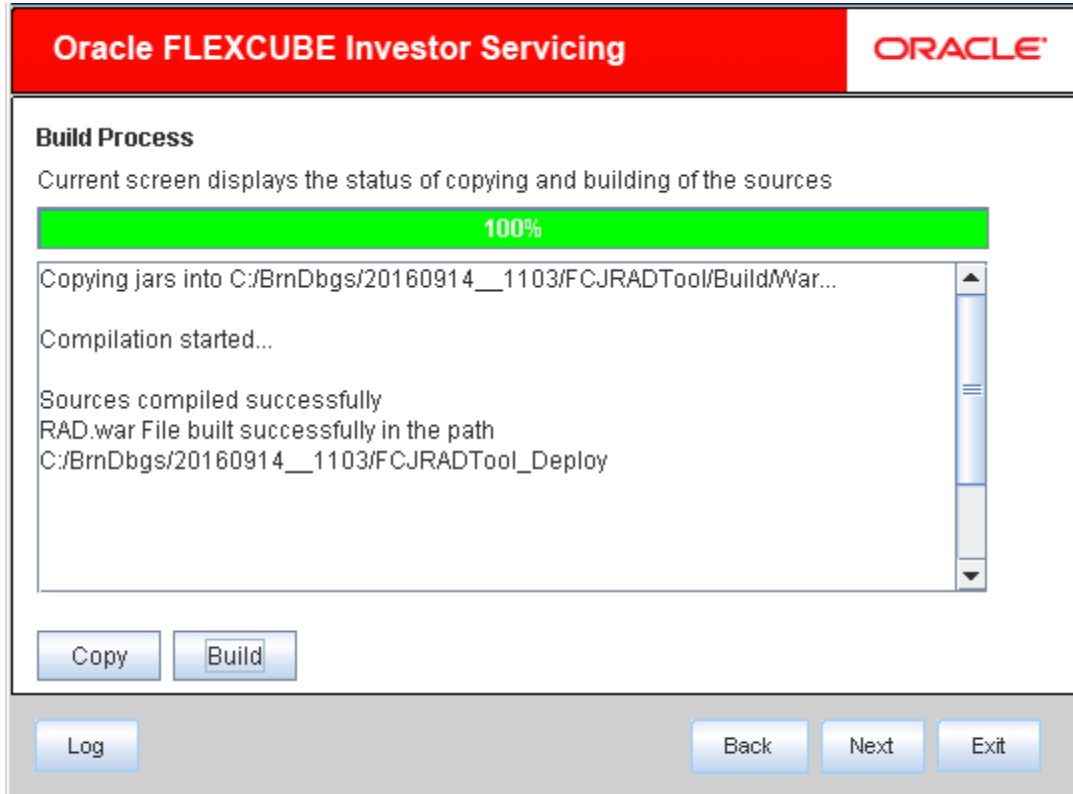


Click 'Build' button to build the war file in the destination location.

The system displays the following screen when the copying is complete.



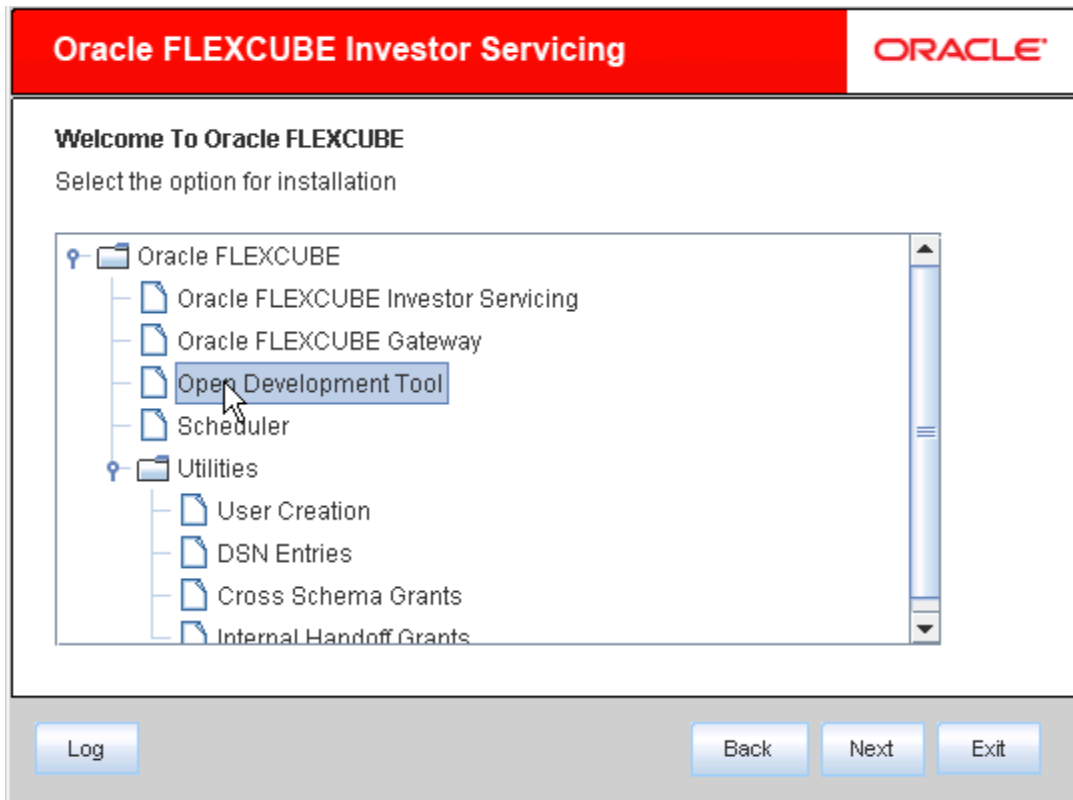
Click OK. The following screen is displayed:



## 2. Setting 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.

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Welcome To Oracle FLEXCUBE**  
Choose Oracle FLEXCUBE Component for installation.

Build Application  
Database  
Deploy Application

Operating System Linux

Application Server Weblogic

DataBase Server Oracle

Log Back Next Exit

5. Select 'Database' as Oracle FLEXCUBE component for installation.
6. Specify the following details.

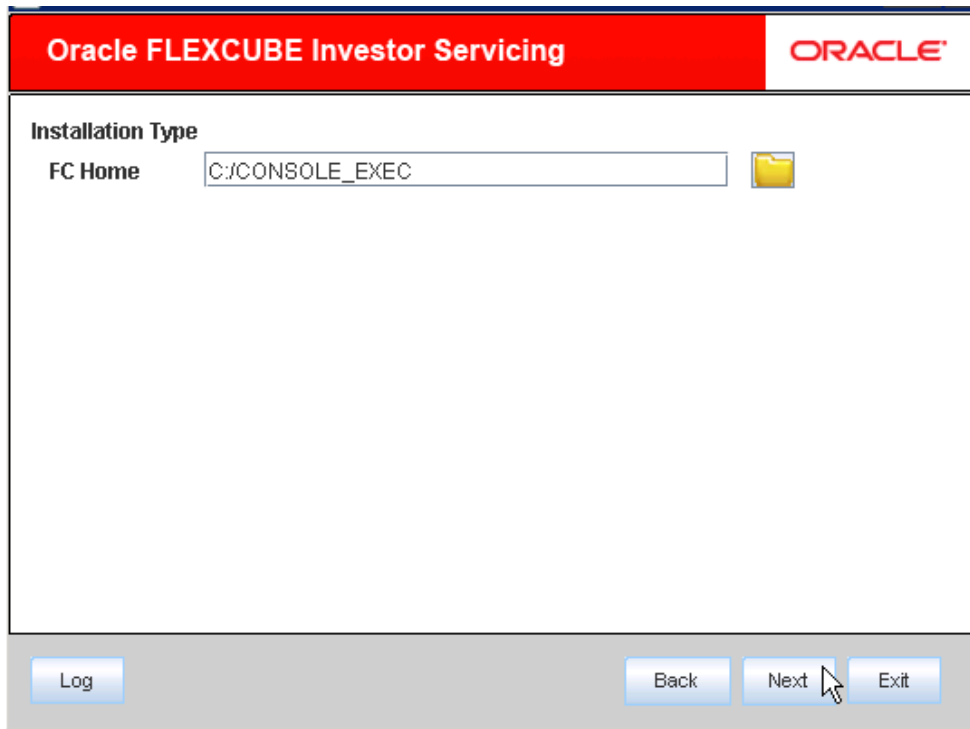
**Operating System**

Specify the operating system in which you are installing Oracle FLEXCUBE.

