

Branch Deployment on TomCat
Oracle FLEXCUBE Universal Banking
Release 12.4.0.0.0
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Table of Contents

- 1. DEPLOYING DECENTRALIZED BRANCH APPLICATION..... 1-1
 - 1.1 INTRODUCTION 1-1
 - 1.2 PREREQUISITES 1-1
 - 1.2.1 *Deployment from Tomcat Manager* 1-2

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

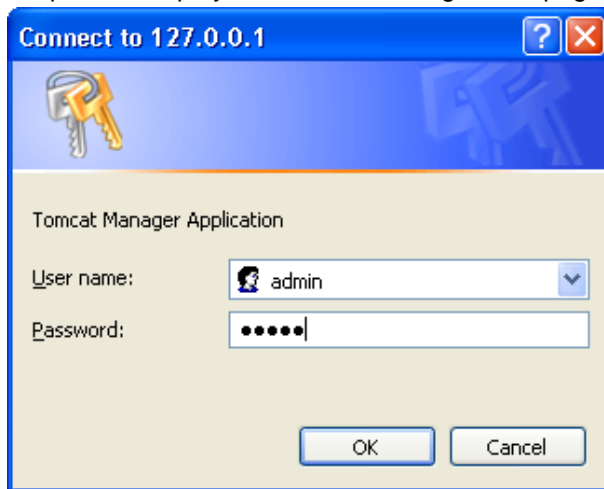
In this,

ServerIP: System IP on which Tomcat is running

Port: http port of the Tomcat Server

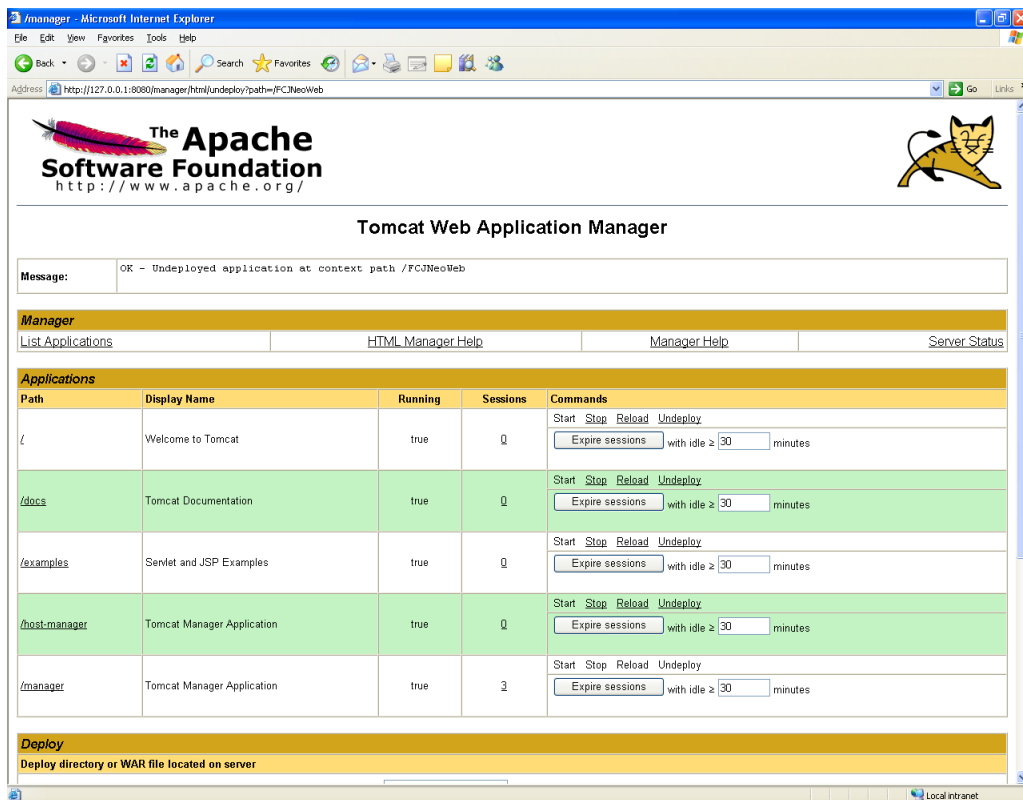
E.g.: http://127.0.0.1/:8080/manager/html

2. Request to display the Tomcat Manager web page.



A login dialog box titled "Connect to 127.0.0.1". It features a blue header with a question mark and a close button. Below the header is a yellow background area with the text "Tomcat Manager Application". There are two input fields: "User name:" with a dropdown menu showing "admin" and a small user icon, and "Password:" with a text box containing six dots. At the bottom are "OK" and "Cancel" buttons.

