

RestService Application Setup  
Oracle FLEXCUBE Investor Servicing  
Release 14.4.0.0.0  
[July] [2020]



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# 1. Setting up RestService for Oracle FLEXCUBE

## 1.1 Introduction

This chapter explains the steps for setting up the Rest Application for Oracle FLEXCUBE.

## 1.2 Setting up RestService RESTEJB Application

This section explains the methods of setting up Rest EJB Application.

### 1.2.1 Prerequisites

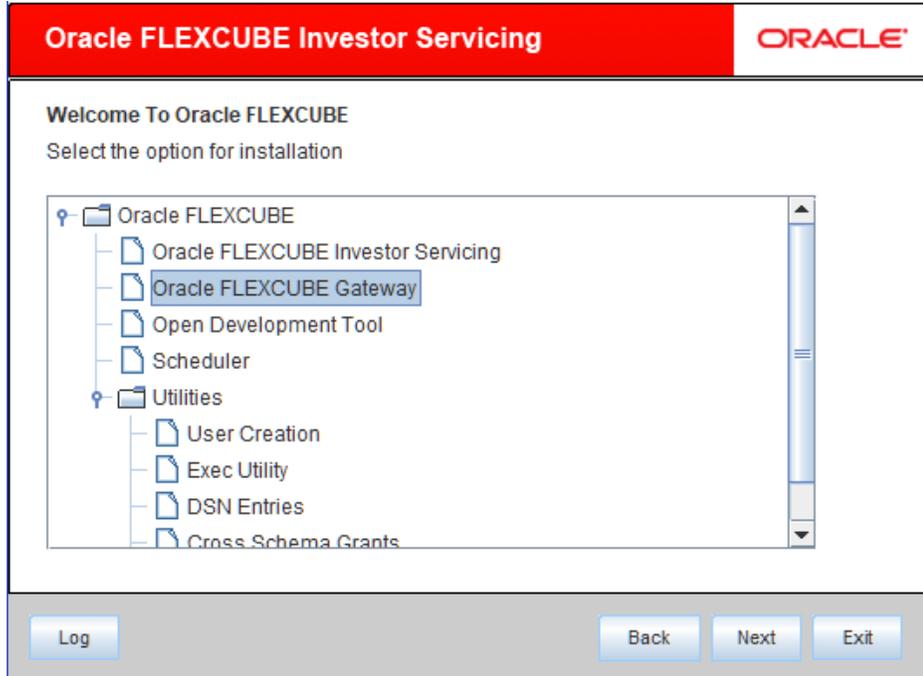
You need to create the following RestEJB property files before building the application:

- GW\_RESTEJB\_Prop.properties
- gw\_restejb\_logger.properties

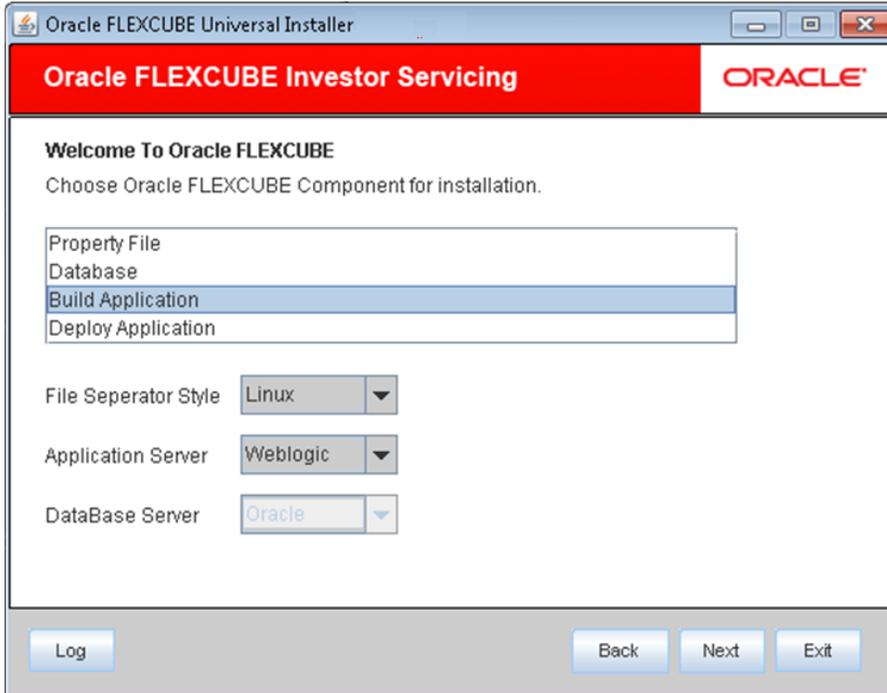
### 1.2.2 Building EAR File

In order to build EAR file for RestEJB Application, you need to follow the steps given below:

1. Launch Oracle FLEXCUBE Universal Installer. The welcome screen is displayed.
2. Click 'Next' the following screen will be displayed.



Choose the Application 'Gateway'. Click 'Next'. The following screen is displayed:



3. Specify the following details:

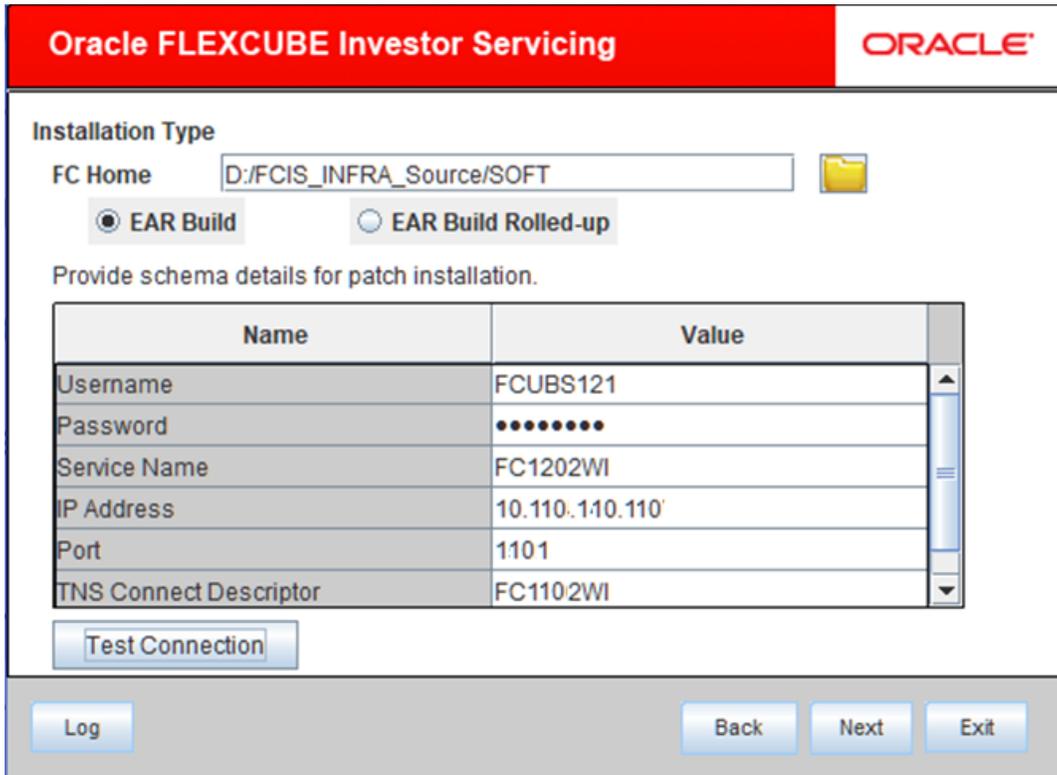
### **File Separator Style**

Specify the style of file separator (e.g Linux or Windows). Choose the appropriate one from the drop-down list.

## Application Server

Specify the application server in which you are creating the property file. Choose the appropriate one from the drop-down list.

4. Choose 'Build Application'. Click 'Next'. The following screen is displayed:
5. This is the FC HOME folder that needs to be set. Also, it should point to SMS schema. Those versions less than or equal to the current environment are allowed.



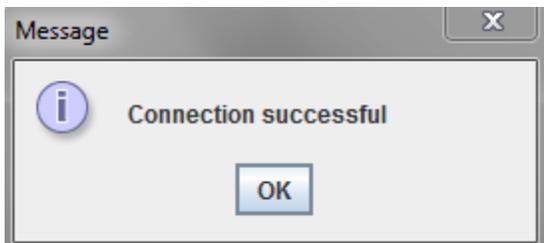
The screenshot shows the Oracle FLEXCUBE Investor Servicing installation wizard. The title bar is red with the Oracle logo. The main window is titled "Oracle FLEXCUBE Investor Servicing" and "ORACLE". The "Installation Type" section has "FC Home" set to "D:/FCIS\_INFRA\_Source/SOFT" with a folder icon. Below it are two radio buttons: "EAR Build" (selected) and "EAR Build Rolled-up". A section titled "Provide schema details for patch installation." contains a table with the following data:

Name	Value
Username	FCUBS121
Password	●●●●●●●●
Service Name	FC1202WI
IP Address	10.110.110.110
Port	1101
TNS Connect Descriptor	FC1102WI

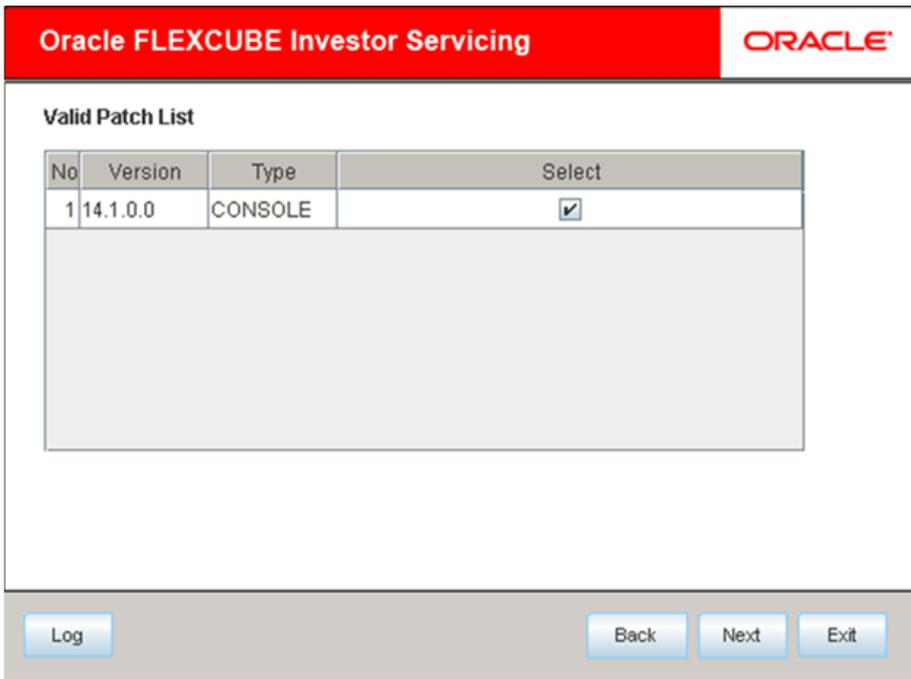
Below the table is a "Test Connection" button. At the bottom of the window are "Log", "Back", "Next", and "Exit" buttons.

Click 'Test Connection'.

On Successful connection the below message will be displayed.



