Gateway Application Setup
Oracle FLEXCUBE Universal Banking
Release 12.3.0.0.0
[December] [2016]

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1. Setting up Gateway for Oracle FLEXCUBE

1.1 Introduction

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

1.2 Setting up Gateway EJB Application

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

1.2.1 Prerequisites

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

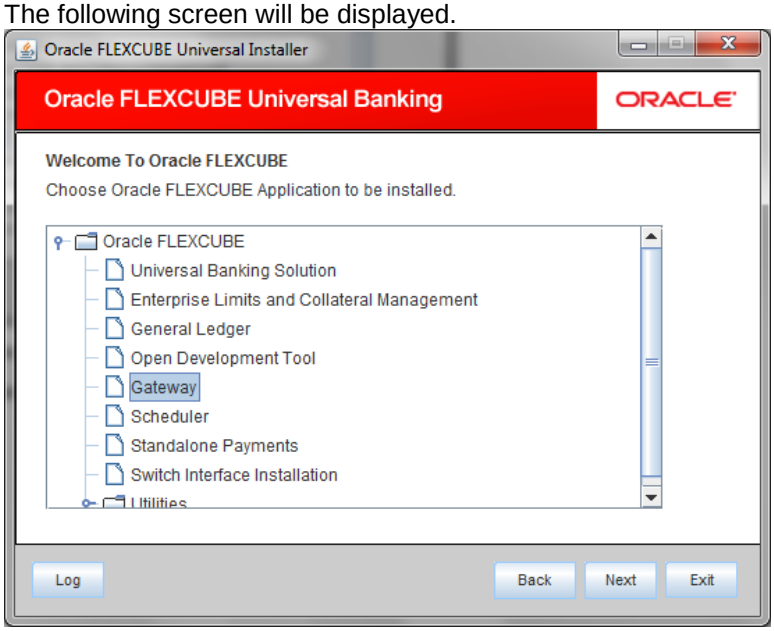
- gw_ejb_logger.properties
- GW_EJB_Prop.properties

1.2.2 Building EAR File

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

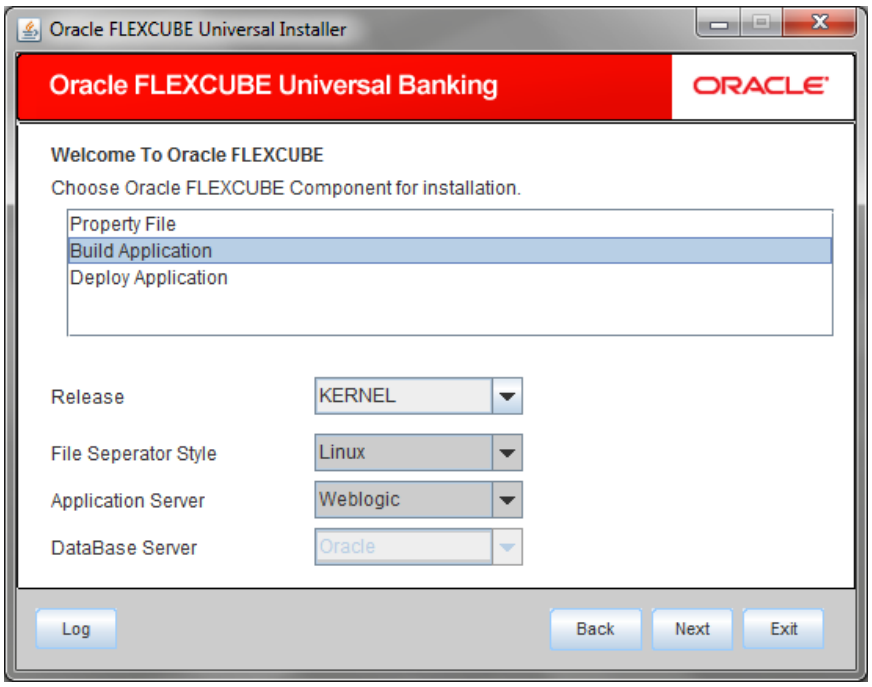
1. Launch Oracle FLEXCUBE Universal Installer. The welcome screen is displayed.
2. Click ‘Next’.

The following screen will be displayed.



3. Select the application ‘Gateway’. Click ‘Next’.

The following screen is displayed:



4. Specify the following details:

File separator Style

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

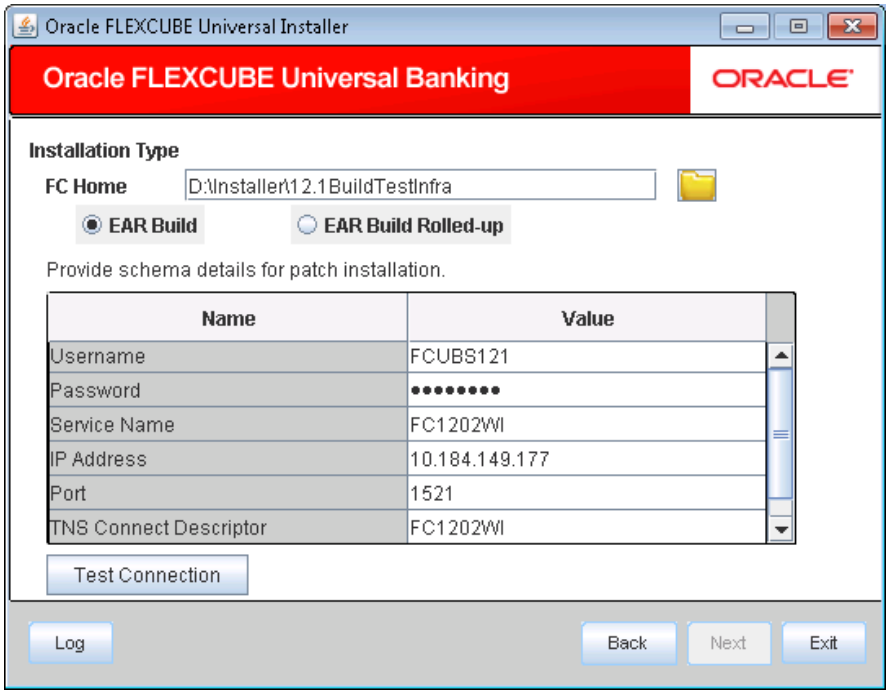
Application Server

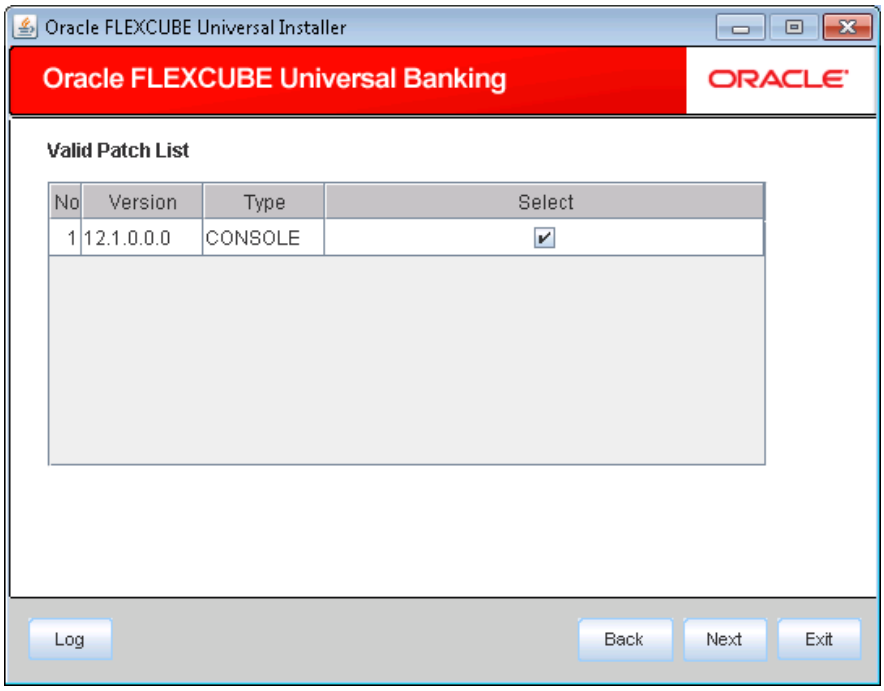
Specify the application server in which you are creating the property file. Select the appropriate one from the drop-down list.

Release

Specify the release in which you are creating the property file. Select the appropriate one from the drop-down list. The options are:

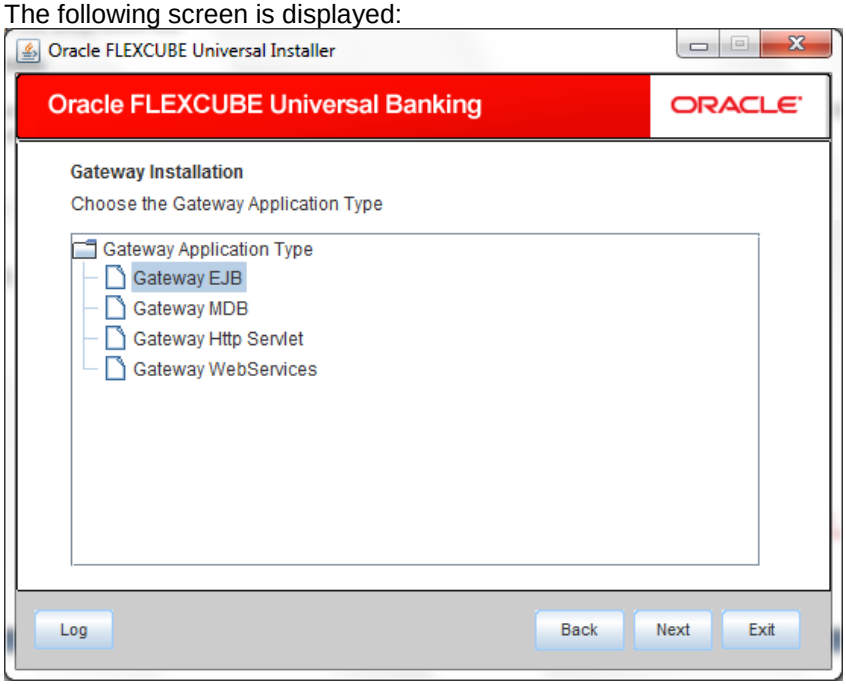
- KERNEL
- VN Cluster





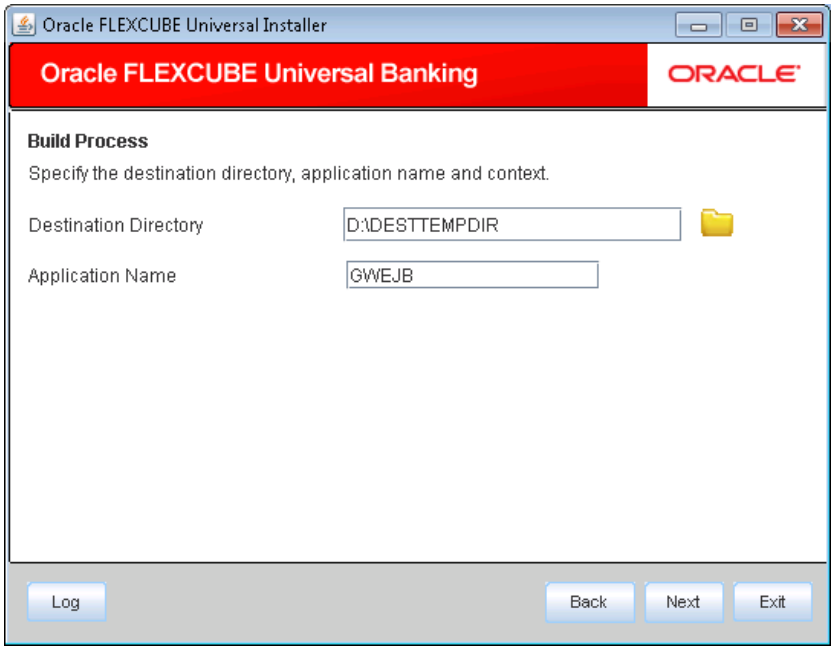
5. Select ‘Build Application’. Click ‘Next’.

