

Open Development Tool Installation
Oracle FLEXCUBE Investor Servicing
Release 12.4.0.0.0
E86909_01
[May] [2017]



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1. Open Development Tool Installation

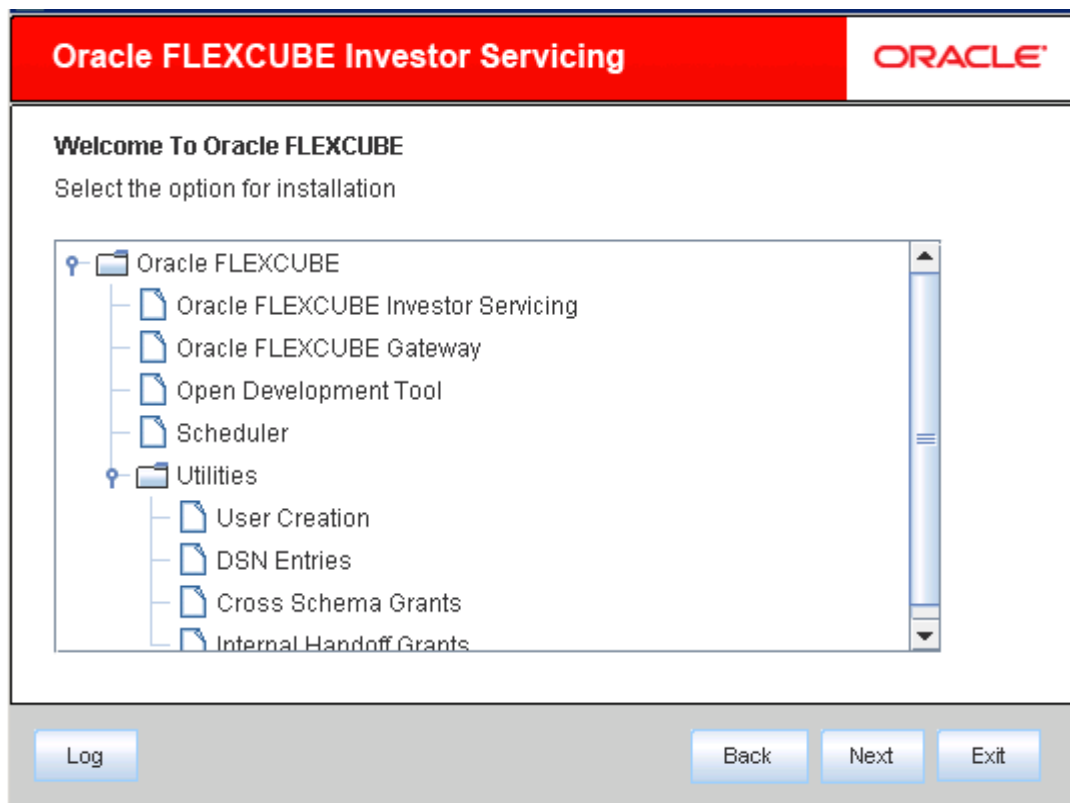
1.1 Introduction

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.

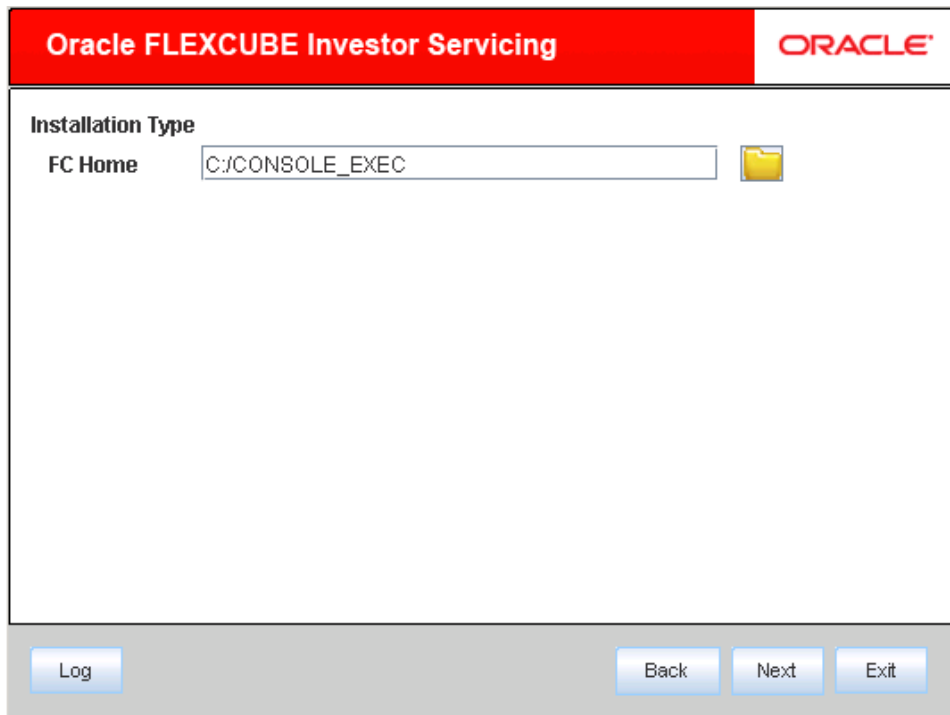
Application Server

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

DataBase Server

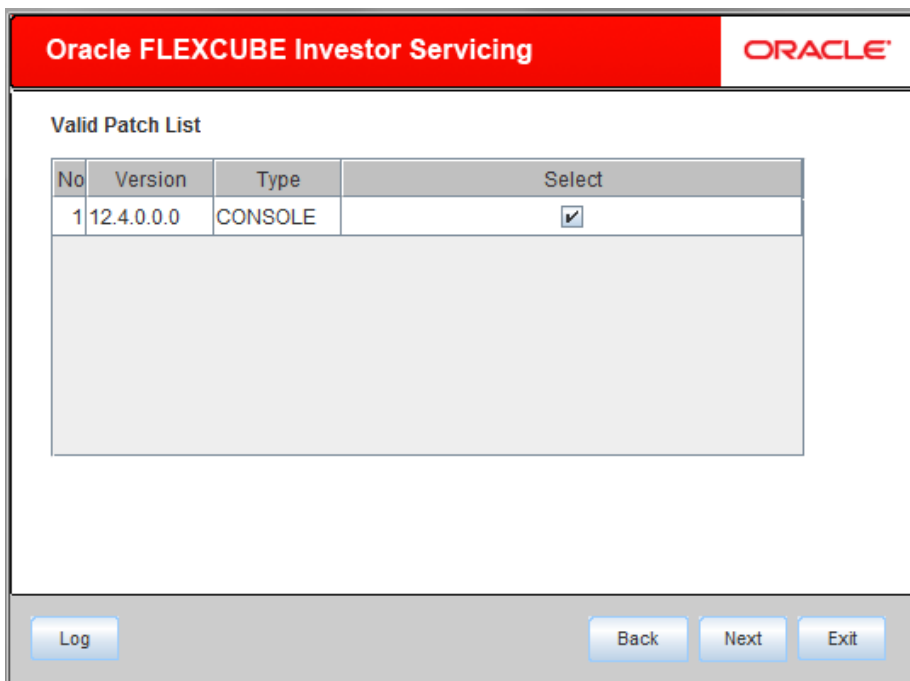
Specify the database server on which you are installing Oracle FLEXCUBE.

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



The screenshot shows the 'Installation Type' screen of the Oracle FLEXCUBE Investor Servicing application. The title bar is red with 'Oracle FLEXCUBE Investor Servicing' and the 'ORACLE' logo. The main area is titled 'Installation Type' and contains 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, there is a grey bar with 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 of the Oracle FLEXCUBE Investor Servicing application. The title bar is red with 'Oracle FLEXCUBE Investor Servicing' and the 'ORACLE' logo. The main area is titled 'Valid Patch List' and contains a table with the following data:

No	Version	Type	Select
1	12.4.0.0.0	CONSOLE	☒

Below the table is a large empty rectangular box. At the bottom, there is a grey bar with 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

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

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 a window titled "Oracle FLEXCUBE Investor Servicing" with the Oracle logo in the top right. The main heading is "Property File Creation". Below it, the instruction reads: "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 the warning box, a red informational box 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" (with a mouse cursor over it), and "Exit".

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

The screenshot shows a window titled "Oracle FLEXCUBE Investor Servicing" with the Oracle logo in the top right. The main heading is "Build Process". Below it, the instruction reads: "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" (with a mouse cursor over it), and "Exit".

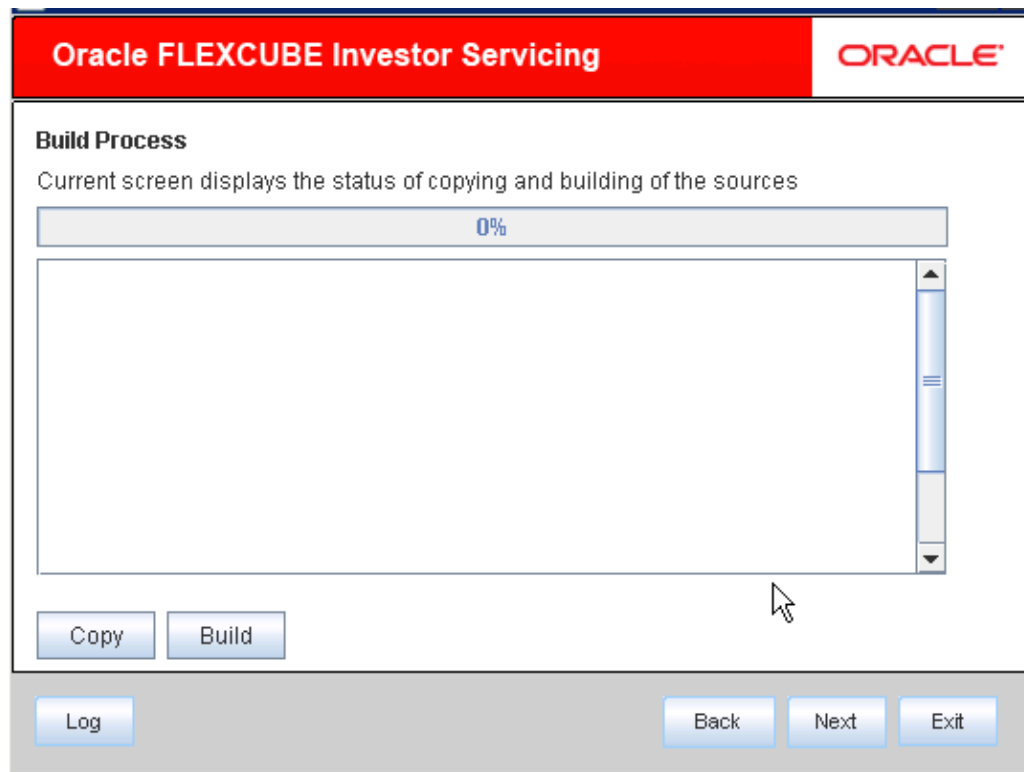
Destination Directory

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

Application Name

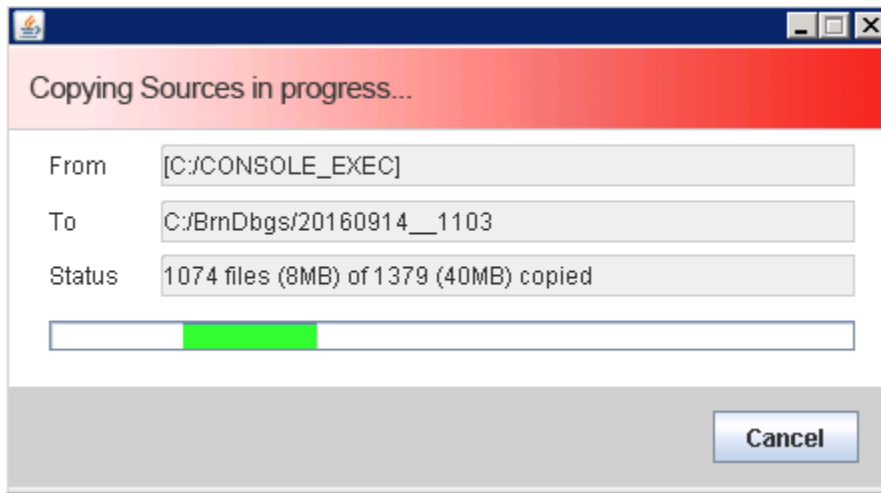
Specify the desired name for the application. For example,,: RAD.