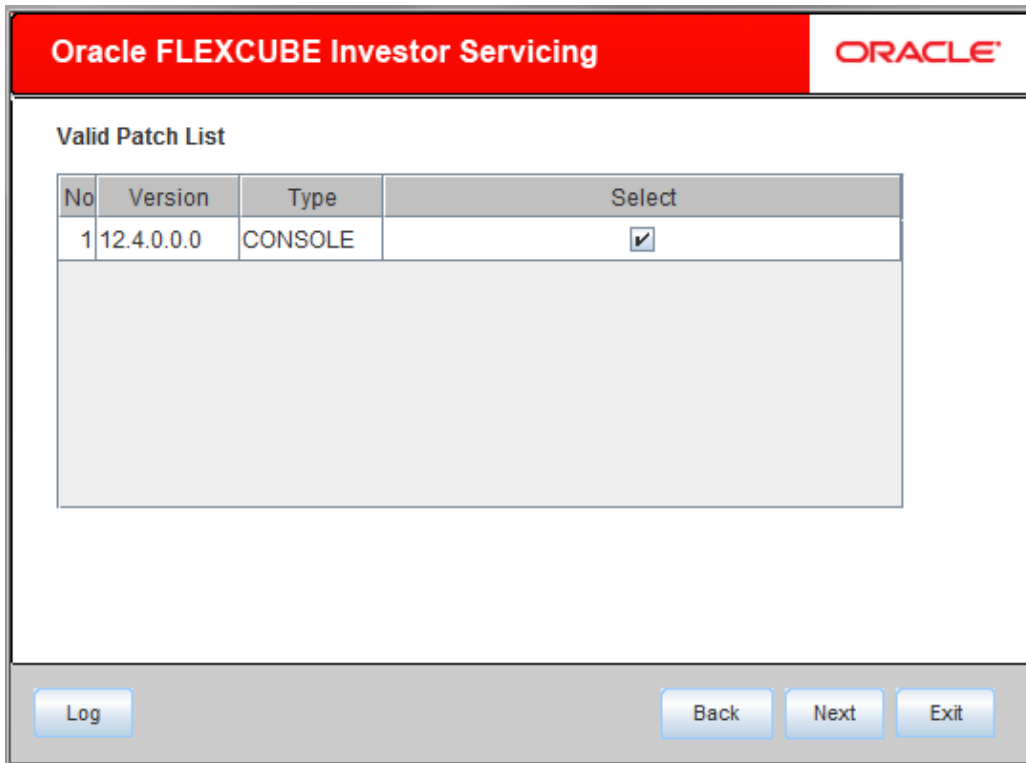
**Database Server**

Specify the database server on which you are installing Oracle FLEXCUBE.

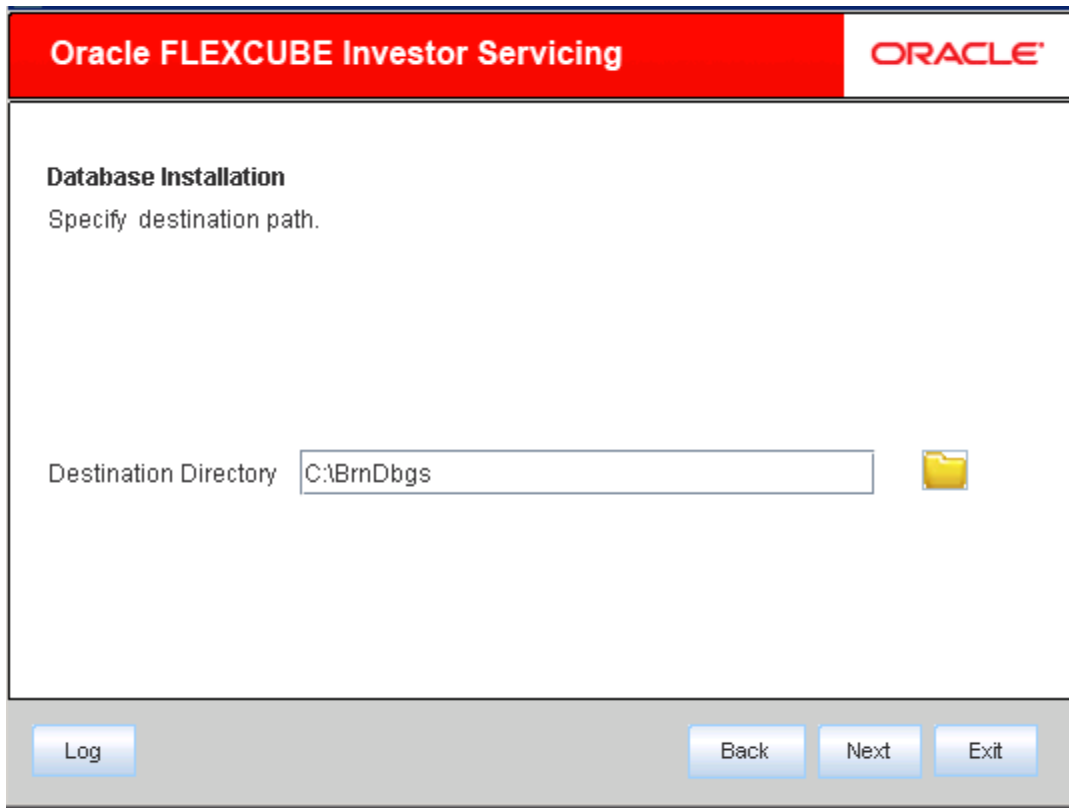
7. Click 'Next'. The following screen is displayed.



Browse for Console\_EXEC folder and click 'Next'. The following screen is displayed:



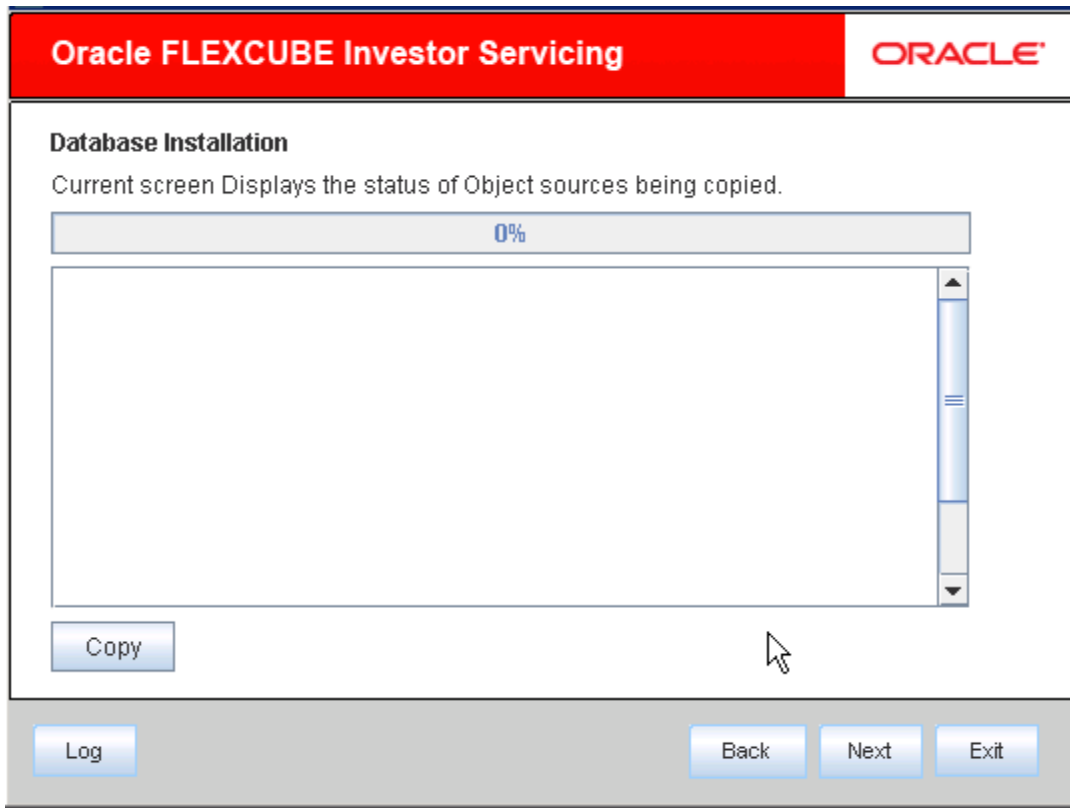
Select the console type and select 'Next'. The following screen is displayed:



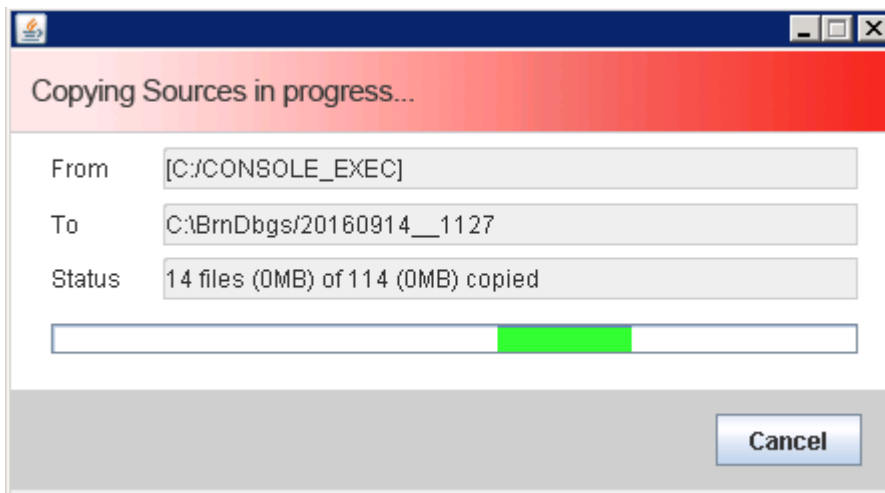
### Destination Directory

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

The following screen is displayed:



Click 'Copy'. The following screen is displayed:





Click 'Copy' to copy the source from source directory to the destination directory. Once the source is copied, the following screen is displayed.

**Oracle FLEXCUBE Investor Servicing** **ORACLE**

**Database Installation**  
Provide schema details.

| Name                   | Value        |
|------------------------|--------------|
| Username               | installer    |
| Password               | ••••••••     |
| Service Name           | testdb       |
| IP Address             | 10.10.10.10  |
| Port                   | 1521         |
| TNS Connect Descriptor | testdb.world |

Test Connection

Log Back Next Exit

8. Specify the following schema details:

**User Name**

Specify the user name to access the schema.

**Password**

Specify the schema password for the above user name.

**Service Name**

Specify service name of database.

**IP Address**

Specify the IP address of the system where the database schema is installed.

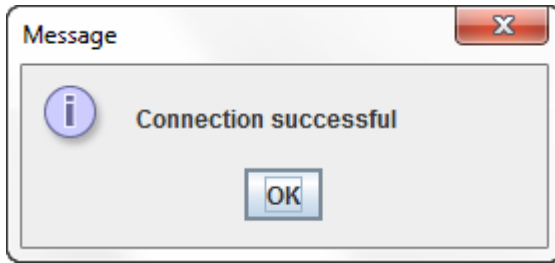
**Port**

Specify the port number.

**TNS Connect Descriptor**

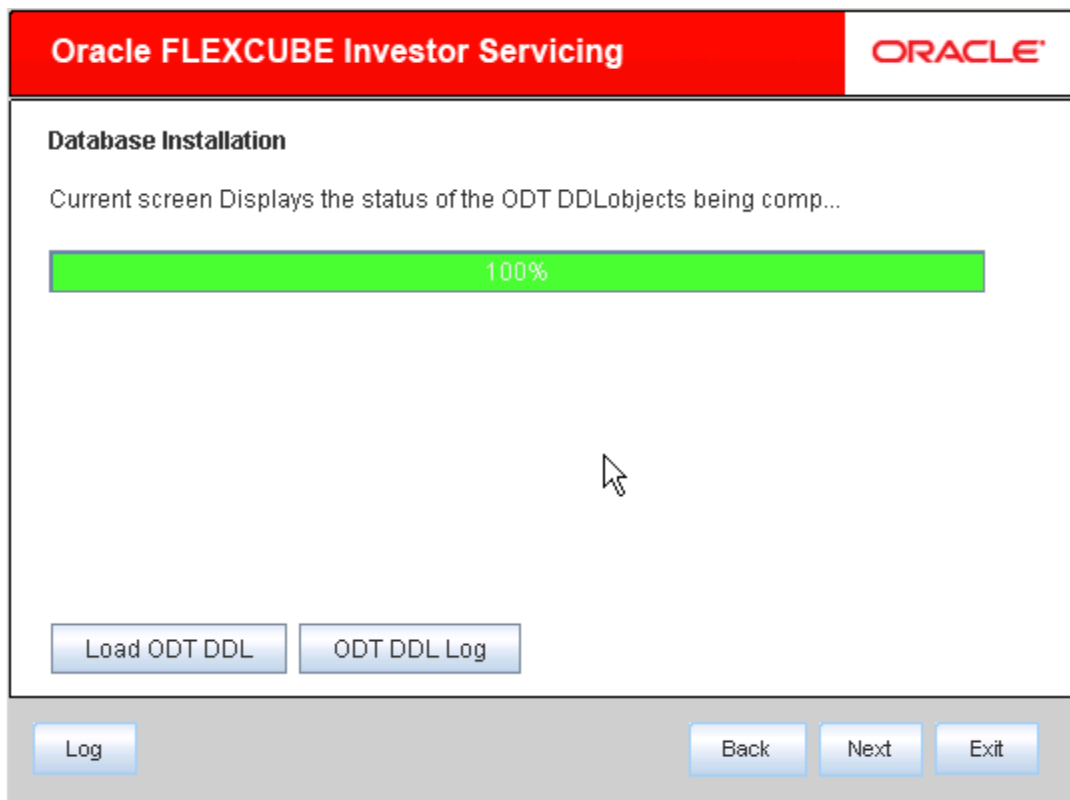
Specify a valid connect string that contains the details for database connectivity.

- Once you have specified the details, click 'Test Connection' button to test the database schema connection.

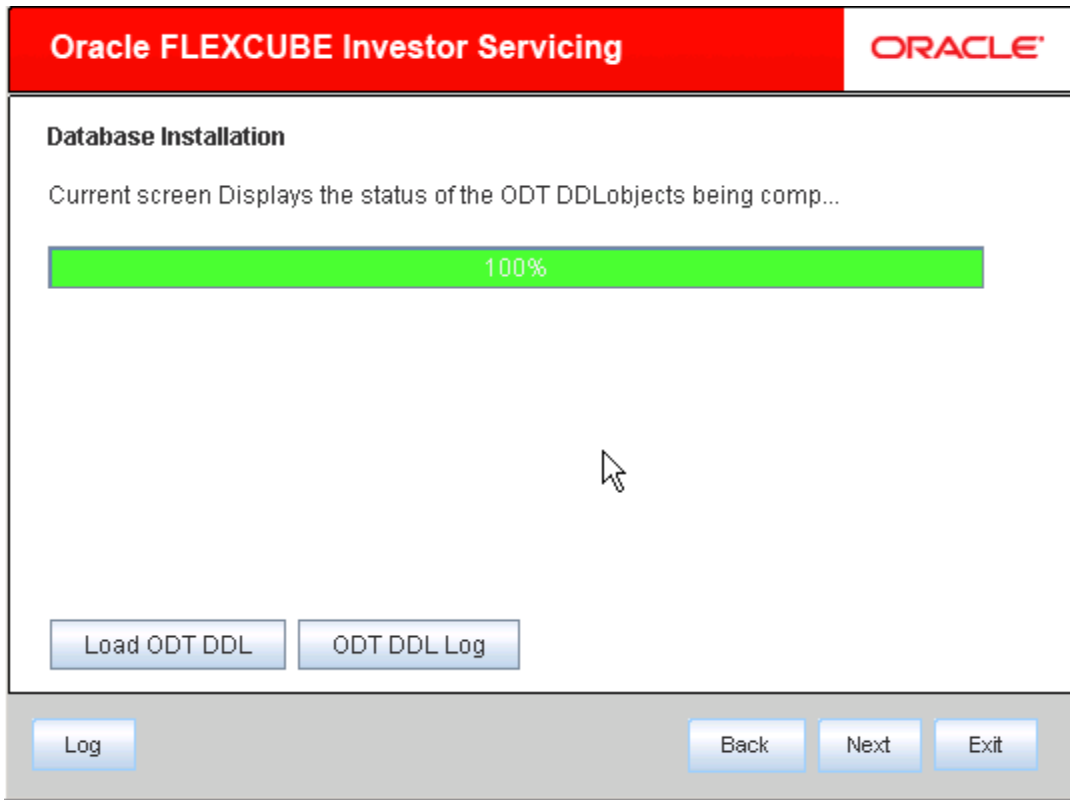


The above message is displayed if the connection is established successfully.

- Click 'Next'. The following screen is displayed.

