# 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”*
* Do not start the server using the “--auth" flag, we connect using the local exception rule

### 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\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 | Mandatory? | Value |
| LOCAL\_DATA\_DIR | Y | Same location as the data directory (“docBase” element) created above: “C:\remarc\app-root\data\" |
| LOCAL\_BASE\_URL | N | The base address that the images are currently hosted. If the images are hosted at <http://www.example.remarc/remarc-resources>, then this value should be set to <http://www.example.remarc>  With this value set, when the bulk upload functionality is used, the image location is set to the hosted location, allowing for separation of the Admin & Client servers.  **NOTE**: This value is only relevant for the Admin application & must be set before using the Bulk Upload feature. |

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/*

### 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

### Verification Steps

The following are recommended steps in order to verify the installation was a success:

* Use the “Manage Themes” page in the admin section to define your Themes
* Browse to the Remarc homepage and verify that the Themes defined appear
* Prepare a test upload archive containing a small number of images (e.g. 3) with the appropriate meta data tags
* Perform an upload with your test archive using the “Upload Resources” page in the admin section
* Browse to the “Manage Resources” page and ensure that the file tree in the left hand panel is correctly populated with your uploaded resources and the meta data is correct for each uploaded image
* From the Remarc homepage, select the appropriate Theme and content type to ensure the resources are returned correctly.