

Standalone Scheduler Deployment in Websphere  
Oracle FLEXCUBE Universal Banking  
Release 14.4.0.0.0  
[May] [2020]



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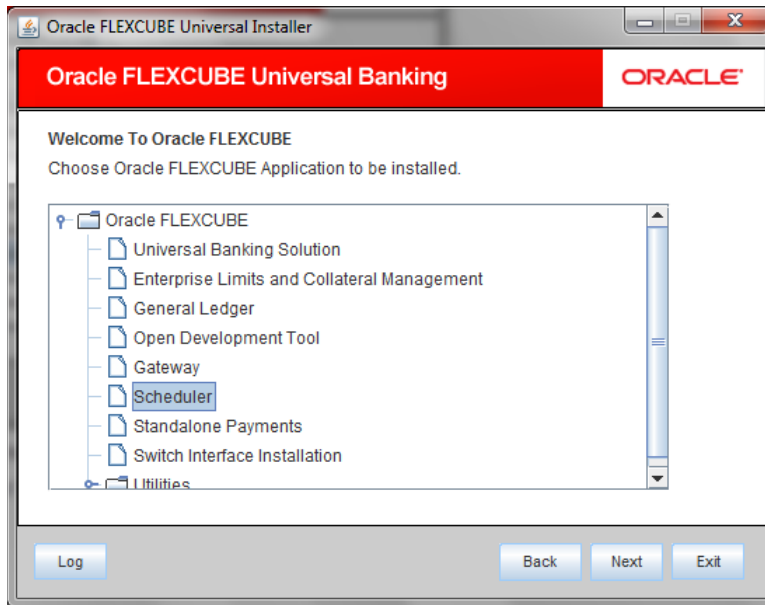
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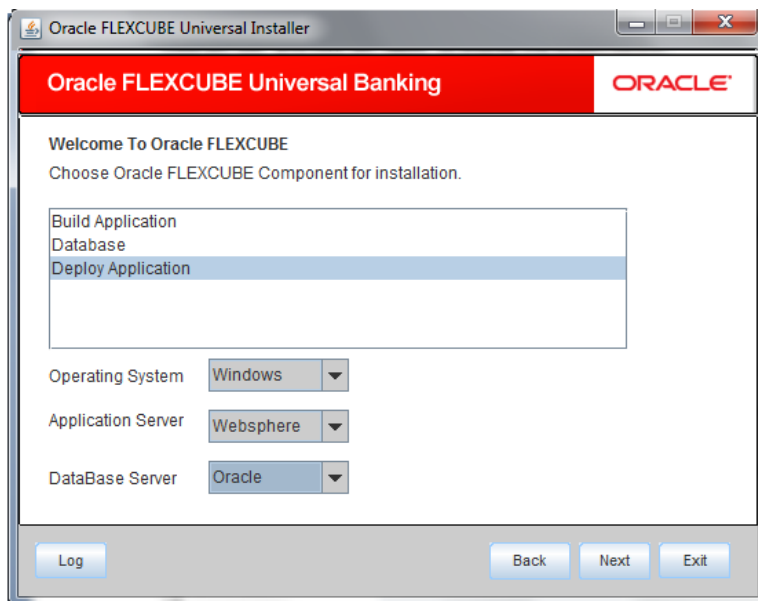
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# 1. Standalone Scheduler Full Deployment

1. Launch Oracle FLEXCUBE Universal Banking Solution Installer.
2. Click on 'Next' to display the screen below .



3. Select 'Scheduler'.
4. Click 'Next' to display the screen below.



5. Select 'Deploy Application'.

6. Specify the following details:

### Operating System

Select the server's operating system in which you are installing the FCUBS 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 FCUBS 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 Universal Banking' installer window. The title bar reads 'Oracle FLEXCUBE Universal Installer'. The main window has a red header with 'Oracle FLEXCUBE Universal Banking' and the 'ORACLE' logo. Below the header, the section is titled 'Application Deployment' with the instruction 'Provide server details for connecting to the server.' A table with two columns, 'Name' and 'Value', contains the following data:

| Name           | Value          |
|----------------|----------------|
| Admin IP       | Not Applicable |
| Admin Port     | Not Applicable |
| Admin Username | websphere      |
| Admin Password | *****          |

Below the table is a 'Test Connection' button. Underneath that, the 'Type of Deployment' is set to 'Full Deployment' with a dropdown arrow. At the bottom of the window are four buttons: 'Log', 'Back', 'Next', and '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.