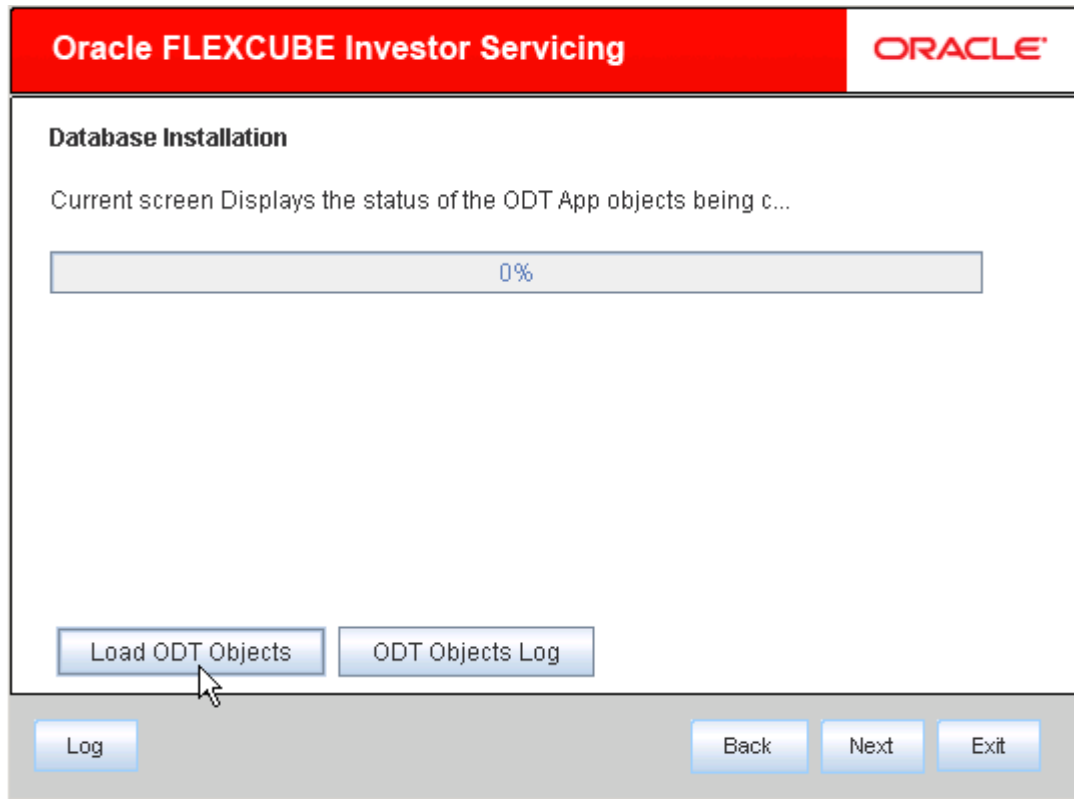


11. Click 'Load ODT DDL' button to start compiling. The objects 'Type', 'Table', and 'Sequence' will be compiled and the count will be updated. You can verify the DDL objects compilation by comparing the current count and the release count. The release count is the number of files in the temporary folder to which the files are copied.



12. Click on ODT DDL log to see the log.

13. Click 'Next'. The following screen is displayed.



14. 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.

15. Click 'ODT Objects Log' to view the log.

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

16. Click 'Next'. The following screen is displayed.

**Oracle FLEXCUBE Investor Servicing** **ORACLE**

**Database Installation**  
Current screen Displays the number of invalids in the DB.

0%

| Object Type  | Invalid Count | Total Count |
|--------------|---------------|-------------|
| FUNCTION     | 0             | 0           |
| PROCEDURE    | 0             | 4           |
| VIEW         | 0             | 0           |
| TRIGGER      | 0             | 0           |
| PACKAGE      | 3             | 56          |
| PACKAGE BODY | 40            | 56          |

Invalids List    Recompile

Log    Back    Next    Exit

17. 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'.

18. Click 'Recompile' to re-compile 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 re-compilation of ODT Objects.

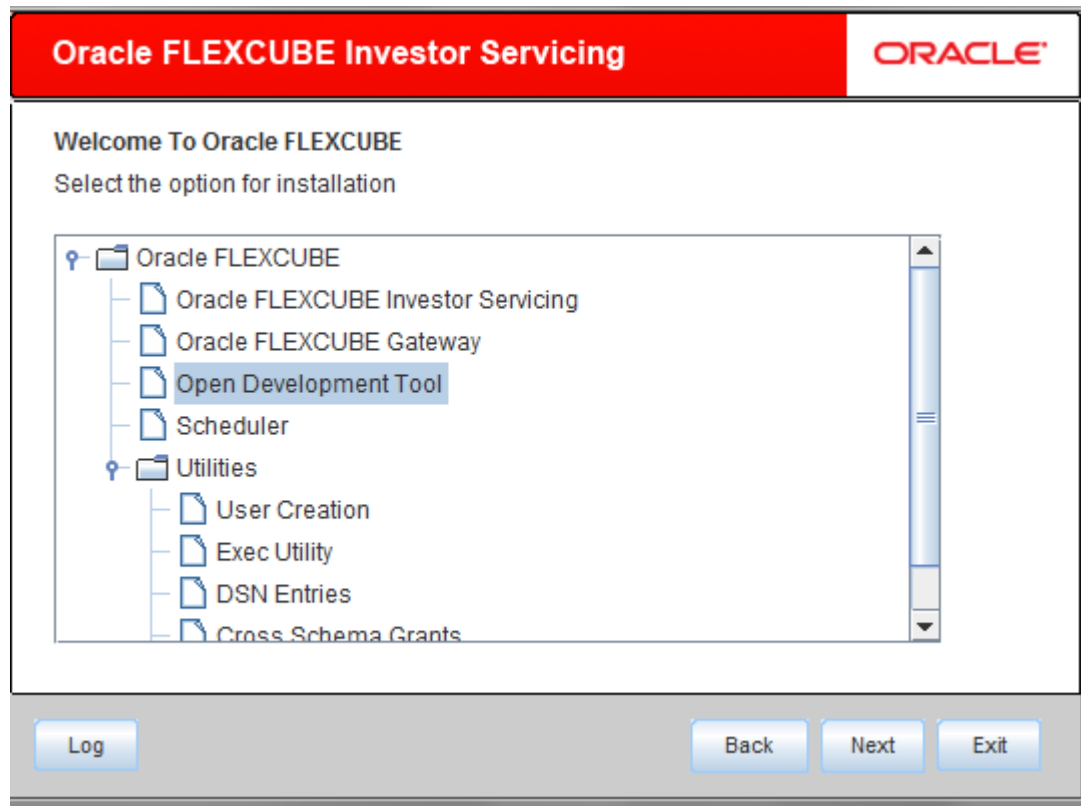
The screenshot shows the Oracle FLEXCUBE Investor Servicing interface. At the top, there is a red header with the text "Oracle FLEXCUBE Investor Servicing" and the Oracle logo. Below the header, the main content area is titled "Database Installation" and contains the text "Current screen Displays the number of invalids in the DB." A progress bar below this text shows "0%". A table follows, listing object types and their counts. Below the table are two buttons: "Invalids List" and "Recompile". At the bottom of the screen, there are three buttons: "Log", "Back", and "Next", and an "Exit" button.

| Object Type  | Invalid Count | Total Count |
|--------------|---------------|-------------|
| FUNCTION     | 0             | 0           |
| PROCEDURE    | 0             | 4           |
| VIEW         | 0             | 0           |
| TRIGGER      | 0             | 0           |
| PACKAGE      | 0             | 56          |
| PACKAGE BODY | 0             | 56          |

The database is set up for the ODT installation.

### 3. Open Development Tool (ODT) Application Full Deployment

1. Launch Oracle FLEXCUBE Investor Servicing Installer.
2. Click on 'Next' to display the screen below.



3. Select 'Open Development Tool'.

- Click 'Next' to display the screen below.

**Oracle FLEXCUBE Investor Servicing** ORACLE

Welcome To Oracle FLEXCUBE  
Choose Oracle FLEXCUBE Component for installation.

Build Application  
Database  
Deploy Application

Operating System Linux ▼  
Application Server Weblogic ▼  
DataBase Server Oracle ▼

Log Back Next Exit

- Select 'Deploy Application'.

#### **Operating System**

Select the server's operating system in which you are installing the FCIS application. Select the appropriate one from the adjoining drop-down list.

#### **Application Server**

Select 'Weblogic' from the adjoining drop down list.

#### **Database Server**

Select the database server in which you are installing the FCIS application. Select the appropriate one from the adjoining drop-down list.



6. WeblogicClick 'Next' to display the screen below.

| Name                  | Value        |
|-----------------------|--------------|
| Admin IP              | localhost    |
| Admin Port            | 7001         |
| Admin Username        | weblogic     |
| Server Admin Password | •••••••••••• |

7. Specify the following details:

**Admin IP**

By default it will display local host and user can not edit it.