Click OK. Click 'Next' to navigate to next page



Oracle FLEXCUBE Investor Servicing

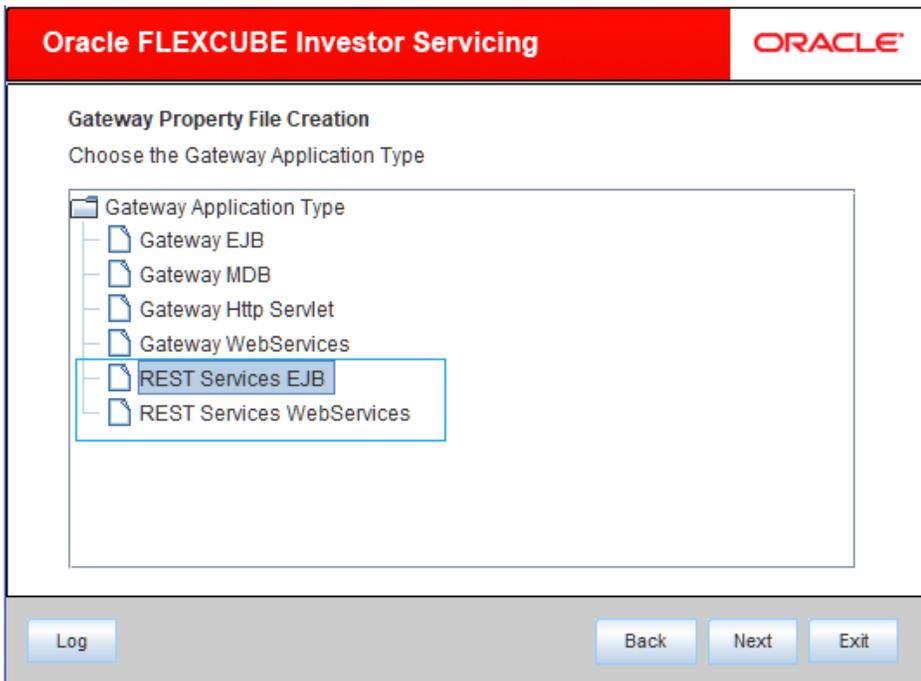
ORACLE

**Valid Patch List**

No	Version	Type	Select
1	14.1.0.0	CONSOLE	<input checked="" type="checkbox"/>

Log Back Next Exit

Click Next.



Oracle FLEXCUBE Investor Servicing

ORACLE

**Gateway Property File Creation**  
Choose the Gateway Application Type

- Gateway Application Type
  - Gateway EJB
  - Gateway MDB
  - Gateway Http Servlet
  - Gateway WebServices
  - REST Services EJB**
  - REST Services WebServices

Log Back Next Exit

- Choose 'REST Service EJB'. Click 'Next'. Verify all the library are available.

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**Build Process**  
This screen lists the JARS that are required for compilation

No.	Name	Location	Available
1	javax.ejb_3.2.0.jar	.Library\applicati...	Yes
2	javax.jms-3.1.2.2....	.Library\applicati...	Yes
3	javax.mail-1.4.5.jar	.Library\applicati...	Yes
4	javax.servlet-3.1....	.Library\applicati...	Yes
5	javax.transaction-...	.Library\applicati...	Yes
6	poi-ooxml-schem...	.Library\application	Yes
7	poi-ooxml-3.17.jar	.Library\application	Yes
8	poi-3.17.jar	.Library\application	Yes
9	ziplet-2.3.0.jar	.Library\application	Yes
10	commons-codec...	.Library\common	Yes
11	commons-net-3....	.Library\plugin-q...	Yes
12	commons-transa...	.Library\plugin-q...	Yes
13	quartz-2.3.1-9f9a...	.Library\plugin-q...	Yes

Log Back Next Exit

- Click Next and provide destination Directory

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**Build Process**  
Specify the destination directory, application name and context.

Destination Directory

Application Name

Log Back Next Exit

8. Click Next. Provide the property file for RestEJB

The screenshot shows the 'Build Process' window in Oracle FLEXCUBE Investor Servicing. The window has a red header with the text 'Oracle FLEXCUBE Investor Servicing' and the 'ORACLE' logo. Below the header, the text 'Build Process' is followed by the instruction 'Specify the Property File path.' There are three input fields: 'Load Property File' with a folder icon to its right, 'Symmetric key', and a larger text area with the placeholder text 'Provide the property file path to be included.' At the bottom of the window, there are four buttons: 'Log', 'Back', 'Next', and 'Exit'.

This screenshot shows the same 'Build Process' window as above, but with a 'Select File' dialog box open over it. The dialog box has a title bar 'Select File' and a close button. The 'Look In:' field shows 'config'. The file list contains several files, with 'GW\_RESTEJB\_Prop.properties' selected. The 'File Name:' field contains 'GW\_RESTEJB\_Prop.properties' and the 'Files of Type:' dropdown is set to 'All Files'. At the bottom of the dialog are 'Select' and 'Cancel' buttons. The background window shows the 'Log' button is now visible.

The following screen is displayed:

Oracle FLEXCUBE Investor Servicing ORACLE

**Build Process**  
Specify the Property File path.

Load Property File

Symmetric key

*Provide the property file path to be included.*

Log Back Next Exit

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

Oracle FLEXCUBE Investor Servicing ORACLE

**Build Process**  
Current screen displays the status of sources being copied to destination folder.

100%

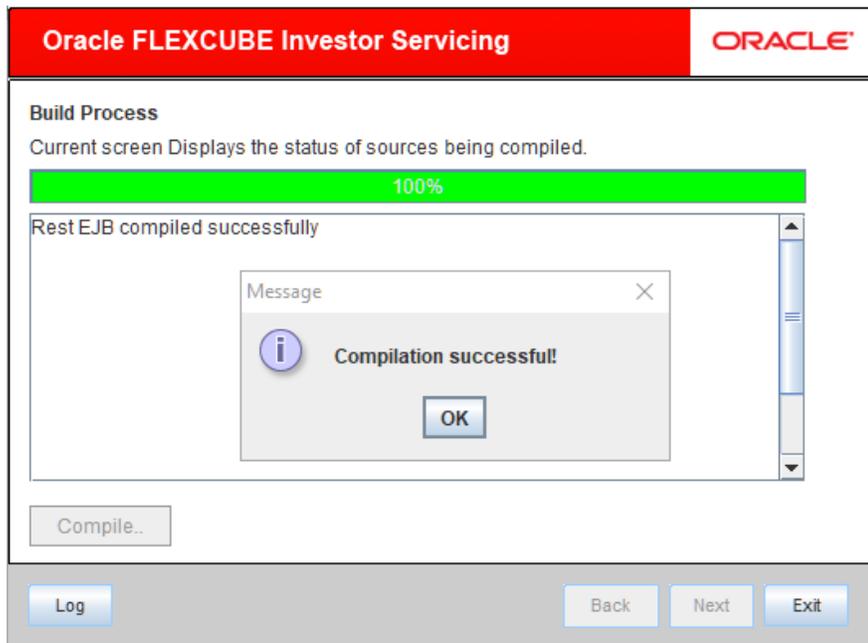
333 files in INFRA Copied

Copy...

