

Open Development Tool Installation  
Oracle FLEXCUBE Investor Servicing  
Release 14.7.3.0.0  
Part No. F90302-01  
[December] [2023]



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# 1. Open Development Tool Installation

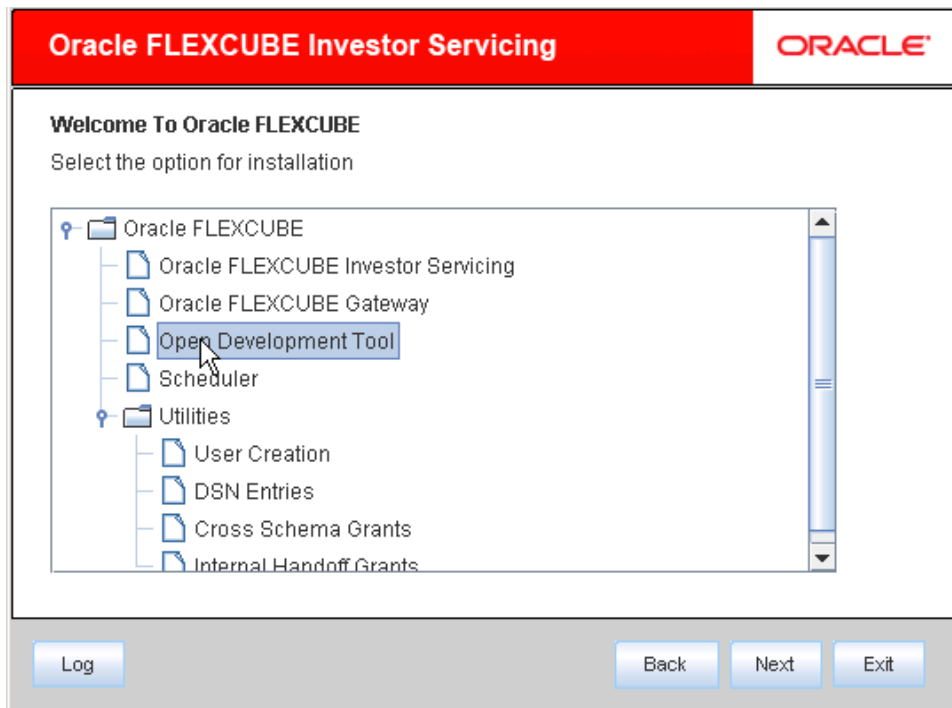
## 1.1 Introduction

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

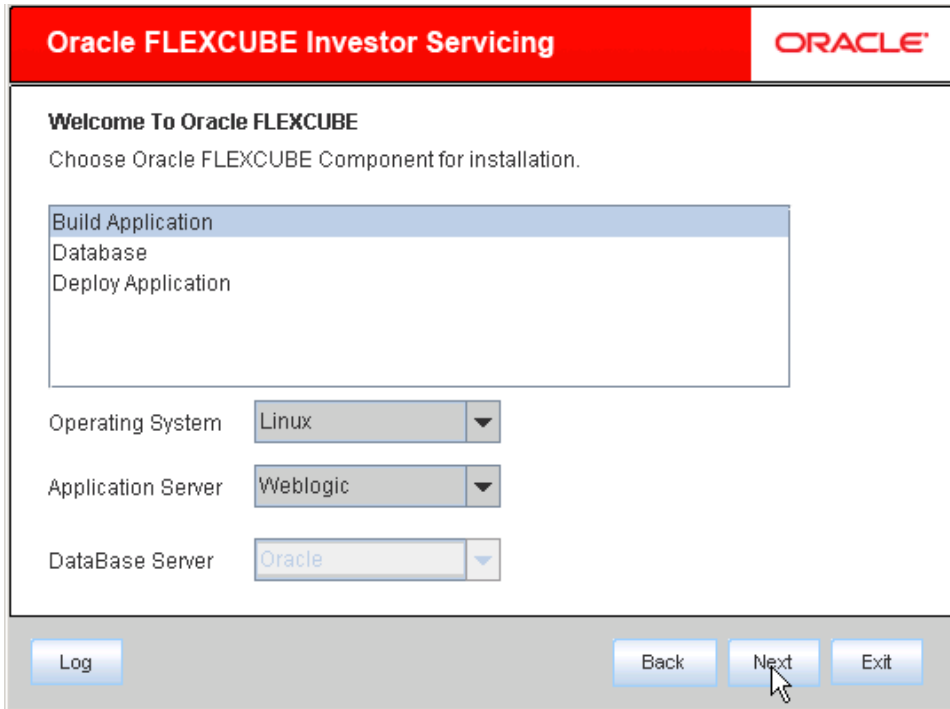
## 1.2 Installing Open Development Tool

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



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

**Operating System**

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

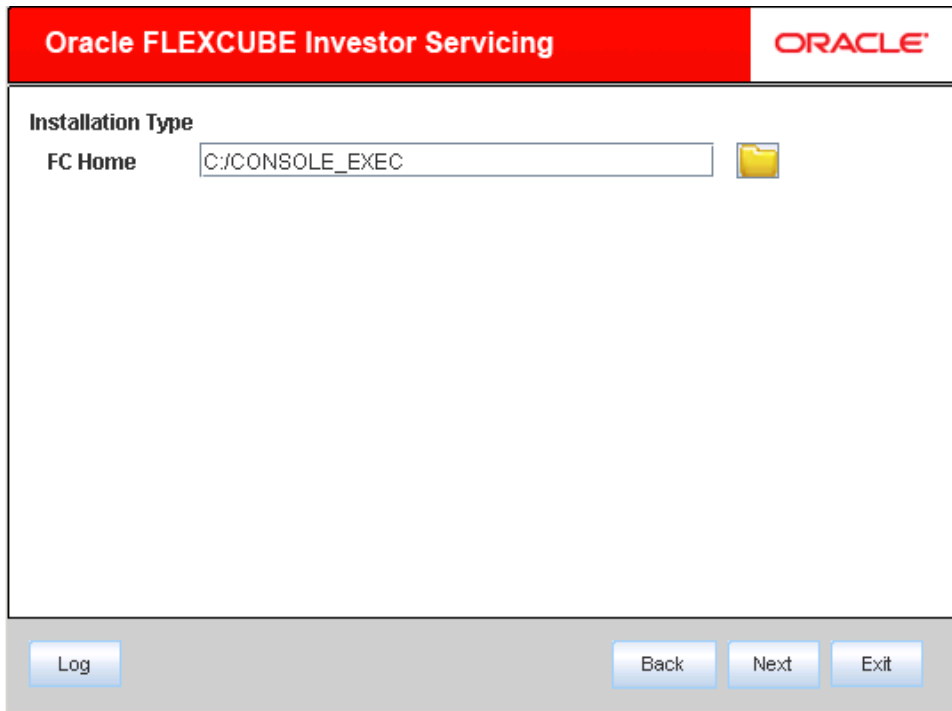
**Application Server**

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

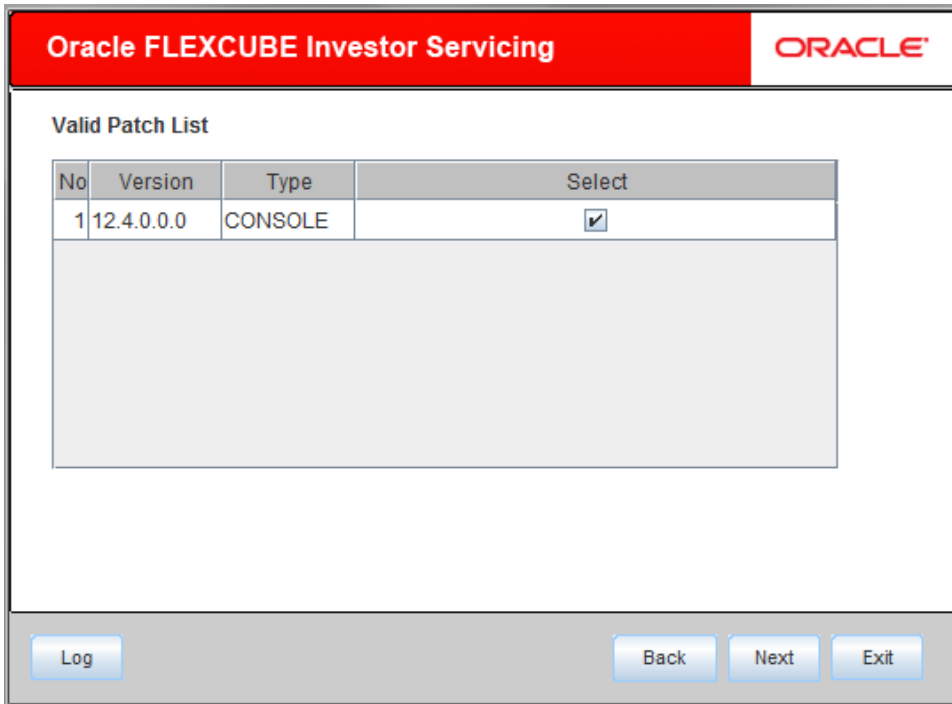
**Database Server**

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

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



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:



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

SSO Type

SSO Sign Off Required

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.**

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:

Oracle FLEXCUBE Investor Servicing
ORACLE

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**Property File Creation**