**Admin Port**

Specify port number of weblogic server.

**Admin UserName**

Specify the appropriate admin username of the weblogic application server.

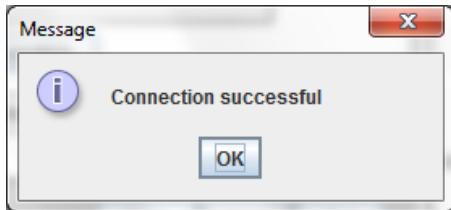
**Server Admin Password**

Specify the appropriate server admin password of the weblogic application server.

**Type of Deployment**

Select 'Full Deployment'.

- Click 'Test Connection' to test the connection with the application server. On successful connection, the following message will be displayed.




- Click 'OK' and click 'Next' to display the screen below.

- Specify the following details

### EAR Path

Select the application EAR to be deployed using the browse button.

 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

If the property file is internal to the application EAR, it gets displayed here on selection of EAR path. If the property file is external, specify the location. You can use the directory button to browser and select the directory.

### Application Name

Application name gets displayed on selection of EAR path.

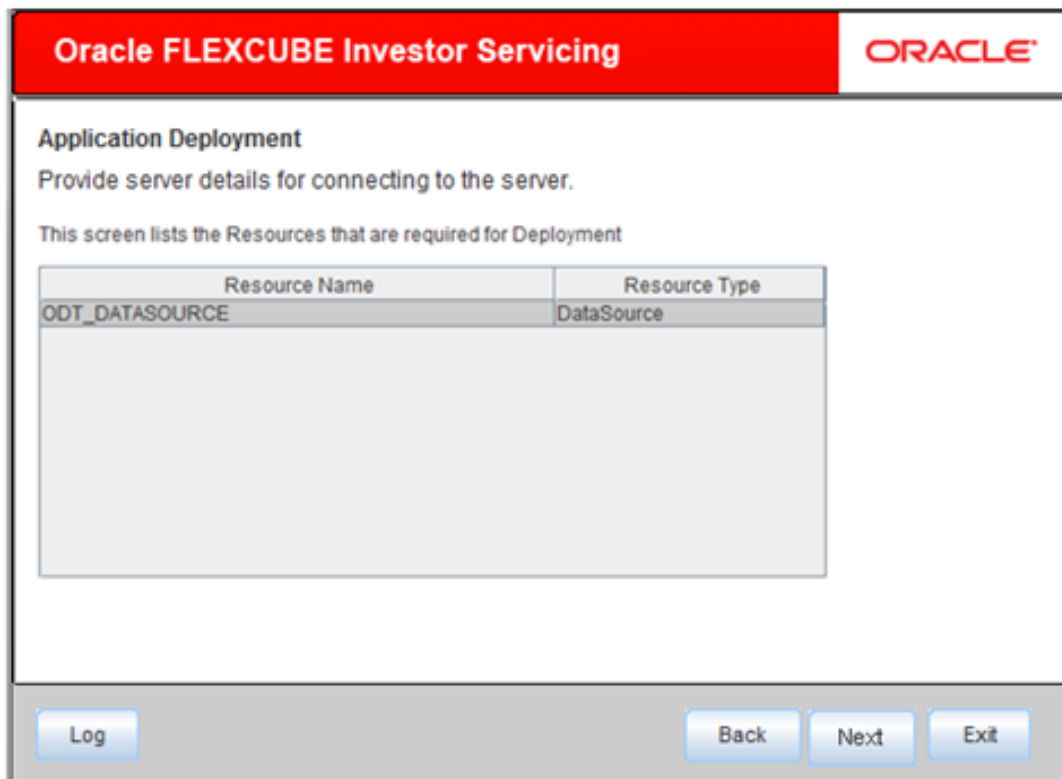
## Application Context

Application context gets displayed on selection of EAR path..

## Manage Resources

Check this box if resources are to be created along with deployment.

11. Click on 'Next' to display the screen below.



The screenshot shows a web application interface for Oracle FLEXCUBE Investor Servicing. The title bar is red with the text "Oracle FLEXCUBE Investor Servicing" and the Oracle logo. The main content area is titled "Application Deployment" and contains the following text: "Provide server details for connecting to the server." and "This screen lists the Resources that are required for Deployment". Below this text is a table with two columns: "Resource Name" and "Resource Type". The table contains one row with the values "ODT\_DATASOURCE" and "DataSource". At the bottom of the screen, there are four buttons: "Log", "Back", "Next", and "Exit".

| Resource Name  | Resource Type |
|----------------|---------------|
| ODT_DATASOURCE | DataSource    |

The current screen shows a list and type of resources that are created.

12. Click 'Next'. The following screen will be displayed.

**Oracle FLEXCUBE Investor Servicing** **ORACLE**

**Application Deployment**  
Provide server details for connecting to the server.

Resource ID: ODT\_DATASOURCE

| S.No. | Property Name     | Property Value           |
|-------|-------------------|--------------------------|
| 1     | DataSource Driver | oracle.jdbc.OracleDriver |
| 2     | DataSource Type   | NXA                      |
| 3     | Schema UserName   | abc                      |
| 4     | Schema PAssword   | ***                      |
| 5     | IP Address        | 10.184.86.27             |
| 6     | Port Number       | 1522                     |
| 7     | Service Name      | avast1                   |
| 8     | Initial Capacity  | 15                       |

Test Connection Save Changes  Modify JDBC url

Log Back Next Exit

13. Specify the following details

**Resource ID**

Select the data source needs to get created from the adjoining drop down list.

**DataSource Driver**

Specify the JDBC driver URL with which the connection is 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 established.

**Schema Password**

Specify the password of the schema.

**IP Address**

Specify to provide the host address of the schema.

**Port Number**

Specify the port number of schema.

**Service Name**

Specify the schema name.

**Initial Capacity**

The number of physical connections to create when creating the connection pool in the data source

**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.

14. Click 'Save Changes' to save the values provided In the table against corresponding value of Resource ID.
15. Click 'Test Connection' to try to establish connection with required details provided in the table.
16. Click on 'Next' to get the following screen.

**Modify JDBC URL**

17. Select 'Modify JDBC URL' for editing the generated URL.

18. If 'Modify JDBC URL' is selected, on click of 'Next' , the following screen will be displayed.

The screenshot shows the 'Oracle FLEXCUBE Investor Servicing' application window. The title bar includes the Oracle logo. The main content area is titled 'JDBC Uri' and contains the instruction 'JDBC url to get connected to the Application server'. Below this, there is a 'Resource ID' dropdown menu set to 'ODT\_DATASOURCE'. A large text input field contains the JDBC URL: 'jdbc:oracle:thin:@10.184.86.152:1522:avast1'. At the bottom of the main area are two buttons: 'Test Connection' and 'Save Changes'. The footer of the window contains three buttons: 'Log', 'Back', 'Next', and 'Exit'.

19. Click 'Next', the following screen will be displayed.

The screenshot shows the 'Application Full Deployment' screen. The title is 'Application Full Deployment' and the instruction is 'Specify Server environment details for deployment'. There is a 'Domain Name' text field containing 'Default\_domain' and a 'Get Details' button. Below this is a table with the following data:

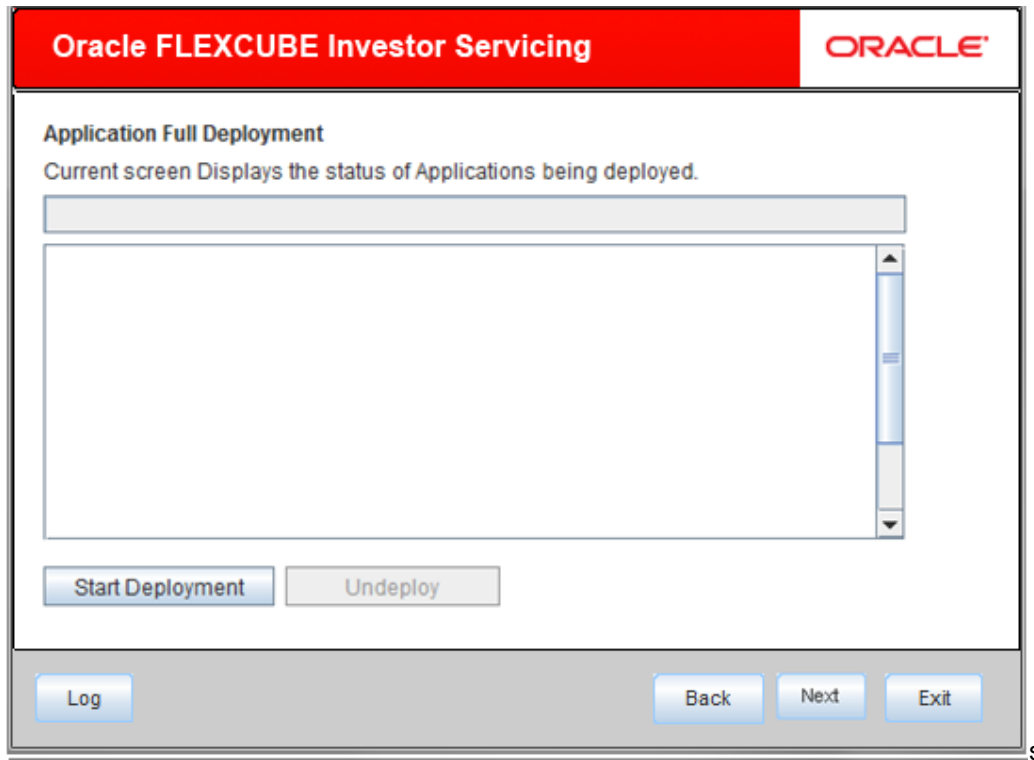
| S.No. | Server Name   | Deploy                   |
|-------|---------------|--------------------------|
| 1     | AdminServer   | <input type="checkbox"/> |
| 2     | ManagedServer | <input type="checkbox"/> |
| 3     | ClusterTest   | <input type="checkbox"/> |
| 4     | AVAST         | <input type="checkbox"/> |