Log Back Next Exit

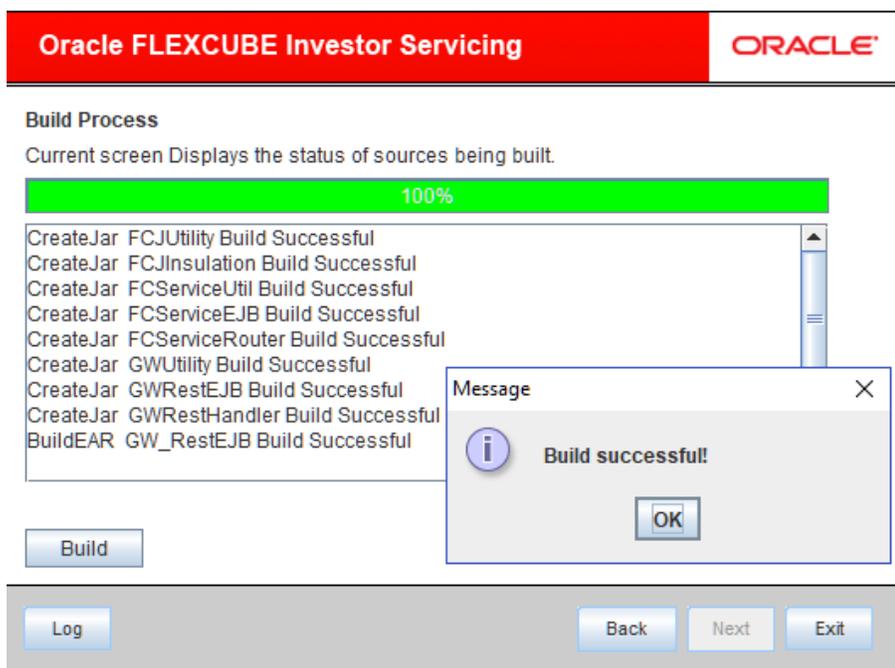
10. Click 'Copy' button. The installer copies the files.

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



12. Click 'Compile' Button.

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



14. Click 'Build' button to start the build process. The installer builds the source files.

This completes the EAR file generation process. The EAR file will be saved to the destination directory.

## 2. Setting up Rest Service WebService Application

This section explains the methods of setting up Rest Service Webservice Application.

### 2.1.1 Prerequisites

You need to create the following Rest Service Webservice property files before building the application:

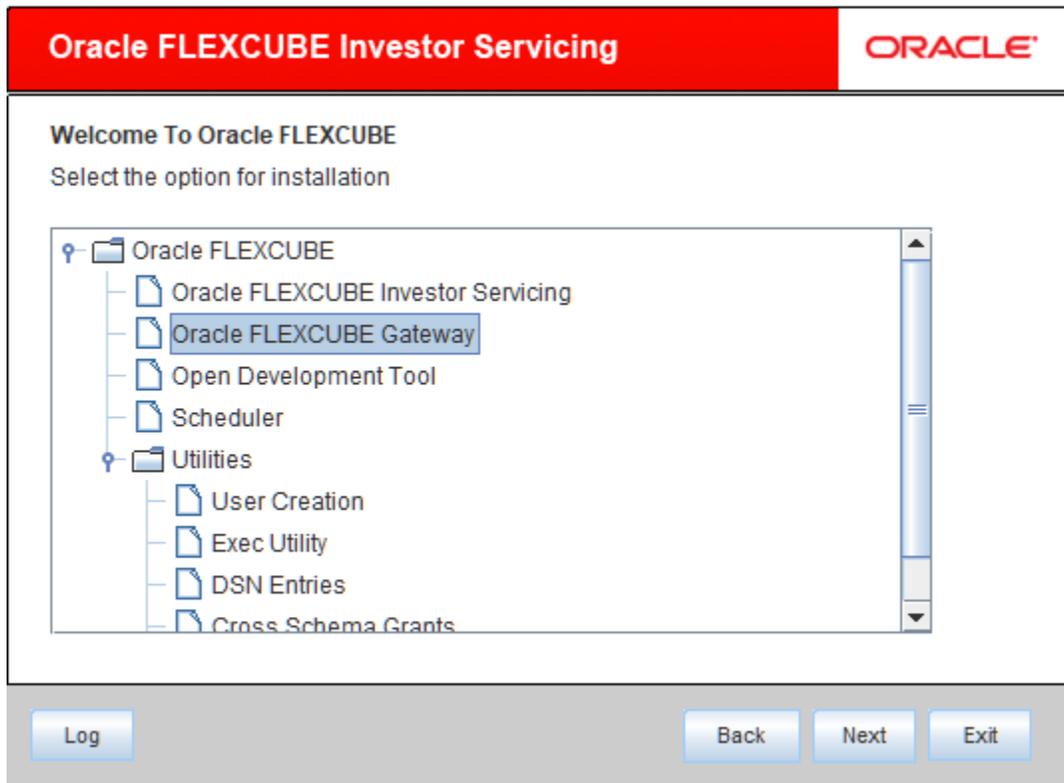
- GW\_REST\_Prop.properties
- gw\_rest\_logger.properties

For details, refer to 'RestService\_Property\_File\_Creation'.

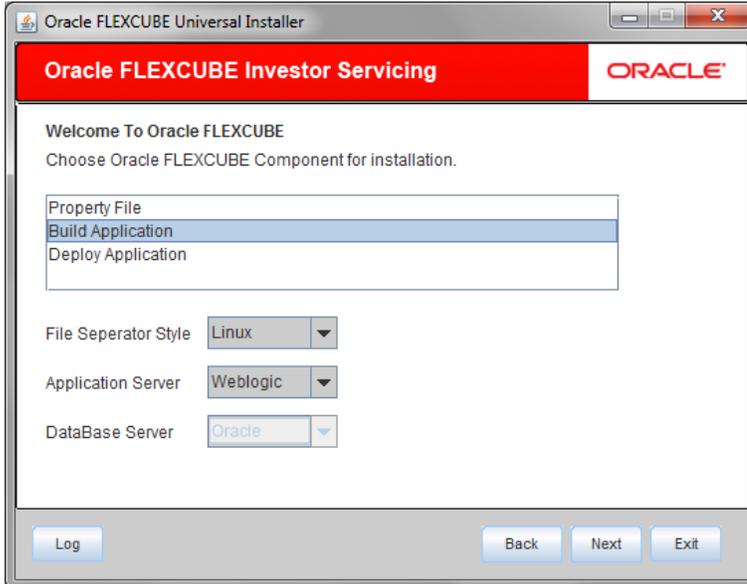
### 2.1.2 Building EAR File

In order to build EAR file for Rest Service Webservice application, you need to follow the steps given below:

1. Launch Oracle FLEXCUBE Universal Installer. The welcome screen is displayed.



Choose the Application 'Oracle FLEXCUBE Gateway'. Click 'Next'. The following screen is displayed:



2. Specify the following details:

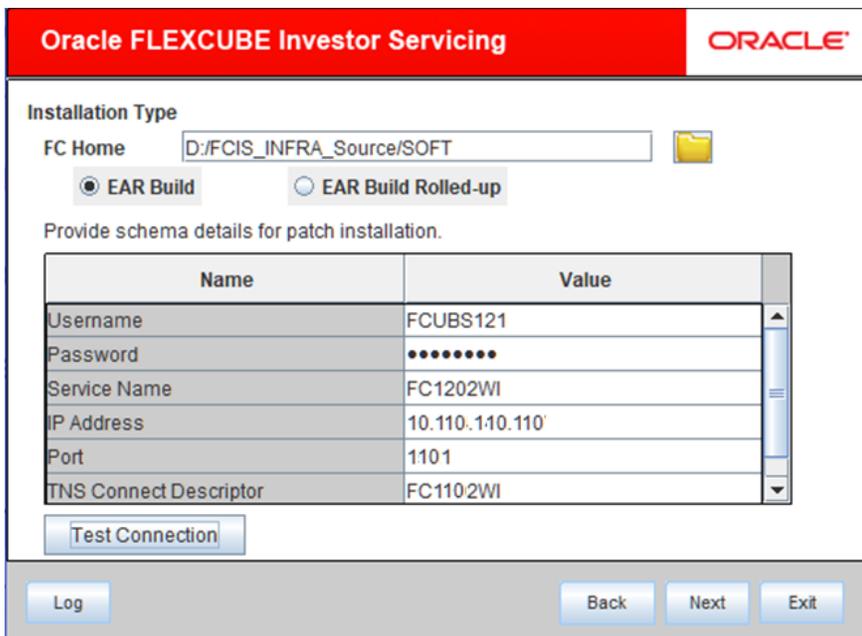
### File Separator Style

Specify the type of file separator (e.g: Linux or Windows). Choose the appropriate one from the drop-down list. You also need to specify the version of the selected operating system.

### Application Server

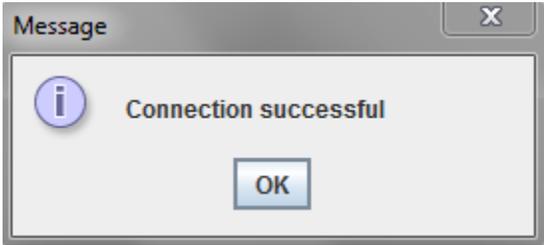
Specify the application server in which you are creating the property file. Choose the appropriate one from the drop-down list.

Choose 'Build Application'. Click 'Next'. The following screen is displayed

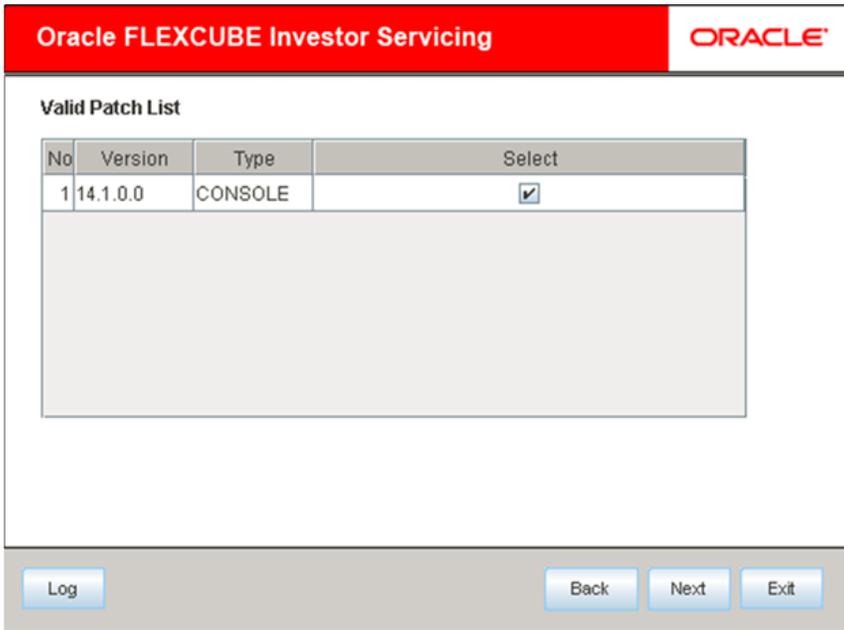


Choose FC home and specify the SMS schema details.

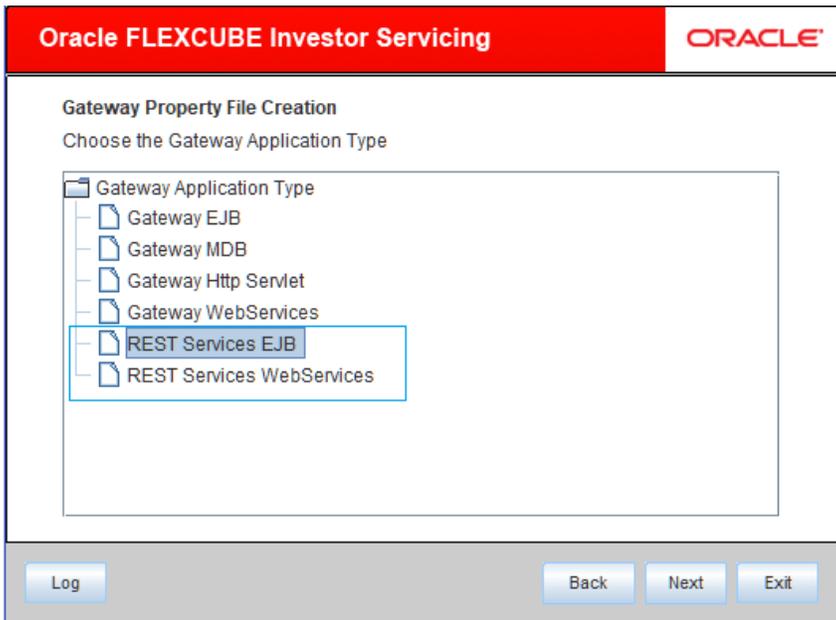
Click 'Test Connection'. On Successful connection the below message will be displayed.