Choose Enable SSL option for Securing confidential user information

SSL Enabled?

Platform Security

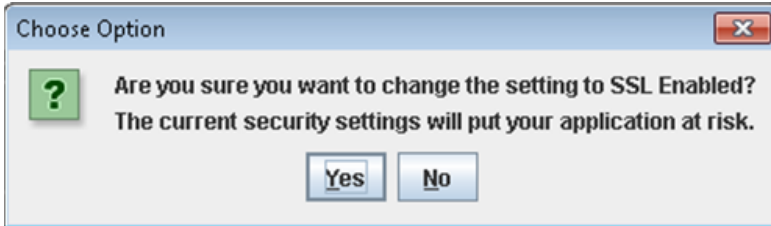
SMS Security Key

**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.**

Log
Back
Next
Exit

## SSL Enabled

Indicate whether SSL is enabled or not. If SSL is required, choose 'Yes'. If SSL is not enabled, the Installer will pop-up a window.

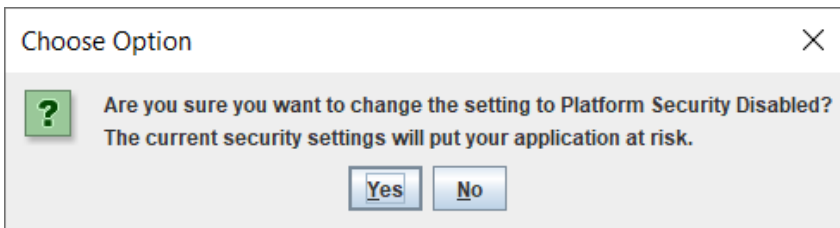


However, it is recommended that you enable SSL.

## Platform Security

Platform Security is available only for weblogic.

If Platform Security is not enabled, the Installer will pop-up a window.



IF Platform Security is checked for weblogic the symmetric key is not stored in the property file for security reasons. If Platform Security is unchecked the symmetric key is available in the property file and a warning message is displayed to the user.

## SMS Security Key


Specify the security key for the Encryption, here in this case it is 'oraclefinancials'.

14. Click 'Next'. You will be navigated to the next screen



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

**Build Process**  
Specify the destination directory, application name

Destination Directory: D:\DESTTEMPDIR 

Application Name: RAD

Log Back Next 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.