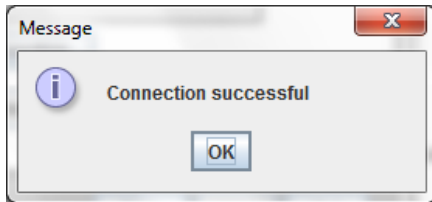
### Admin Password

Specify the appropriate admin password of the websphere application server.

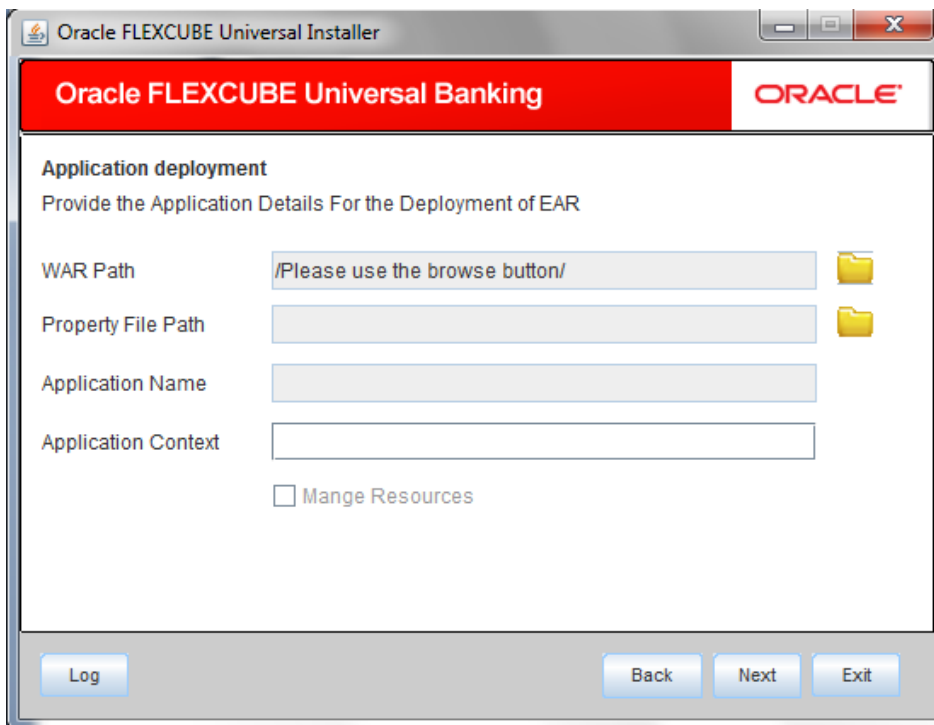
## Type of Deployment

Select 'Full Deployment'.

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



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



- Specify the following details:

### WAR Path

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



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

## Property File Path

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

## Application Name

Application name gets displayed on selection of EAR path.

