Installing BiblioteQ Online for Windows Machines

1. Download and Install RedHat JBoss 7 following their instructions.
   1. <http://www.jboss.org/as7>
2. Download and Install PostgreSQL 9 along with the GUI Administration Tools.
   1. <http://www.postgresql.org/download/windows/>
3. Download and Install BiblioteQ 6.55 or later. Take note of its installation directory.
   1. Go to the installation directory of BiblioteQ. Open the file “biblioteq.conf”.
   2. Find the lines of text that look like this:

[Branches]

local\_db

127.0.0.1

sqlite

-1

false

**xbook\_db**

localhost

postgresql

5432

False

* 1. Change the line highlighted in red to a database name of your choice. I suggest **“BiblioteQDB”.**

1. After Installation is complete, open the pgAdminIII application and connect it to your PostgreSQL Server.
   1. Create a new database by right-clicking on “Databases” and choosing “New Database…”. Use the same name you used in the “biblioteq.conf” file. Once you have entered the name, click “OK”.
   2. Select the new node that has your database’s name by left-clicking it once.
   3. Click the “SQL” icon from the toolbar at the top of the screen. It looks like this:  
      
   4. In the SQL Editor, paste in the contents of the **postgresql\_create\_schema.sql** file, that came with your BiblioteQ Download and should be in its installation directory, and click the execute button. It looks like this:  
      
   5. After successful execution, select all the SQL code and erase it.
   6. Inside this ZIP file, find the file named “Create\_Scripts.sql”. Copy its contents into the SQL Editor.
   7. Click the execute button again.
2. Add the following code:

<datasource jndi-name="java:/PostgreSQL" pool-name="PostgreSQLDS">

<connection-url>jdbc:postgresql://127.0.0.1/BiblioteQDB</connection-url>

<driver>postgresql-jdbc4</driver>

<transaction-isolation>TRANSACTION\_READ\_COMMITTED</transaction-isolation>

<pool>

<min-pool-size>10</min-pool-size>

<max-pool-size>100</max-pool-size>

<prefill>true</prefill>

</pool>

<security>

<user-name>xbook\_admin</user-name>

<password>xbook\_admin</password>

</security>

<statement>

<prepared-statement-cache-size>32</prepared-statement-cache-size>

<share-prepared-statements>true</share-prepared-statements>

</statement>

</datasource>

Directly following the <datasources> tag in the file:  
  
***[Installation Directory]*\standalone\configuration\standalone.xml**

On the second line, be sure to change “BiblioteQDB” to whatever you named your new database in pgAdminIII. If you named it “BiblioteQDB”, don’t change it.

1. It should look like this:

<datasources>

**<datasource jndi-name="java:/PostgreSQL" pool-name="PostgreSQLDS">**

**<connection-url>jdbc:postgresql://127.0.0.1/BiblioteQDB</connection-url>**

**<driver>postgresql-jdbc4</driver>**

**<transaction-isolation>TRANSACTION\_READ\_COMMITTED</transaction-isolation>**

**<pool>**

**<min-pool-size>10</min-pool-size>**

**<max-pool-size>100</max-pool-size>**

**<prefill>true</prefill>**

**</pool>**

**<security>**

**<user-name>xbook\_admin</user-name>**

**<password>xbook\_admin</password>**

**</security>**

**<statement>**

**<prepared-statement-cache-size>32</prepared-statement-cache-size>**

**<share-prepared-statements>true</share-prepared-statements>**

**</statement>**

**</datasource>**

1. Add the following code:

<driver name="postgresql-jdbc4" module="org.postgresql">

<xa-datasource-class>org.postgresql.xa.PGXADataSource</xa-datasource-class>

</driver>

Directly following the <drivers> tag in the file:

***[Installation Directory]*\standalone\configuration\standalone.xml**

1. It should look like this:

<drivers>

<driver name="h2" module="com.h2database.h2">

<xa-datasource-class>org.h2.jdbcx.JdbcDataSource</xa-datasource-class>

</driver>

**<driver name="postgresql-jdbc4" module="org.postgresql">**

**<xa-datasource-class>org.postgresql.xa.PGXADataSource</xa-datasource-class>**

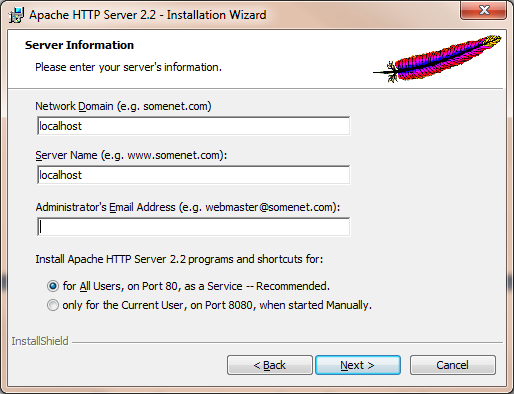
**</driver>**

</drivers>

1. Copy the “postgresql” folder provided in this ZIP file into the following directory:  
     
   ***[Installation Directory]*\modules\org**
2. Copy the “BiblioteQEAR.ear” file into the following directory:  
     
   ***[Installation Directory]*\standalone\deployments**
3. To Start the web server, execute “standalone.bat” from the following directory:  
     
   ***[Installation Directory]*\bin**
4. You should be able to view the site by navigating your browser to:  
     
   [**http://localhost:8080/BiblioteQOnline**](http://localhost:8080/BiblioteQOnline)
5. To log into BiblioteQOnline as an administrator, you will need to:
   1. Create a new user in BiblioteQ with your personal information. DO NOT CHANGE THE MEMBER ID.
   2. Create a new Administrator in BiblioteQ with the user you wish to use for the Administrator account in BiblioteQOnline. If you log in to the desktop application as “joebob”, you will also log into BiblioteQOnline as “joebob”.
   3. Navigate to the BiblioteQOnline Installation.
   4. Click the Register link.
   5. Enter all of the personal information requested in Step (a).
   6. Click “Proceed…”
   7. Enter the **same username** in Step (b) that you used for the Administrator in BiblioteQ (desktop). You may use any password you want, it does not have to match the one used in the desktop interface of BiblioteQ.
6. **NOTE**: Before the Search Engine on BiblioteQOnline will return any results, you must index the database by logging in, going into the “Administration” section, select “Settings”, select “Search”, and click “Index Database”. You do not have to wait for it to finish. You may do other tasks while the process runs in the background, or even close your browser.

For Serving on Port 80

If you want to serve on port 80, you will need to install Apache with mod\_proxy. JBoss cannot provide access directly to port 80, but Apache can patch it through.

1. Install Apache: <http://httpd.apache.org/download.cgi>
2. At the “Server Information” screen, enter localhost for “Network Doman” and “Server Name”.  
   
3. Complete the installation with defaults selected.
4. Restart your computer for permissions to take effect.
5. Stop the Apache Service.
6. Find the “httpd.conf” file at:  
     
   ***[Apache Installation Directory]*\Apache2.2\conf**
7. Open the file and uncomment the following 3 lines:  
     
   **LoadModule proxy\_module modules/mod\_proxy.so  
   LoadModule proxy\_connect\_module modules/mod\_proxy\_connect.so  
   LoadModule proxy\_http\_module modules/mod\_proxy\_http.so**
8. At the bottom of the file, add the following lines:

**# PROXY FOR JBOSS AS7**

**ProxyRequests Off**

**ProxyPreserveHost On**

**<Proxy \*>**

**Order deny,allow**

**Allow from all**

**</Proxy>**

**ProxyPass /BiblioteQOnline http://localhost:8080/BiblioteQOnline**

**ProxyPassReverse /BiblioteQOnline http://localhost:8080/BiblioteQOnline**

**<Location />**

**Order allow,deny**

**Allow from all**

**</Location>**

1. Restart the Apache Service.
2. Start the JBoss standalone service.
3. Navigating to <http://localhost> should show the JBoss page.
4. Navigating to <http://localhost/BiblioteQOnline> should go to BiblioteQ.
5. You may need to configure your firewall to allow incoming connections on port 80.