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

**Build Process**  
Current screen displays the status of copying and building of the sources

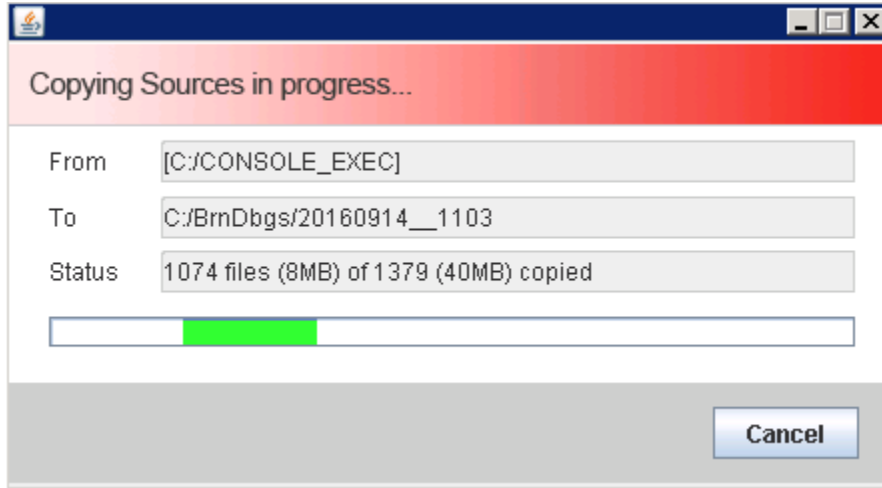
0%

Copy Build

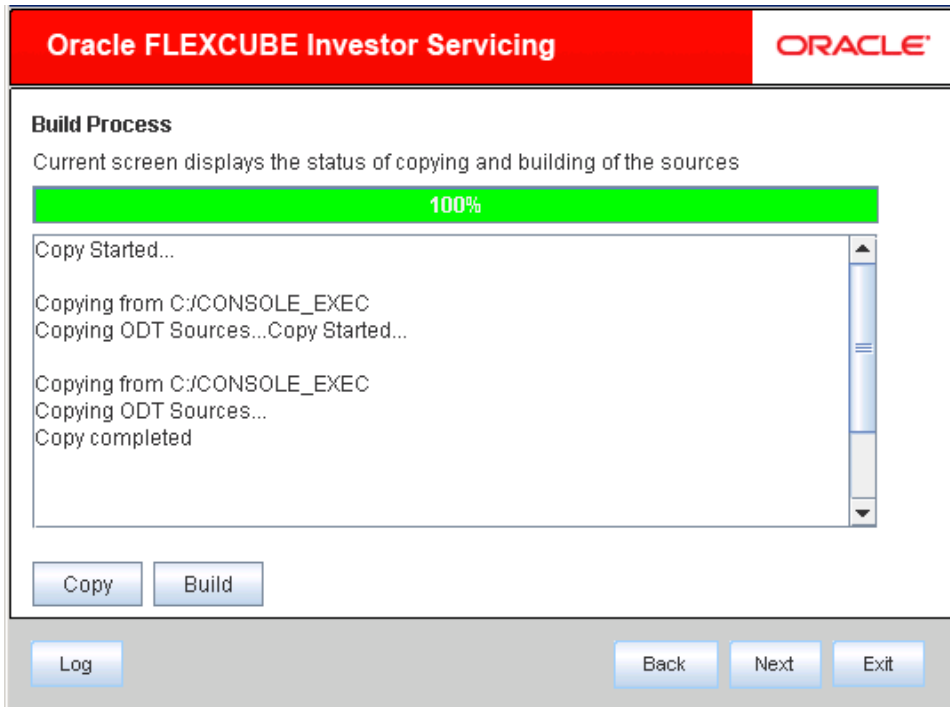
Log Back Next Exit

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.

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

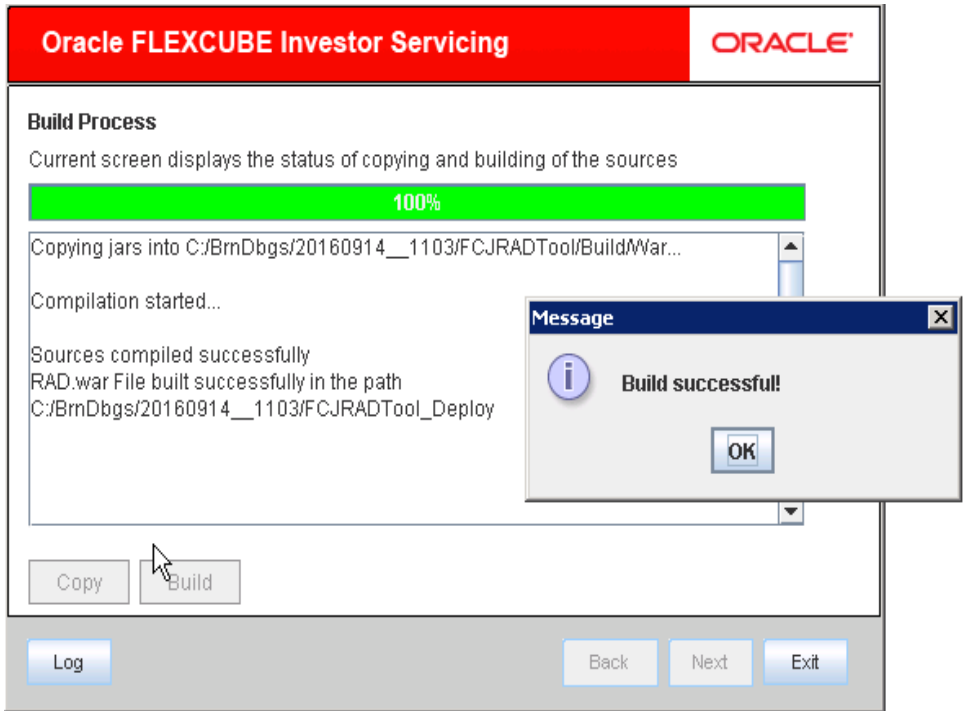


Once the copying process is done, the following screen is displayed:

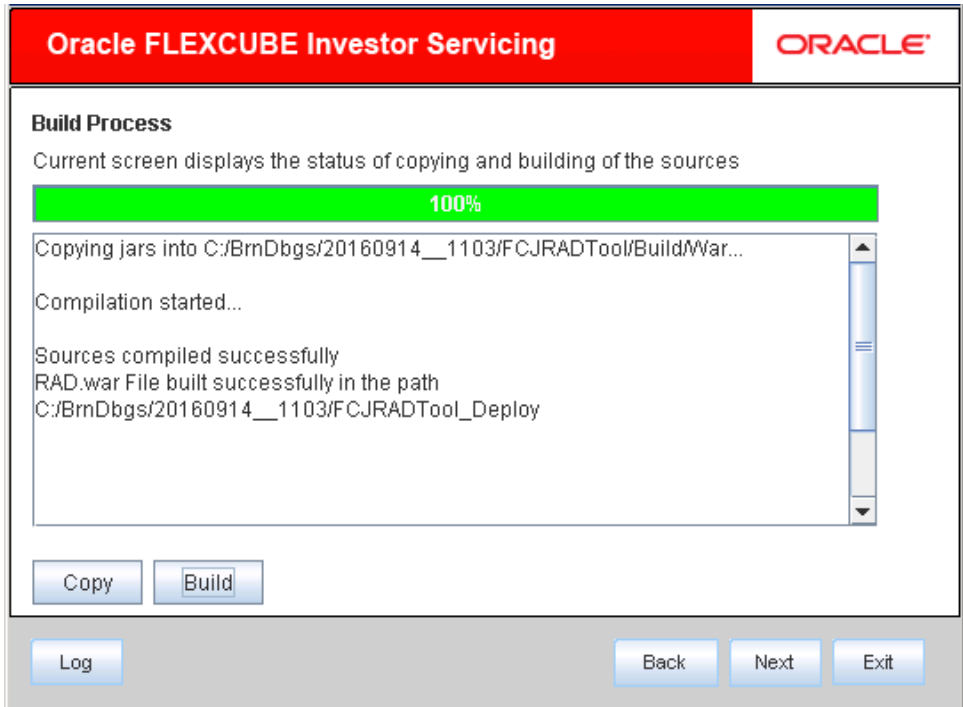


16. Click 'Build' button to build the war file in the destination location.

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



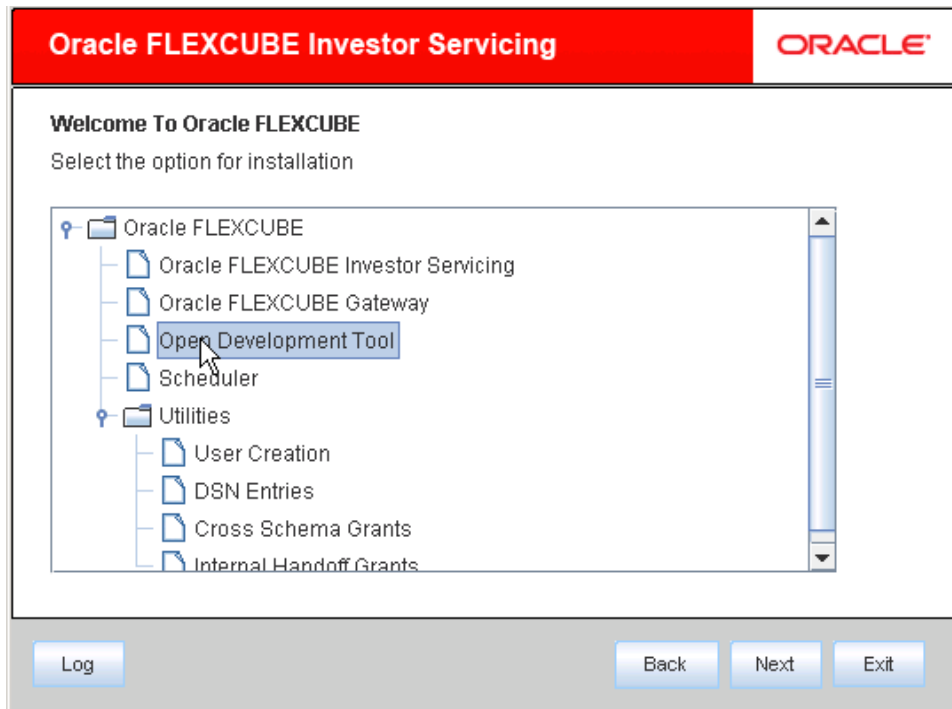
Click OK. The following screen is displayed:



## 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.

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

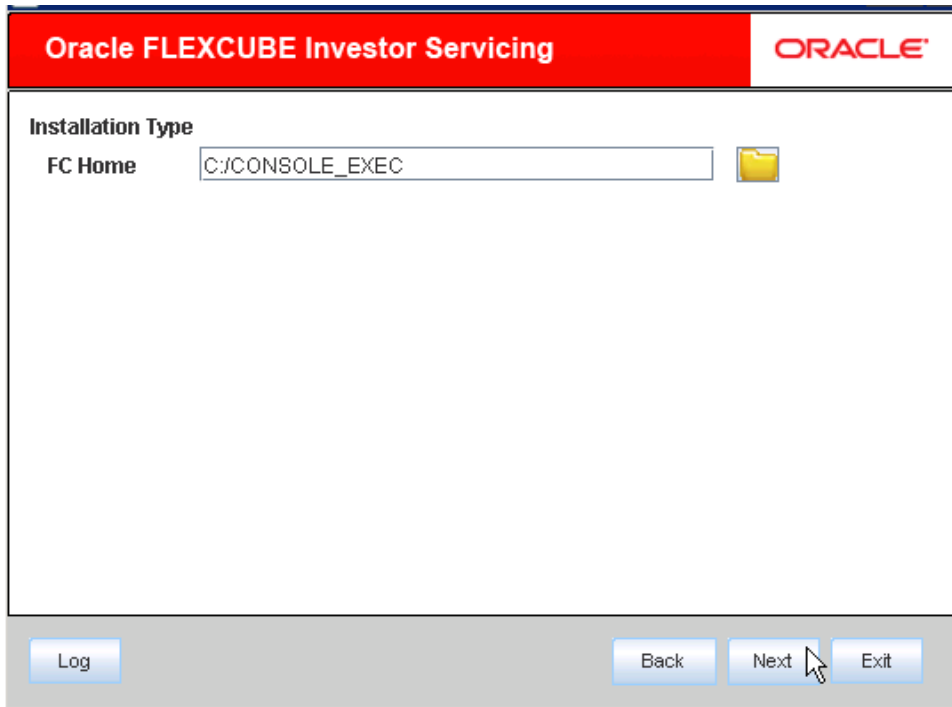
### **Operating System**

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

### **Database Server**

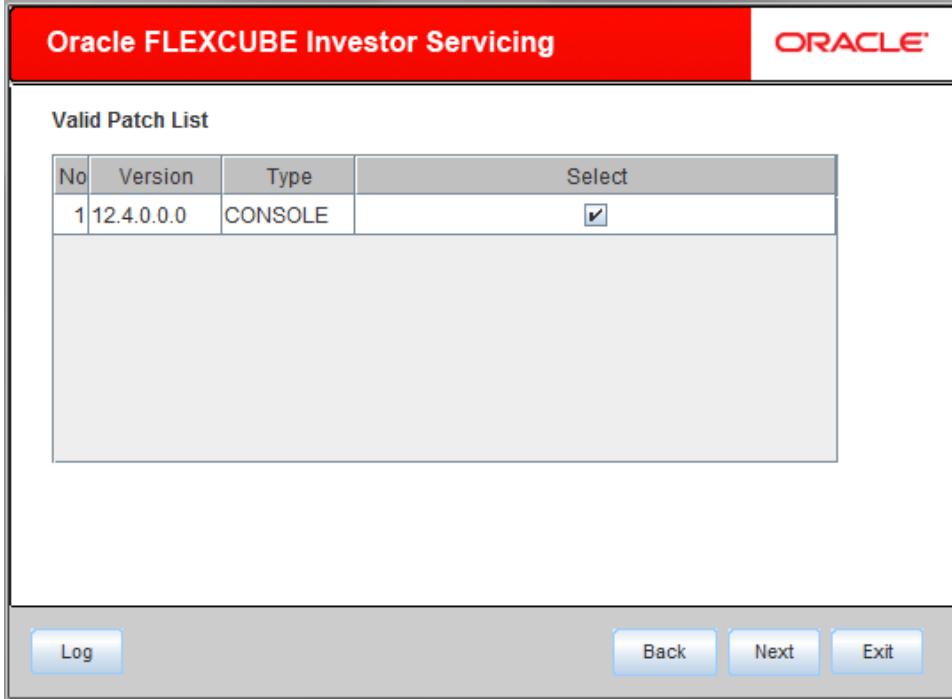
Specify the database server on which you are installing Oracle FLEXCUBE.

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' 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'. A mouse cursor is hovering over the 'Next' button.