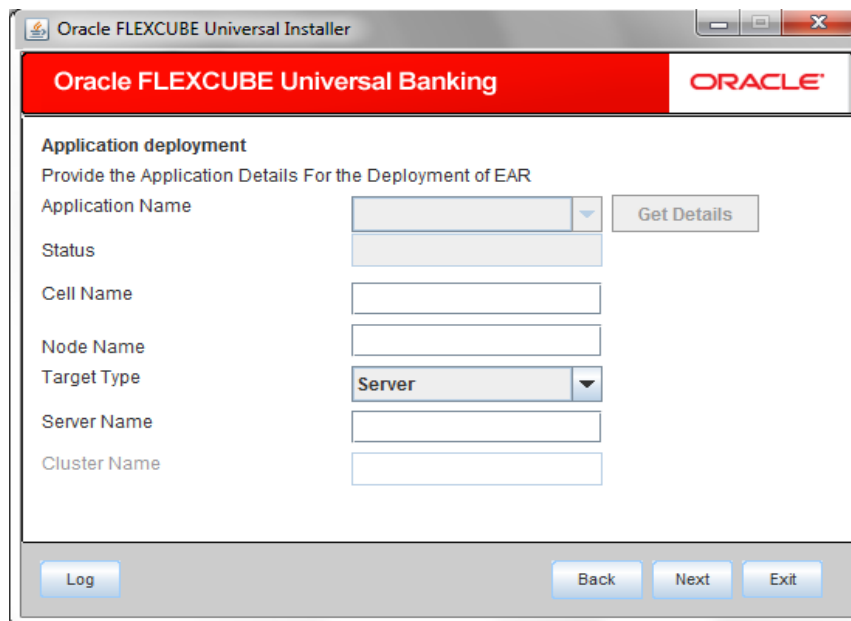
## Application Context.

Application context gets displayed on selection of EAR path.

## Manage Resources

Not Applicable for websphere application server.

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



The screenshot shows the Oracle FLEXCUBE Universal Installer window. The title bar reads "Oracle FLEXCUBE Universal Installer". The main window has a red header bar with "Oracle FLEXCUBE Universal Banking" on the left and the "ORACLE" logo on the right. Below the header, the section is titled "Application deployment" with the instruction "Provide the Application Details For the Deployment of EAR". The form contains the following fields and controls:

- Application Name:** A text input field with a dropdown arrow on the right. A "Get Details" button is positioned to the right of this field.
- 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.

At the bottom of the window, there are four buttons: "Log", "Back", "Next", and "Exit".

13. Specify the following details:

## Application Name

Not applicable for application full deployment.

## Status

Not applicable for application full deployment.

## Cell Name

Specify the appropriate cell name.

### Node Name

Specify the appropriate node name.

### Target Type


Select the appropriate target type.

### Server Name

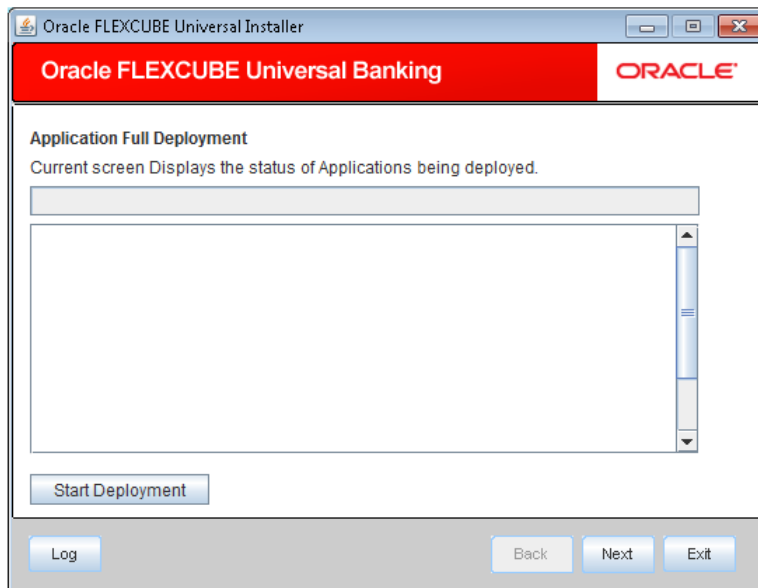
Specify the appropriate server name if the selected target type is 'Server'.