Click 'Next. The following screen is displayed.

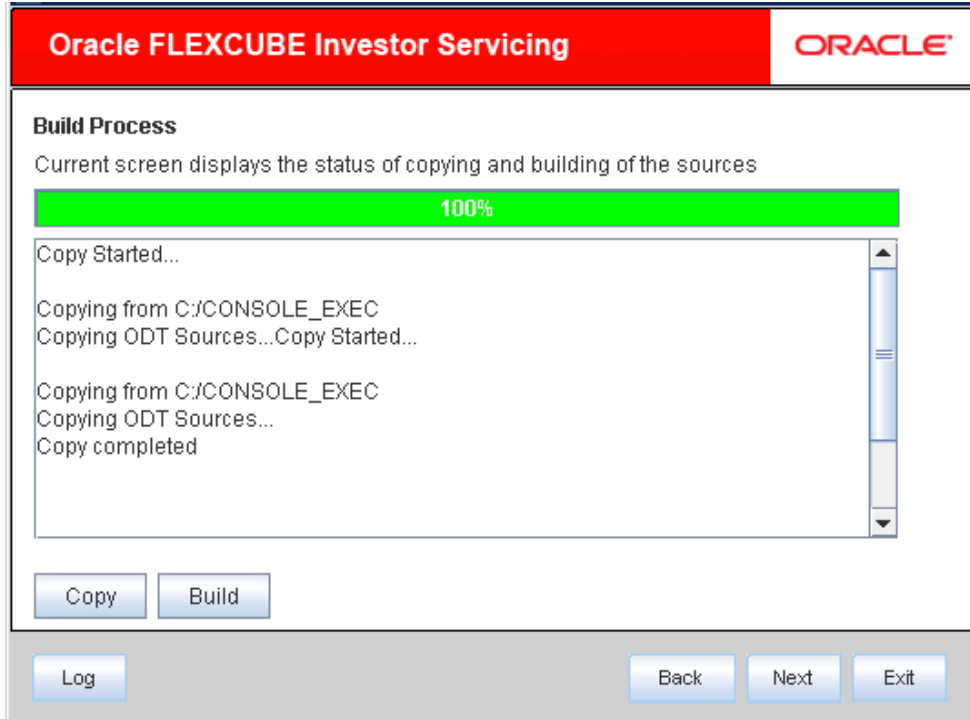


You can select all the source directories in this screen. The Installer will copy the sources from the multiple locations into the destination directory. You can have consolidated sources in the destination directory.

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

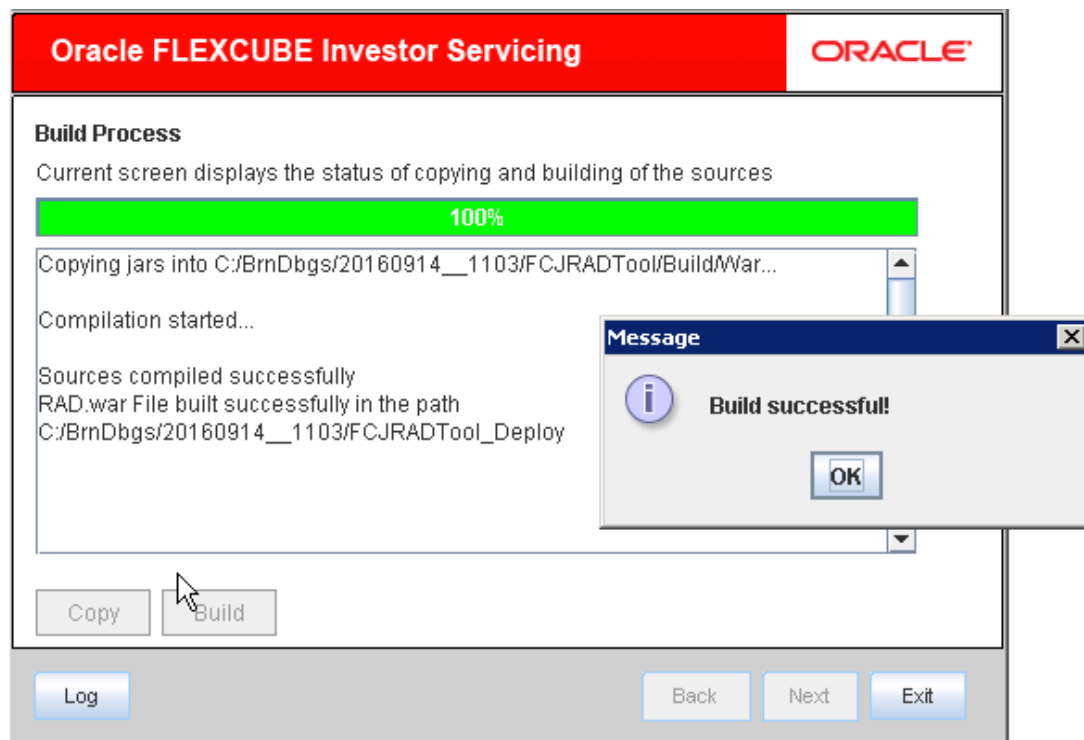


Once the copying process is done, the following screen is displayed:

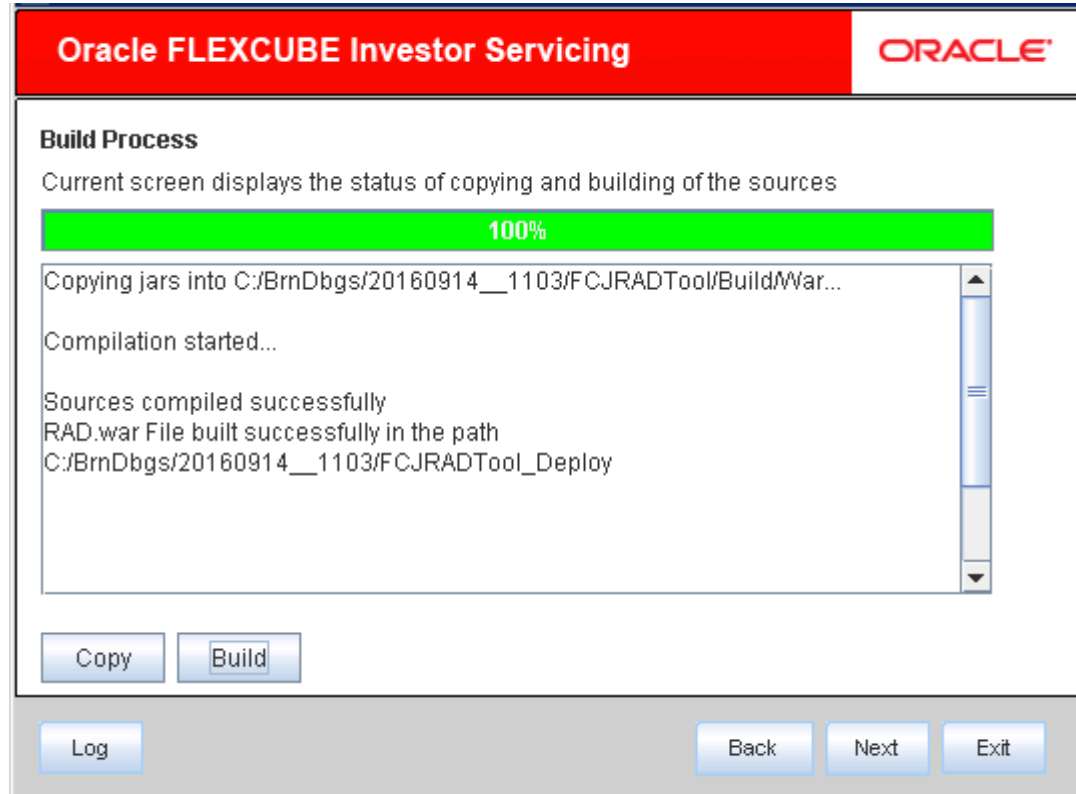


Click 'Build' button to build the war file in the destination location.

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



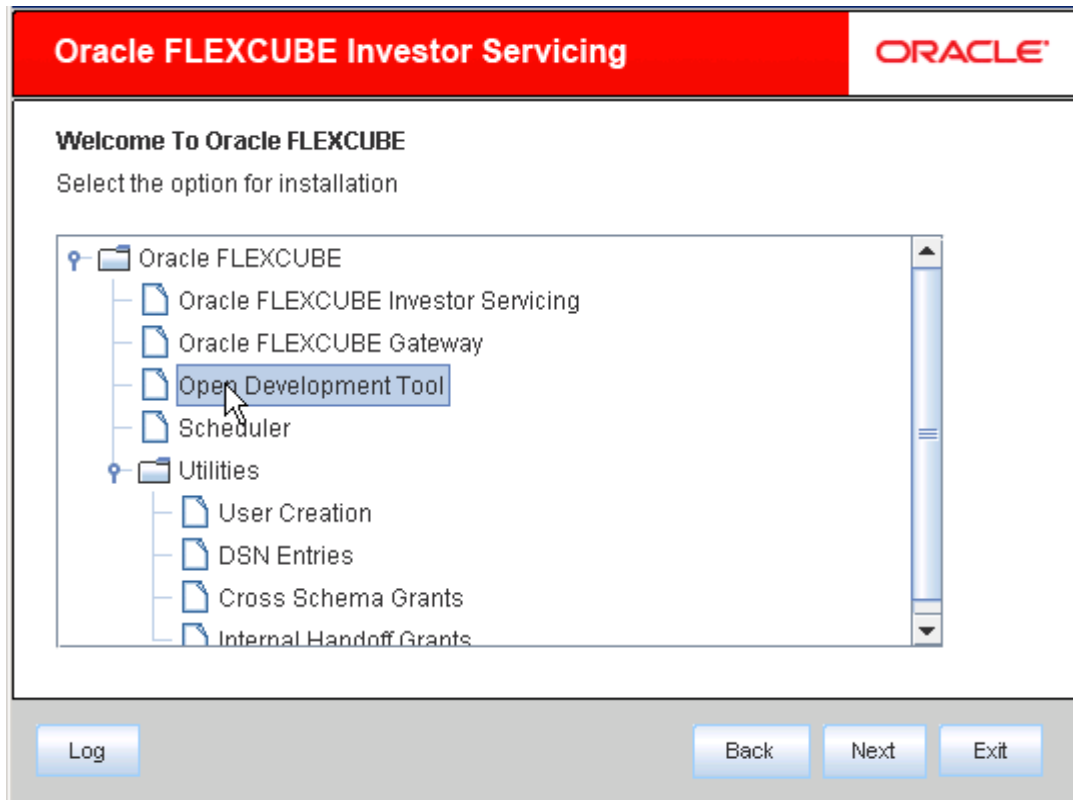
Click OK. The following screen is displayed:



2. Setting up Database for Open Development Tool

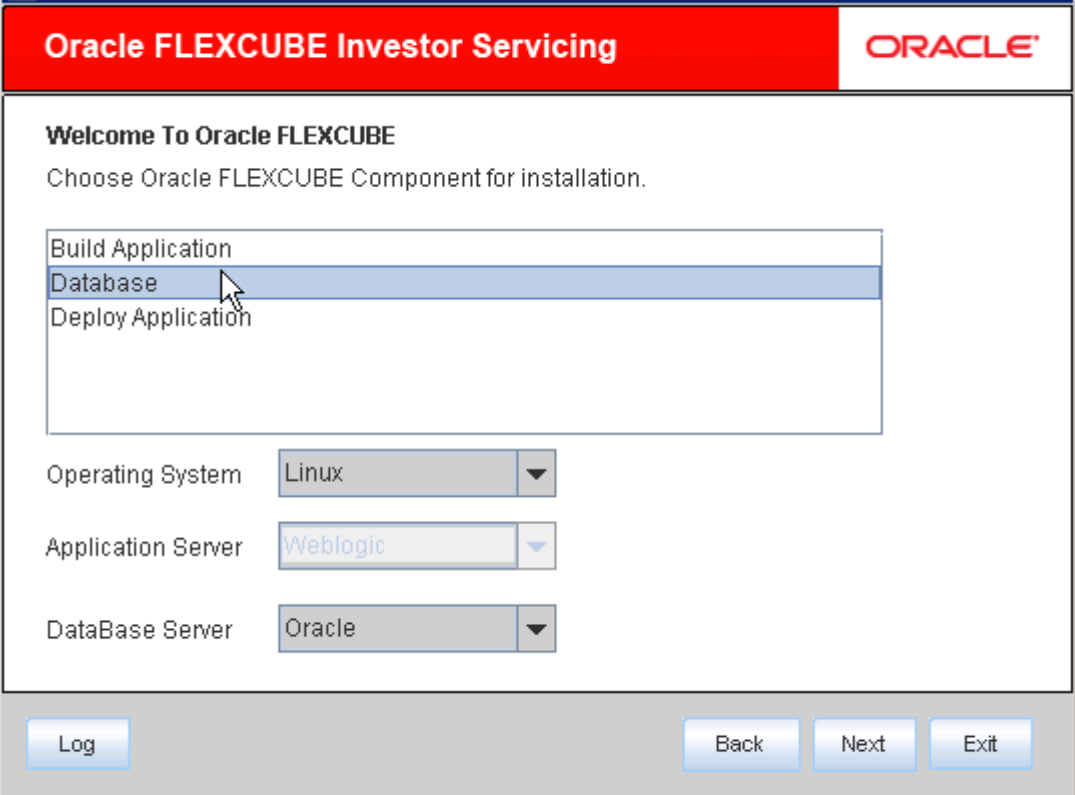
To set up database for Open Development Tool (ODT), follow the steps given below:

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'.

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



The screenshot shows the 'Oracle FLEXCUBE Investor Servicing' installation window. The title bar is red with the Oracle logo. The main content area has a white background with the text 'Welcome To Oracle FLEXCUBE' and 'Choose Oracle FLEXCUBE Component for installation.' Below this is a list box containing three options: 'Build Application', 'Database' (which is highlighted with a blue background and a mouse cursor), and 'Deploy Application'. Below the list box are three dropdown menus: 'Operating System' with 'Linux' selected, 'Application Server' with 'Weblogic' selected, and 'DataBase Server' with 'Oracle' selected. At the bottom of the window is a grey bar containing four buttons: 'Log', 'Back', 'Next', and 'Exit'.

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

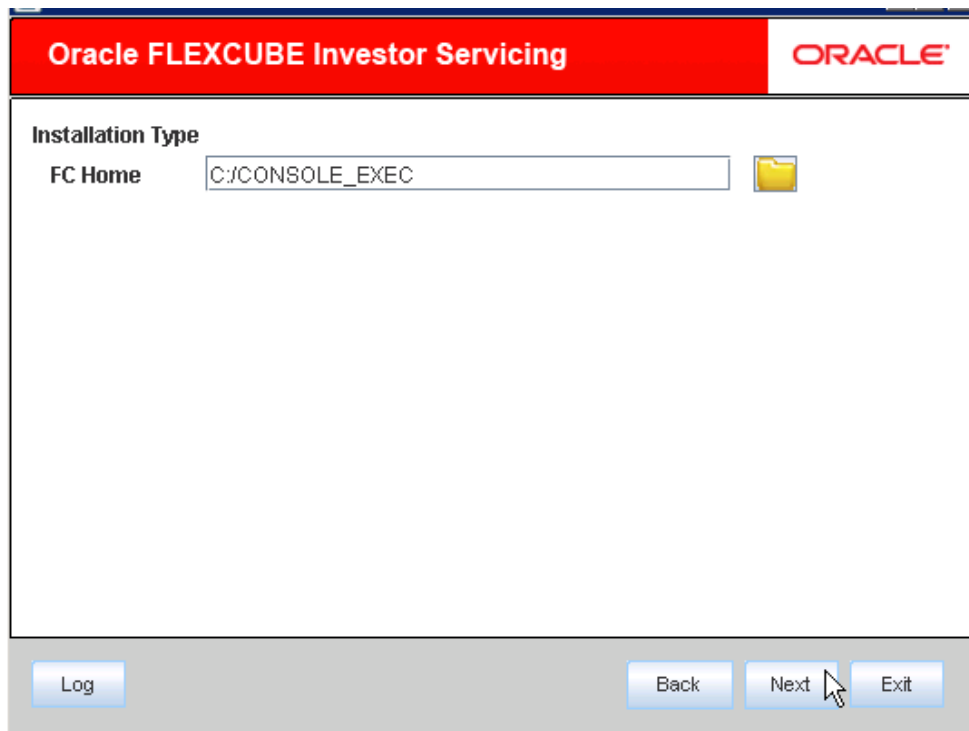
Operating System

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

Database Server

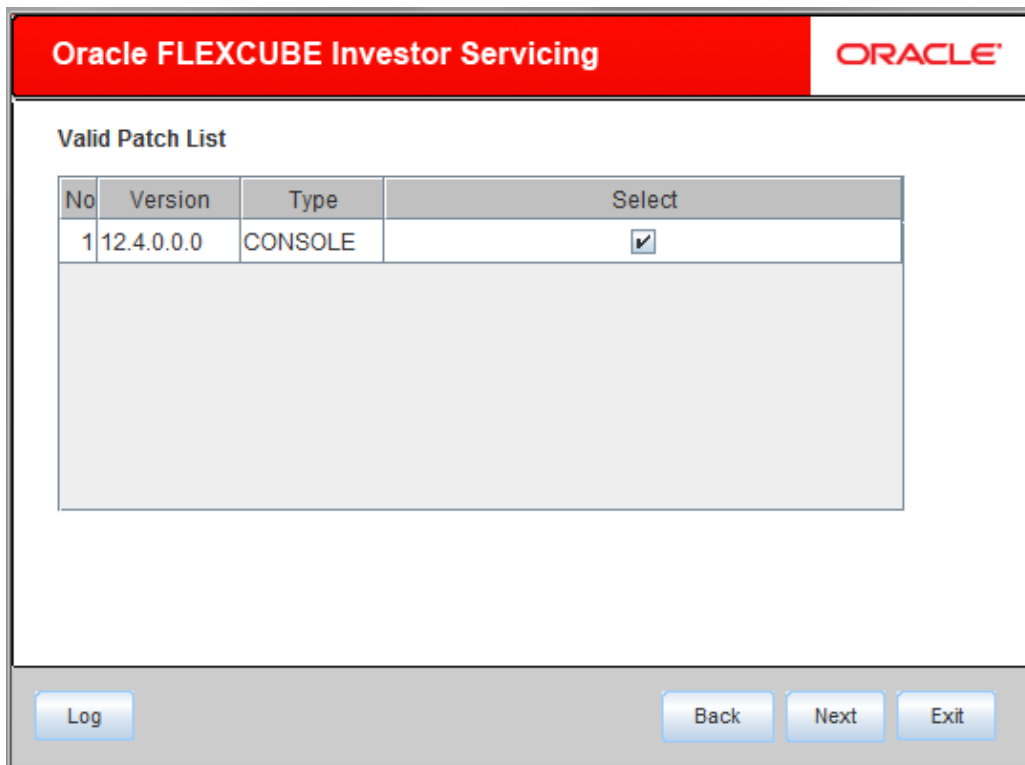
Specify the database server on which you are installing Oracle FLEXCUBE.

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



The screenshot shows the 'Installation Type' screen of the Oracle FLEXCUBE Investor Servicing application. The title bar is red with 'Oracle FLEXCUBE Investor Servicing' and the 'ORACLE' logo. The main area is titled 'Installation Type' and contains a label 'FC Home' followed by a text input field containing 'C:/CONSOLE_EXEC' and a folder icon. At the bottom, there are four buttons: 'Log', 'Back', 'Next' (with a mouse cursor over it), and 'Exit'.

Browse for Console_EXEC folder and click 'Next'. The following screen is displayed:



The screenshot shows the 'Valid Patch List' screen of the Oracle FLEXCUBE Investor Servicing application. The title bar is red with 'Oracle FLEXCUBE Investor Servicing' and the 'ORACLE' logo. The main area is titled 'Valid Patch List' and contains a table with the following data:

No	Version	Type	Select
1	12.4.0.0.0	CONSOLE	☒

Below the table is a large empty rectangular area. At the bottom, there are four buttons: 'Log', 'Back', 'Next', and 'Exit'.

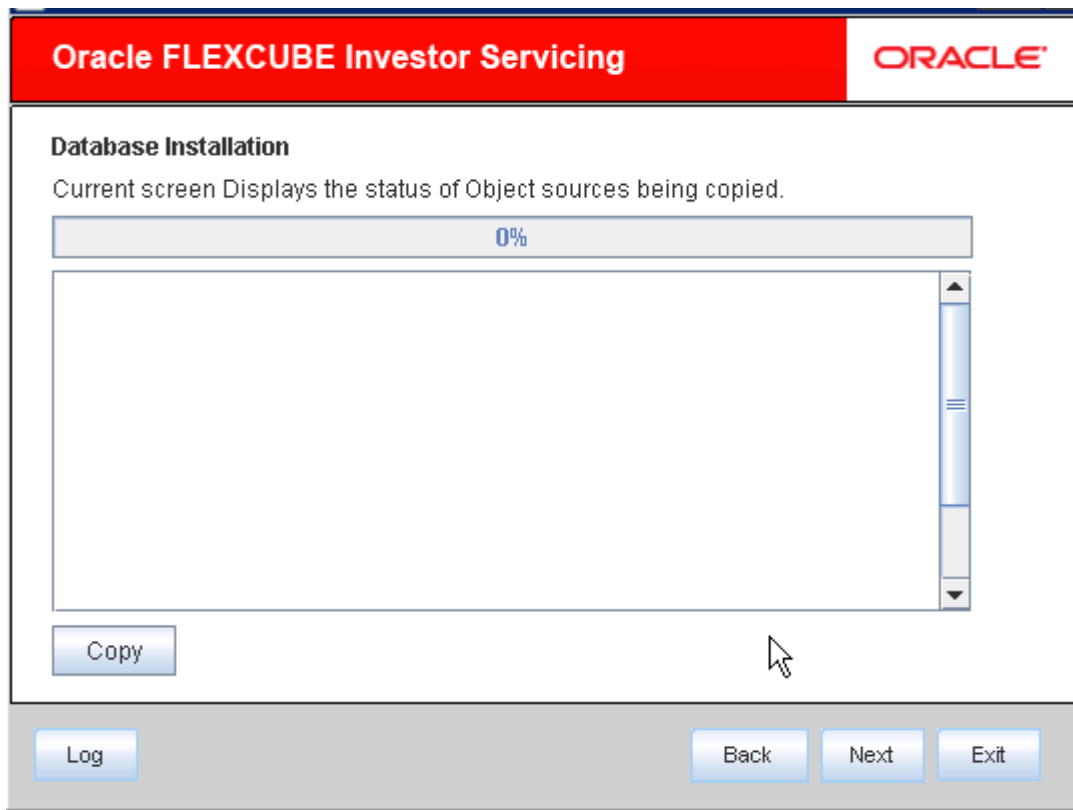
Select the console type and select 'Next'. The following screen is displayed:

The screenshot shows a software installation window titled "Oracle FLEXCUBE Investor Servicing" with the Oracle logo in the top right corner. The main heading is "Database Installation" with the instruction "Specify destination path." Below this, there is a text field labeled "Destination Directory" containing the path "C:\BrnDbgs". To the right of the text field is a yellow folder icon. At the bottom of the window, there is a grey bar containing four buttons: "Log", "Back", "Next", and "Exit".