The footer of the window contains three buttons: 'Log', 'Back', 'Next', and 'Exit'.

20. The Domain Name shows the weblogic domains name.

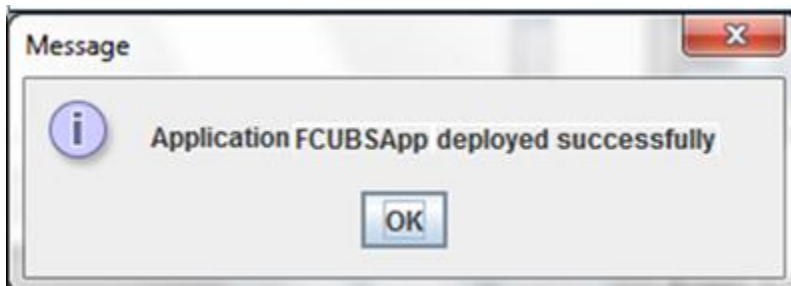
21. Click 'Get Details', the list of available servers are displayed in the table. Atleast one server should be selected to proceed to next screen.

22. Click 'Next' to display the screen below.

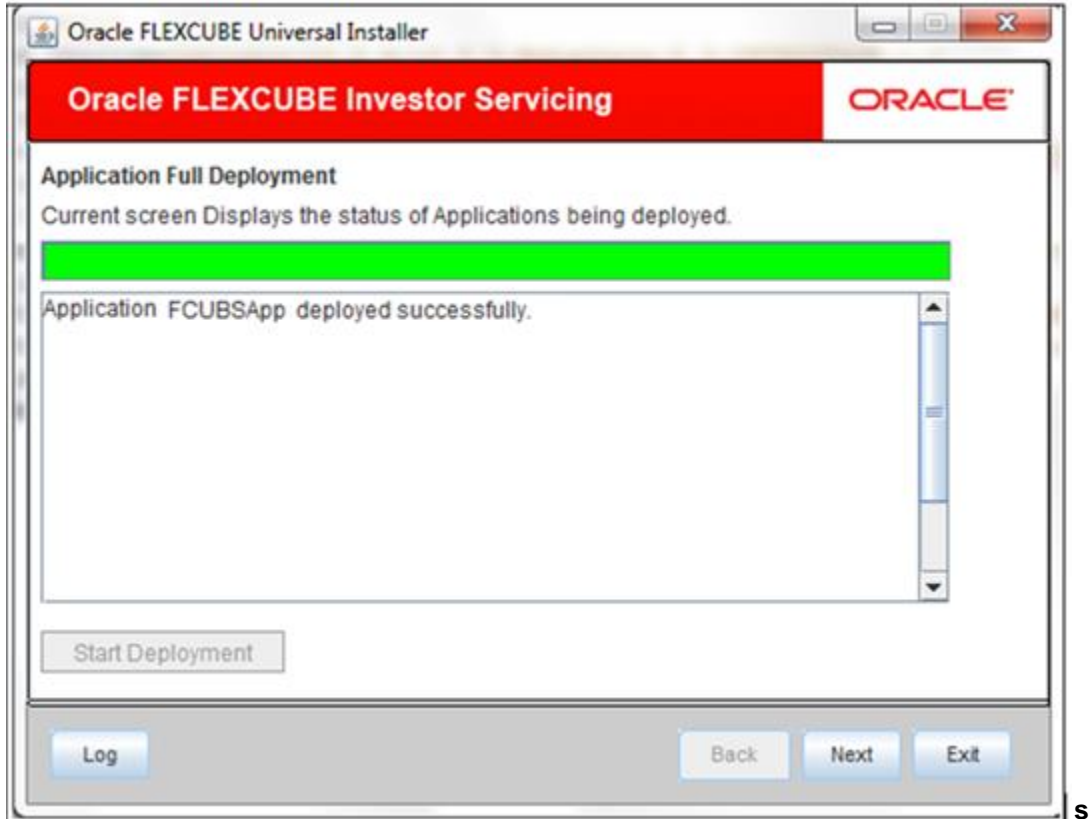


23. Click 'Start Deployment' to begin the process of application deployment.

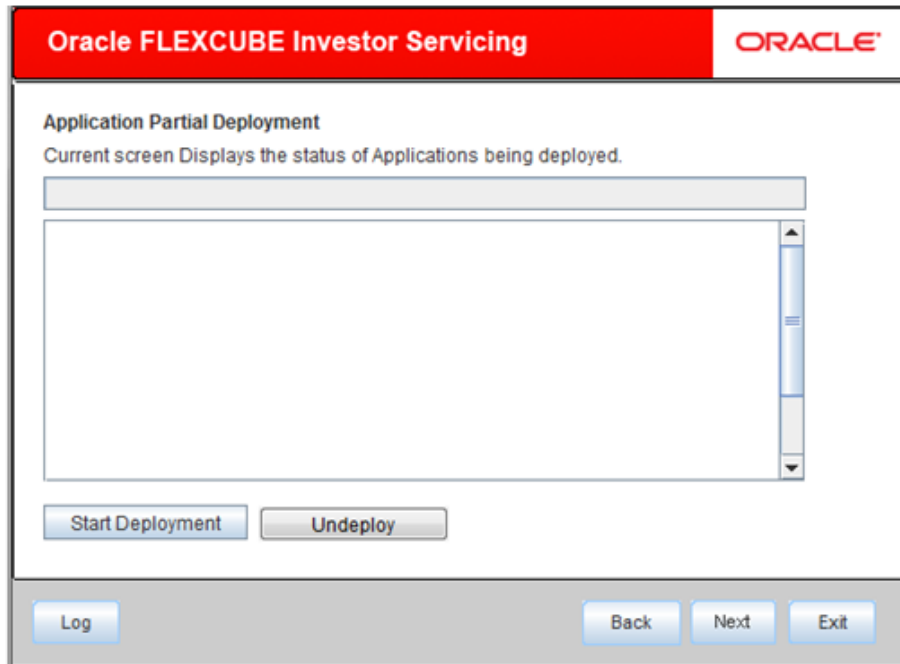
On successful deployment, you will get the following message and the screen is expected to look like below.