### Cluster Name

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

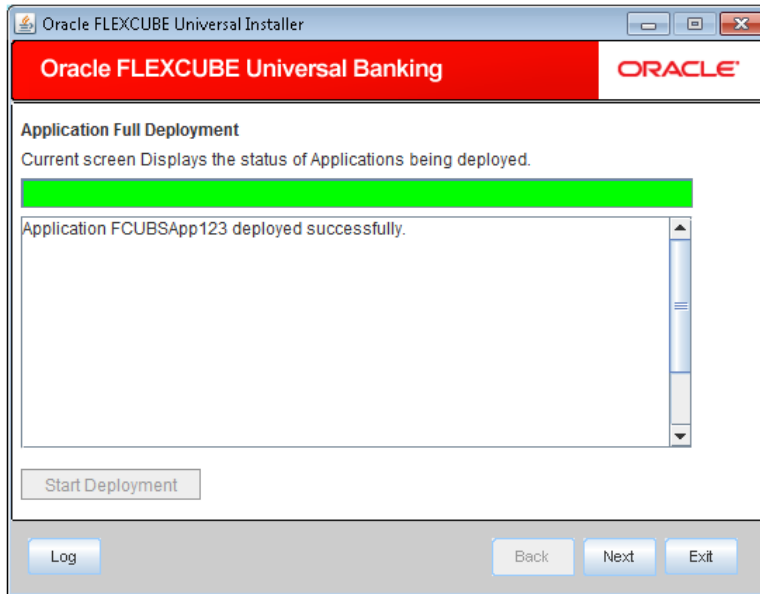
 The values fed in the above screen are not validated at the screen level as a result of a limitation and hence, Specify accurate information.

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



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

16. Click 'OK' for the pop up message and following screen is displayed:



Below additional configuration is required if the Scheduler EAR is deployed on a profile/server different from FCUBS EAR profile/server.

1. Create custom property in both FCUBS and Scheduler application servers.

In the administrative console, click Servers > Server Types > WebSphere application servers > server\_name > Java and Process Management > Process definition > Java virtual machine > Custom properties > New.

On the Custom Properties settings page, define the custom property:

For Name, specify **com.ibm.websphere.orb.uniqueServerName**.

For Value, specify **true**.

Click OK.

Click Save on the console task bar.

Restart both application servers.

**WebSphere, software** Welcome websphere Help | Logout [Close page](#)

Cell=ofss220137Node01Cell, Profile=AppSrv01

**Application servers**

[Application servers](#) > [server1](#) > [Process definition](#) > [Java Virtual Machine](#) > [Custom properties](#)

Use this page to specify an arbitrary name and value pair. The value that is specified for the name and value pair is a string that can set internal system configuration properties.

**Preferences**

New... Delete

| Select                   | Name                                   | Value | Description |
|--------------------------|--|-------|-------------|
| <input type="checkbox"/> | com.ibm.security.iqss.debug            | off   |             |
| <input type="checkbox"/> | com.ibm.security.krb5.Krb5Debug        | off   |             |
| <input type="checkbox"/> | com.ibm.websphere.orb.uniqueServerName | true  |             |

Total 3

**Help**

**Field help**  
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**  
[More information about this page](#)

**Command Assistance**  
[View administrative scripting command for last action](#)

2. Change the transport type under the CSiv2 Transport Layer to SSL-Supported in FCUBS application server.

Click Security > Global Security > RMI/IOP Security > CSiv2 inbound communications.

Change the transport type under the CSiv2 Transport Layer to SSL-Supported. Repeat this step to configure CSiv2 outbound communications.

**WebSphere, software** Welcome websphere Help | Logout [Close page](#)

Cell=ofss220137Node01Cell, Profile=AppSrv01

**Global security**

[Global security](#) > [CSiv2 inbound communications](#)

Use this panel to specify authentication settings for requests that are received and transport settings for connections that are accepted by this server using the Object Management Group (OMG) Common Secure Interoperability (CSI) authentication protocol.