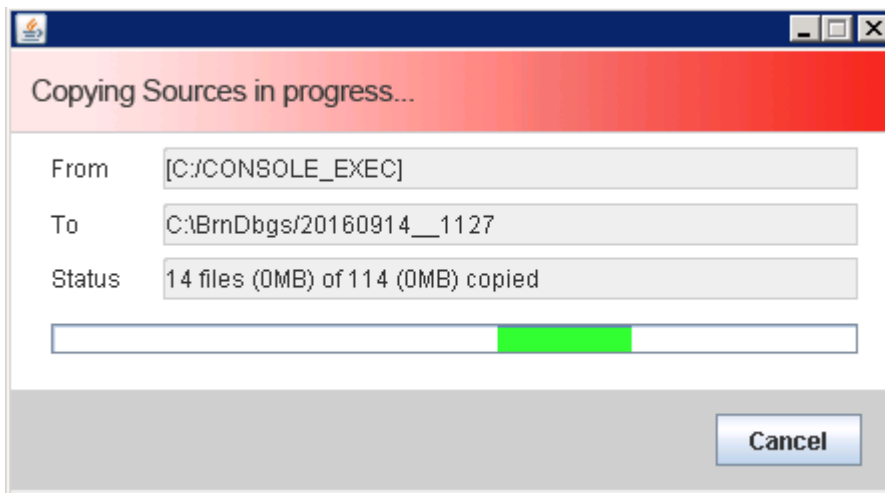
Destination Directory

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.

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

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.

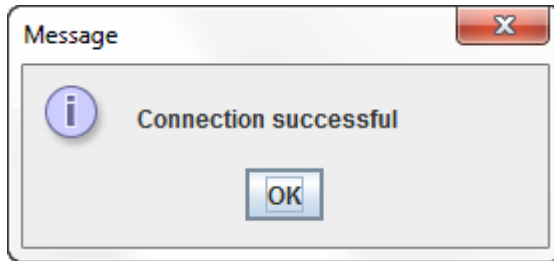
Port

Specify the port number.

TNS Connect Descriptor

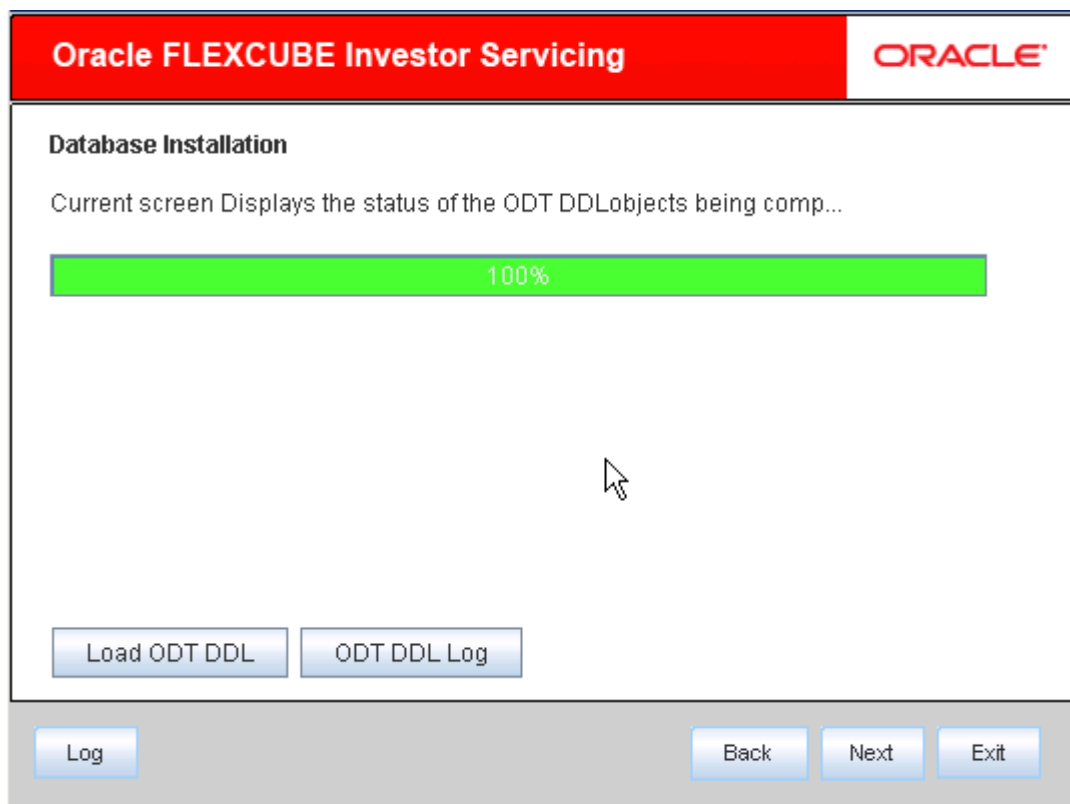
Specify a valid connect string that contains the details for database connectivity.

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

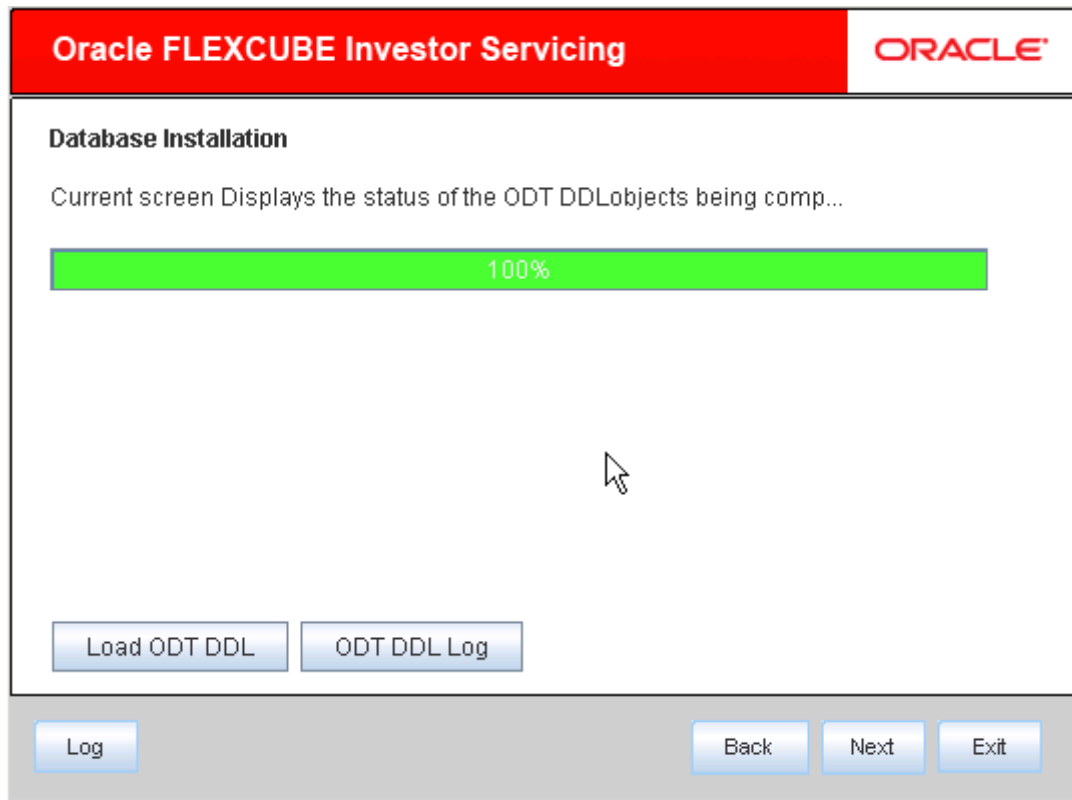


The above message is displayed if the connection is established successfully.

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

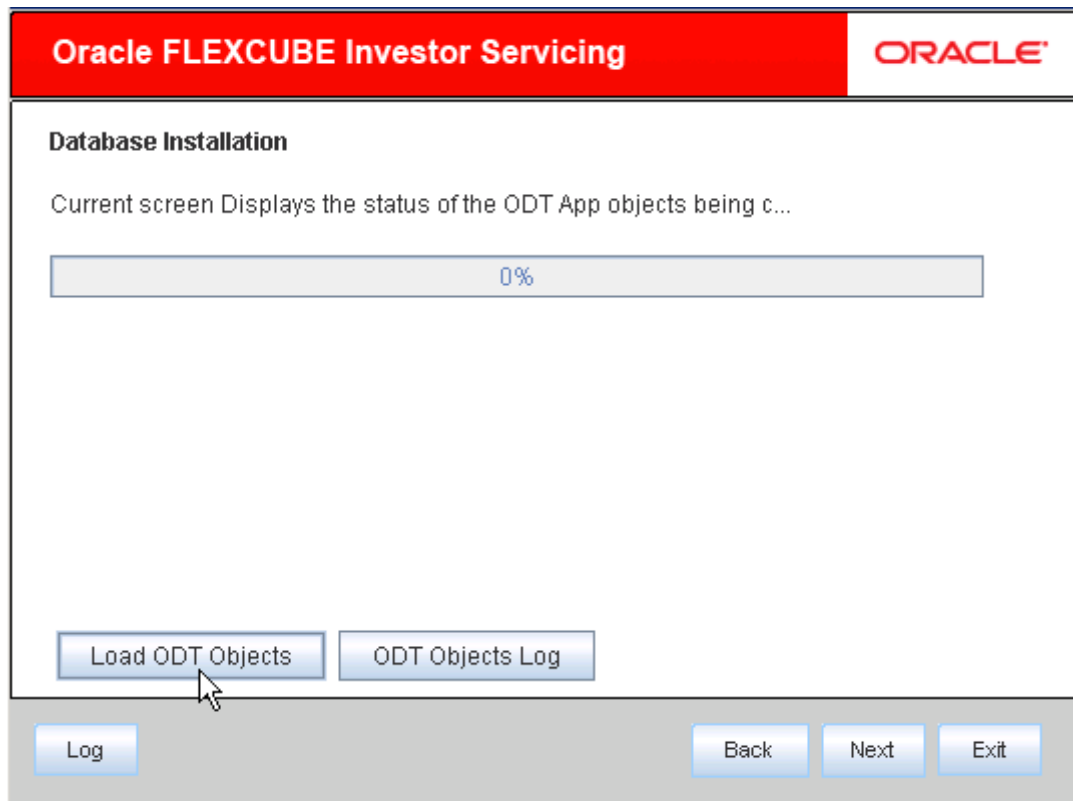


11. Click 'Load ODT DDL' button to start compiling. The objects 'Type', 'Table', and 'Sequence' will be compiled and the count will be updated. You can verify the DDL objects compilation by comparing the current count and the release count. The release count is the number of files in the temporary folder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

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.

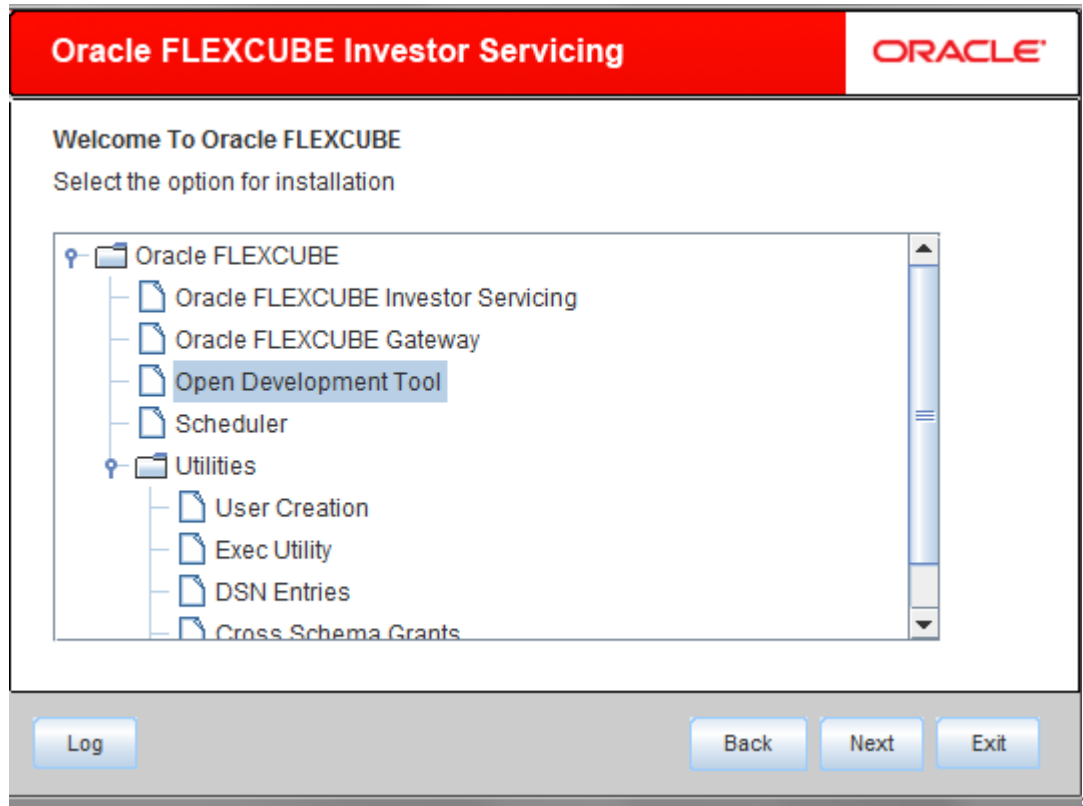
The screenshot shows the 'Database Installation' screen of the Oracle FLEXCUBE Investor Servicing application. At the top, there is a red header bar with the text 'Oracle FLEXCUBE Investor Servicing' and the 'ORACLE' logo. Below the header, the title 'Database Installation' is displayed, followed by the instruction 'Current screen Displays the number of invalids in the DB.' A progress bar shows '0%'. A table lists the invalid counts for various object types. At the bottom of the table area are two buttons: 'Invalids List' and 'Recompile'. The footer contains a 'Log' button on the left and 'Back', 'Next', and 'Exit' buttons on the right.