The following screen is displayed:



6. Select ‘Gateway EJB’. Click ‘Next’.

7. Click ‘Next’ the following screen will be displayed.



8. Specify the following details:

Destination Directory

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

Eg: D:\Testing\source\dest

Application Name

Specify the EAR name of the application.

The application name should not contain special characters and space. However, you may use '_' (usnderscore).

Eg: GWEJB

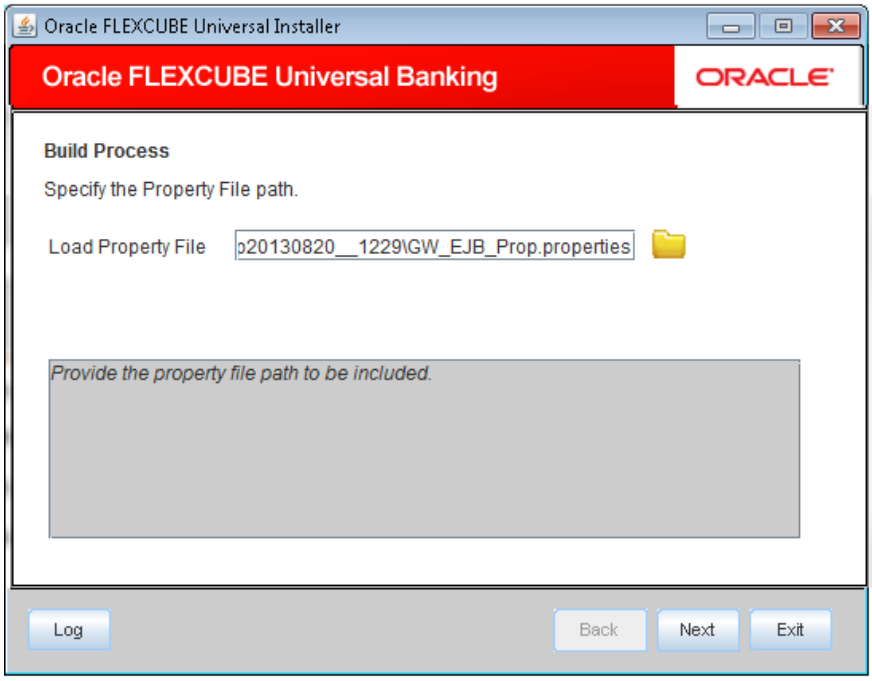
Once you have specified the details, click 'Next' to continue.

The EJB reference name will be '{APPLICATIONAME}_GW_EJB_Bean' and the JNDI name will be '{APPLICATIONAME}/ejb/GW_EJB_Bean'.

For example, consider that the application name is GWEJB. In that case EJB and JNDI names will be as follows:

- EJB reference name: GWEJB_GW_EJB_Bean
- JNDI name: GWEJB/ejb/GW_EJB_Bean

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



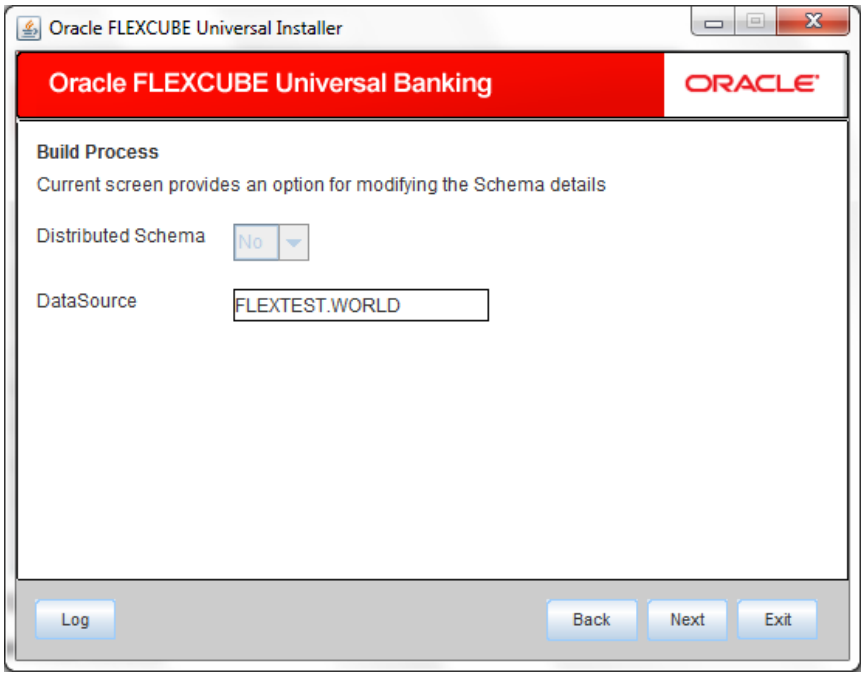
10. Specify the following details:

Centralized Property File

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

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

11. Click ‘Next’. The following screen is displayed.



12. Specify the following details:

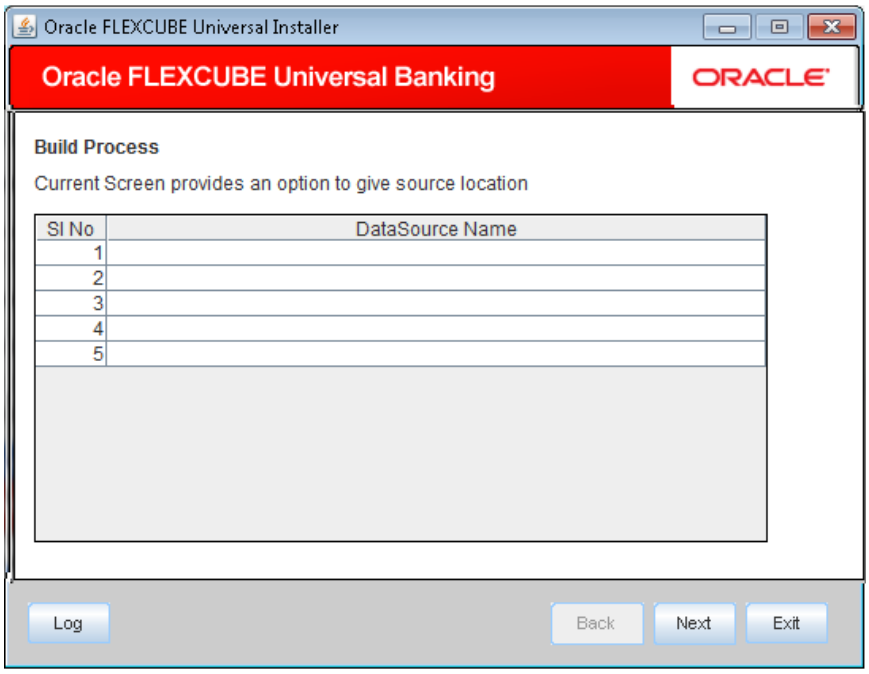
Distributed Schema

Specify whether this is a distributed schema or not. This is a read only component . the Distributed schema will be YES only if the property file has distributed schema.

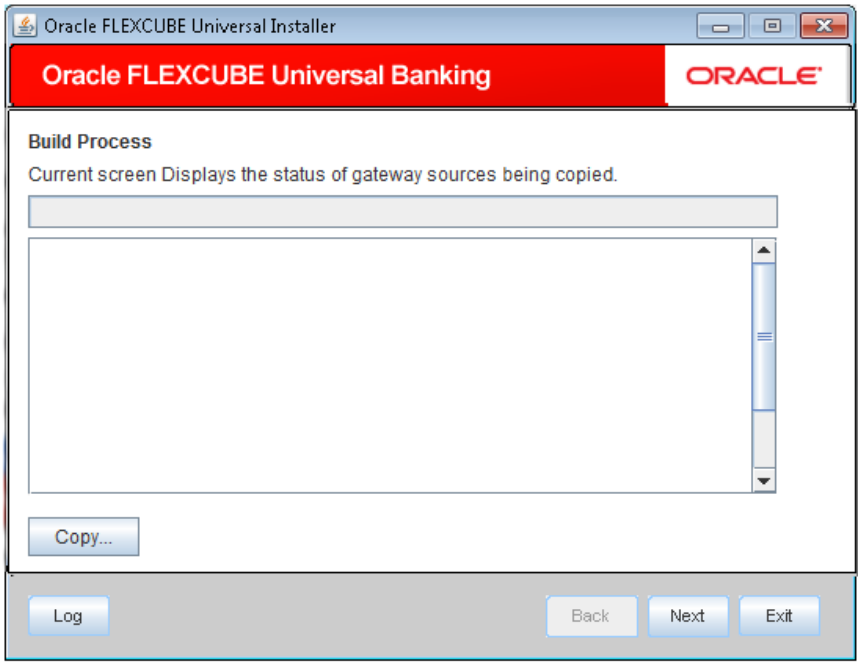
Data Source

Specify the data source of the schema.

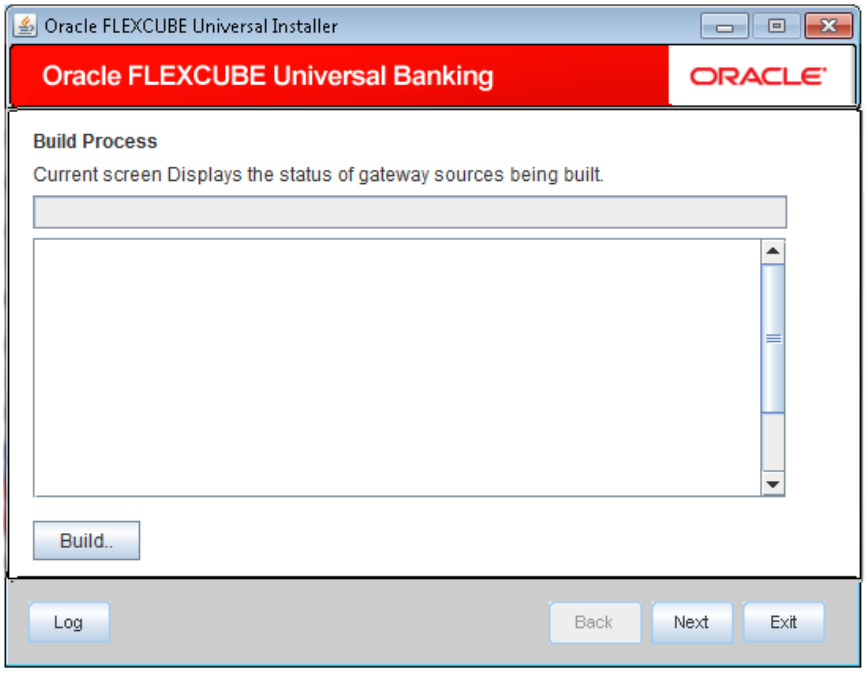
13. Click ‘Next’. In case you have selected ‘Yes’ against Distributed Schema, the following screen is displayed.



