**Prerequisites and Dependencies**

* Latest code or QR.war file and BCService.aar file
* Apache Tomcat web server 7.0 or above
* MySQL database server 5.5 or above
* Database scripts
* Jdk 1.7.0 or above

**Deployment Procedure**

**Mysql database server deployment**

Step 1: Install MySQL database server giving the same user name and password which is mentioned in the QR project (user name: root, password:root123)

Step 2: Run the scripts to create all the databases (2 databases) and all the required tables in each database

Step 2.1: use mysql> source file\_name.sql  command to run the scripts

* to create barcode application database with tables:mysql> source /home/2DBC- phase2/DBscripts/barcodeapplication.sql
* to create barcode service(web service) database with tables:mysql> source /home/2DBC- phase2/DBscripts/barcodeservice.sql

**Deploy Web Service in Tomcat Server**

Step 1 : Get an Instance of Tomcat Server

Step 2 : Change the port numbers in **conf/server.xml** file as follows.

* Change the **port** on the root **Server** element to a different number (e.g. **8006**)
* Change the **port** attributes on the **Connector** elements to a different number (e.g. **8010** instead of **8009**, **8081** instead of**8080** and **8444** instead of **8443**)

Step 3 : Get the **urlConfig.xml** file from Web Application Source code (“Source code/Qr-Version2/config/”) and place it at **tomcat/bin** directory.

Step 4: Do the following changes on urlConfig.xml file.

<URL\_NAME>http://10.62.244.4:8080/Qr/barcodeurl</URL\_NAME>

10.62.244.4= IP address of server web application is deployed

8080 = port in which tomcat server is running

Note: If 10.62.244.4 is represented by domain name-2dbc.dialog.lk do the above change as follows.

<URL\_NAME>http:// 2dbc.dialog.lk/Qr/barcodeurl</URL\_NAME>

Step 5 : Download axis2.war file and paste it in **/tomcat/webapps**

Step 6 : Start tomcat server – axis2 will be extracted in the **webapps** directory

Step 7 : Stop the tomcat server.

Step 8 : Get the BCService.aar file (Which created from the web service project) and place it at **tomcat/webapps/axis2/WEB-INF/services**.

Step 9 : Start the tomcat server.

**Deploy Web Application in Web Server**

Step 1 : Get another Instance of Tomcat Server

Step 2 : Get the **qrServer.xml, reportdatabase.xml** files from Web Application Source code (“Source code/Qr-Version2/config/”)

Step 3: Place the qrServer.xml, reportdatabase.xml files at “tomcat/bin” directory and do the following changes on them.

* qrServer.xml (Server IP)

<entry key="server\_url">10.62.244.4</entry>

10.62.244.4= IP address of server web application is deployed

* reportdatabase.xml (Database server credentials)

<entry key="username">root</entry>

<entry key="password">root123</entry>

root = database server user name

root123 = database server password

Step 4: Get the Qr.war(from the build location of the project working directory- “Qr-Version2/dist/” file which want to be deployed to the server and place it at **tomcat/webapps/** directory.

Step 5 : Start the tomcat server

Step 6 : Go to “http://localhost:8080/manager/html” and “Qr” application is displayed in “Applications” list.

Step 7: Click on it to go to web application.