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.

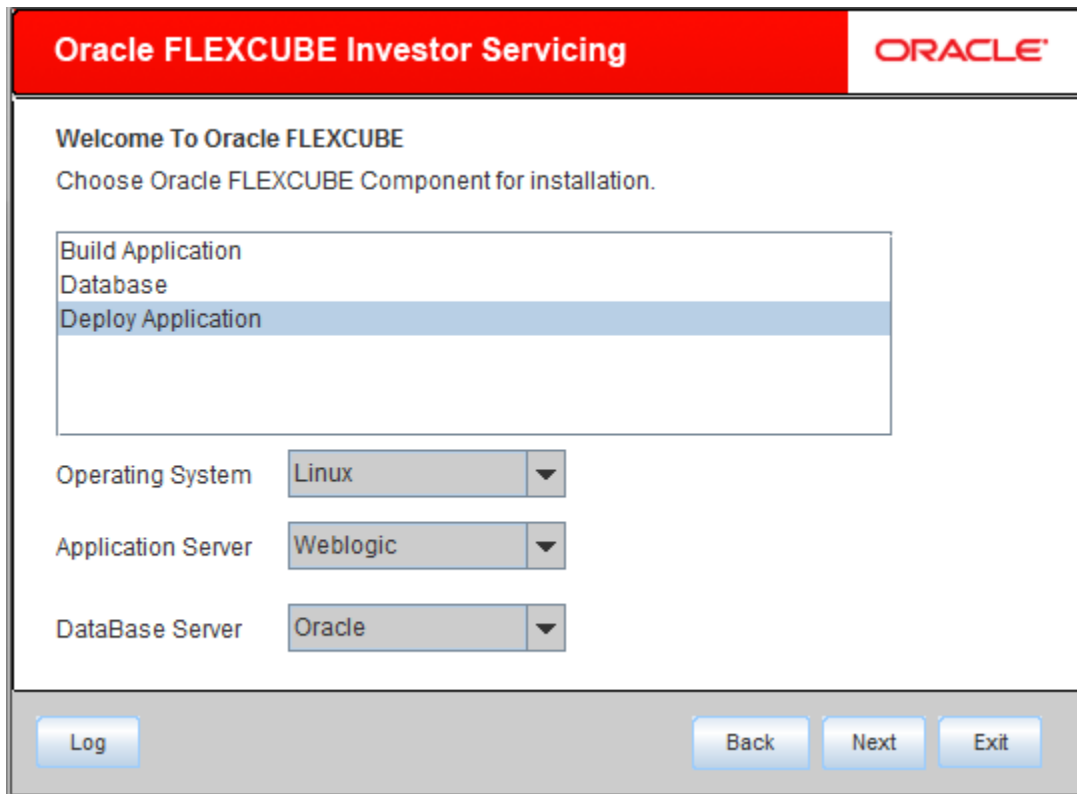
3. Open Development Tool (ODT) Application Full Deployment

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



3. Select 'Open Development Tool'.

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



The image shows a software installation window titled "Oracle FLEXCUBE Investor Servicing" with the Oracle logo in the top right corner. The main content area has a heading "Welcome To Oracle FLEXCUBE" and a sub-heading "Choose Oracle FLEXCUBE Component for installation." Below this is a list box containing three items: "Build Application", "Database", and "Deploy Application". The "Deploy Application" item is currently selected and highlighted in blue. Underneath the list box are three configuration sections, each with a label and a drop-down menu: "Operating System" with "Linux" selected, "Application Server" with "Weblogic" selected, and "DataBase Server" with "Oracle" selected. At the bottom of the window is a grey bar containing four buttons: "Log" on the left, and "Back", "Next", and "Exit" on the right.

5. 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.

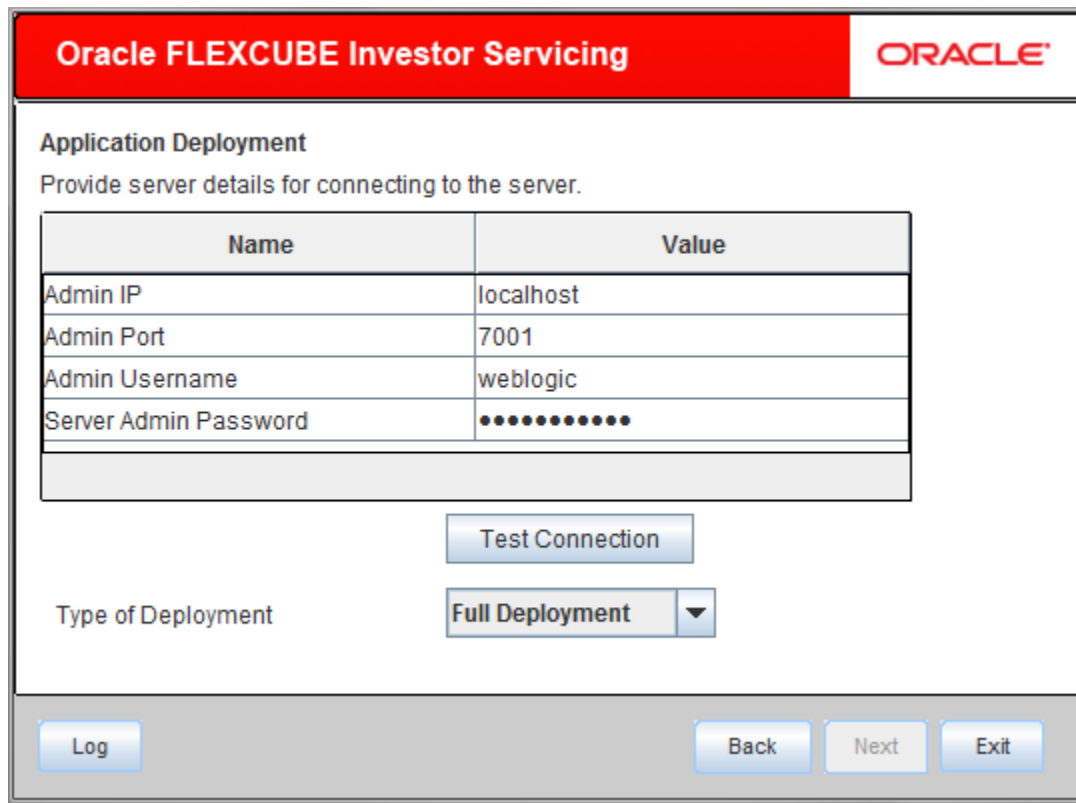
Application Server

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.



The screenshot shows the 'Oracle FLEXCUBE Investor Servicing' application deployment window. It features a red header bar with the Oracle logo. The main content area is titled 'Application Deployment' and includes a sub-header 'Provide server details for connecting to the server.' Below this is a table with two columns: 'Name' and 'Value'. The table contains four rows: 'Admin IP' with value 'localhost', 'Admin Port' with value '7001', 'Admin Username' with value 'weblogic', and 'Server Admin Password' with a masked password '*****'. Below the table is a 'Test Connection' button. Underneath the button is a 'Type of Deployment' label followed by a dropdown menu currently set to 'Full Deployment'. At the bottom of the window is a grey bar containing four buttons: 'Log', 'Back', 'Next', and 'Exit'.

Name	Value
Admin IP	localhost
Admin Port	7001
Admin Username	weblogic
Server Admin Password	*****

Test Connection

Type of Deployment: Full Deployment ▼

Log Back Next Exit

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.

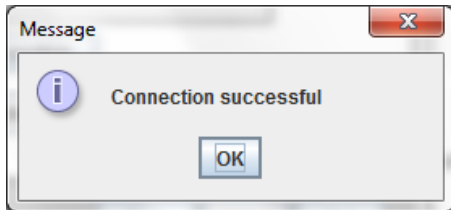
Server Admin Password

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

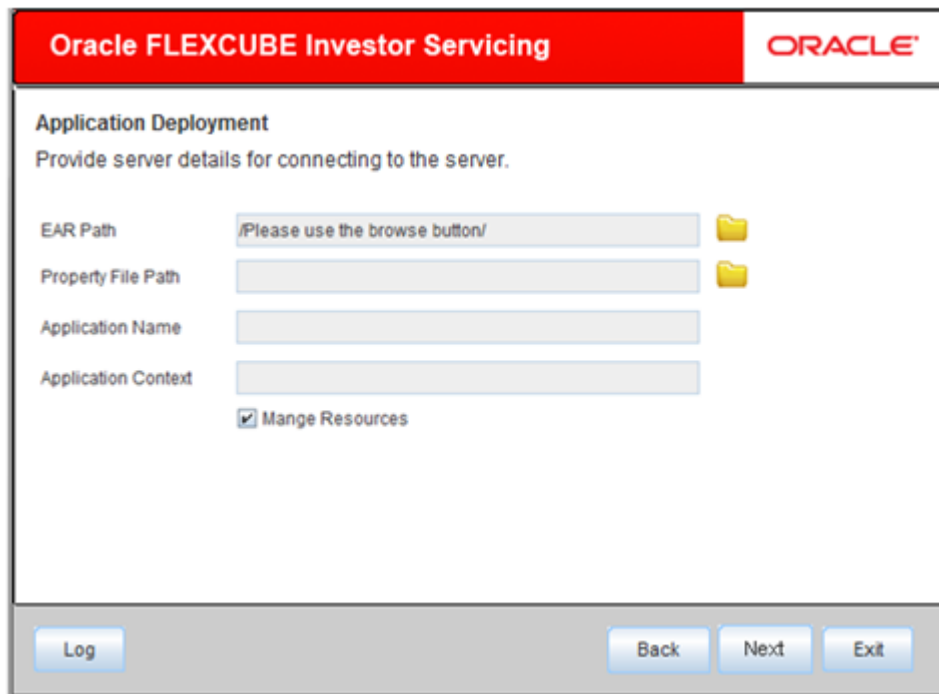
Type of Deployment

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.