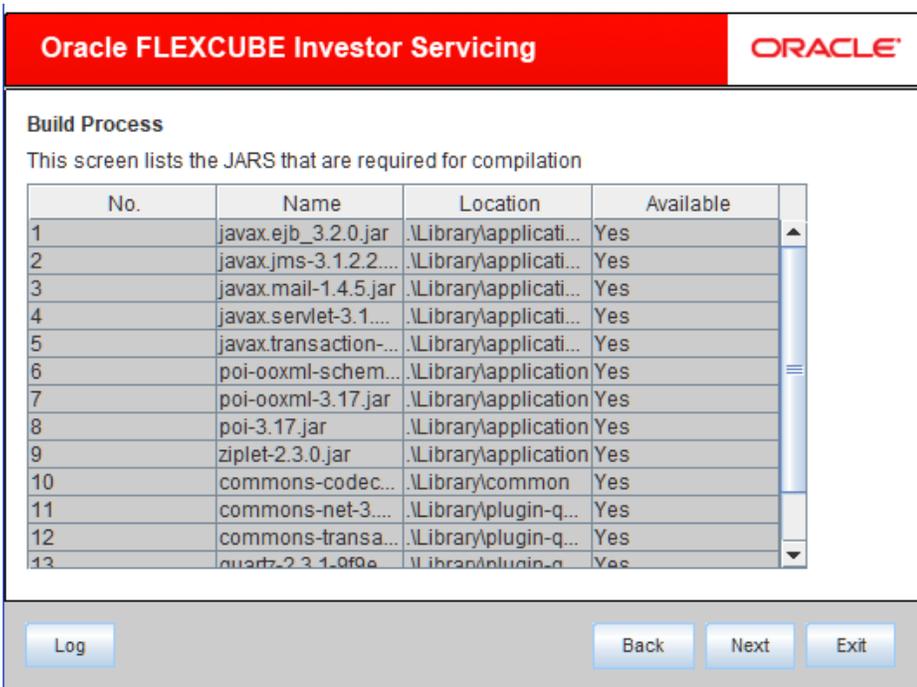
Click OK. Click 'Next' to navigate to next page



Choose patches from list and click 'Next'. The following screen is displayed:



3. Choose 'Rest Service WebService'. Click 'Next'.



4. The following screen is displayed: Click 'Next' the following screen will be displayed.

The screenshot shows a software window titled "Oracle FLEXCUBE Investor Servicing" with the Oracle logo in the top right corner. The main content area is titled "Build Process" and contains the instruction "Specify the destination directory, application name and context." Below this, there are two input fields: "Destination Directory" with the text "D:\DESTTEMPDIR\Sample" and a folder icon to its right, and "Application Name" with the text "GWRestWS". At the bottom of the window, there is a grey bar containing four buttons: "Log", "Back", "Next", and "Exit".

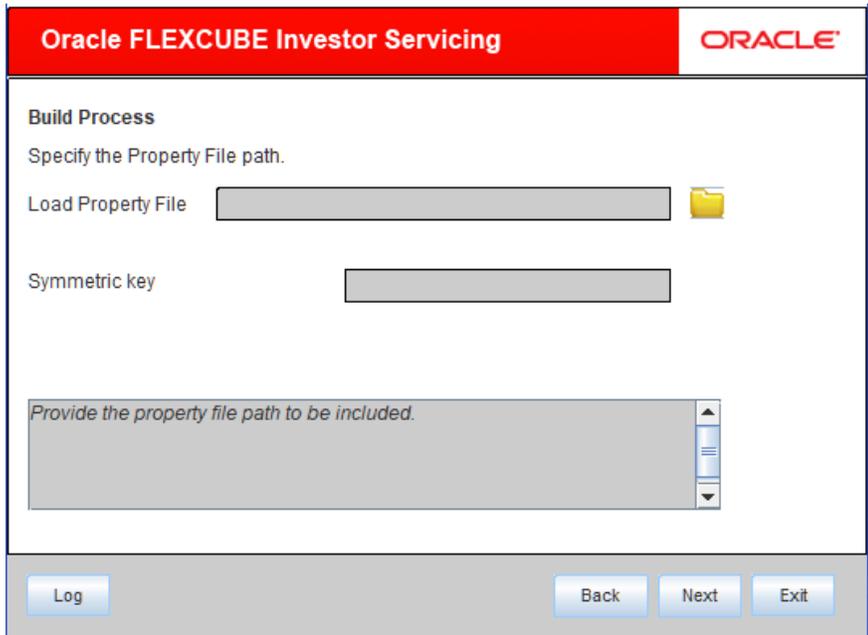
5. Specify the following details:

**Destination Directory**

Specify the location of the destination directory. The source files from the software will be copied to this location.

Eg: D:\

Once you have specified the details, click 'Next' to continue.



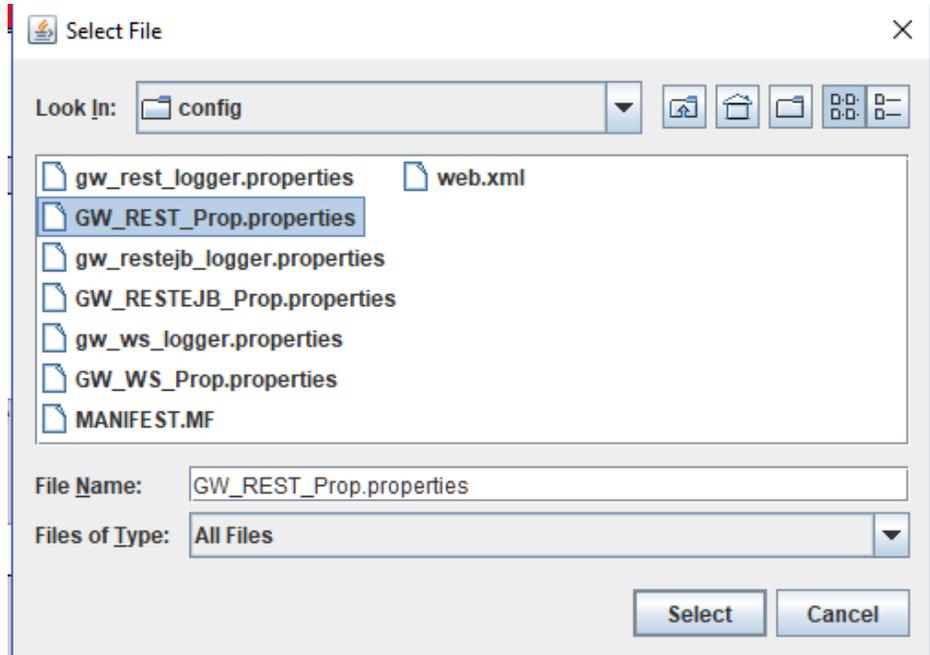
**Oracle FLEXCUBE Investor Servicing** **ORACLE**