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

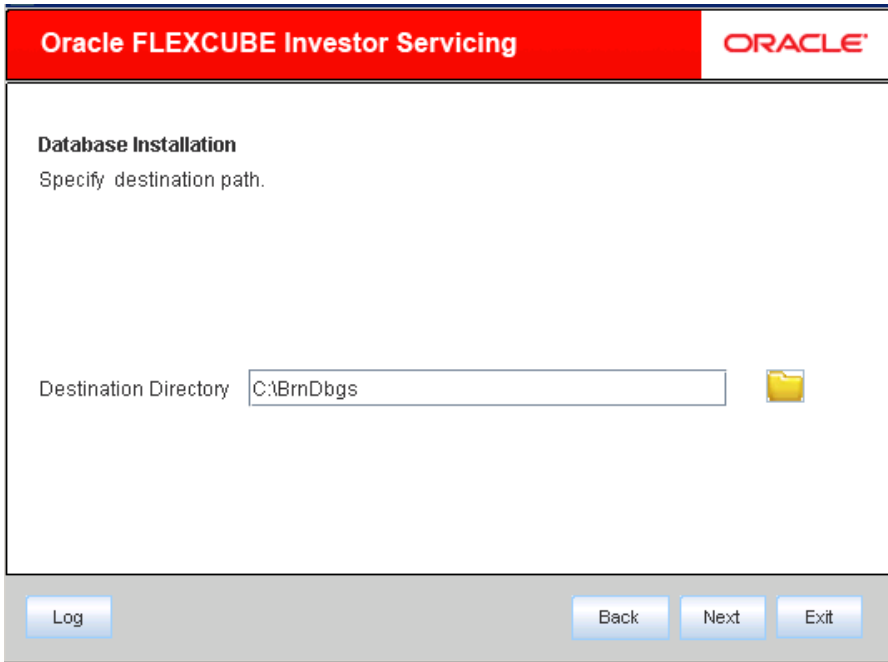


The screenshot shows the 'Valid Patch List' screen of the Oracle FLEXCUBE Investor Servicing application. The title bar is red with 'Oracle FLEXCUBE Investor Servicing' on the left and the 'ORACLE' logo on the right. Below the title bar, the text 'Valid Patch List' is displayed. Underneath, there is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

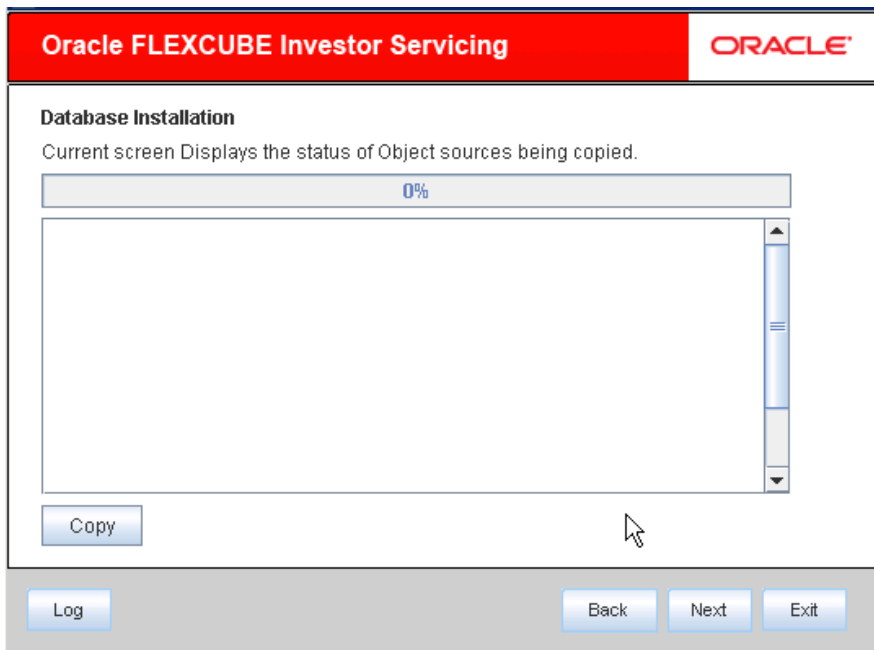
Select the console type and select 'Next'. The following screen is displayed:



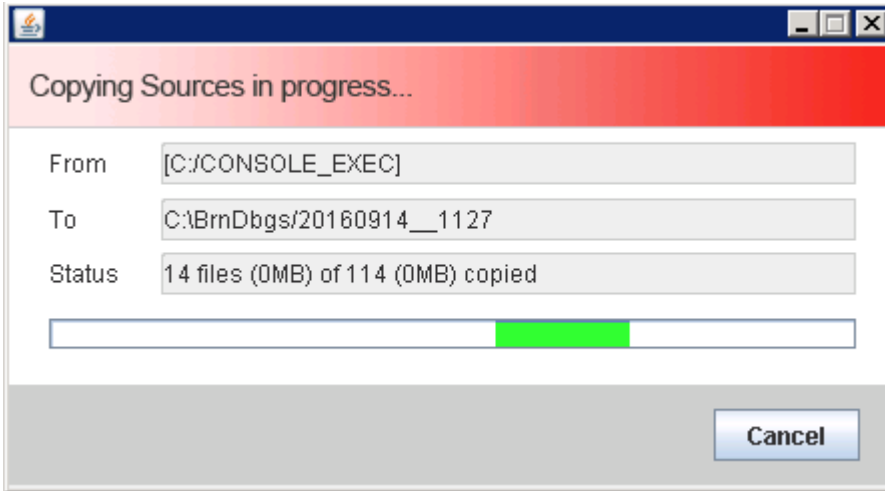
### Destination Directory

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

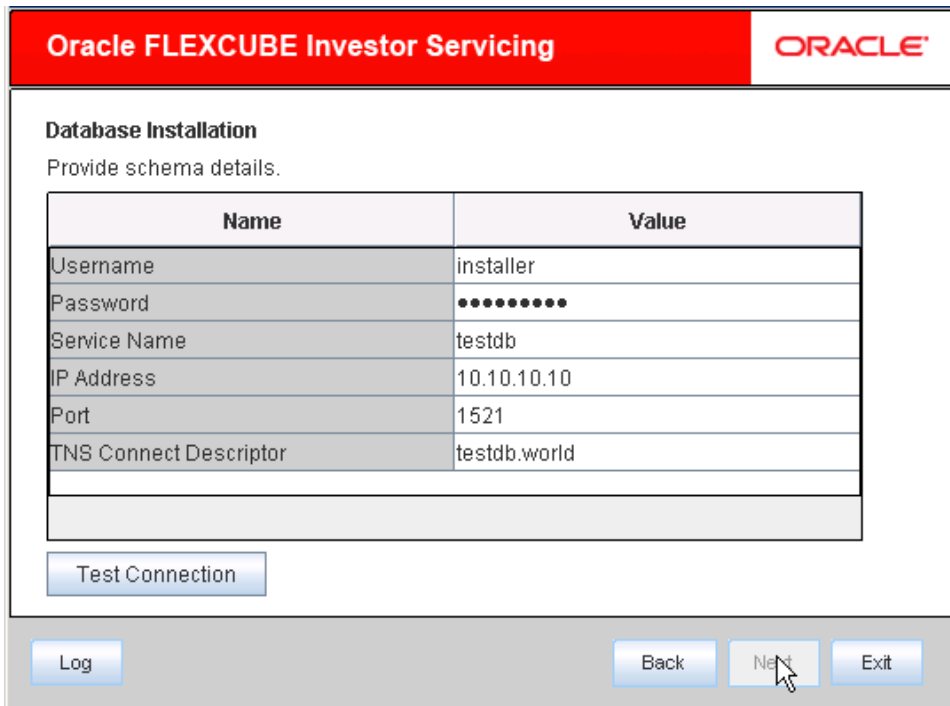
The following screen is displayed:



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.



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.