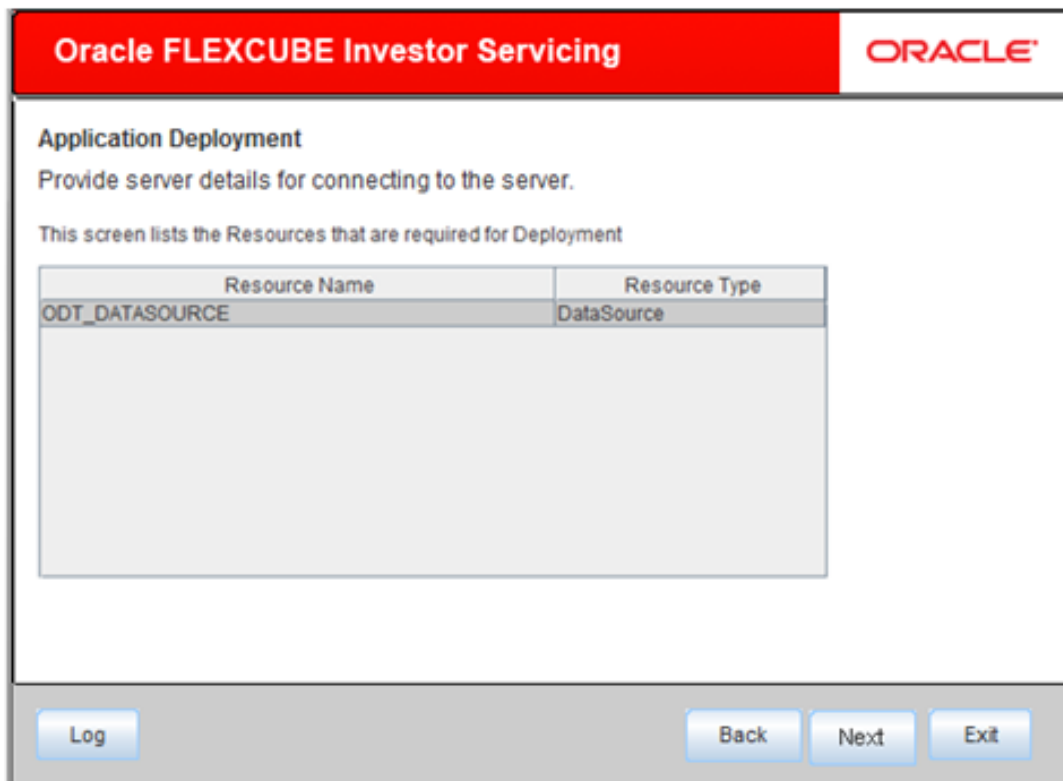
Application Context

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.

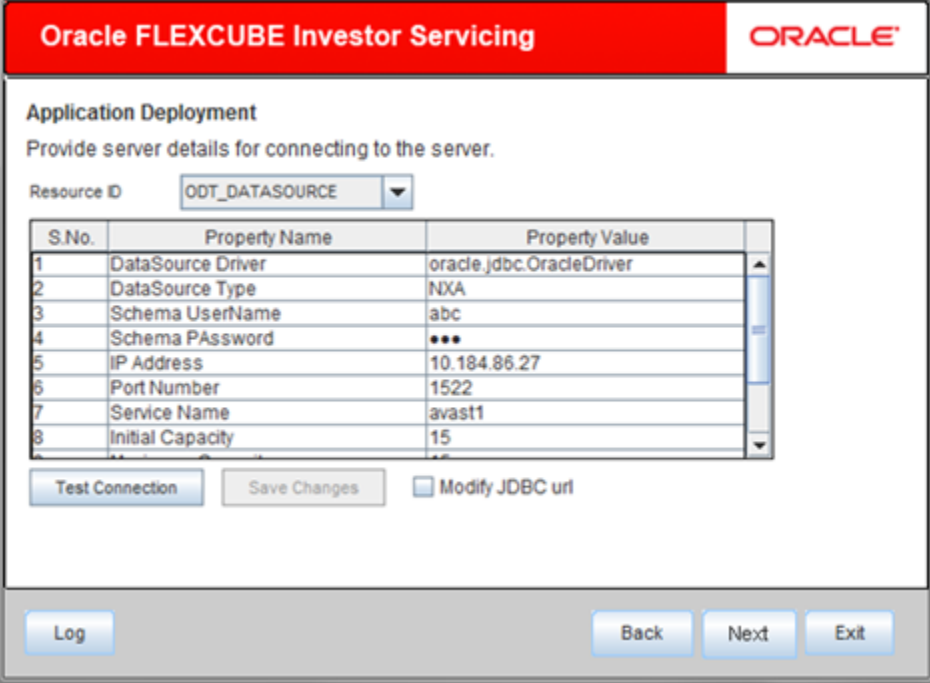


The screenshot shows a web application window titled "Oracle FLEXCUBE Investor Servicing" with the Oracle logo. The main content area is titled "Application Deployment" and contains the following text: "Provide server details for connecting to the server." and "This screen lists the Resources that are 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 window, 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.



The screenshot shows the 'Oracle FLEXCUBE Investor Servicing' application deployment window. It features a red header with the Oracle logo. The main section is titled 'Application Deployment' and instructs the user to 'Provide server details for connecting to the server.' Below this, there is a 'Resource ID' dropdown menu currently set to 'ODT_DATASOURCE'. A table with 3 columns (S.No., Property Name, Property Value) lists the following details:

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

Below the table are three buttons: 'Test Connection', 'Save Changes', and a checkbox labeled 'Modify JDBC url'. At the bottom of the window are three buttons: 'Log', 'Back', 'Next', and '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.

Oracle FLEXCUBE Investor Servicing **ORACLE**

JDBC Url
JDBC url to get connected to the Application server

Resource ID

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

Application Full Deployment
Specify Server environment details for deployment

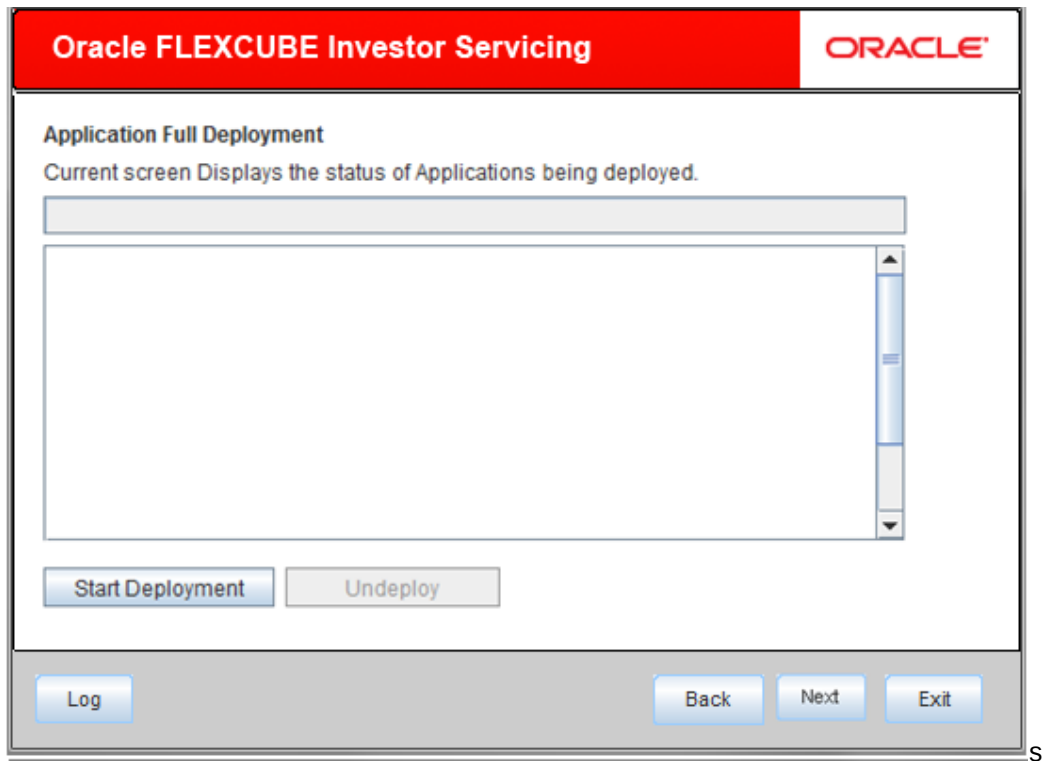
Domain Name

S.No.	Server Name	Deploy
1	AdminServer	☐
2	ManagedServer	☐
3	ClusterTest	☐
4	AVAST	☐

20. The Domain Name shows the weblogic domains name.

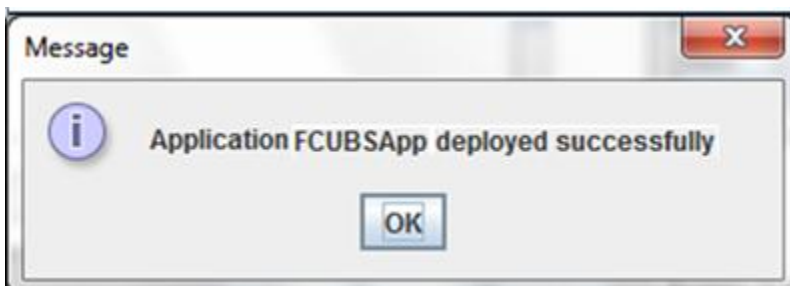
21. Click 'Get Details', the list of available servers are displayed in the table. Atleast one server should be selected to proceed to next screen.

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

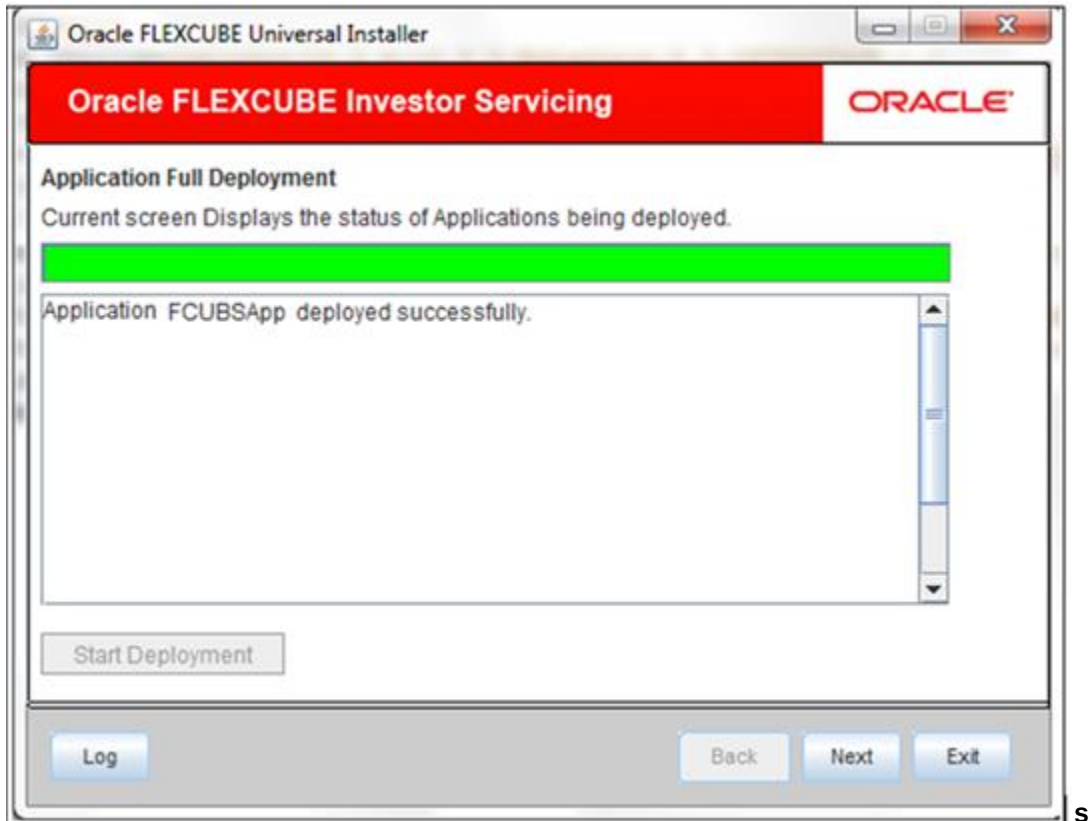


23. Click 'Start Deployment' to begin the process of application deployment.

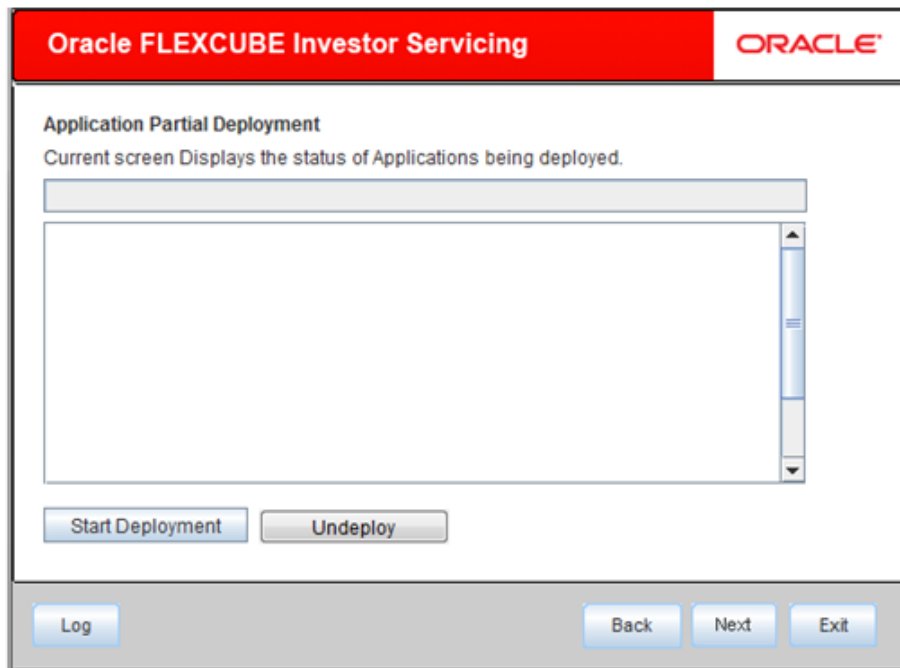
On successful deployment, you will get the following message and the screen is expected to look like below.



