BFI XBRL

Installation Manual

Version 1.0

Contents

1. System Requirement

The XBRL system can be implemented in two ways,

1. Having two servers – one is for Database and another one is for application installation.
2. Having a single server – Database and Application both will be incorporated in same machine.

In either case, the server machines should meet the below configurations.

a) Operating System : Windows Server 2008 64bit or Higher / Unix
b) HDD : 1TB or Higher
c) RAM : 8GB or Higher
d) Java : JDK 1.7
e) App Server : Tomcat 8.5
f) Database : Oracle 12c SE2

2. Installation Steps

- ✓ Copy the content from the Installation CD into the Application server.
- ✓ Open the XBRLInstaller folder.
- ✓ The folder will have the following contents:
  - DB_OBJECTS.zip
  - Tools.zip
  - XBRL.war
  - XBRL_SCHEDULER.war
- ✓ Extract the Tools.zip file. It will contain the following files –
  - ✓ jdk-7u80-windows-x64.exe
  - ✓ win32_11gR2_client
  - ✓ apache-tomcat-8.5.39-windows-x64
  - ✓ npp.7.Installer.x64.exe
  - ✓ ComparePlugin.v1.5.6.2.bin.zip
  - ✓ Ojdbc7-12.1.0.jar

2.1. Installing and Configuring JDK 1.7

- ✓ Run the jdk-7u80-windows-x64.exe file with Administrator privilege.
- ✓ This will install the Java Development Kit 1.7 update 80.
- ✓ After successful installation of the same,
  - go to **control panel> System > Advanced System Settings.**
  - In the **Advanced** tab **Environment Variables** at the bottom.
  - Create a new System variable **JAVA_HOME.** Assign the value of the installation path of the JDK 1.7 as below.
    C:\Program Files\Java\jdk1.7.0_80

2.2. Installing and Configuring Tomcat

- ✓ Copy the **apache-tomcat-8.5.39-windows-x64**folder into the **C:\Program Files** folder.
- ✓ Navigate to the path **C:\Program Files\apache-tomcat-8.5.39\conf\.**
- ✓ Open the file**tomcat-users.xml** file and add the following inside the **<tomcat-users></tomcat-users>** tag.

```
<role rolename="manager-gui"/>
<role rolename="manager-script"/>
<role rolename="manager-jmx"/>
<role rolename="manager-status"/>
<role rolename="admin-gui"/>
<role rolename="admin-script"/>
<user username="xbrl" password="xbrl" roles="manager-gui,manager-
script,manager-jmx,manager-status,admin-gui,admin-script"/>
```

- ✓ Navigate to the Path **C:\Program Files\apache-tomcat-8.5.39\webapps\manager\WEB-INF.**Open the **web.xml** file.
  Change the value of the tags **<max-file-size>**and **<max-request-size>** to **209715200.**

- ✓ Navigate to the Path **C:\Program Files\apache-tomcat-8.5.39\conf\Catalina\localhost\.** Create a file **manager.xml** with below content.

```
    <Context privileged="true" antiResourceLocking="false"
docBase="${catalina.home}/webapps/manager">
<Valve className="org.apache.catalina.valves.RemoteAddrValve"
allow="^.*$" />
</Context>
```