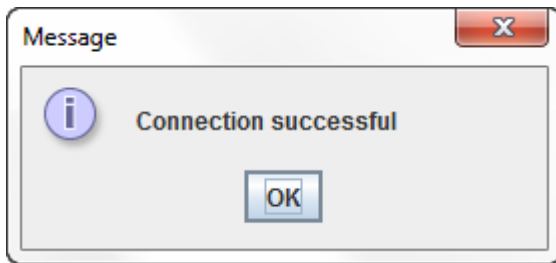
### Port

Specify the port number.

### TNS Connect Descriptor

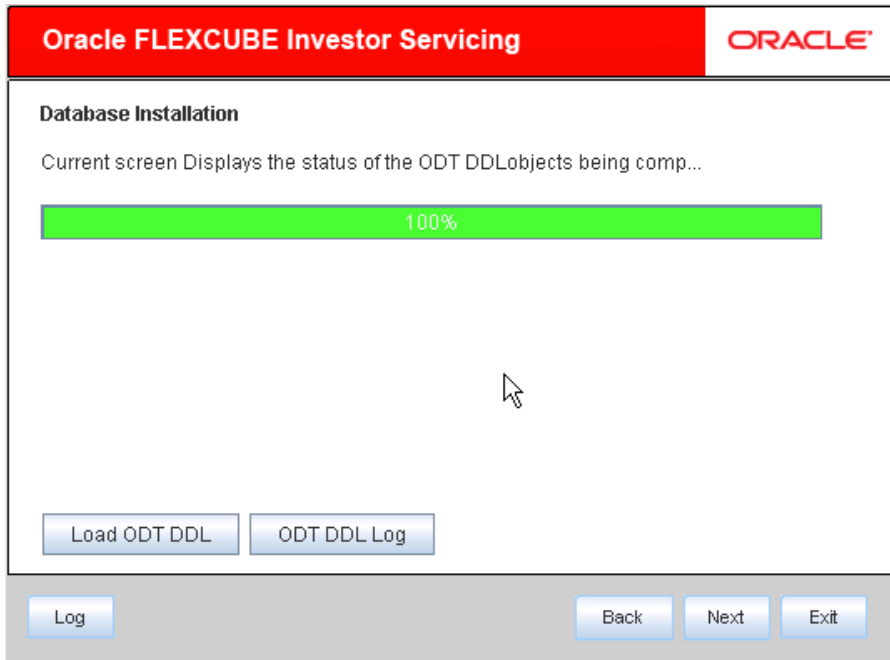
Specify a valid connect string that contains the details for database connectivity.

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

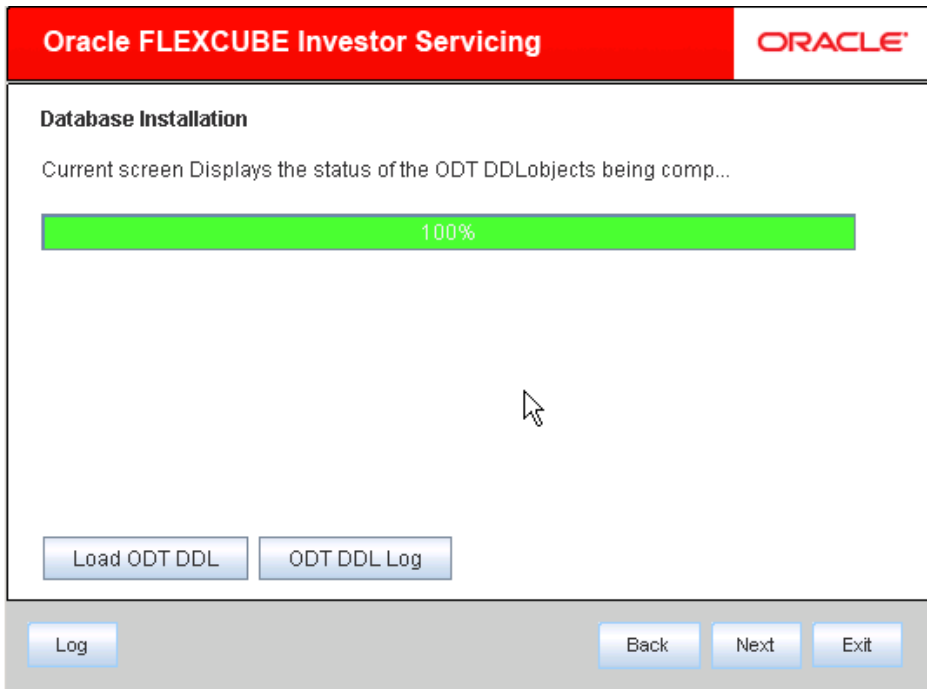


The above message is displayed if the connection is established successfully.

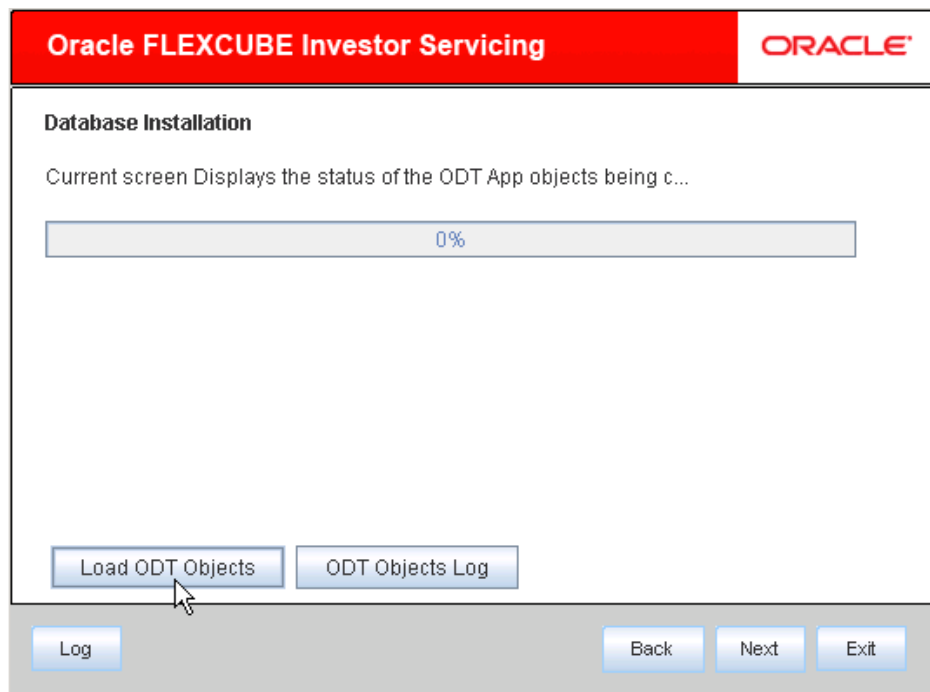
10. Click 'Next'. The following screen is displayed.



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.

The screenshot shows the 'Database Installation' screen in Oracle FLEXCUBE Investor Servicing. It displays the current percentage of invalids in the database as 0%. Below this is a table with three columns: Object Type, Invalid Count, and Total Count. The table lists the following data:

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

Below the table are two buttons: 'Invalids List' and 'Recompile'. At the bottom of the screen are four buttons: 'Log', 'Back', 'Next', and 'Exit'. A mouse cursor is pointing at the 'Next' button.