**Build Process**  
Specify the Property File path.

Load Property File  

Symmetric key

*Provide the property file path to be included.*



Select File

Look In:      

- gw\_rest\_logger.properties
- web.xml
- GW\_REST\_Prop.properties
- gw\_restejb\_logger.properties
- GW\_RESTEJB\_Prop.properties
- gw\_ws\_logger.properties
- GW\_WS\_Prop.properties
- MANIFEST.MF

File Name:

Files of Type:

The following screen is displayed:

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

**Build Process**  
Specify the Property File path.

Load Property File  

Symmetric key

*Provide the property file path to be included.*

6. Specify the following details:

#### **Centralized Property File**

To modify an existing property file, you need to select the exact property file by clicking on the folder icon.

**Note:** Do not load the Logger.properties file. The installer will load that file automatically based on the property file.

- Click 'Next'. The following screen is displayed. We can select all the services or we can select an particular service

Oracle FLEXCUBE Investor Servicing
ORACLE

**Gateway Webservices**  
Choose modules to be included.

Sl....	Module Name	Service Name	Include	Recomp...
1	LE	PolicyService	<input type="checkbox"/>	<input type="checkbox"/>
2	LE	PolicyStatusChangeService	<input type="checkbox"/>	<input type="checkbox"/>
3	LE	PolicySwitchService	<input type="checkbox"/>	<input type="checkbox"/>
4	LE	PolicyTopupService	<input type="checkbox"/>	<input type="checkbox"/>
5	UT	AuthRepService	<input type="checkbox"/>	<input type="checkbox"/>
6	UT	BlockService	<input type="checkbox"/>	<input type="checkbox"/>
7	UT	BrokerService	<input type="checkbox"/>	<input type="checkbox"/>
8	UT	CustomerService	<input type="checkbox"/>	<input type="checkbox"/>

Select All

Log
Back
Next
Exit

Oracle FLEXCUBE Investor Servicing
ORACLE

**Gateway Webservices**  
Choose modules to be included.

Sl....	Module Name	Service Name	Include	Recomp...
1	LE	PolicyService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	LE	PolicyStatusChangeService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	LE	PolicySwitchService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	LE	PolicyTopupService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	UT	AuthRepService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	UT	BlockService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	UT	BrokerService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	UT	CustomerService	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Select All

Log
Back
Next
Exit

Click 'Next'. The following screen is displayed:

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

**Gateway Webservices**  
Choose modules to be included.

SI....	Module Name	Service Name	Include	Recomp...
16	UT	SwitchService	<input type="checkbox"/>	<input type="checkbox"/>
17	UT	TransactionService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18	UT	TransferService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19	UT	UnitholderService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20	PA	PASAddressDetailsService	<input type="checkbox"/>	<input type="checkbox"/>
21	PA	PASAssetClassService	<input type="checkbox"/>	<input type="checkbox"/>
22	PA	PASBankDetailsService	<input type="checkbox"/>	<input type="checkbox"/>
23	PA	PASIdDetailsService	<input type="checkbox"/>	<input type="checkbox"/>

Select All

Log
Back
Next
Exit

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

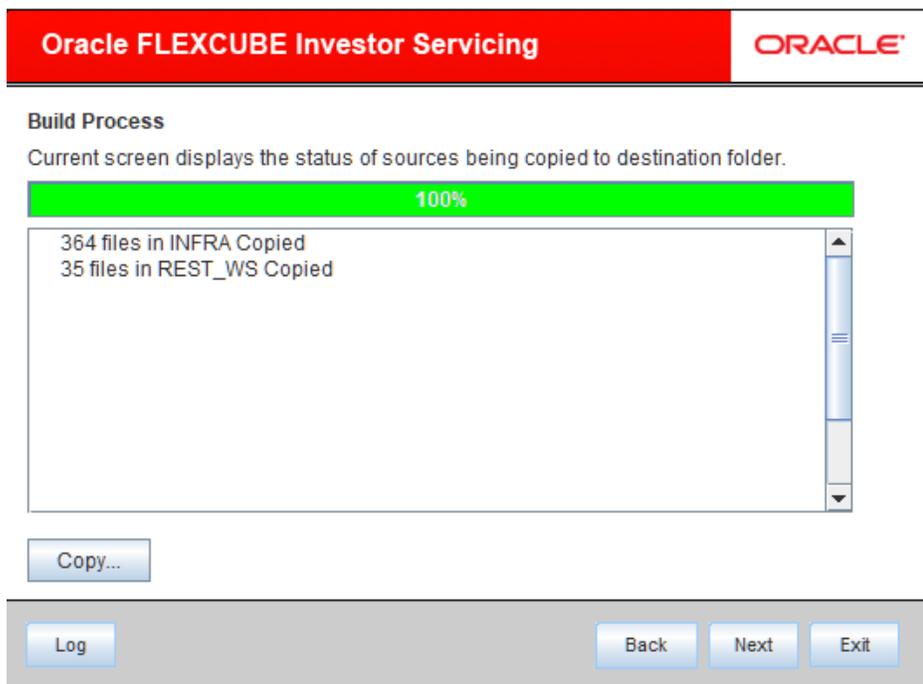
**Gateway Webservices**  
Choose modules to be included.