14. Specify the datasource names.
15. Click ‘Next’. The following screen is displayed.



16. Click ‘Copy’ button. The installer copies the files.
17. Click ‘Next. The following screen is displayed.



18. Click ‘Build’ button to start the build process. The installer builds the source files.

19. The compilation screen is not available in EXEC mode of installation.

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

1.3 Setting up Gateway MDB Application

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

1.3.1 Prerequisites

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

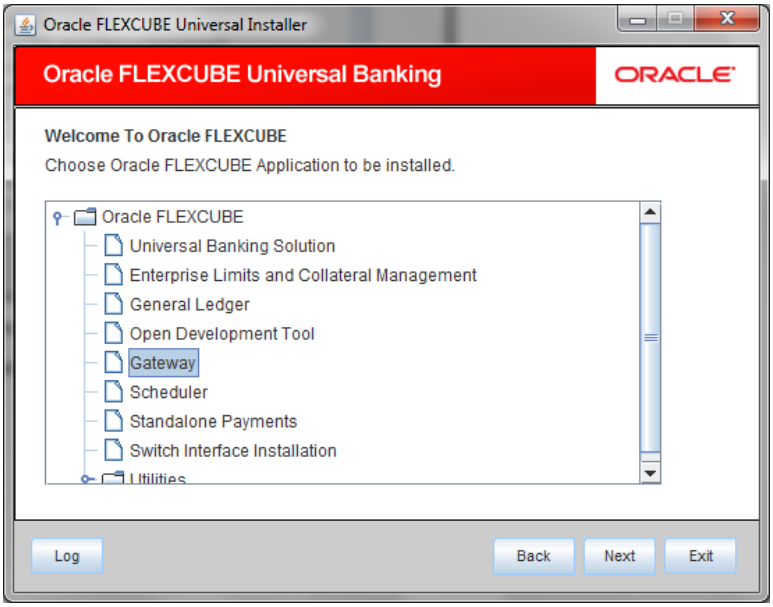
- gw_mdb_logger.properties
- GW_MDB_Prop.properties

For details, refer to the section 'Gateway MDB Application' in chapter 'Setting up Property Files' (04-PropertyFile_Setup).

1.3.2 Building EAR File

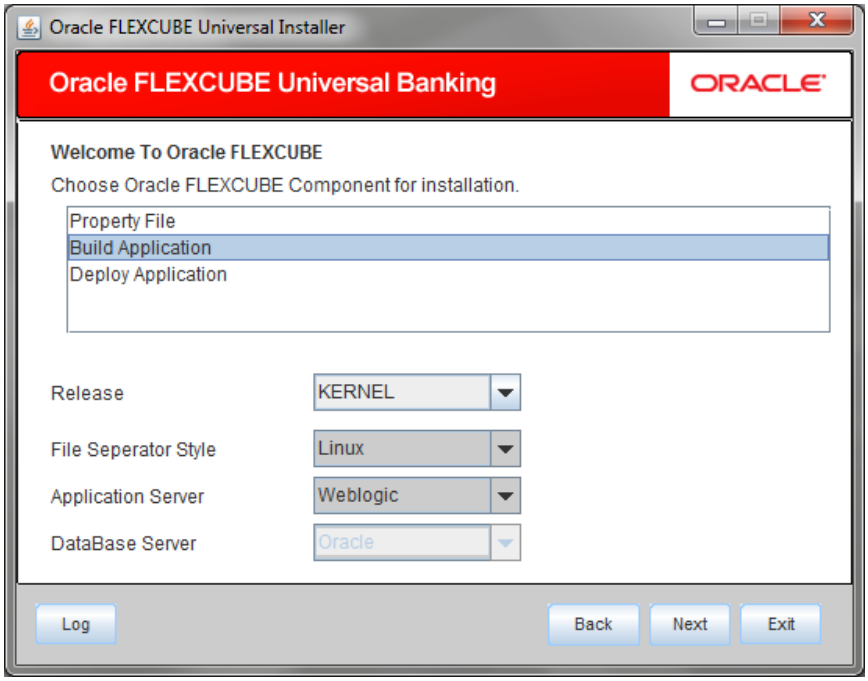
In order to build EAR file for Gateway MDB Application, you need to follow the steps given below:

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



2. Select the application 'Gateway'. Click 'Next'.

   The following screen is displayed:



3. Specify the following details:

File Separator Style:

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

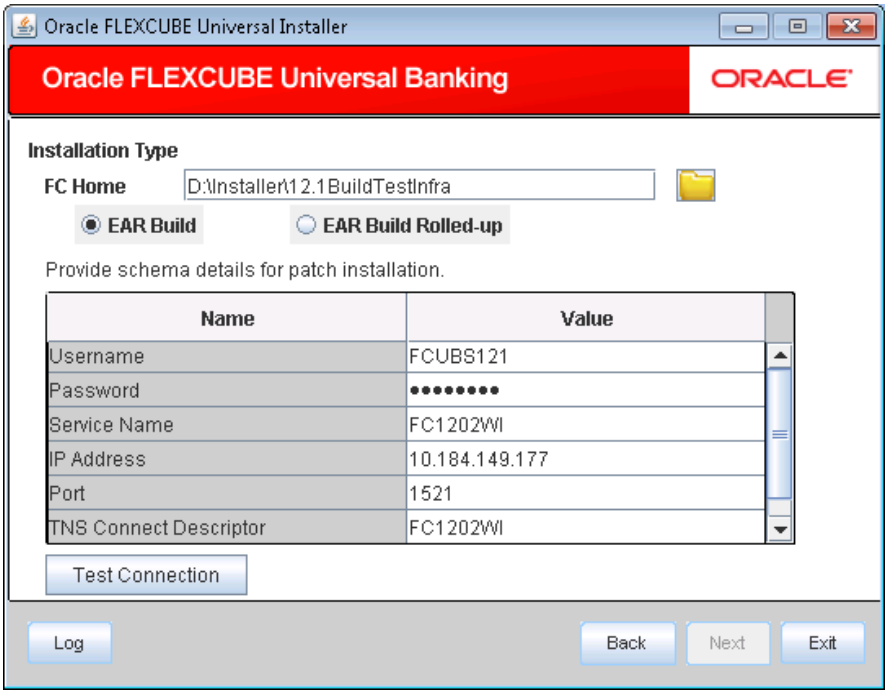
Application Server

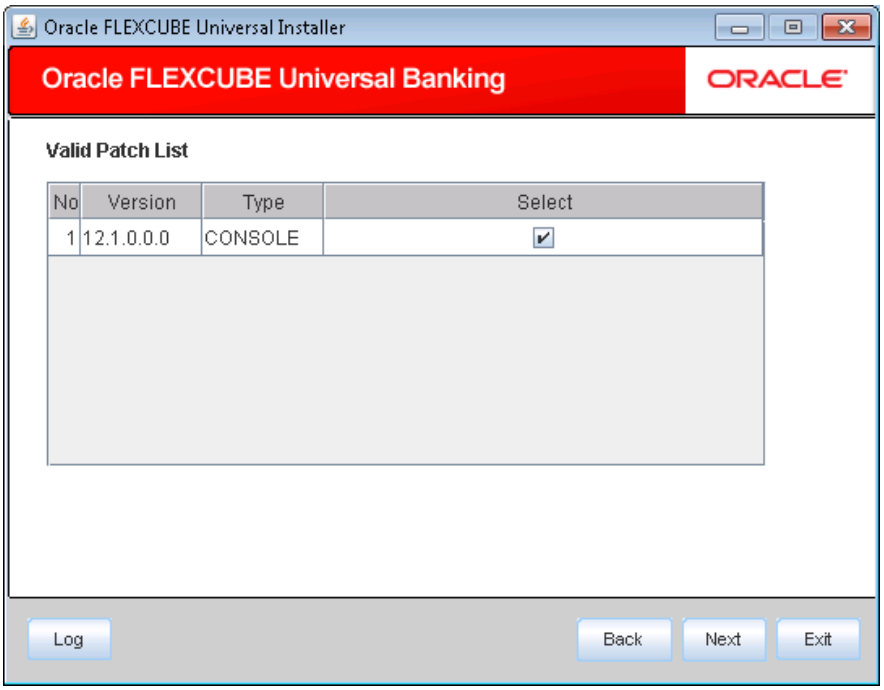
Specify the application server in which you are creating the property file. Select the appropriate one from the drop-down list.

Release

Specify the release in which you are creating the property file. Select the appropriate one from the drop-down list. The options are:

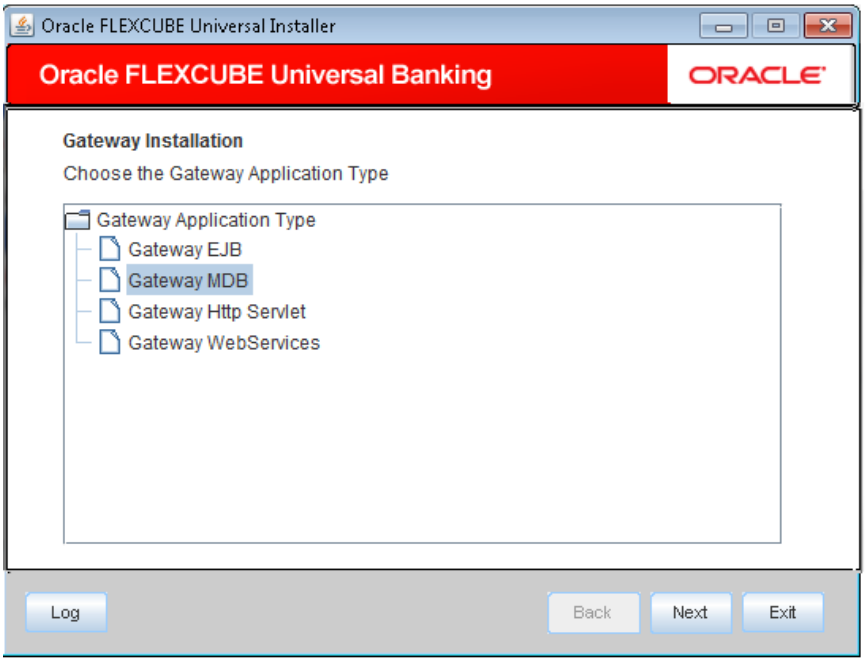
- KERNEL
- VN Cluster


Oracle FLEXCUBE Universal Installer
Oracle FLEXCUBE Universal Banking
ORACLE
Installation Type
FC Home
D:\Installer\12.1BuildTestInfra
EAR Build
EAR Build Rolled-up
Provide schema details for patch installation.
Name
Value
Username
FCUBS121
Password
Service Name
FC1202WI
IP Address
10.184.149.177
Port
1521
TNS Connect Descriptor
FC1202WI
Test Connection
Log
Back
Next
Exit


Oracle FLEXCUBE Universal Installer
Oracle FLEXCUBE Universal Banking
ORACLE
Valid Patch List
No
Version
Type
Select
1
12.1.0.0.0
CONSOLE
Log
Back
Next
Exit

ORACLE

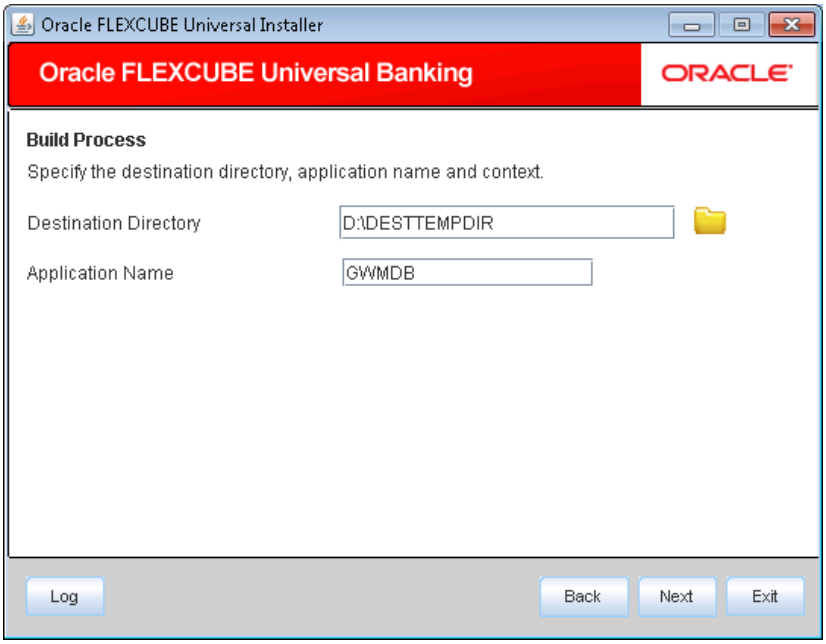
4. Select ‘Build Application’. Click ‘Next’. The following screen is displayed:



5. Select ‘Gateway MDB’. Click ‘Next’.

   The following screen is displayed:

6. Click ‘Next’ the following screen will be displayed.



7. 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:\Testing\source\dest

Application Name

Specify the EAR name of the application.