24. Click 'OK' and the following screen is displayed:



25. If the deployment is not successful, the 'Undeploy' button will be enabled.

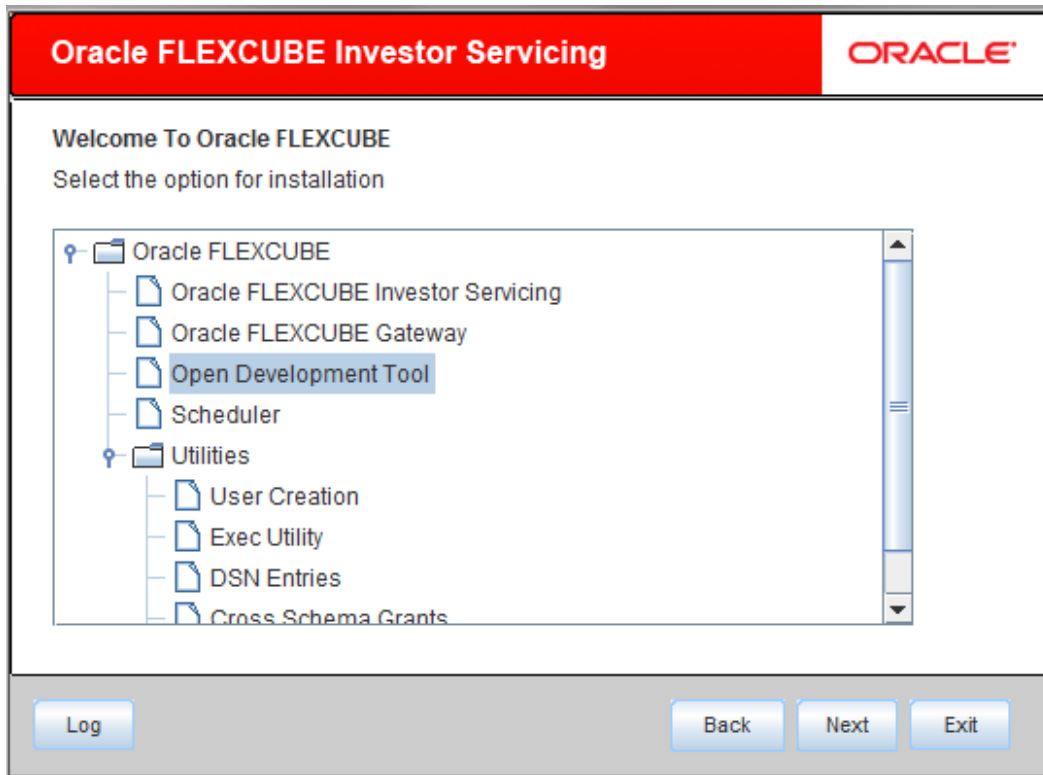




26. Click 'Undeploy' for undeploying the partially deployed EAR from the server.

## 4. Development Tool (ODT) Application Full Deployment

1. Launch Oracle FLEXCUBE Investor Servicing Installer.
2. Click on 'Next' to display the screen below.



3. Select 'Open Development Tool'.

- Click 'Next' to display the screen below.

Oracle FLEXCUBE Investor Servicing

ORACLE

Welcome To Oracle FLEXCUBE  
Choose Oracle FLEXCUBE Component for installation.

Build Application  
Database  
Deploy Application

Operating System Linux

Application Server Weblogic

DataBase Server Oracle

Log Back Next Exit

- Select 'Deploy Application'.
- Specify the following details:

#### **Operating System**

Select the server's operating system in which you are installing the FCIS application. Select the appropriate one from the adjoining drop-down list.

#### **Application Server**

Select 'Websphere' from the adjoining drop down list.

#### **Database Server**

Select the database server in which you are installing the FCIS application. Select the appropriate one from the adjoining drop-down list.

SelectSelectWebsphere

7. Click on 'Next' to display the screen below.

| Name                  | Value      |
|-----------------------|------------|
| Admin IP              | localhost  |
| Admin Port            | 7001       |
| Admin Username        | weblogic   |
| Server Admin Password | •••••••••• |

8. Specify the following details:

**Admin IP**

Not applicable.

**Admin Port**

Not applicable.

**Admin UserName**

Specify the appropriate admin username of the websphere application server.

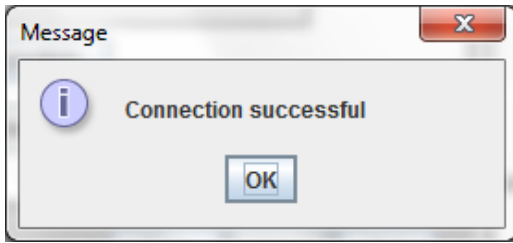
**Admin Password**

Specify the appropriate admin password of the websphere application server.

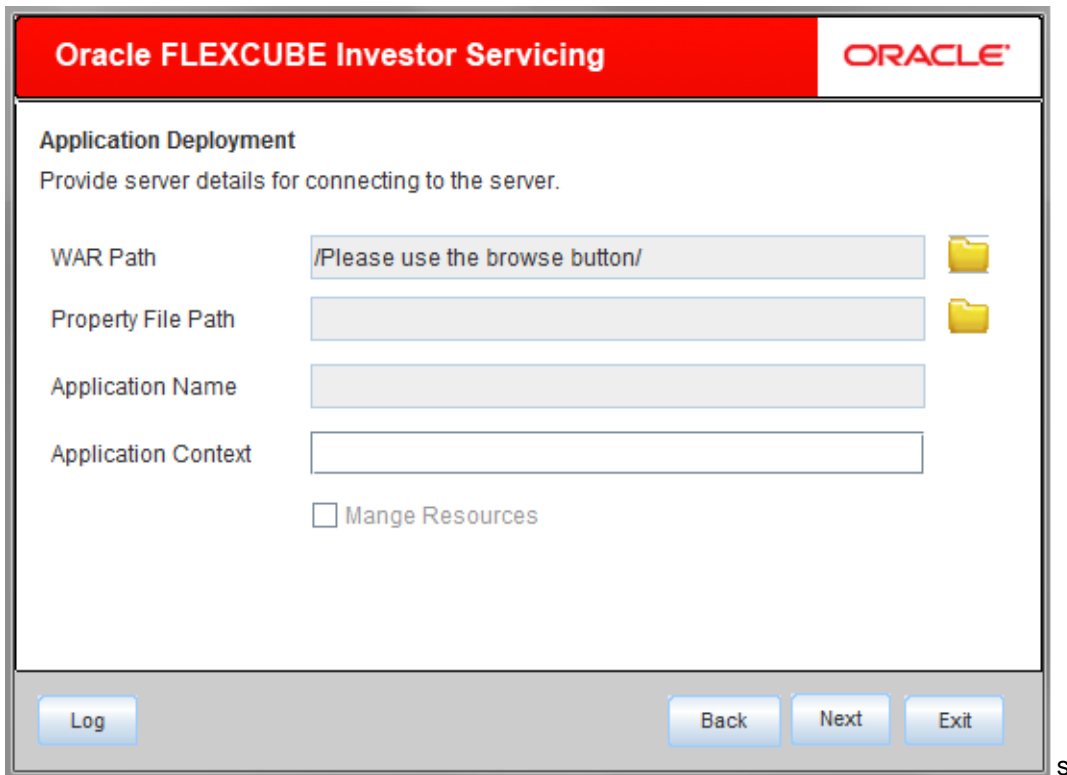
**Type of Deployment**

Select 'Full Deployment'.

- Click on 'Test Connection' to test the connection with the application server. On successful connection, the following message will be displayed.




- Click on 'OK' and click on 'Next' to display the screen below.



- Specify the following details:

#### WAR Path

Select the application WAR to be deployed using the browse button.

 The Application WAR path cannot be copied and pasted on to the text box, thereby demanding the use of the browse button to the select the WAR.

#### Property File Path

If the property file is internal to the application EAR, it gets displayed here on selection of EAR path. If the property file is external, specify the location. You can use the directory button to browser and select the directory..

### Application Name

Application name gets displayed on selection of EAR path.

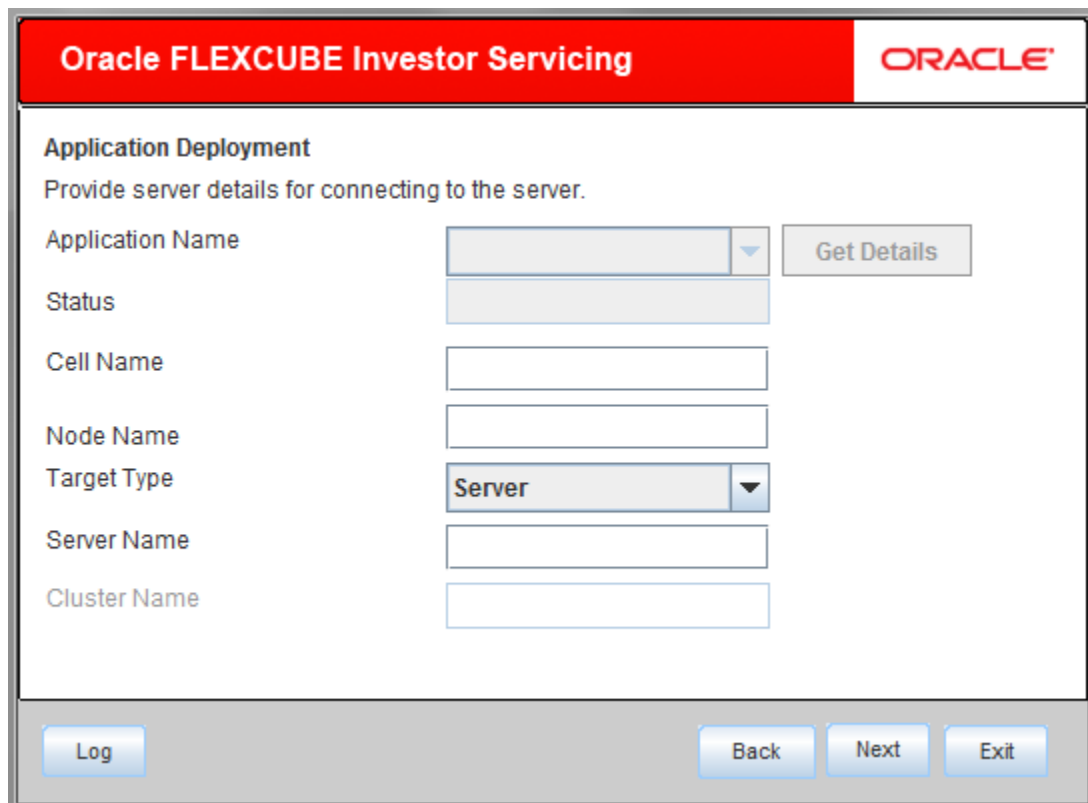
### Application Context.

