# BBC Remarc App – Installation Guide

## Installation

### Pre-requisites

* Installation of Tomcat 7, with SSL connection configured (see installation documentation for details)
* Installation of MongoDB 2.4
  + Default installation using port 27017
  + No user credentials defined
  + Running on the same server as Tomcat

### MongoDB Start-Up

* Start the MongoDB server by browsing to the bin folder and executing *“mongod”*

### Configuration

* Create “work” folder on the machine running the server that will be accessible by Tomcat (i.e Tomcat has read/write privileges). Folder should match the directory structure given in the example below:
  + C:\remarc\ *(work folder)*
  + C:\remarc\temp
  + C:\remarc\app-root
  + C:\remarc\app-root\data
* Add the following entry to the Tomcat tomcat-users.xml

<role rolename=*"remarcadmin"*/>

<user username=*"remarcadmin"* password=*"dementia"* roles=*"remarcadmin"*/>  
  
This will create an administration user called “remarcAdmin” with password “dementia”. These can be configured as required by changing the red text in the sample above.

* In the Tomcat server.xml, inside the <Host> element, add the following line

<Context docBase=*"C:\remarc\app-root\data\"* path=*"/remarc\_resources"* />

Change the docBase element highlighted in red text to point to the “app-root/data” folder created earlier (inside the “work” folder) – this is our data directory

In order to test this configuration, place a file inside the data folder then browse to “localhost:8080/remarc\_resources/<filename>” – the file should be visible in the web browser.

* Add the following Local Environment Variables to Tomcat, with the name & values given.

|  |  |
| --- | --- |
| Environment Variable Name | Value |
| LOCAL\_DATA\_DIR | Same location as the data directory (“docBase” element) created above: “C:\remarc\app-root\data\" |

If running on Windows, create a “setenv.bat” file inside the Tomcat %CATALINA\_BASE%\bin\ folder. Define the variables above, as shown in the example below:

*set "LOCAL\_DATA\_DIR=C:\remarc\app-root\data\"*

*exit /b 0*

If running on \*nix, create a “setenv.sh” file inside the Tomcat %CATALINA\_BASE%\bin\ folder. Define the variables above, as shown in the example below:

*LOCAL\_DATA\_DIR=/usr/remarc/app-root/data/*

* Finally, Tomcat’s working directory must point to the “temp” folder within the “work” folder created above
  + In an IDE such as Eclipse, this is done by configuring the working directory from the Arguments tab of the Run Configurations menu
  + For standalone Tomcat installations, from a command prompt browse to the “temp” folder (e.g. C:\remarc\temp)
  + Execute the Tomcat “startup” command found in %CATALINA\_BASE%\bin\  
    For example:
    - C:\remarc\temp> "C:\apache-tomcat-7.0.62\bin\startup.bat"

This can be checked by deploying the application (as detailed below) and navigating to the Admin screen, then Manage Resources. If the file tree on the left hand side of the page is populated, then the working directory is correctly set.

### Deployment

* Use the Tomcat Manager Console (see Apache documentation) to deploy remarc.war
* Browse to http://<serveraddress>/remarc/ to access the application, this should re-direct to HTTPS by default
* Browse to http://<serveraddress>/remarc/admin using the credentials defined in tomcat-users.xml to access the admin functions