The application name should not contain special characters and space. However, you may use '_' (Underscore).

Eg: GWMDB

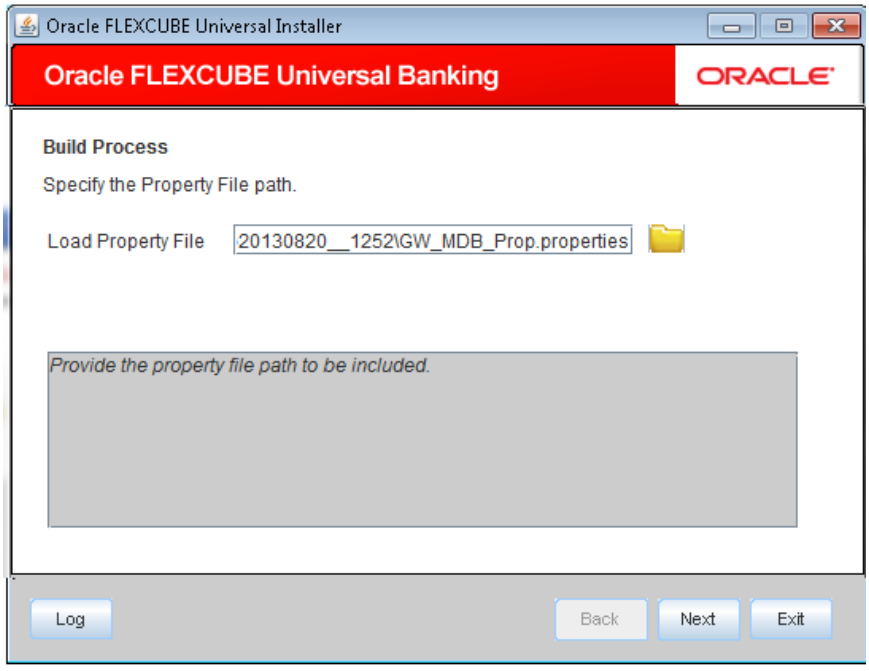
8. Once you have specified the details, click 'Next' to continue.

The EJB reference name will be '{APPLICATIONAME}_GW_MDB_Bean' and the JNDI name will be '{APPLICATIONAME}/ejb/GW_MDB_Bean'.

For example, consider that the application name is GWMDB. In that case EJB and JNDI names will be as follows:

- EJB reference name: GWMDB_GW_MDB_Bean
- JNDI name: GWMDB/ejb/GW_MDB_Bean

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



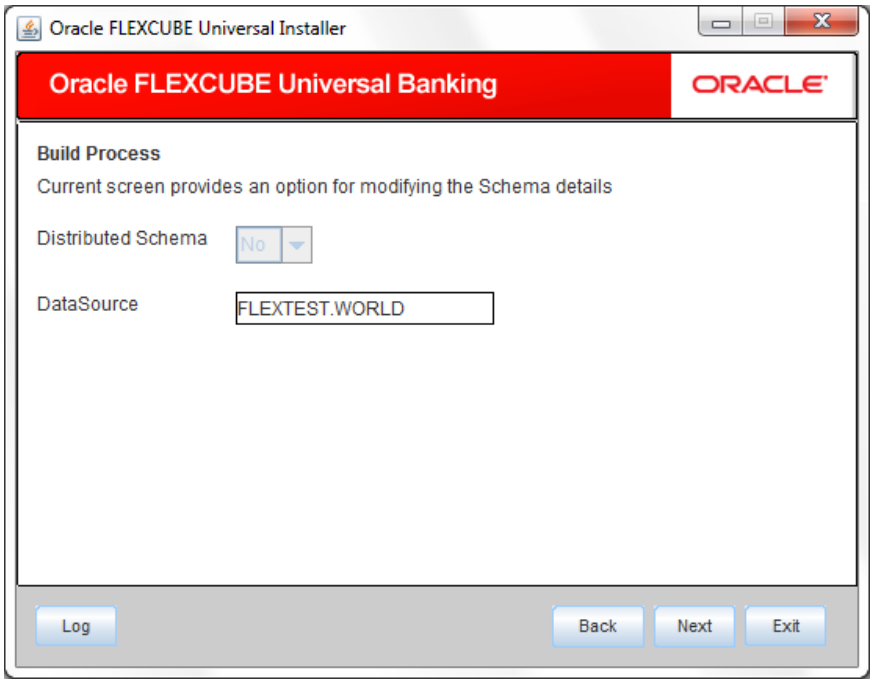
10. Specify the following details:

Centralized Property File

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

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

11. Click ‘Next’. The following screen is displayed.



12. Specify the following details:

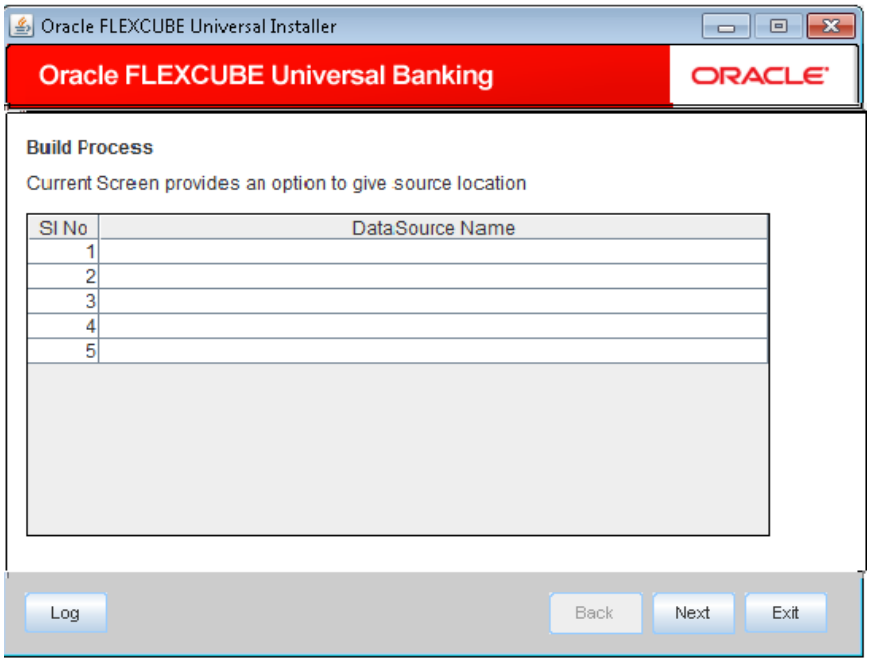
Distributed Schema

Specify whether this is a distributed schema or not. Select ‘Yes’ to indicate that this is a distributed schema. Otherwise, select ‘No’.

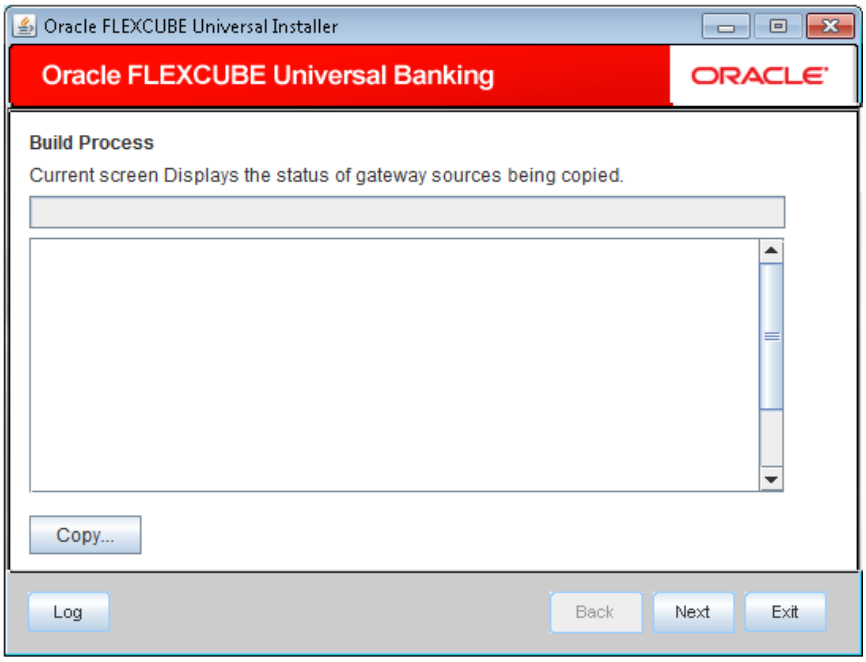
Data Source

Specify the data source of the schema.

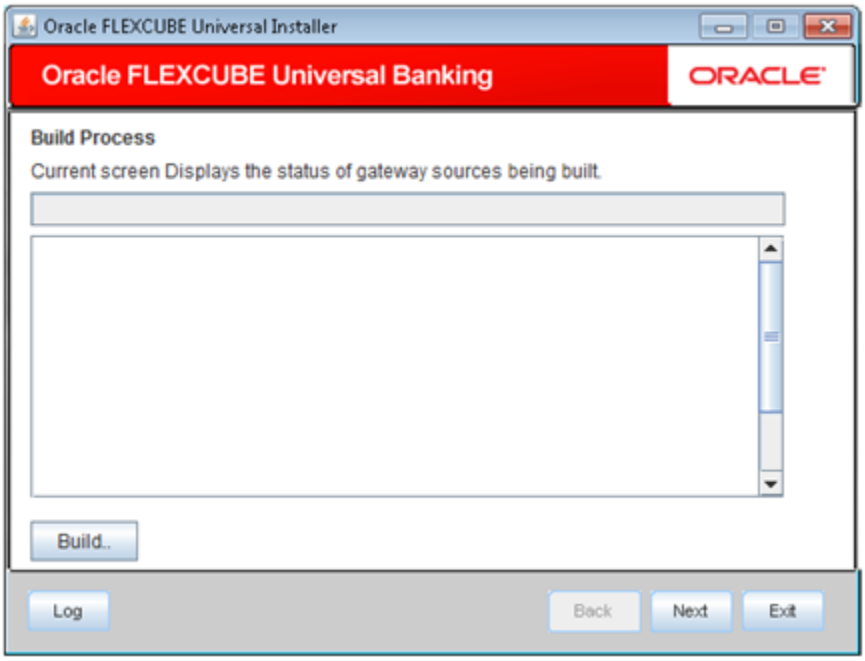
13. Click ‘Next’. In case you have selected ‘Yes’ against Distributed Schema, the following screen is displayed.



14. Specify the datasource names.
15. Click ‘Next’. The following screen is displayed.



16. Click ‘Copy’ button. The installer copies the files.
17. Click ‘Next. The following screen is displayed.



18. Click ‘Build’ button to start the build process. The installer builds the source files.

19. The compilation screen is not available in EXEC mode of installation.

This completes the EAR file generation process.

The EAR file will be saved to the destination directory.

1.4 Setting up Gateway HTTP Application

This section explains the methods of setting up Gateway EJB Application. This is not applicable in EXEC mode of installation.