Application context gets displayed on selection of EAR path.

### Manage Resources

Not Applicable for websphere application server.

12. Click 'Next' to display the screen below.



The screenshot shows a web application window titled "Oracle FLEXCUBE Investor Servicing" with the Oracle logo in the top right corner. The main content area is titled "Application Deployment" and contains the instruction "Provide server details for connecting to the server." Below this, there are several input fields: "Application Name" (a dropdown menu), "Status" (a text box), "Cell Name" (a text box), "Node Name" (a text box), "Target Type" (a dropdown menu with "Server" selected), "Server Name" (a text box), and "Cluster Name" (a text box). A "Get Details" button is located to the right of the "Application Name" dropdown. At the bottom of the window, there are four buttons: "Log", "Back", "Next", and "Exit".

13. Specify the following details:

### Application Name

Not applicable for application full deployment.

### Status

Not applicable for application full deployment.

### Cell Name

Specify the appropriate cell name.

### Node Name

Specify the appropriate node name.

### Target Type


Select the appropriate target type.

### Server Name

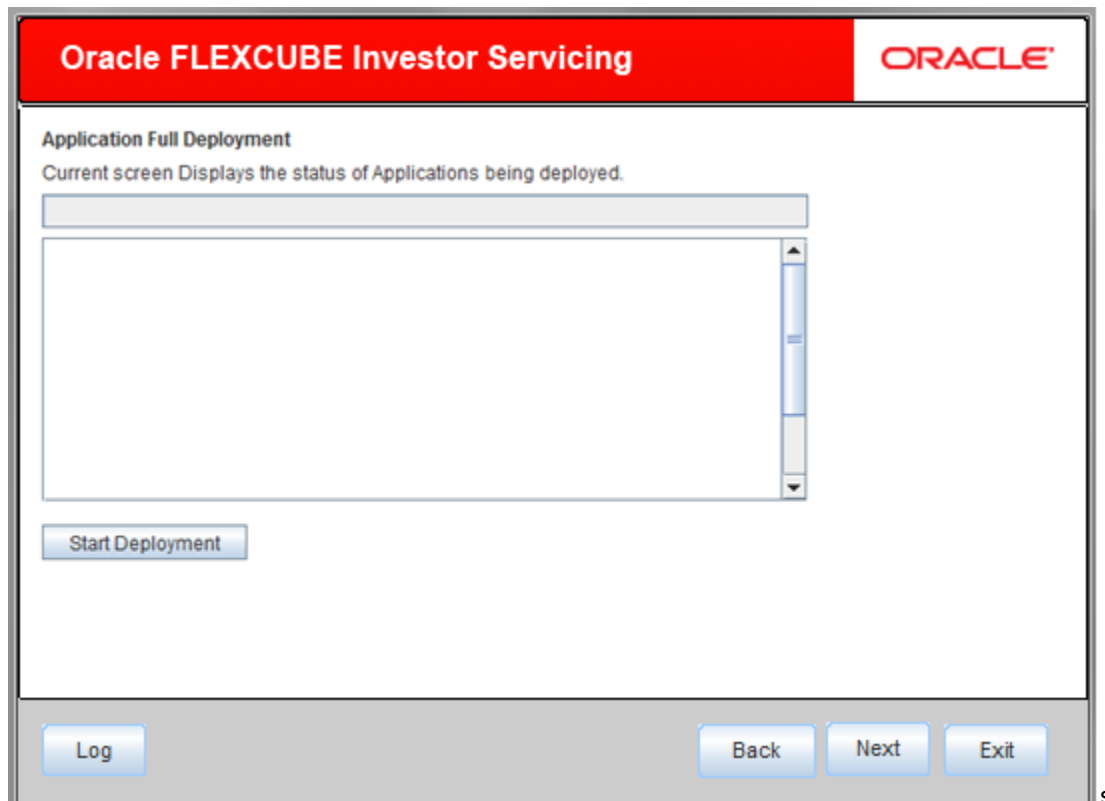
Specify the appropriate server name if the selected target type is 'Server'.

### Cluster Name

Specify the appropriate cluster name if the selected target type is 'Cluster'.

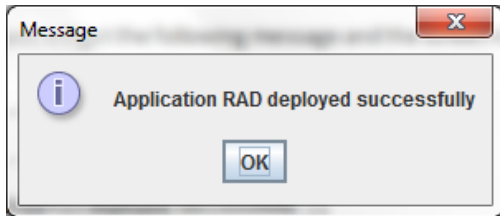
 The values fed in the above screen are not validated at the screen level as a result of a limitation and hence, specify accurate information.

14. Click 'Next' to display the screen below.

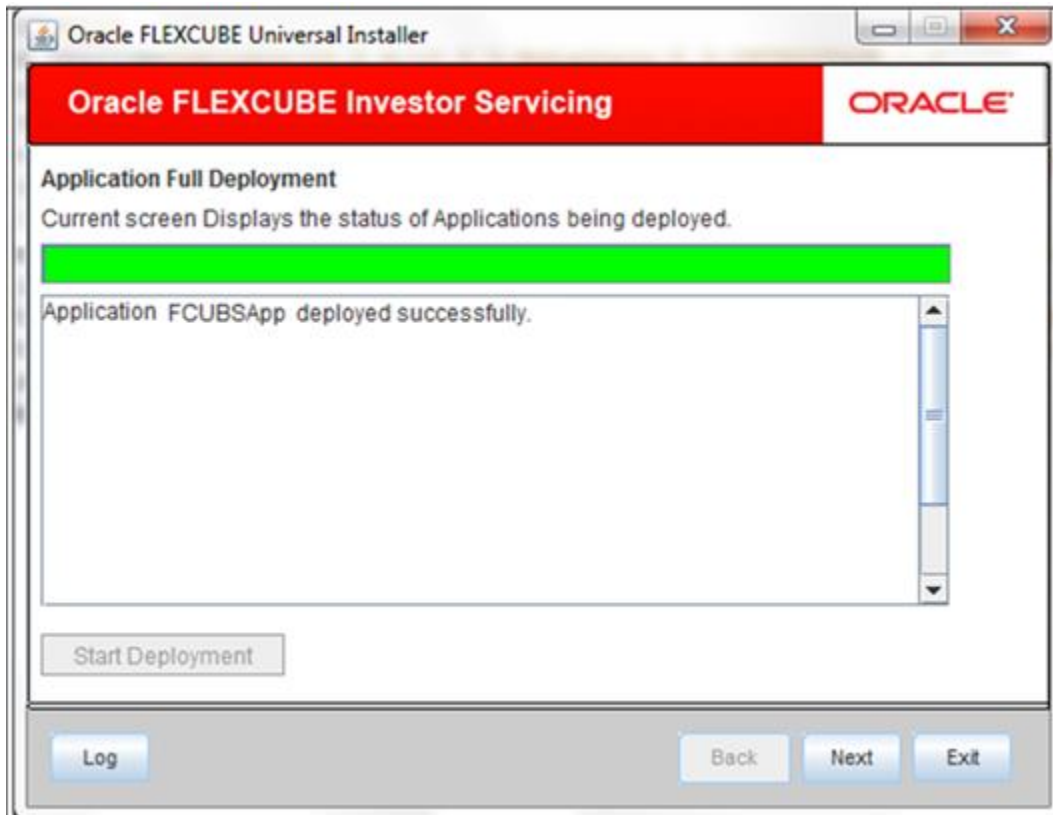


15. Click 'Start Deployment' to begin the process of application deployment.

16. On successful deployment, you will get the following message is displayed:.



17. Click 'OK' and following screen is displayed:







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