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



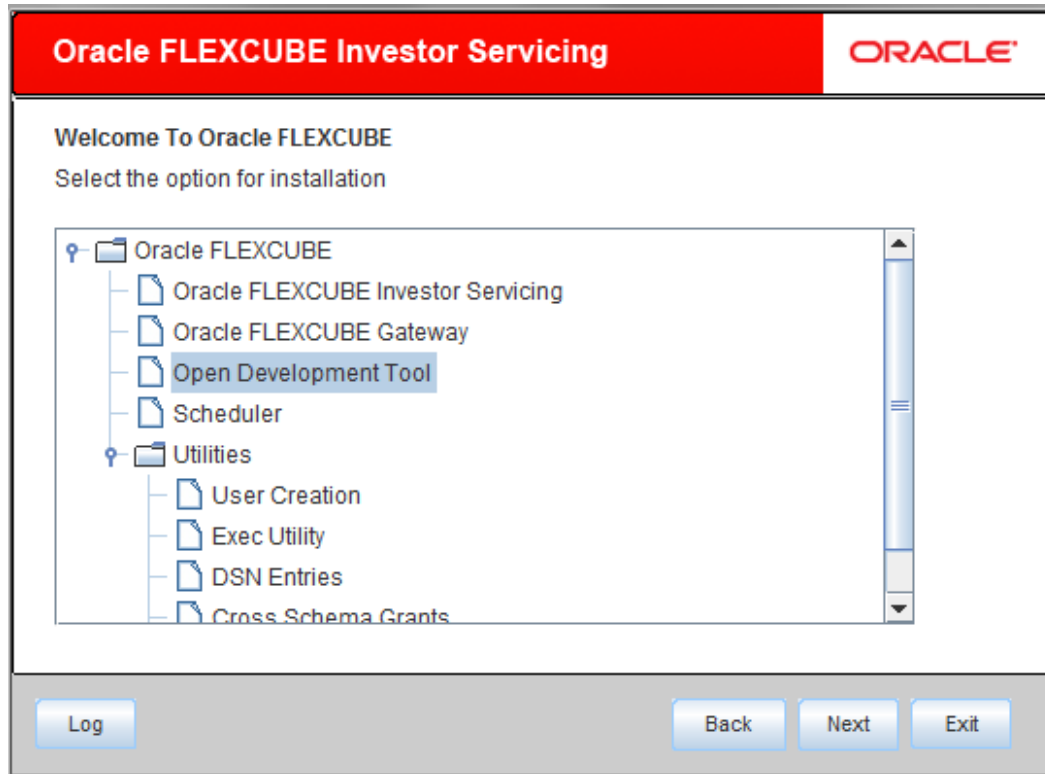
25. If the deployment is not successful, the 'Undeploy' button will be enabled.



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

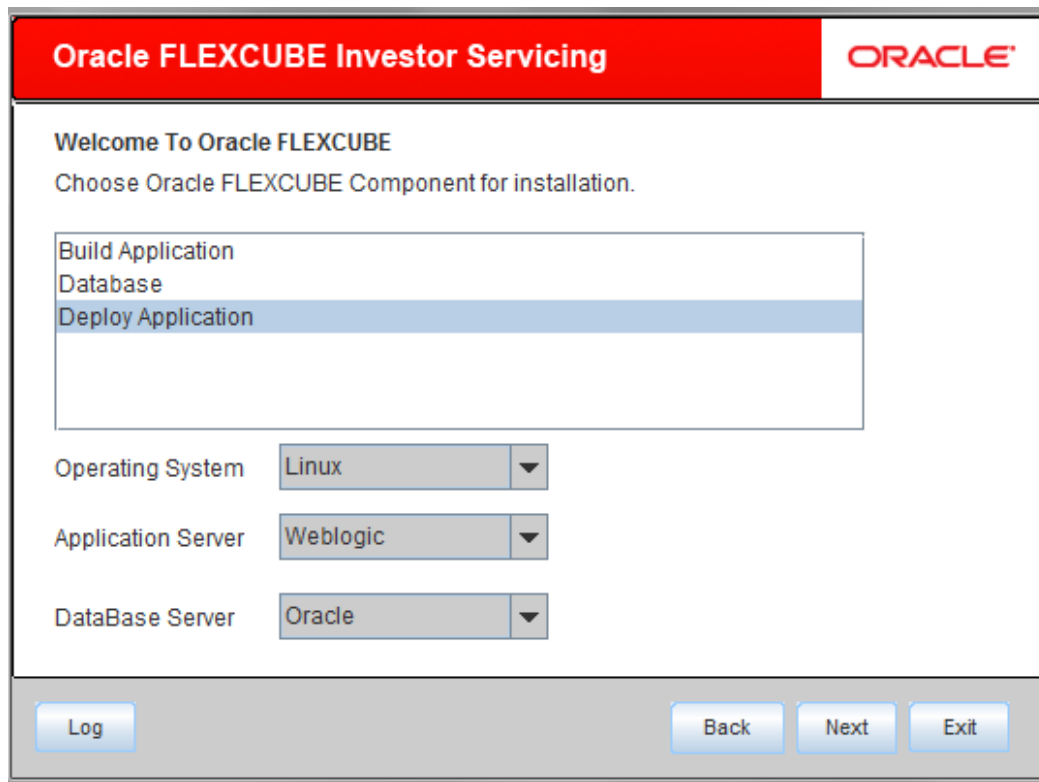
4. Development Tool (ODT) Application Full Deployment

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.



The image shows a software installation window titled "Oracle FLEXCUBE Investor Servicing" with the Oracle logo in the top right corner. The main content area is titled "Welcome To Oracle FLEXCUBE" and instructs the user to "Choose Oracle FLEXCUBE Component for installation." Below this is a list box containing three options: "Build Application", "Database", and "Deploy Application". The "Deploy Application" option is currently selected and highlighted. Below the list box are three dropdown menus for configuration: "Operating System" set to "Linux", "Application Server" set to "Weblogic", and "DataBase Server" set to "Oracle". At the bottom of the window is a navigation bar with four buttons: "Log", "Back", "Next", and "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

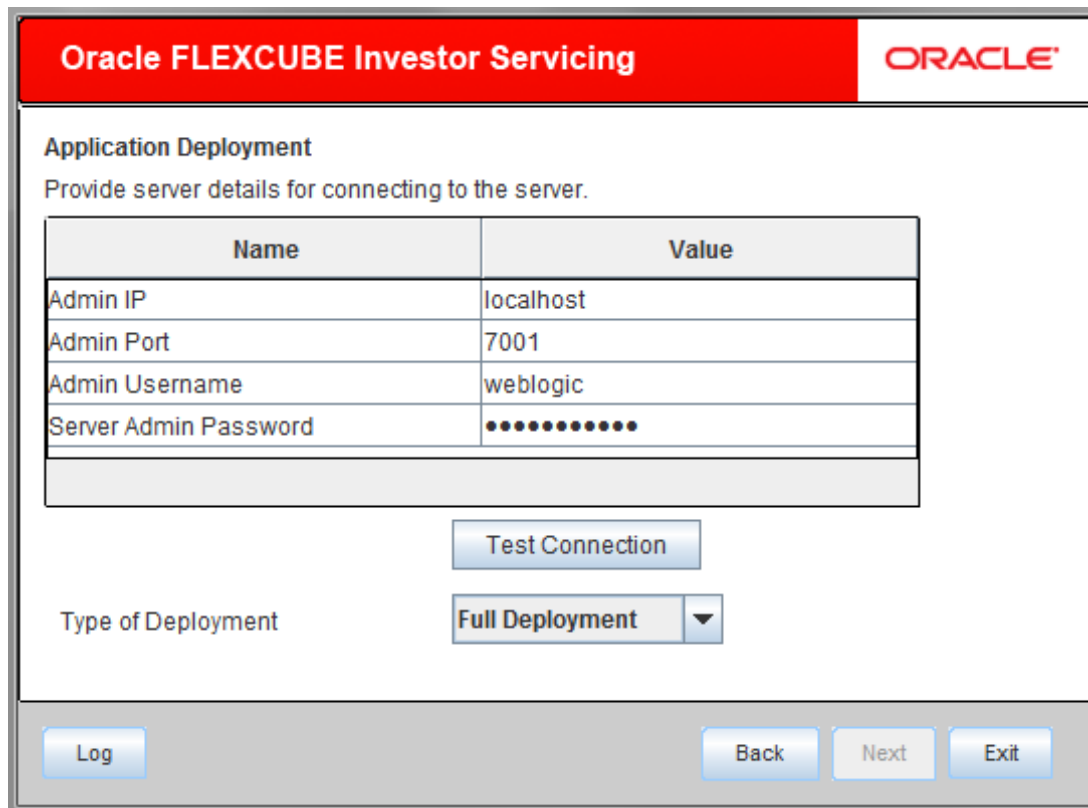
Select 'Websphere' from the adjoining drop down list.

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.



The screenshot shows the 'Oracle FLEXCUBE Investor Servicing' application deployment screen. It features a red header bar with the Oracle logo. Below the header, the title 'Application Deployment' is displayed, followed by the instruction 'Provide server details for connecting to the server.' A table with two columns, 'Name' and 'Value', contains the following entries: 'Admin IP' with value 'localhost', 'Admin Port' with value '7001', 'Admin Username' with value 'weblogic', and 'Server Admin Password' with a masked password '*****'. Below the table is a 'Test Connection' button. Underneath, the 'Type of Deployment' is set to 'Full Deployment' via a dropdown menu. At the bottom of the window, there are four buttons: 'Log', 'Back', 'Next', and 'Exit'.

Name	Value
Admin IP	localhost
Admin Port	7001
Admin Username	weblogic
Server Admin Password	*****

Test Connection

Type of Deployment: Full Deployment ▼

Log Back Next Exit

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.

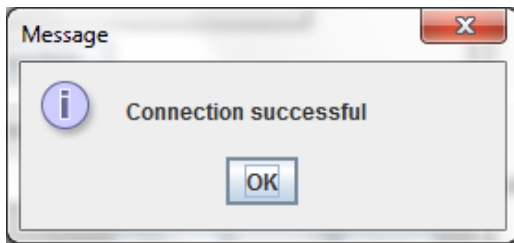
Admin Password

Specify the appropriate admin password of the websphere application server.