1.4.1 Prerequisites

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

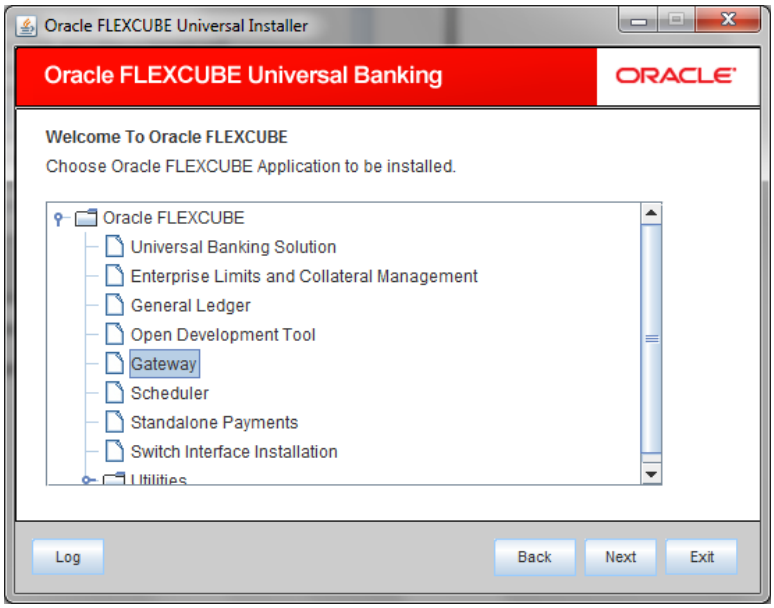
- gw_http_logger.properties
- GW_HTTP_Prop.properties

For details, refer to the section 'Gateway HTTP Application' in chapter 'Setting up Property Files' (04-PropertyFile_Setup).

1.4.2 Building EAR file

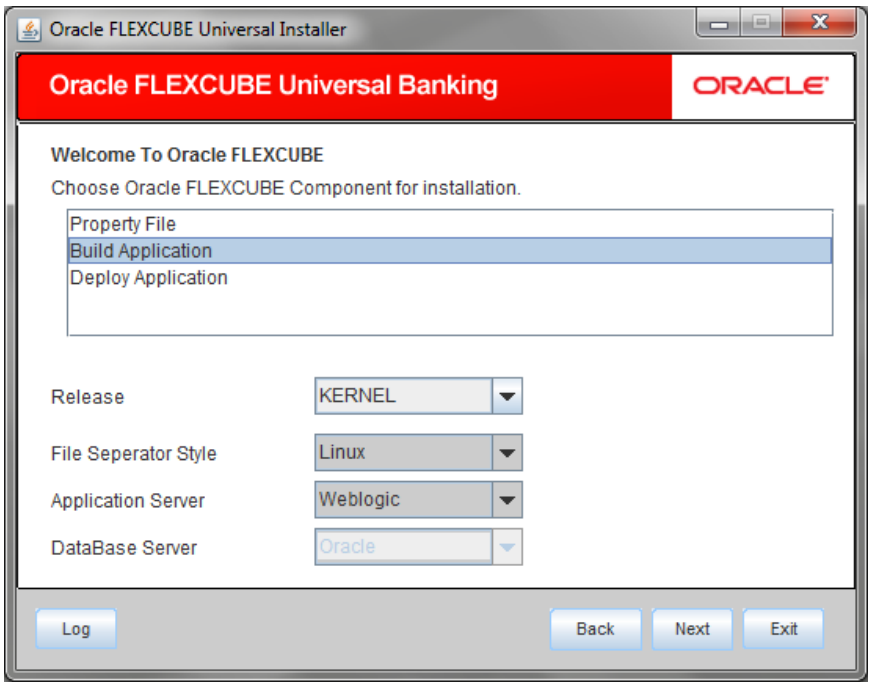
In order to build EAR file for Gateway HTTP Application, you need to follow the steps given below:

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



2. Select the Application 'Gateway'. Click 'Next'.

The following screen is displayed:



3. Specify the following details:

File Separator Style

Specify the operating system in which you are creating the property file. Select the appropriate one from the drop-down list.

Application Server

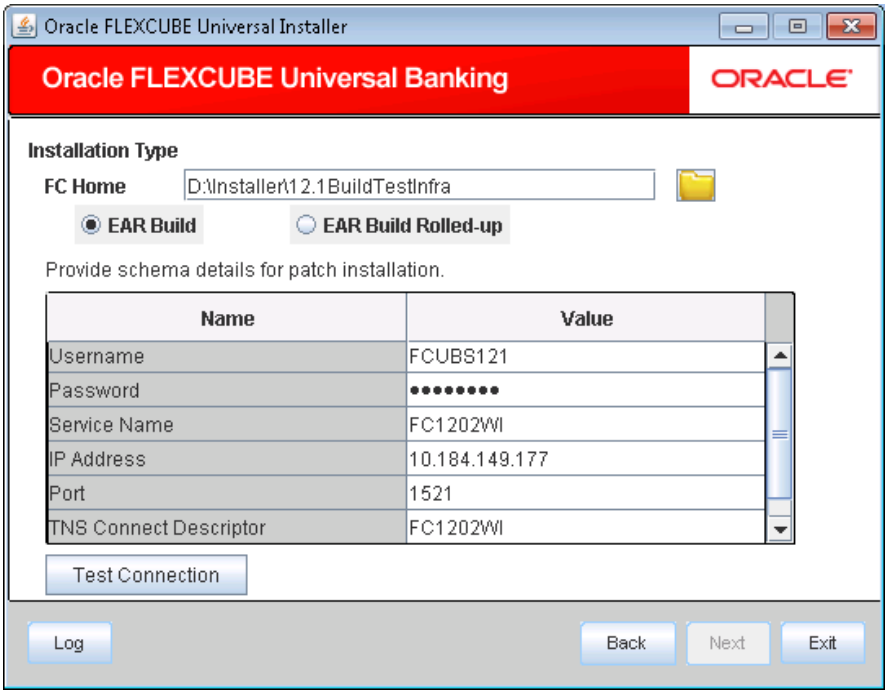
Specify the application server in which you are creating the property file. Select the appropriate one from the drop-down list.

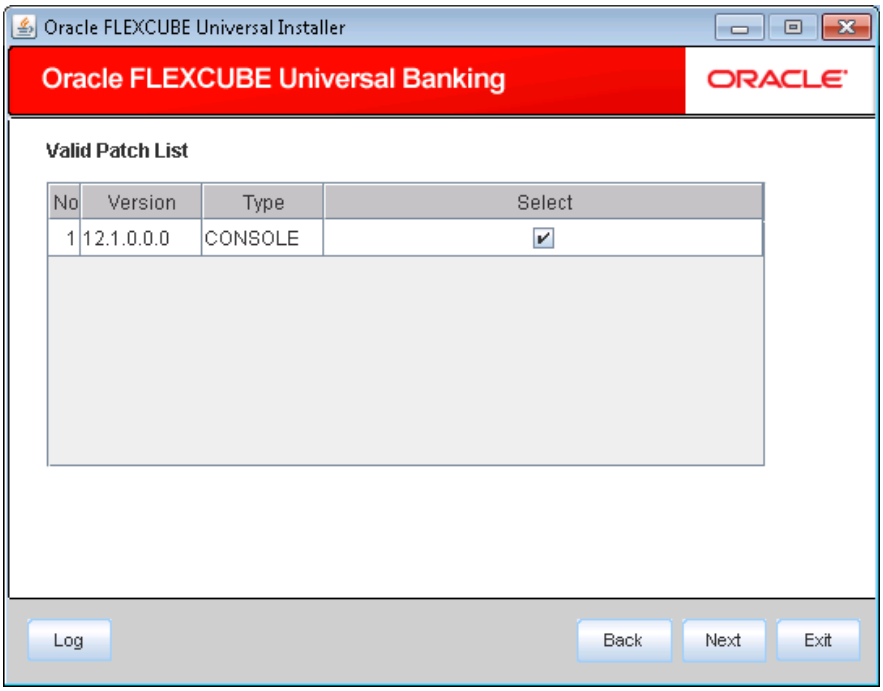
Release

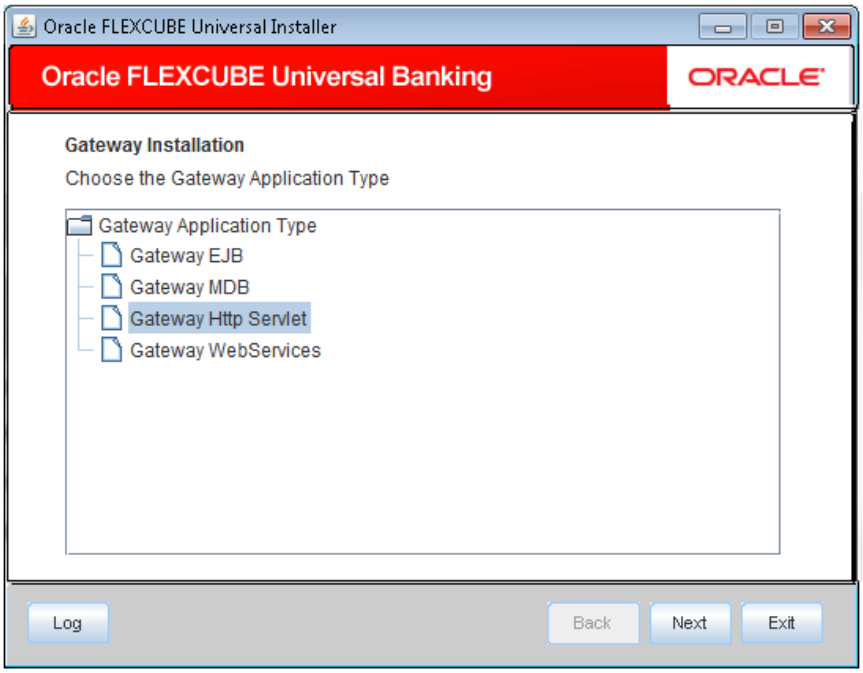
Specify the release in which you are creating the property file. Select the appropriate one from the drop-down list. The options are:

- KERNEL
- VN Cluster.

4. Select ‘Build Application’. Click ‘Next’. The following screen is displayed:


Oracle FLEXCUBE Universal Installer
Oracle FLEXCUBE Universal Banking
ORACLE
Installation Type
FC Home
D:\Installer\12.1BuildTestInfra
EAR Build
EAR Build Rolled-up
Provide schema details for patch installation.
Name
Value
Username
FCUBS121
Password
Service Name
FC1202WI
IP Address
10.184.149.177
Port
1521
TNS Connect Descriptor
FC1202WI
Test Connection
Log
Back
Next
Exit

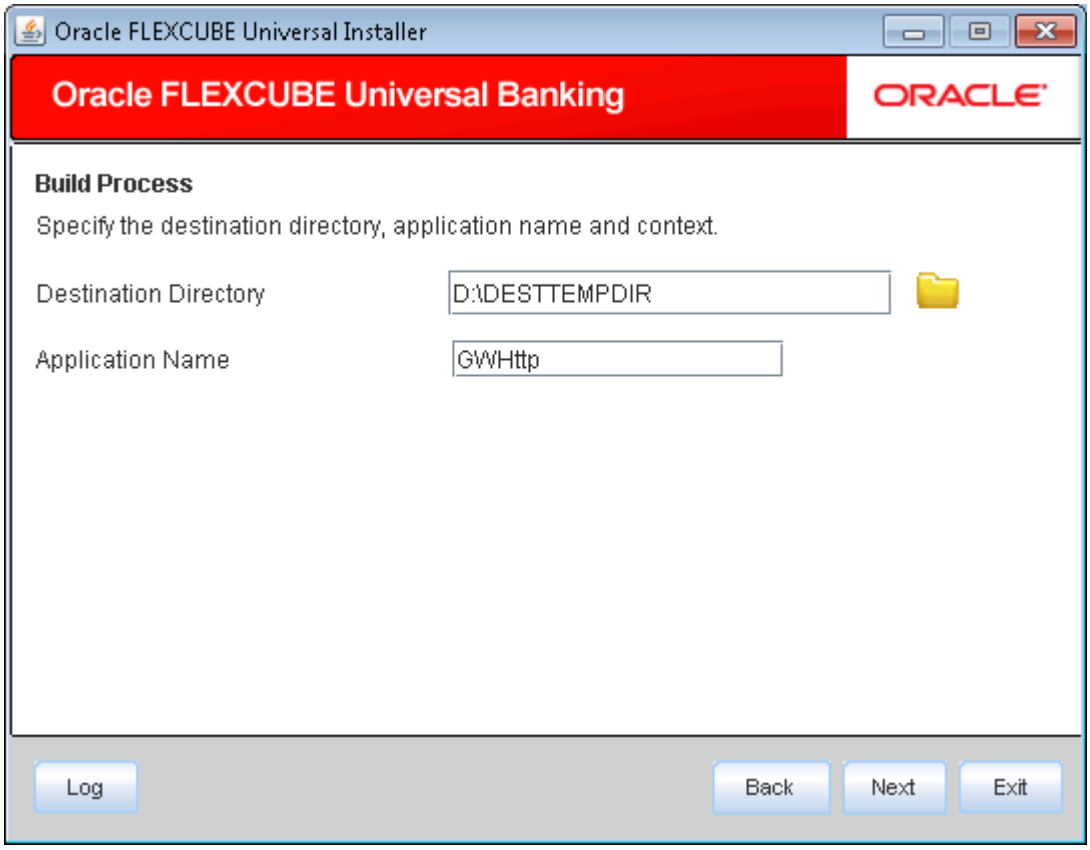

Oracle FLEXCUBE Universal Installer
Oracle FLEXCUBE Universal Banking
ORACLE
Valid Patch List
No
Version
Type
Select
1
12.1.0.0.0
CONSOLE
Log
Back
Next
Exit



5. Select ‘Gateway Http Servlet’. Click ‘Next’.

The following screen is displayed:

6. Click ‘Next’ the following screen will be displayed.



7. 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:\Testing\source\dest

Application Name

Specify the EAR name of the application.