SI....	Module Name	Service Name	Include	Recomp...
16	UT	SwitchService	<input type="checkbox"/>	<input type="checkbox"/>
17	UT	TransactionService	<input type="checkbox"/>	<input type="checkbox"/>
18	UT	TransferService	<input type="checkbox"/>	<input type="checkbox"/>
19	UT	UnitholderService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20	PA	PASAddressDetailsService	<input type="checkbox"/>	<input type="checkbox"/>
21	PA	PASAssetClassService	<input type="checkbox"/>	<input type="checkbox"/>
22	PA	PASBankDetailsService	<input type="checkbox"/>	<input type="checkbox"/>
23	PA	PASIdDetailsService	<input type="checkbox"/>	<input type="checkbox"/>

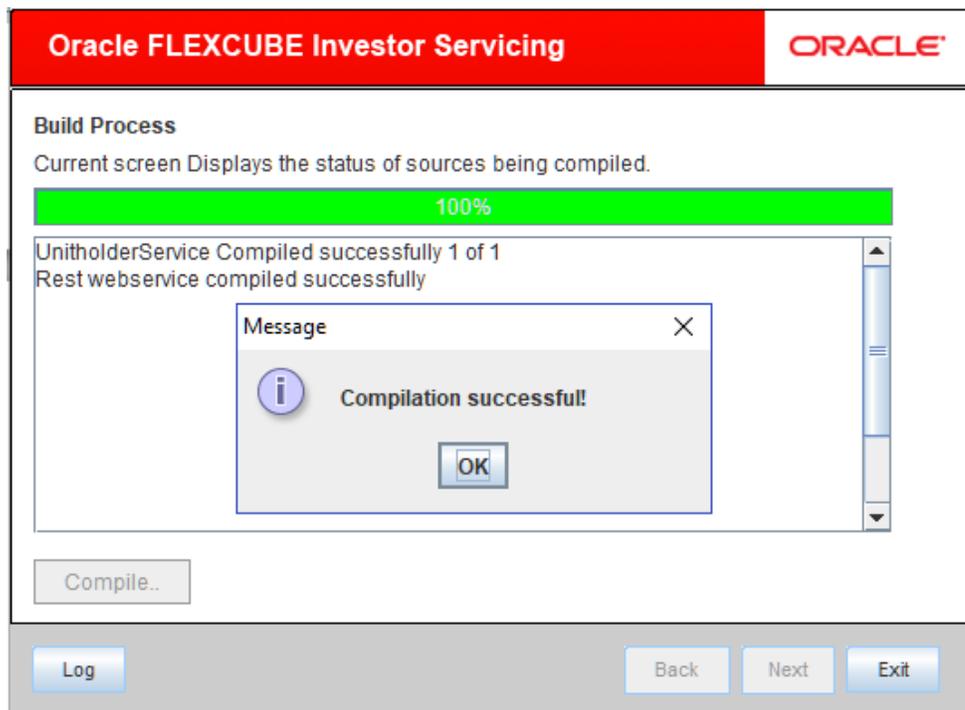
Select All

Log
Back
Next
Exit

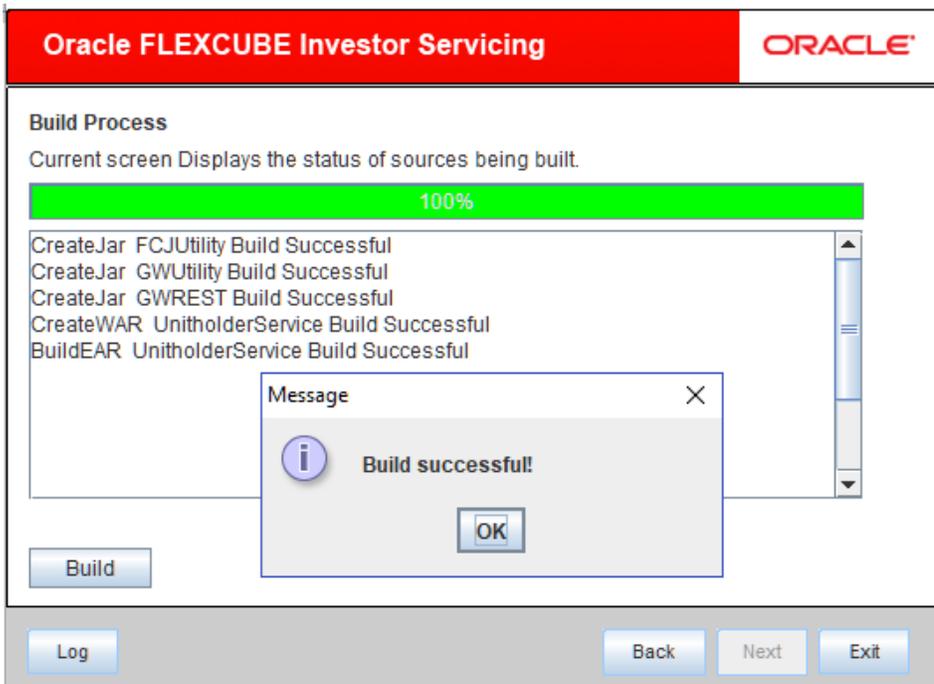
8. Click 'Next'



9. Click 'Copy'
10. Click 'Next'



11. Click 'Compile'. On successful compilation click 'Next'.



This completes the EAR file generation process. The EAR file will be saved to the destination directory..

---

## 3. Post Building Activity

### 3.1 Introduction

This section introduces you to the activities to be carried out after setting up the Rest applications.

#### 3.1.1 RestService Configuration

Rest application looks for the required files inside the 'XSD Path' and 'Logger File' provided at the time of Gateway Property creation.

*Refer Rest Property file generation document for details.*

You need to maintain the following files in XSD Path and Logger Path:

Path	Files
Rest EJB Logger Path	Logger path should contain the gateway property files generated by the Installer.  For instance, for RestEJB application, the installer generates the files 'gw_restejb_logger.properties' and 'GW_RESTEJB_Prop.properties'. While creating the property file if you specify the 'Logger Path' as 'D:/GW_EJB/config/gw_restejb_logger.properties', then you need to place both the files 'gw_restejb_logger.properties' and 'GW_RESTEJB_Prop.properties' inside the folder 'D:/GW_EJB/config'.
Rest WebService Logger Path	Logger path should contain the gateway property files generated by the Installer.  For instance, for RestEJB application, the installer generates the files 'gw_rest_logger.properties' and 'GW_REST_Prop.properties'. While creating the property file if you specify the 'Logger Path' as 'D:/GW_EJB/config/gw_rest_logger.properties', then you need to place both the files 'gw_restejb_logger.properties' and 'GW_REST_Prop.properties' inside the folder 'D:/GW_EJB/config'.

#### 3.1.2 Deployment Using Oracle WebLogic Application Server

For details on the manual deployment using Oracle WebLogic Application Server, refer to the chapter 'Link for RESTService\_Deployment\_Weblogic.doc to be provided'

#### 3.1.3 Deployment Using IBM WebSphere Application Server

For details on the manual deployment using IBM WebSphere Application Server, refer to the chapter 'Link for RESTService\_Deployment\_WebSphere.doc to be provided'.



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[July] [2020]  
Version 14.4.0.0.0

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