**CSiv2 Attribute Layer**

☒ Propagate security attributes

☐ Use identity assertion

**Trusted identities**

**CSiv2 Transport Layer**

Client certificate authentication: Supported

**Transport**: **SSL-supported**

**SSL settings**

☒ Centrally managed

[Manage endpoint security configurations](#)

☐ Use specific SSL alias

NodeDefaultSSLSettings [SSL configurations](#)

**CSiv2 Message Layer**

Message layer authentication: Supported

Allow client to server authentication with:

☐ Kerberos

☒ LTPA

☒ Basic authentication

**Additional Properties**

Login configuration: RMI\_INBOUND

**Related Items**

[Trusted authentication realms - inbound](#)

[Stateful sessions](#)

Apply OK Reset Cancel

**Help**

**Field help**  
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**  
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[View administrative scripting command for last action](#)

3. Generate EJB stub for ELCMEJB.jar and deploy it as shared library in Scheduler application server.

Steps to generate EJB stub.

1. Navigate to bin folder of application server.

Ex: /scratch/was/was855/IBM/WebSphere/AppServer/bin

2. Run createEJBStubs.sh from bin folder.

sh createEJBStubs.sh <Source EAR Path> -newfile <Destination Path>

Ex: sh createEJBStubs.sh

/scratch/work\_area/DEV/UBSITR2/APPDEBUGS/FCUBSAppITR2.ear -newfile

/scratch/work\_area/DEV/UBSITR2/APPDEBUGS/FCUBSAppITR2\_STUB.ear

Above command generate the EJB stubs in destination path specified.

Extract the ELCMEJB.jar from destination and deploy it as shared library in Scheduler application server.

Steps to create and deploy shared library.

1. Click Environment > Shared libraries in the console navigation tree.
2. Select a shared library scope.
3. Click New.
4. Configure the shared library.

→Provide the name and description for shared library.

→Provide ELCMEJB.jar path in classpath.

Ex: /scratch/work\_area/DEV/UBSITR2/ELCMEJB.jar

5. Click on Apply and Save.

WebSphere software

Welcome Help Logout

Cell=ofss220137Node02Cell, Profile=AppSrv02

View: All tasks

- Welcome
- Guided Activities
- Servers
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    - WebSphere MQ servers
    - Web servers
- Applications
  - New Application
  - Application Types
    - WebSphere enterprise applications
    - Business-level applications
    - Assets
    - Global deployment settings
- Services
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  - Administrative Authorization Groups
  - SSL certificate and key management
  - Security auditing
  - Bus security
- Environment
  - Virtual hosts
  - Update global Web server plug-in configuration
  - WebSphere variables
  - Shared libraries
  - SIP application routers
  - Replication domains
  - Naming
  - OSGi bundle repositories
- System administration
- Users and Groups

Shared Libraries > New...

Use this page to define a container-wide shared library that can be used by deployed applications.

Configuration

General Properties

Scope  
cells:ofss220137Node02Cell:nodes:ofss220137Node02:servers:server1

Name  
ELCMEJB

Description  
ELCMEJB

Classpath  
/scratch/work\_area/DEV/UBSITR2/ELCMEJB.jar

Native Library Path

Class Loading  
☐ Use an isolated class loader for this shared library

Apply OK Reset Cancel

Field help  
For field help information select a field label or list marker when the help cursor is displayed.

Page help  
[More information about this page](#)

WebSphere software

Welcome Help Logout

Cell=ofss220137Node02Cell, Profile=AppSrv02

View: All tasks

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  - Shared libraries
  - SIP application routers
  - Replication domains
  - Naming
  - OSGi bundle repositories
- System administration
- Users and Groups

Shared Libraries

Use this page to define a container-wide shared library that can be used by deployed applications.

Scope: Cell=ofss220137Node02Cell, Node=ofss220137Node02, Server=server1

Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, [see the scope settings help](#).