The application name should not contain special characters and space. However, you may use '_' (underscore).

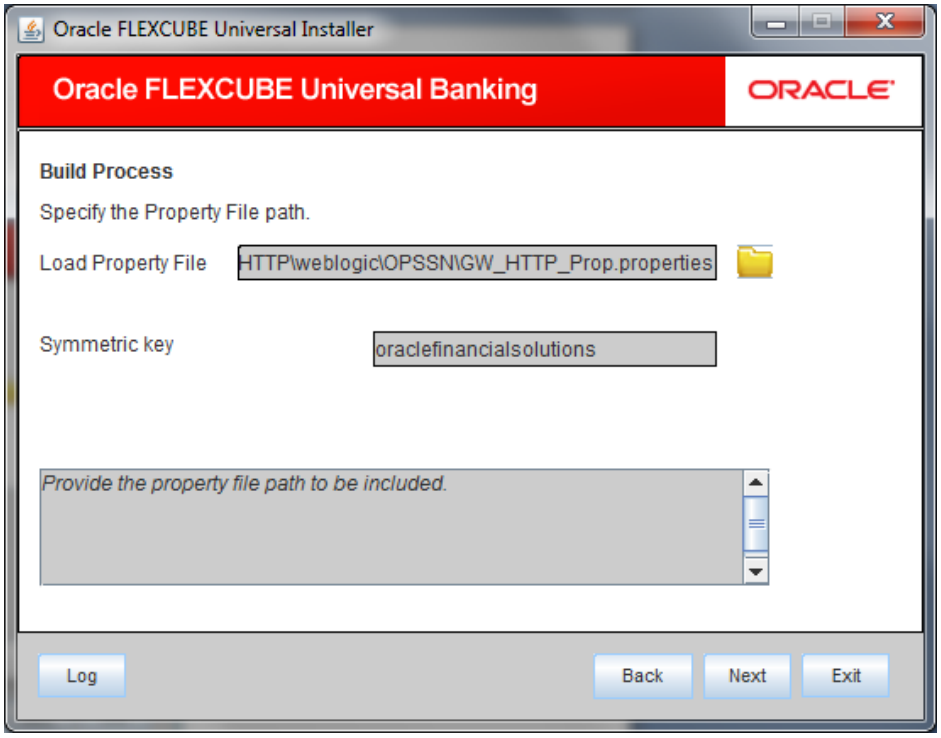
Eg: GWHTTP

Application Context

Based on the Application type selected, the Installer displays the application context. However, you may modify the default value.

in the destination directory.

- Once you have specified the details, click 'Next' to continue.
- The following screen is displayed.

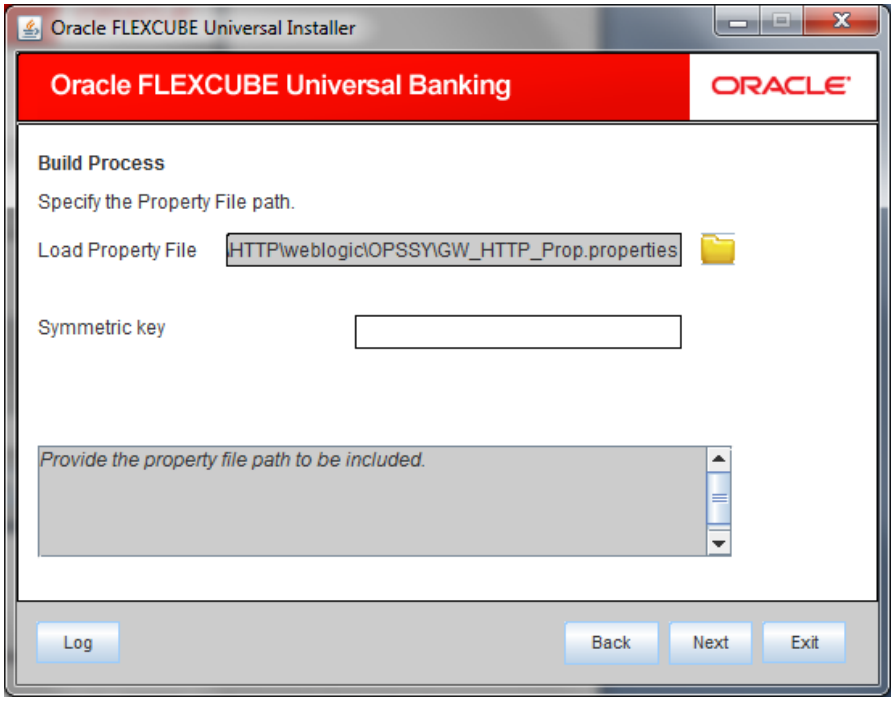


8. Specify the following details:

Centralized Property File

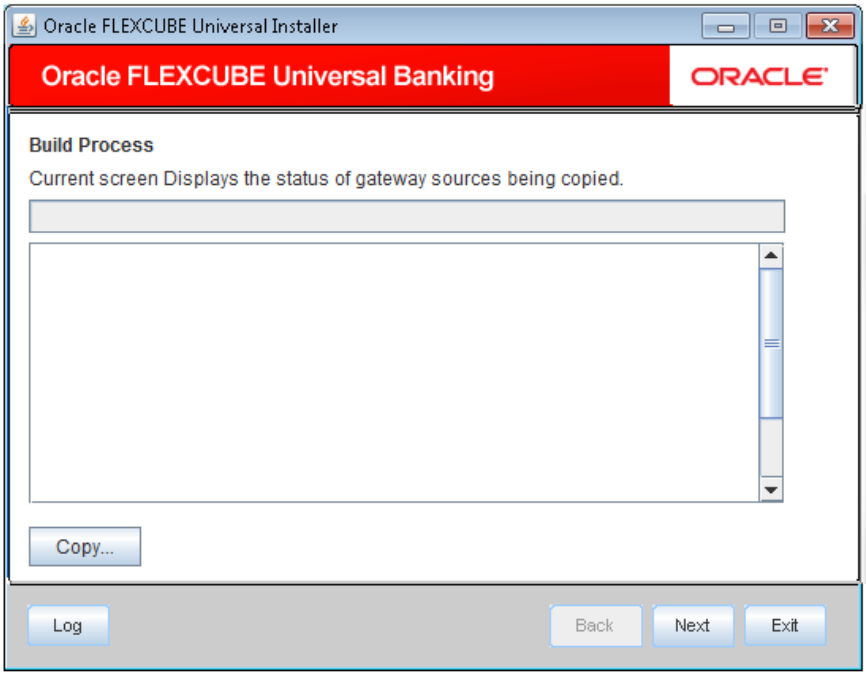
To modify an existing property file, you need to select the exact property file by clicking on the folder icon.

For OPSS =N value for Symmetric key will be loaded ,otherwise for OPSS =N Symmetric key value has to be entered .



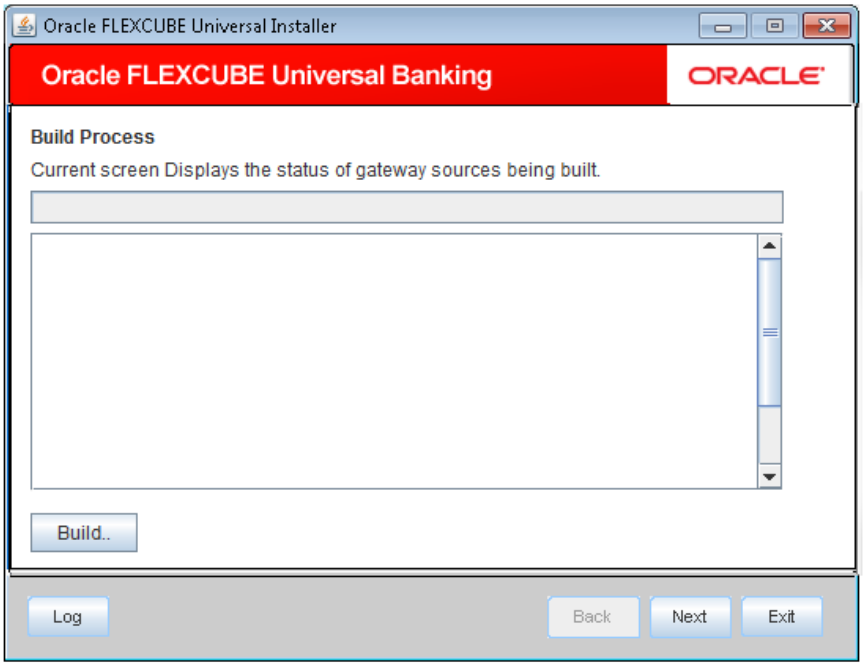
Do not load the Logger.properties file. The installer will load that file automatically based on the property file.

9. Click ‘Next’. The following screen is displayed.



10. Click ‘Copy’ button. The installer copies the files.

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



12. Click ‘Build’ button to start the build process. The installer builds the source files.

13. The compilation screen is not available in EXEC mode of installation.

This completes the EAR file generation process.

The EAR file will be saved to the destination directory.

1.5 Setting up Gateway Web Service Application

1.5.1 Prerequisites

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

- gw_ws_logger.properties
- GW_WS_Prop.properties

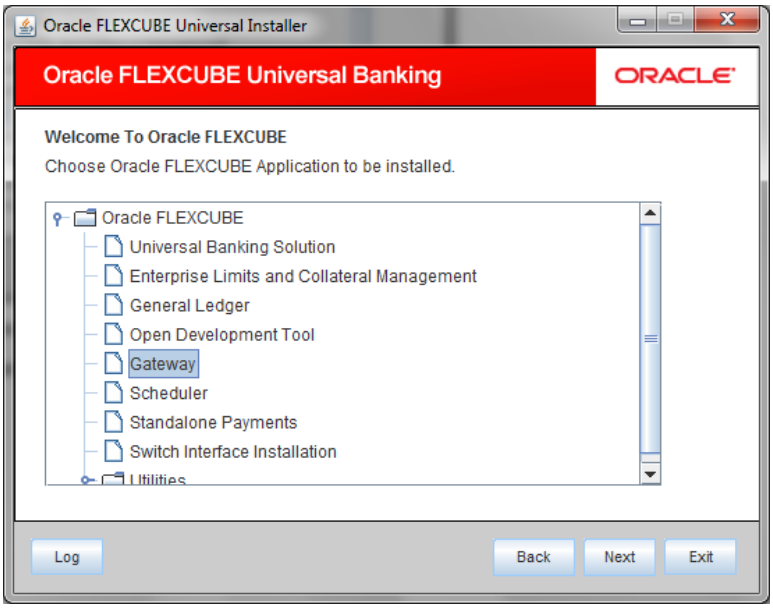
For details, refer to the section ‘Gateway Web Services Application’ in chapter ‘Setting up Property Files’ 04-PropertyFile_Setup.