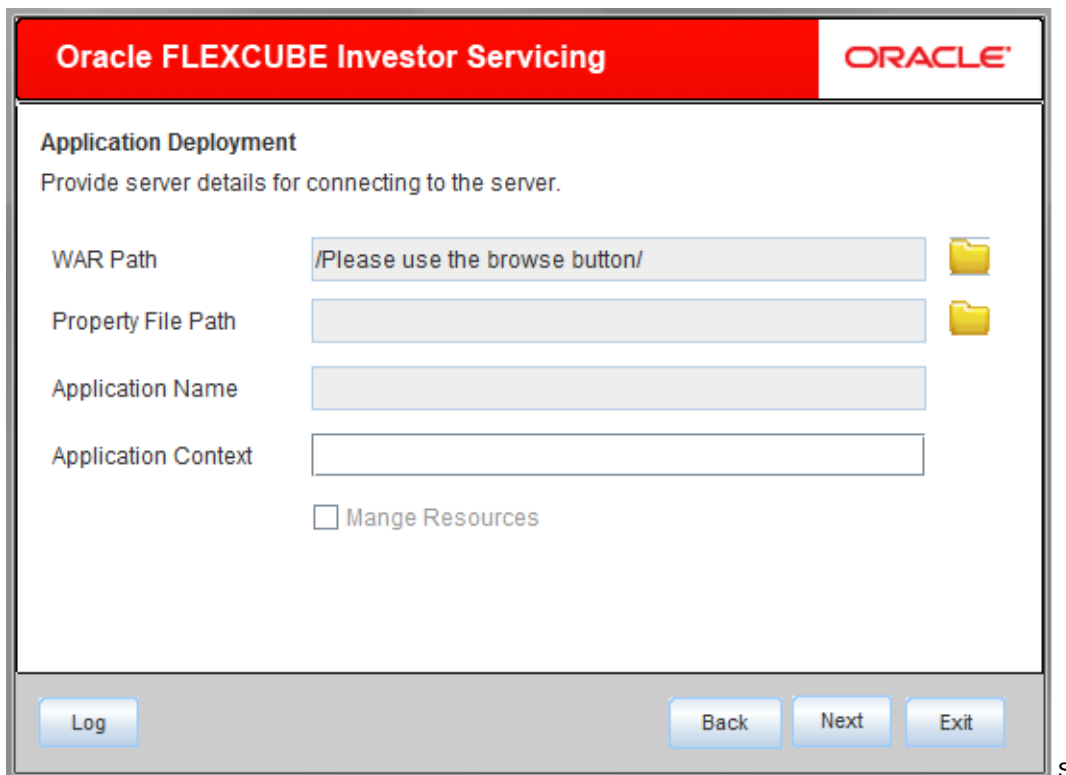
Type of Deployment

Select 'Full Deployment'.

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



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

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11. 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.

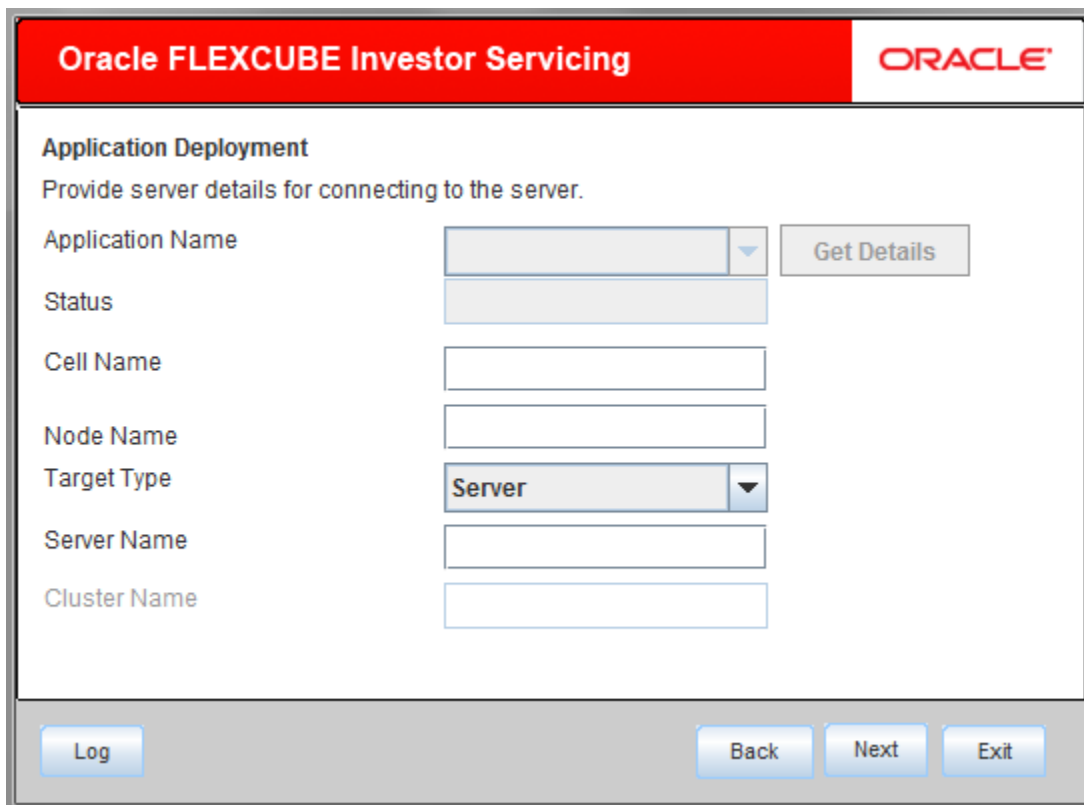
Application Context.

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 and a button:

- Application Name:** A text input field with a dropdown arrow on the right.
- Status:** A text input field.
- Cell Name:** A text input field.
- Node Name:** A text input field.
- Target Type:** A dropdown menu currently showing "Server".
- Server Name:** A text input field.
- Cluster Name:** A text input field.
- Get Details:** A button located to the right of the Application Name field.

At the bottom of the window, there is a navigation bar with four buttons: "Log", "Back", "Next", and "Exit".

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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

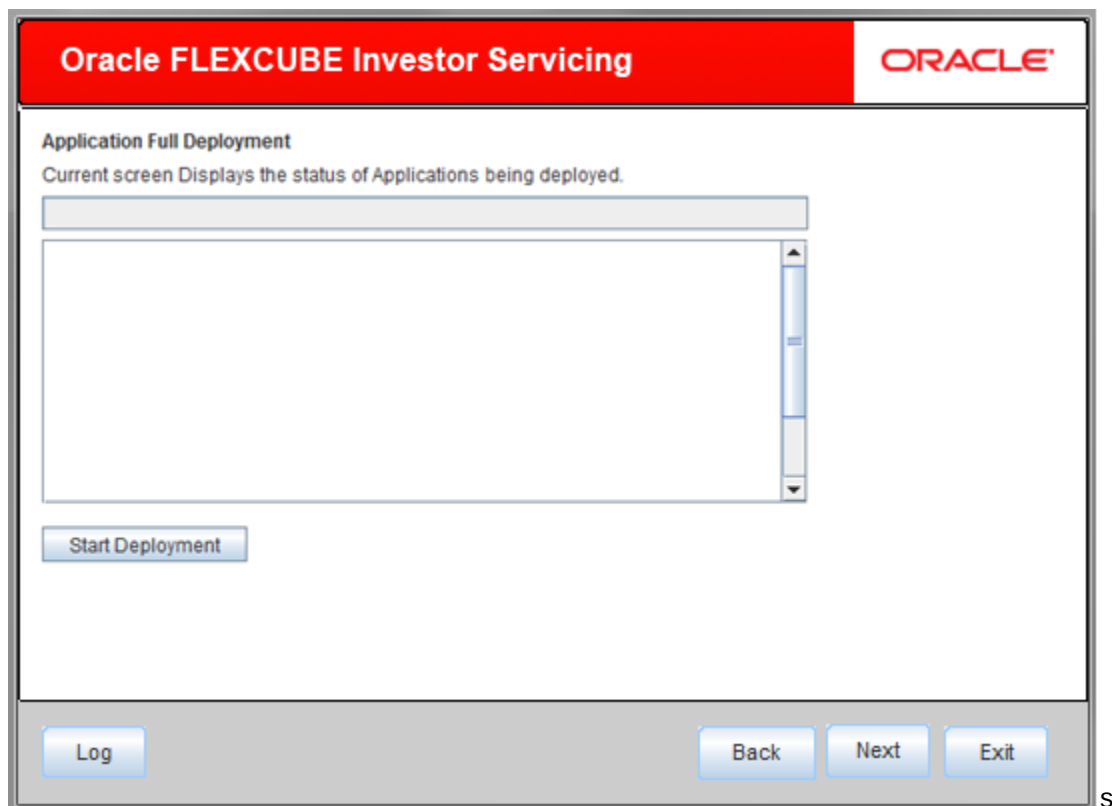
Specify the appropriate server name if the selected target type is 'Server'.

Cluster Name

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

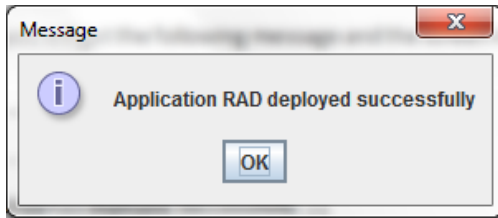
 The values fed in the above screen are not validated at the screen level as a result of a limitation and hence, specify accurate information.

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

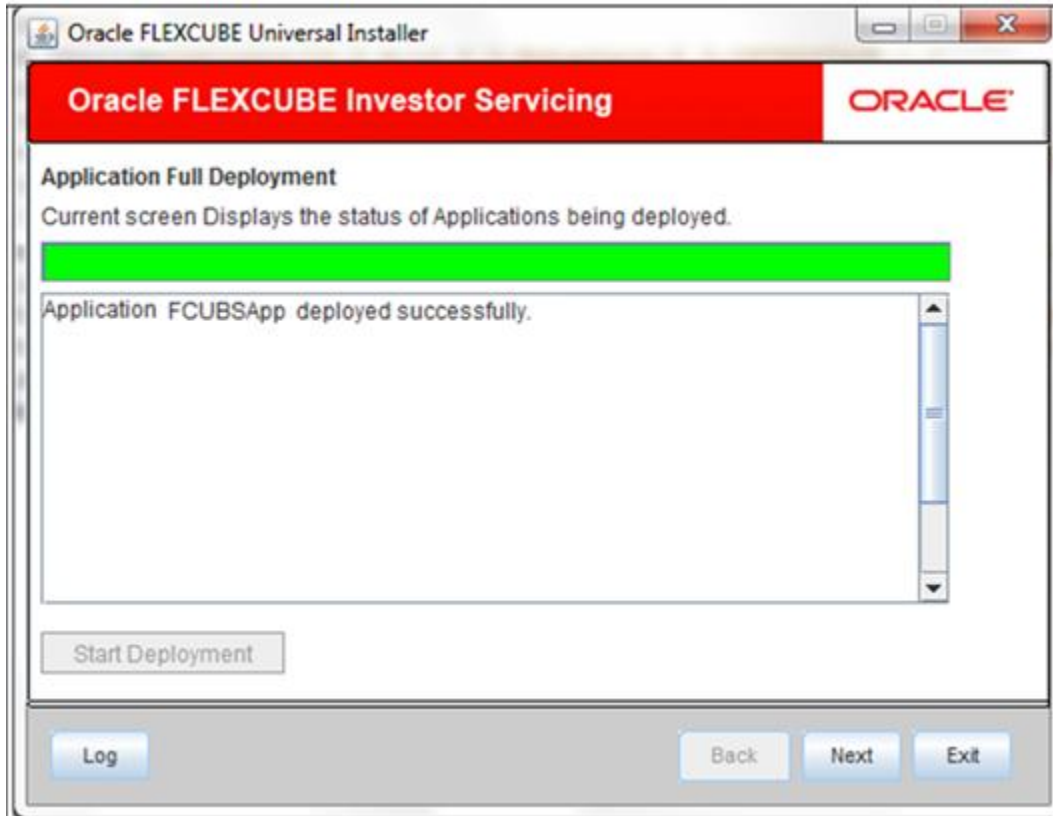


15. Click 'Start Deployment' to begin the process of application deployment.

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



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





Open Development Tool Installation
[May] [2017]
Version 12.4.0.0.0

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