Node=ofss220137Node02, Server=server1

Preferences

New... Delete

| Select                   | Name    | Description |
|--------------------------|---------|-------------|
| <input type="checkbox"/> | ELCMEJB | ELCMEJB     |

You can administer the following resources:

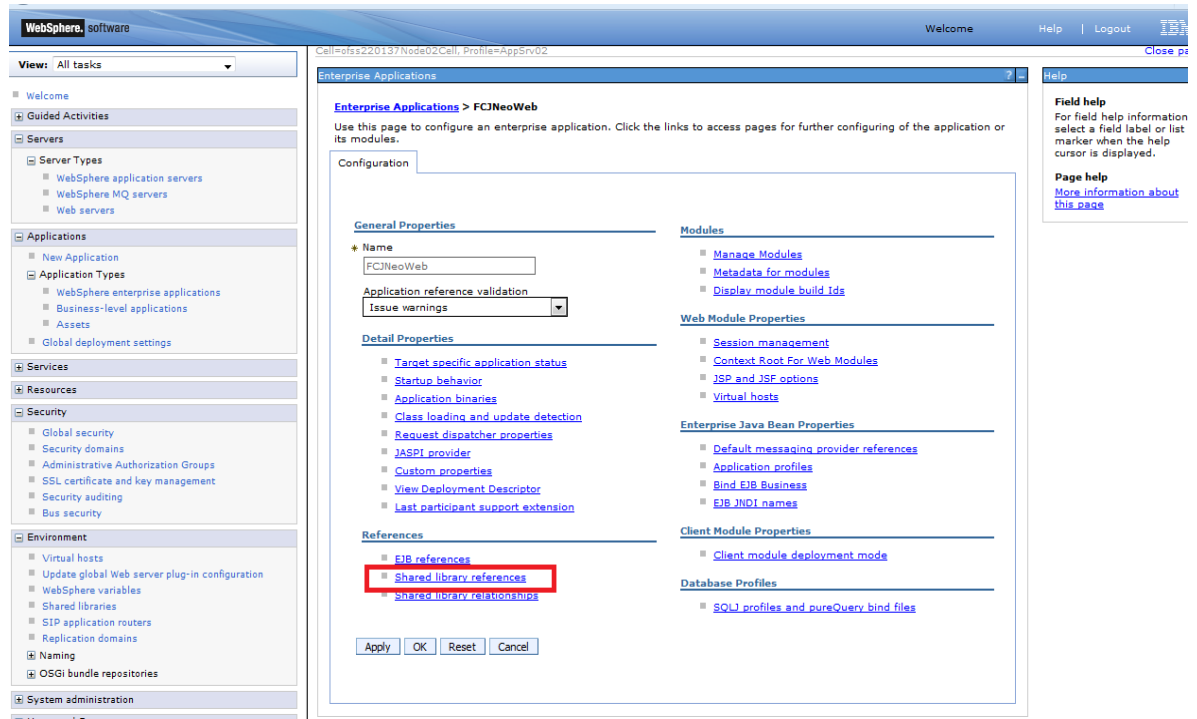
Total 1

Field help  
For field help information select a field label or list marker when the help cursor is displayed.

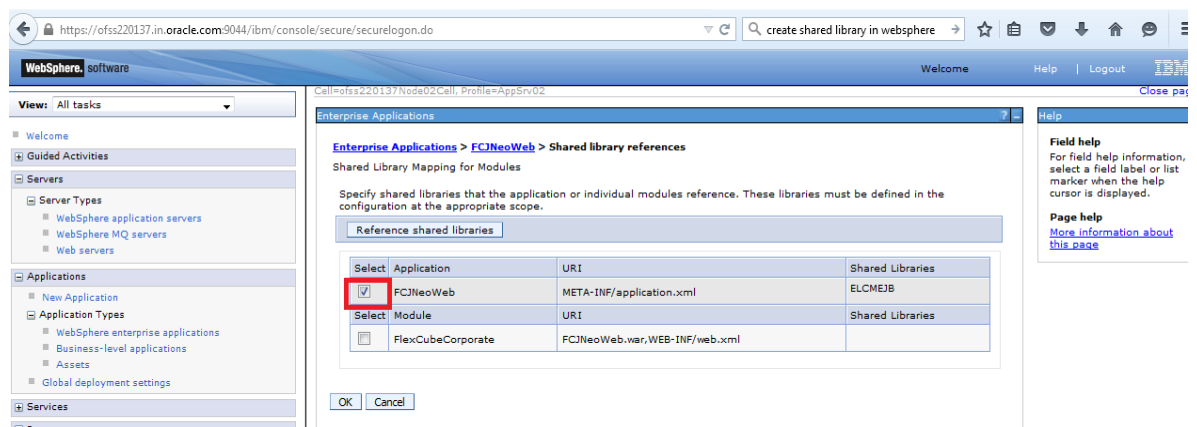
Page help  
[More information about this page](#)