You must create the environment variables for the corresponding application. For details, refer to the section ‘For Gateway Web Service Application Building’ in chapter ‘Setting up Oracle FLEXCUBE Installer’ (02-Installer_Installation).

1.5.2 Building EAR File

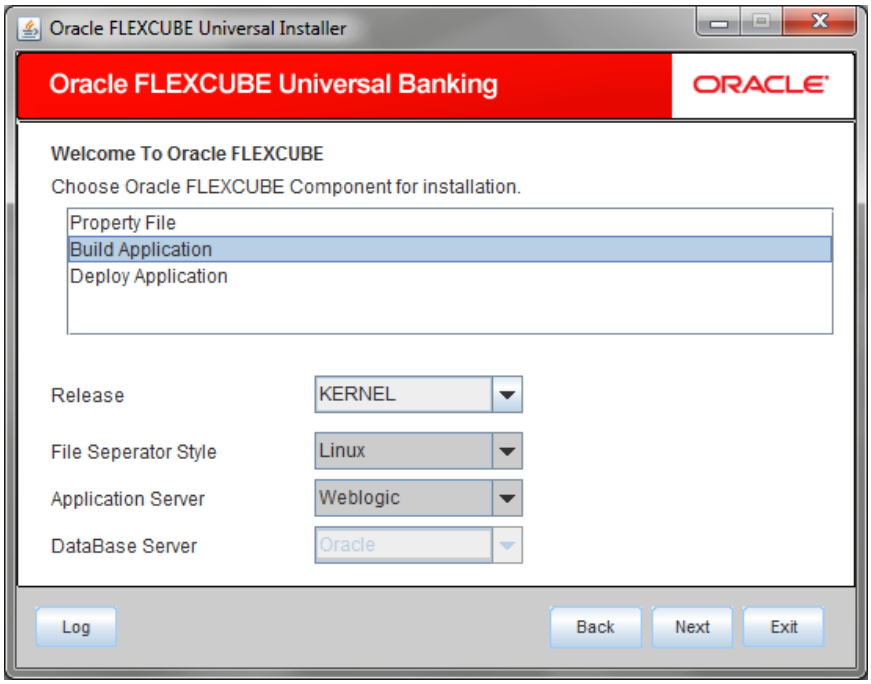
In order to build EAR file for Gateway Web Service Application, you need to follow the steps given below:

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



2. Select the Application ‘Gateway’. Click ‘Next’.

   The following screen is displayed:



3. Specify the following details:

Operating System

Specify the operating system in which you are creating the property file. Select the appropriate one from the drop-down list. You

Application Server

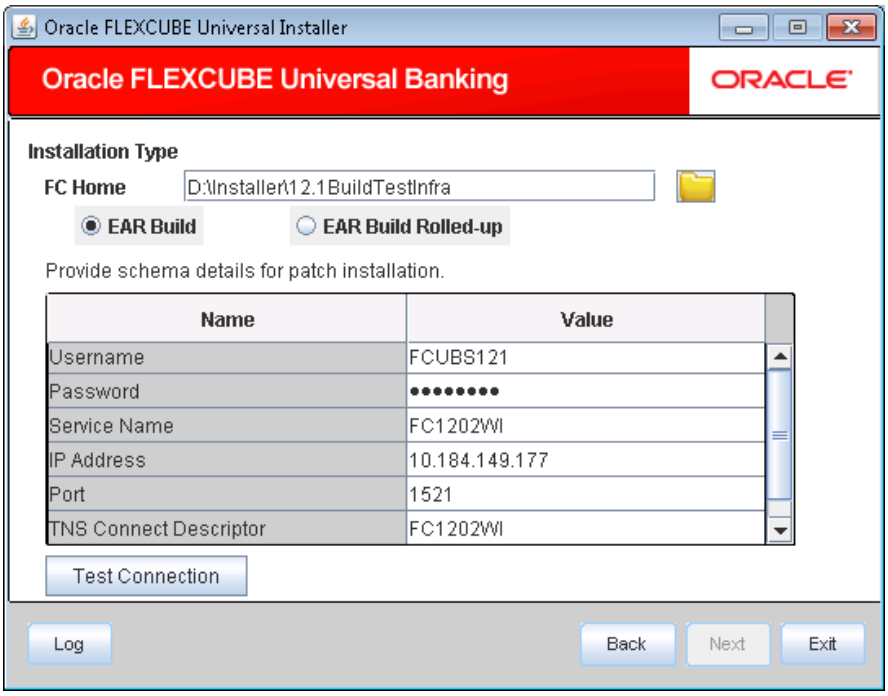
Specify the application server in which you are creating the property file. Select the appropriate one from the drop-down list.

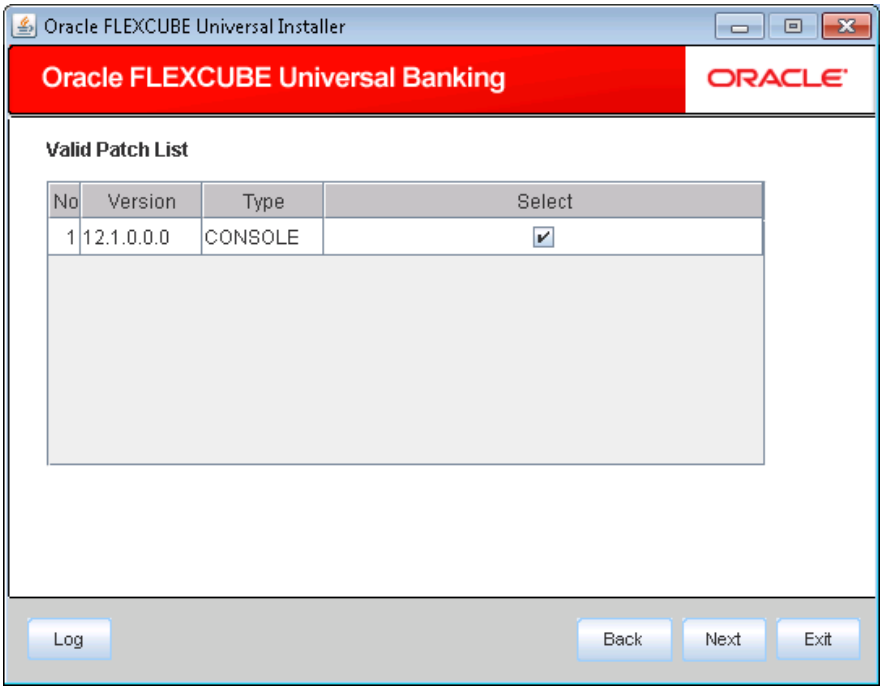
Release

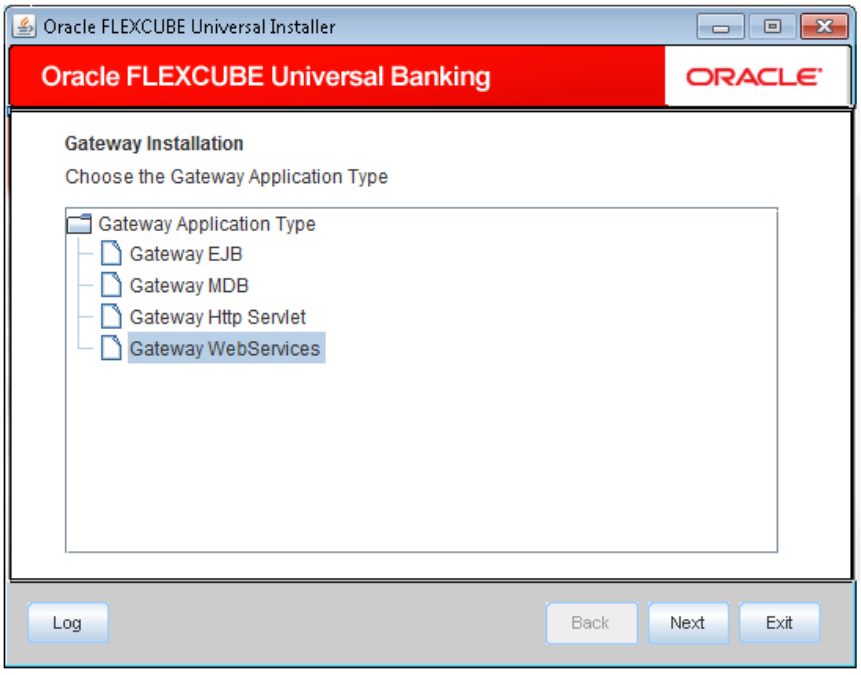
Specify the release in which you are creating the property file. Select the appropriate one from the drop-down list.The options are:

- KERNEL
- VN Cluster

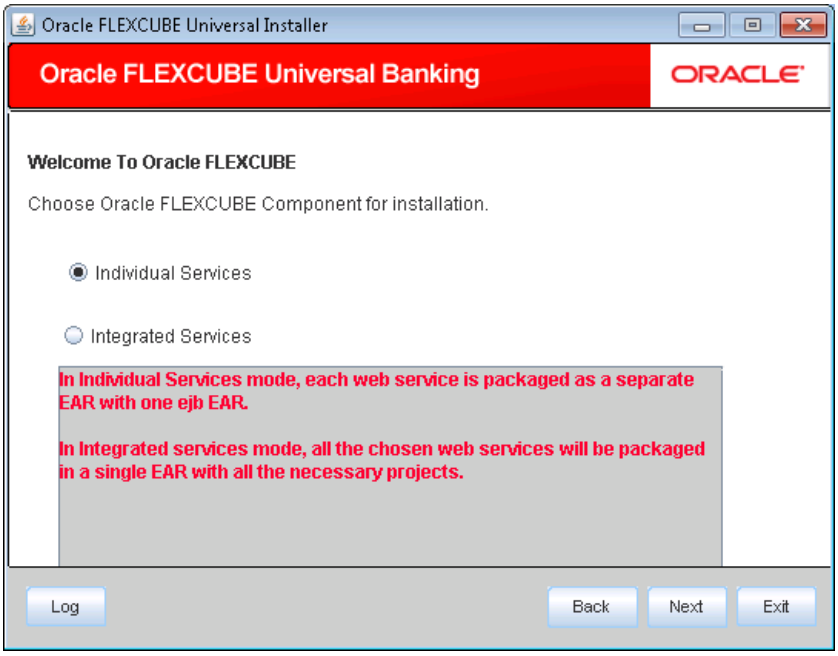
4. Select ‘Build Application’. Click ‘Next’. The following screen is displayed:







5. Select ‘Gateway WebServices’. Click ‘Next’.
6. The following screen is displayed:
   click ‘Next’ the following screen will be displayed.