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



A screenshot of the Tomcat Manager web page in a Microsoft Internet Explorer browser window. The browser's address bar shows "http://127.0.0.1:8080/manager/html/undeploy?path=/FCJNeoWeb". The page header includes the Apache Software Foundation logo and the title "Tomcat Web Application Manager". A message box states: "Message: OK - Undeployed application at context path /FCJNeoWeb". Below this is a navigation bar with links: "List Applications", "HTML Manager Help", "Manager Help", and "Server Status". The main content area is titled "Applications" and contains a table with columns: Path, Display Name, Running, Sessions, and Commands. The table lists several applications, including "Welcome to Tomcat", "Tomcat Documentation", "Servlet and JSP Examples", "Tomcat Manager Application", and another "Tomcat Manager Application". Each row has a "Commands" column with links for "Start", "Stop", "Reload", "Undeploy", and "Expire sessions". Below the table is a "Deploy" section with the text "Deploy directory or WAR file located on server".

Path	Display Name	Running	Sessions	Commands
/	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle 30 minutes
/docs	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle 30 minutes
/examples	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle 30 minutes
/host-manager	Tomcat Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle 30 minutes
/manager	Tomcat Manager Application	true	3	Start Stop Reload Undeploy Expire sessions with idle 30 minutes

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

The screenshot shows the Tomcat Manager web interface in a browser window. The address bar shows `127.0.0.1:8080/manager/html`. The interface is divided into several sections:

- Applications Table:** A table listing four applications: `/docs`, `/examples`, `/host-manager`, and `/manager`. Each row has columns for the application name, context path, description, status, and a numeric value. The `/manager` application has a status of `true` and a value of `1`. To the right of each row are buttons for `Start`, `Stop`, `Reload`, and `Undeploy`, along with an `Expire sessions` button and a text field for idle time (set to 30 minutes).
- Deploy Section:** A yellow header section containing:
 - Deploy directory or WAR file located on server:** Fields for `Context Path (required)`, `XML Configuration file URL`, and `WAR or Directory URL`, followed by a `Deploy` button.
 - WAR file to deploy:** A section with a `Select WAR file to upload` label, a `Choose File` button (which is disabled), and a `No file chosen` message. Below this is another `Deploy` button.
- Diagnostics Section:** A yellow header section containing:
 - Find leaks:** A button and a note: "This diagnostic check will trigger a full garbage collection. Use it with extreme caution on production systems."
 - SSL connector configuration diagnostics:** A button labeled `Connector ciphers` and a note: "List the configured ciphers for each connector".
- Server Information Table:** A table with 8 columns: `Tomcat Version`, `JVM Version`, `JVM Vendor`, `OS Name`, `OS Version`, `OS Architecture`, `Hostname`, and `IP Address`. The data row shows: `Apache Tomcat/8.0.32`, `1.8.0_25-b18`, `Oracle Corporation`, `Windows 7`, `6.1`, `amd64`, `HRSB-IN`, and `10.184.86.37`.

At the bottom of the page, there is a copyright notice: `Copyright © 1999-2016, Apache Software Foundation`.

6. Click 'Choose File' button and select the WAR file.
7. 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.

The Apache Software Foundation
http://www.apache.org/

Tomcat Web Application Manager

Message: OK

Manager

[List Applications](#) [HTML Manager Help](#) [Manager Help](#) [Server Status](#)

Applications

Path	Display Name	Running	Sessions	Commands
/	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/FC-JNeoWeb		true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	Tomcat Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

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



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