Command Assistance  
[View administrative scripting command for this action](#)

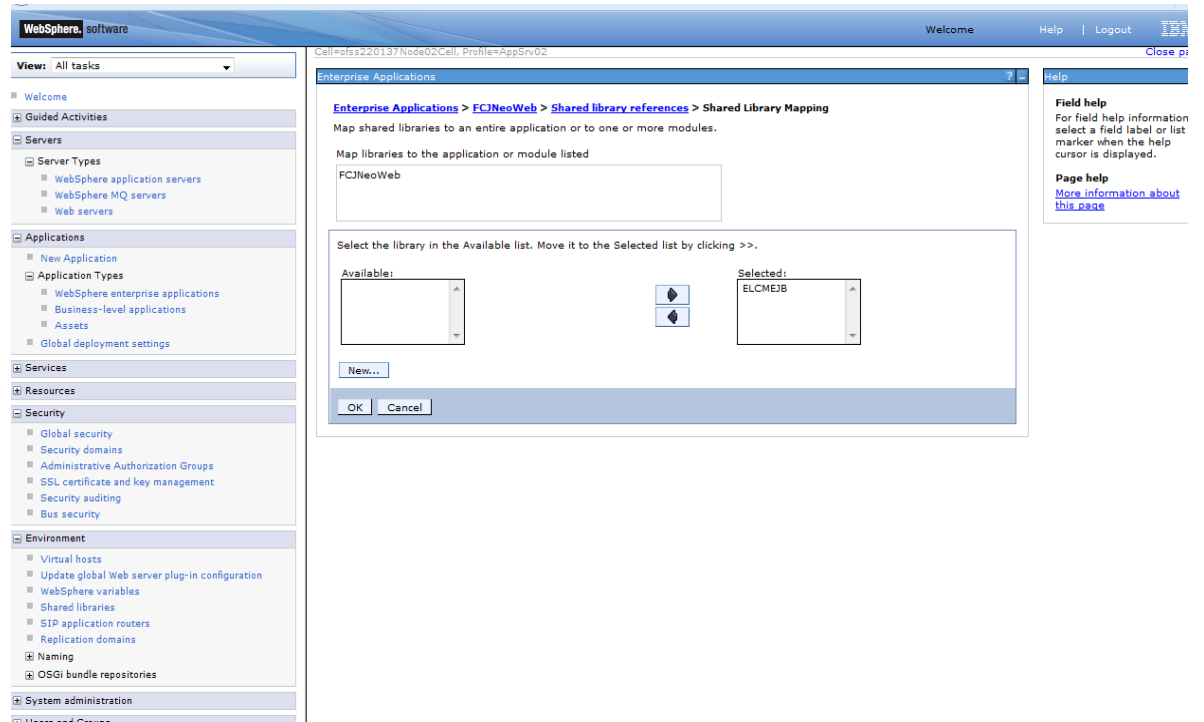
- Click Applications > Application Types > WebSphere enterprise applications > *application\_name* > Shared library references in the console navigation tree to access the Shared library references page.



- On the Shared library references page, select an application or module to which you want to associate a shared library.



- Click Reference shared libraries.
- On the Shared library mapping page, select ELCMEJB.jar in the Available list, click >> to add them to the Selected list, and click OK.



10. Save the changes to the configuration and restart the application server.



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