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.

**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	0	56
PACKAGE BODY	0	56

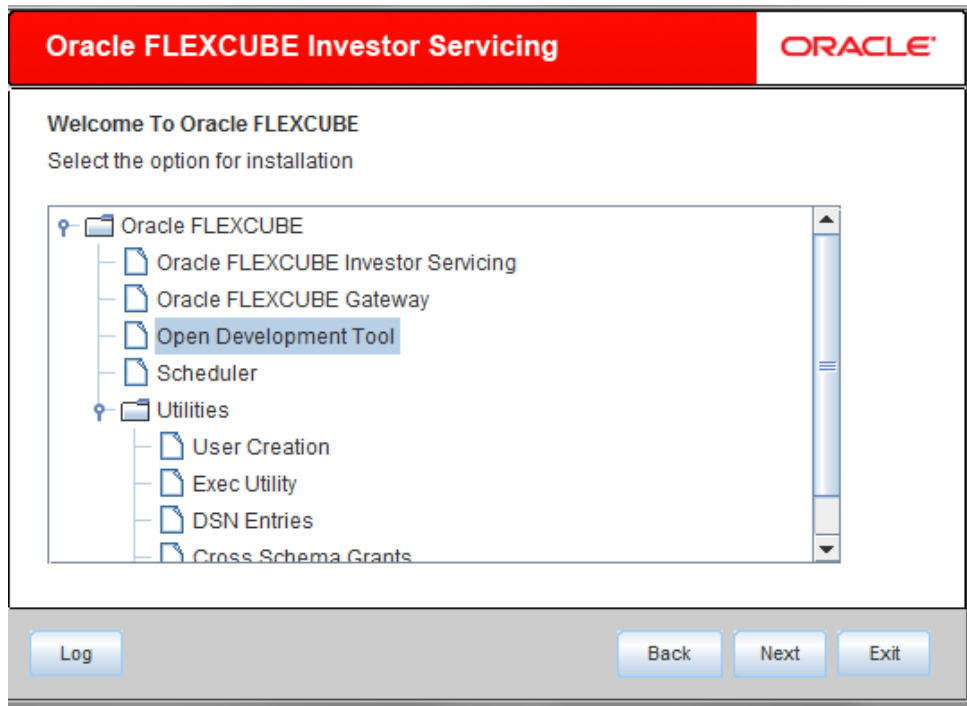
Invalids List    Recompile

Log    Back    Next    Exit

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.

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 '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.

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

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

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

Type of Deployment:  ▼

7. Specify the following details:

**Admin IP**

By default it will displayed as local host.

**Admin Port**

Specify port number of weblogic server.

**Admin UserName**

Specify the appropriate admin username of the weblogic application server.

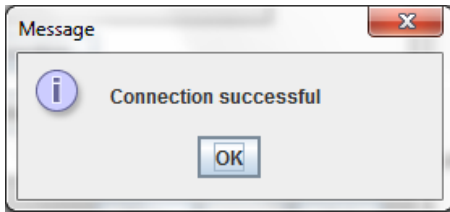
**Server Admin Password**

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

**Type of Deployment**

Select 'Full Deployment'.

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




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

10. 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 the 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..

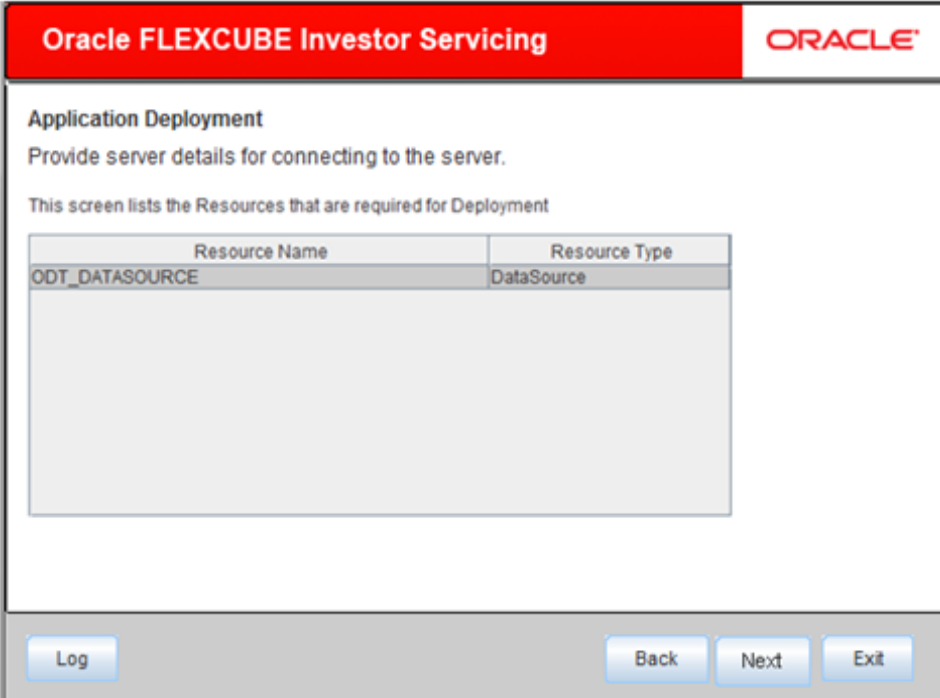
## Manage Resources

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

## Security Key for Encryption

Specify the security key for the Encryption, here in this case it is 'oraclefinancials'.

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



Oracle FLEXCUBE Investor Servicing

ORACLE

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

This screen lists the Resources that are required for Deployment

Resource Name	Resource Type
ODT_DATASOURCE	DataSource

Log Back Next Exit

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:

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

Modify JDBC url

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: ODT\_DATASOURCE ▼

jdbc:oracle:thin:@10.184.86.152:1522:avast1

Test Connection Save Changes

Log Back Next Exit

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

**Application Full Deployment** **ORACLE**

Specify Server environment details for deployment

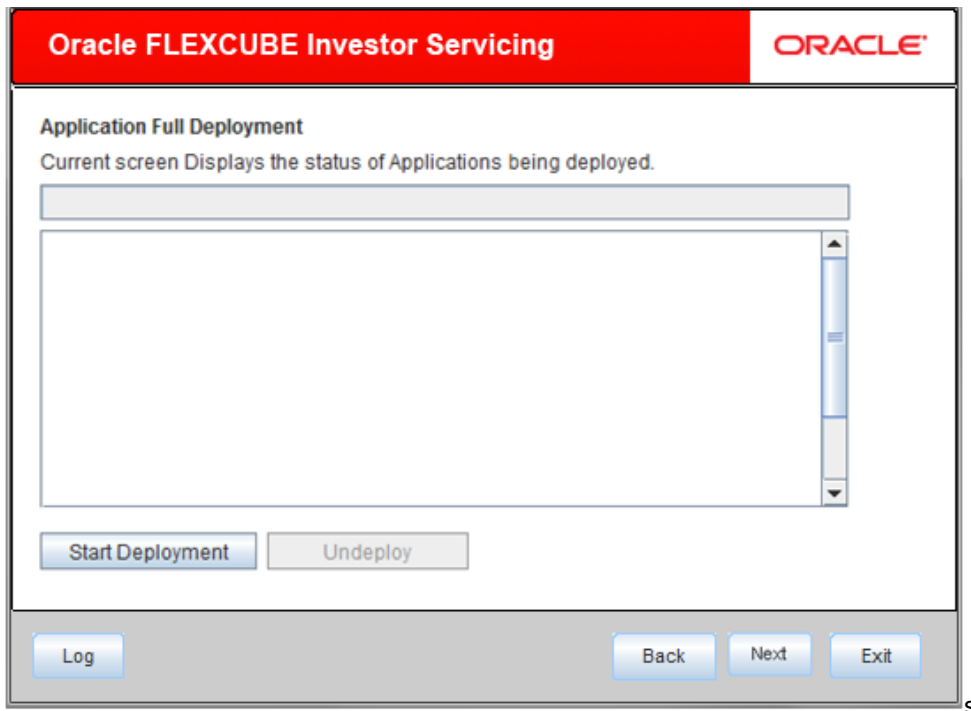
Domain Name: Default\_domain Get Details

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"/>

Log Back Next Exit

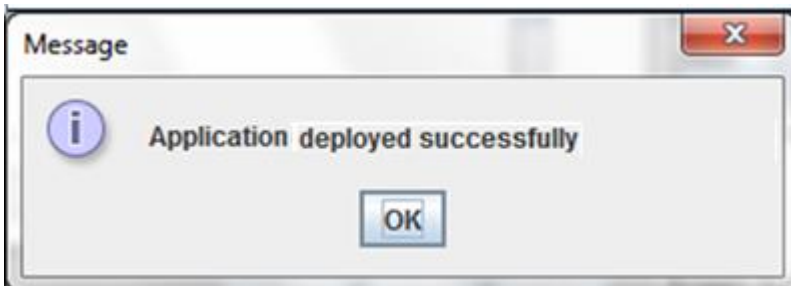
20. The Domain Name shows the weblogic domains name.

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.

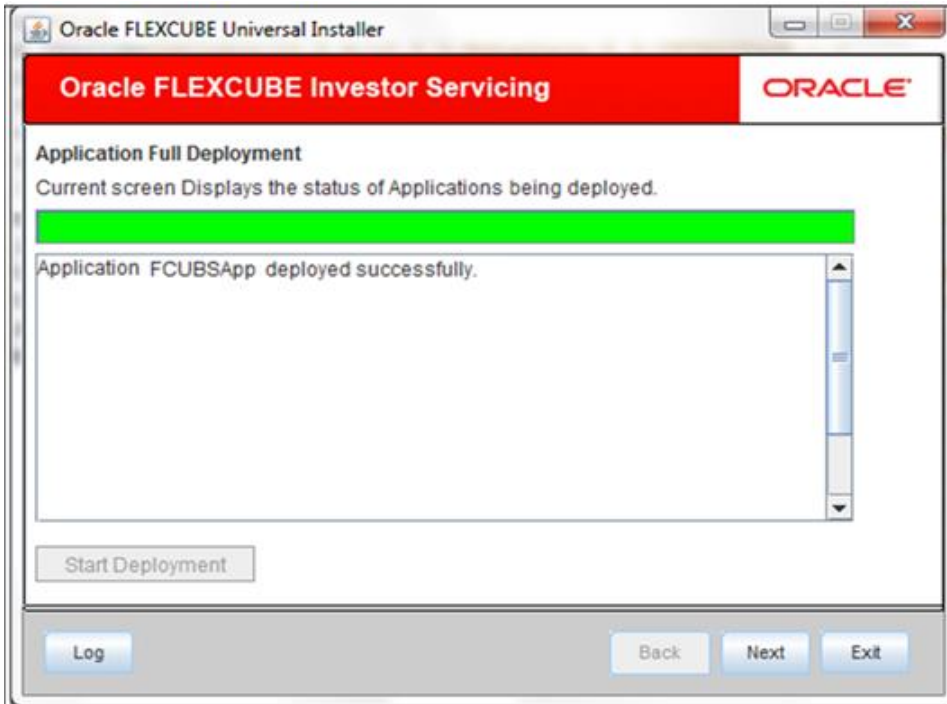


23. Click 'Start Deployment' to begin the process of application deployment.

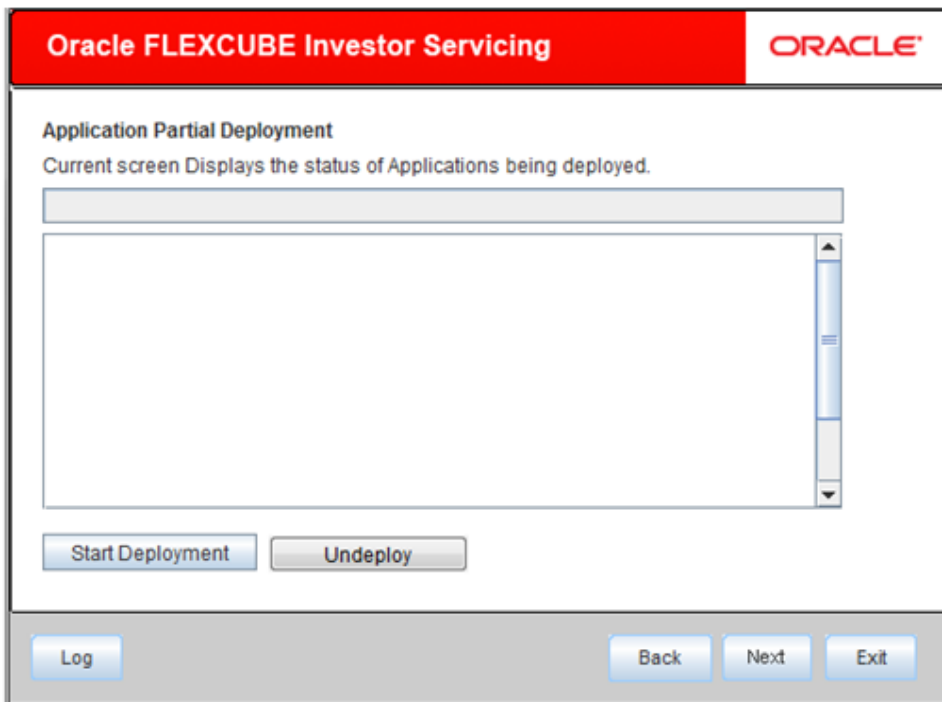
On successful deployment, you will get the following message and the screen is expected to look like below.



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.



Open Development Tool Installation  
[December] [2023]  
Version 14.7.3.0.0

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