

Branch Deployment on TomCat
Oracle FLEXCUBE Universal Banking
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1. Deploying Decentralized Branch Application

1.1 Introduction

This chapter explains the steps to deploy Decentralized Branch Application.

1.2 Prerequisites

Prior to deploying decentralized branch application, make sure that the following tasks are completed.

- Build the Decentralized Branch using Oracle FLEXCUBE Installer.
- Create the Debug folder according to the properties file configuration (if debug is enabled)
- Copy the file 'ojdbc6.jar' into 'lib' folder of Tomcat.
 - **\$CATALINA_HOME/lib** (in case of UNIX)
 - **%CATALINA_HOME%\lib** (in case of windows)
- Copy the file 'ucp.jar' into 'lib' folder of Tomcat.
 - **\$CATALINA_HOME/lib** (in case of UNIX)
 - **%CATALINA_HOME%\lib** (in case of windows)
- tomcat-users.xml has to be edited to include the admin user and password.

Add these two lines in 'tomcat-users' tag.

```
<role rolename="manager-gui"/>
```

```
<user username="admin user" password="password" roles="manager-gui"/>
```

Location of tomcat-users.xml is

- **\$CATALINA_HOME/conf** (in case of UNIX)
- **%CATALINA_HOME%\conf** (in case of windows)

```
<tomcat-users xmlns="http://tomcat.apache.org/xml"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://tomcat.apache.org/xml tomcat-users.xsd"
  version="1.0">

  <role rolename="manager-gui"/>

  <user username="admin" password="admin" roles="manager-gui"/>

</tomcat-users>
```

- In web.xml set the value of the parameters max-file-size and max-request-size to 524288000.
Location of web.xml is
 - **\$CATALINA_HOME/webapps/manager/WEB-INF** (in case of UNIX)
 - **%CATALINA_HOME%\webapps\manager\WEB-INF** (in case of windows)

```
<multipart-config>
  <!-- 500MB max -->
  <max-file-size>524288000</max-file-size>
  <max-request-size>524288000</max-
request-size>
  <file-size-threshold>0</file-size-threshold>
</multipart-config>
```

Note the following:

- You need to restart Tomcat if the JAR file has been copied when Tomcat was running.
- 'ojdbc6.jar' and 'ucp.jar' can be found in the oracle DB installation folder.
 - 'ORACLE_HOME/jdbc/lib' (for ojdbc6.jar)
 - 'ORACLE_HOME/ucp/lib' (for ucp.jar)

1.2.1 **Deployment from Tomcat Manager**

To deploy the Decentralized Branch Application from Tomcat Manager, follow the steps given below:

1. Open the Tomcat Manager from the URL:

http://<ServerIP>:port/manager/htm

In this,

ServerIP: System IP on which Tomcat is running

Port: http port of the Tomcat Server

E.g.: http://127.0.0.1/:8080/manager/html

2. Request to display the Tomcat Manager web page.
3. Specify the user name and password. Click 'OK'.
4. If the authentication is successful, the Tomcat Manager web page is displayed.

Scroll down and find the option 'War file to deploy'.

The screenshot shows the Tomcat Manager web interface. At the top, there is a table listing the deployed applications:

Context Path	Application Name	State	Version	Actions
/docs	Tomcat Documentation	true	0	Start Stop Reload Undeploy
/examples	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy
/host-manager	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy
/manager	Tomcat Manager Application	true	1	Start Stop Reload Undeploy

Below the table, there are sections for 'Deploy', 'WAR file to deploy', 'Diagnostics', and 'Server Information'.

Deploy
Deploy directory or WAR file located on server

Context Path (required):
 XML Configuration file URL:
 WAR or Directory URL:

WAR file to deploy

Select WAR file to upload No file chosen

Diagnostics
 Check to see if a web application has caused a memory leak on stop, reload or undeploy
 This diagnostic check will trigger a full garbage collection. Use it with extreme caution on production systems.

SSL connector configuration diagnostics
 List the configured ciphers for each connector

Server Information

Tomcat Version	JVM Version	JVM Vendor	OS Name	OS Version	OS Architecture	Hostname	IP Address
Apache Tomcat/8.0.32	1.8.0_25-b18	Oracle Corporation	Windows 7	6.1	amd64	HRSE-IN	10.184.86.37

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5. Click 'Choose File' button and select the WAR file.

6. Click 'Deploy' button.

After uploading the WAR file, Tomcat will automatically start the Application. Once the Application is started successfully, you can find the Application Context in the Tomcat Manager.

We can find the links to Stop, Start, Redeploy and Undeploy the Application.



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