- ✓ Navigate to the path C**:\Program Files\apache-tomcat-8.5.41\conf.**
- ✓ Open the file server.xml.
- ✓ Add the below tags inside the `<GlobalNamingResources>` tag after providing the appropriate connection details for XBRL, XBRL_DW, XBRL_ETL and Finacle.
- ✓ Don't change the name and global values in the Resource tag.

```
<Resource name="JNDI_XBRL"
            global="JNDI_XBRL"

factory="org.apache.tomcat.jdbc.pool.DataSourceFactory"
            auth="Container"
            type="javax.sql.DataSource"
            username="xbrl"
            password="xbrl"
            driverClassName="oracle.jdbc.driver.OracleDriver"
```

```xml
                        description="XBRL Oracle Database"
                        url="jdbc:oracle:thin:@192.168.68.107:1521/dev"
                        maxTotal="10"
                        maxIdle="10"
                        maxWaitMillis="10000"
                        removeAbandonedTimeout="300"
                        defaultAutoCommit="true" />

        <Resource name="JNDI_XBRL_ETL"
                        global="JNDI_XBRL_ETL"

factory="org.apache.tomcat.jdbc.pool.DataSourceFactory"
                        auth="Container"
                        type="javax.sql.DataSource"
                        username="xbrl_etl"
                        password="xbrl"
                        driverClassName="oracle.jdbc.driver.OracleDriver"
                        description="XBRL Oracle Database"
                        url="jdbc:oracle:thin:@192.168.68.107:1521/dev"
                        maxTotal="10"
                        maxIdle="10"
                        maxWaitMillis="10000"
                        removeAbandonedTimeout="300"
                        defaultAutoCommit="true" />

        <Resource name="JNDI_XBRL_DW"
                        global="JNDI_XBRL_DW"

factory="org.apache.tomcat.jdbc.pool.DataSourceFactory"
                        auth="Container"
                        type="javax.sql.DataSource"
                        username="xbrl_dw"
                        password="xbrl"
                        driverClassName="oracle.jdbc.driver.OracleDriver"
                        description="XBRL Oracle Database"
                        url="jdbc:oracle:thin:@192.168.68.107:1521/dev"
                        maxTotal="10"
                        maxIdle="10"
                        maxWaitMillis="10000"
                        removeAbandonedTimeout="300"
                        defaultAutoCommit="true" />

        <Resource name="JNDI_FIN"
                        global="JNDI_FIN"

factory="org.apache.tomcat.jdbc.pool.DataSourceFactory"
                        auth="Container"
                        type="javax.sql.DataSource"
                        username="tbaadm"
```

```
password="tbaadm"
driverClassName="oracle.jdbc.driver.OracleDriver"
description="XBRL Oracle Database"
url="jdbc:oracle:thin:@192.168.68.107:1521/uat"
maxTotal="10"
maxIdle="10"
maxWaitMillis="10000"
removeAbandonedTimeout="300"
defaultAutoCommit="true" />
```

- ✓ Copy the file **tools\ojdbc7-12.1.0.jar** into the **path C:\Program Files\apache-tomcat-8.5.41\lib.**
- ✓ Open cmd.
- ✓ Navigate to the path C:\Program Files\apache-tomcat-8.5.39\bin in cmd.
- ✓ Execute the service.bat with Install option as below and press enter.
  > **> service.bat install**
- ✓ After successful installation, go to the Control Panel > Administrative Tools > Services.
- ✓ Select Tomcat8 from the services and click start in the left pane.

2.3 Installing Oracle client

- ✓ Open the folder **XBRLInstaller> Tools > win32_11gR2_client > client**
- ✓ Run the file **setup.exe** with administrator privileges.
- ✓ This will install oracle client in the Application server.

3. Product Installation

3.1 Configuring and Deploying Database Objects

- ✓ Open the folder **XBRLInstaller\DB_OBJECTS.**
- ✓ Double click the **InstallXBRL.bat** file.
- ✓ It will prompt for **XBRL_ETL** schema details.
- ✓ Provide the **XBRL_ETL** connection details in the format below, ***user/password@host:port/service*** and press enter.
- ✓ This will deploy all database objects in the XBRL_ETL schema.
- ✓ Once it's completed, it will prompt for **XBRL_DW** connection details. Provide the same for deploying XBRL_DW objects.
- ✓ After successful completion of the same, provide **XBRL** connection details in the prompt.
- ✓ Close the CMD after successful completion of the same.

3.2 Deploying XBRL Application

- ✓ Open the Tomcat admin console in **localhost:8080.**
- ✓ Open Manager App.
- ✓ Provide user: xbrl and password : xbrl.
- ✓ In the Deploy section, go to WAR file to deploy.

- ✓ Click browse and point to the file **XBRLInstaller\XBRL.war.**
- ✓ Click Deploy.

3.3 Deploying XBRL_SCHEDULER Application

- ✓ Open the Tomcat admin console in **localhost:8080.**
- ✓ Open Manager App.
- ✓ Provide user: xbrl and password : xbrl.
- ✓ In the Deploy section, go to WAR file to deploy.
- ✓ Click browse and point to the file **XBRLInstaller\XBRL_SCHEDULER.war.**
- ✓ Click Deploy.

3.4 Configuring and Starting the Applications

- ✓ Navigate to the deployment directory C:\Program Files\apache-tomcat-8.5.41\webapps\XBRL\WEB-INF\classes. Open the file ApplicationResources.properties file and change the value of the property batchjob.url with the IP address of the Application server.