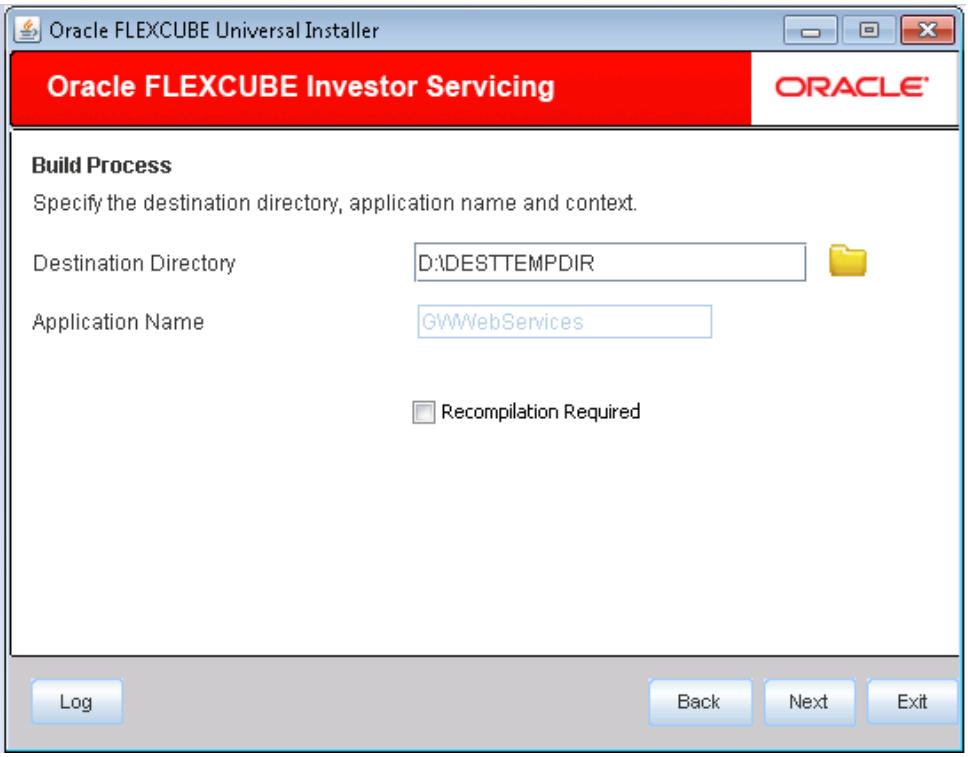
Choose from Individual mode or Integrated mode

Individual Mode

In individual mode, each services chosen will be built as a separate EAR. However, EJB ear has to be built and deployed separately.

Integrated Mode:

In Integrated mode, all the services chosen are built along with EJB components in single EAR.



Provide Destination Directory

Application Name:

If chosen Individual mode of web services in previous screen then this field is disabled and the name of the web service generated would be the name of the service

Else if selected Integrated , then this field is enabled where user can input required name

Recompilation Required

Check this box if WSDL, XSD files have been modifed

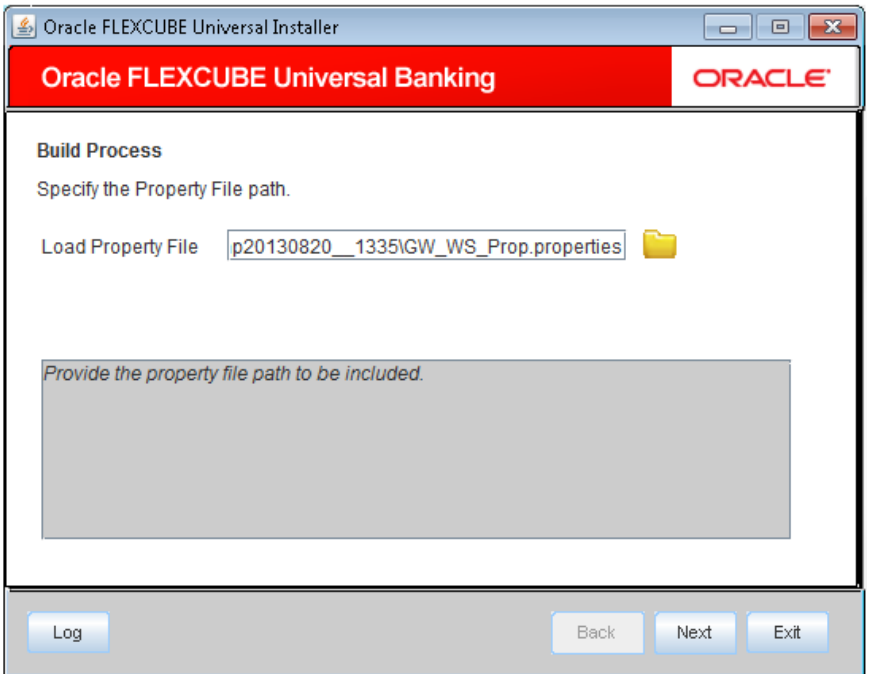
Note: In case of XSD or WSDL web services should be recompiled,

Copy the modified service sources into the service source path (<services_source_path>). Remove the unmodified services and proceed.,

Copy the modified service sources into the service source path (<services_source_path>). Remove the unmodified services and proceed.

In case of FCUBS the services sourcepath is ‘Source_Dir\MAIN\<Module>\Gateway\Services’.

7. Once you have specified the details, click ‘Next’ to continue.
8. The following screen is displayed.



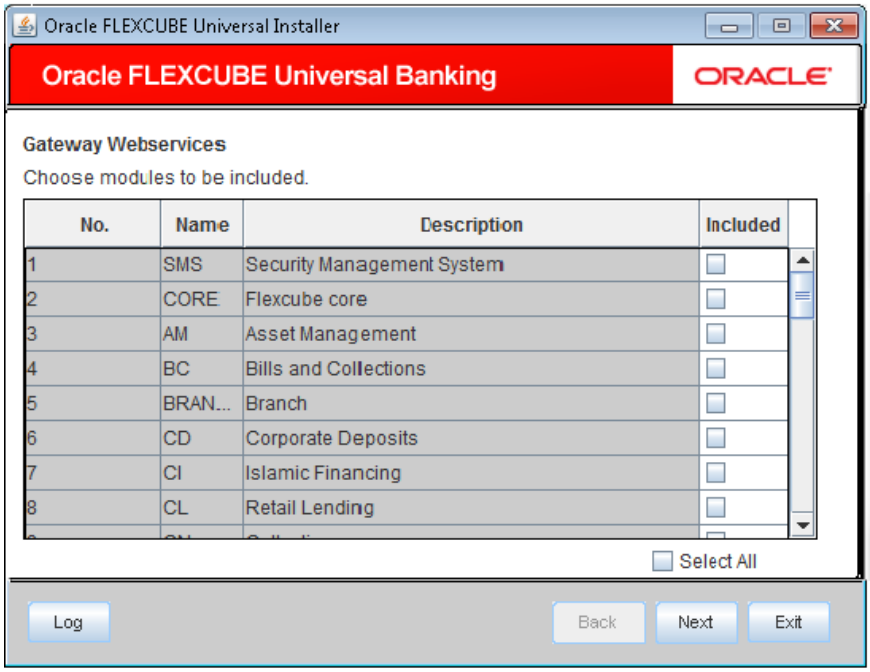
9. Specify the following details:

Centralized Property File

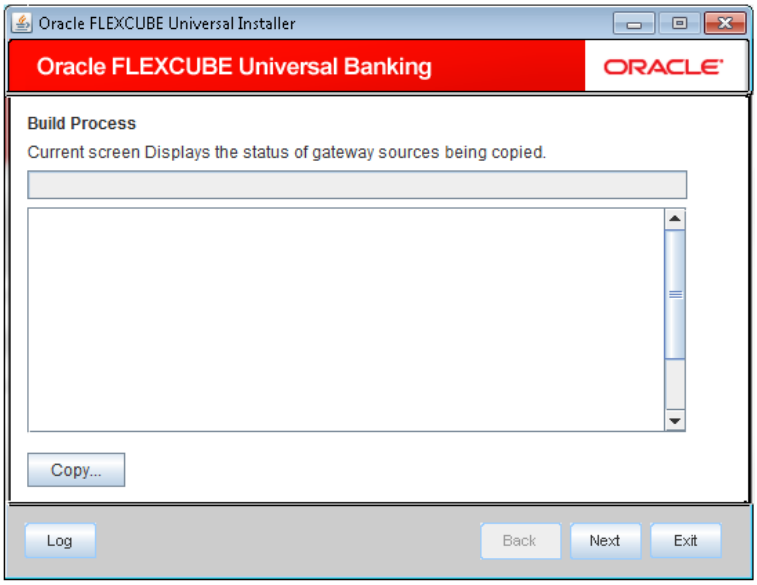
To modify an existing property file, you need to select the exact property file by clicking on the folder icon.

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

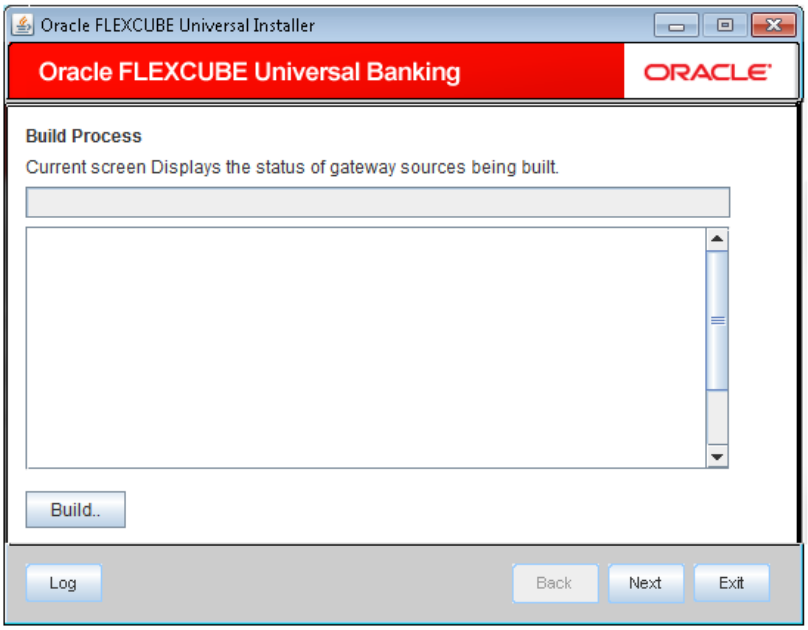
10. Click ‘Next’. The following screen is displayed.



11. Select the modules to be included for Web Services.
12. Click ‘Next’. The following screen is displayed.



13. Click ‘Copy’ button. The installer copies the files.
14. Click ‘Next. The following screen is displayed.



15. Click ‘Build’ button to start the build process. The installer builds the source files.

16. The compilation screen is not available in EXEC mode of installation.

This completes the EAR file generation process.

The EAR file will be saved to the destination directory.

2. Post Building Activity

2.1 Introduction

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

2.1.1 Gateway Configuration

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

Refer to the step 7 in the chapter 'Creating Property File for Gateway Applications' in the manual 'Setting up Property File' for details.

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

Path	Files
Logger Path	Logger path should contain the gateway property files generated by the Installer. For example, for Gateway EJB application, the installer generates the files 'gw_ejb_logger.properties' and 'GW_EJB_Prop.properties'. While creating the property file if you specify the 'Logger Path' as 'D:/Kernel11.1/GW_EJB/config/ gw_ejb_logger.properties', then you need to place both the files 'gw_ejb_logger.properties' and 'GW_EJB_Prop.properties' inside the folder 'D:/Kernel11.1/GW_EJB/config/'.
XSD Path	XSD Path should contain the common XSD files as well as the gateway module specific XSD files which are related to gateway operation. Copy the common XSD files from 'MAIN\Core\Gateway\COMMON' to the XSD Path. Copy the module specific XSD files from 'MAIN/<module>/ Gateway/XSD' to the XSD Path.
ServerState.xml should be copied in the XSD Directory from Gateway\Utilities\POSS\ServerState.xml	

2.1.2 Deployment Using Oracle WebLogic Application Server

For details on the manual deployment using Oracle WebLogic Application Server, refer to the chapter 'Gateway Application with WebLogic' (GATEWAY_Applications_WL).

2.1.3 Deployment Using IBM Websphere Application Server

For details on the manual deployment using IBM Websphere Application Server, refer to the chapter 'Gateway Application with Websphere' (GATEWAY_Applications_WAS.doc).

Gateway Application Setup
[December] [2016]
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