



pio

programmable
input_output
interface

PIO MANAGER SETUP

PIO Manager is a web application that use [libpio library for Java](#) to control and configure [PIO Interface](#) inputs and outputs from a connect device, like smartphone, tablet or PC.

To setup this application, install [Apache Tomcat](#) in your Raspberry Pi (**with the latest version of Raspbian operating system**) and then copy PIO Manager webapp (*pioman.war*) in the Tomcat webapps directory. To run, start Tomcat server.

Your Raspberry Pi must be connected on ethernet with a static ip address or, alternatively, with a dynamic one and a DNS name.

If your Raspberry Pi is connect to internet, you can follow this procedure from command line (followed commands are typed with prompt in home directory, but it is not mandatory):

- download Apache Tomcat:

```
wget http://mirrors.muzyy.it/apache/tomcat/tomcat-8/v8.0.15/bin/apache-tomcat-8.0.15.tar.gz
```

(the link may be different, due to updates: check the Tomcat download site at <http://tomcat.apache.org/download-80.cgi>)

- extract the file:

```
tar xzvf apache-tomcat-8.0.15.tar.gz
```

- download pioman.war application directly in Tomcat webapps directory:

```
wget -P apache-tomcat-8.0.15/webapps/ http://www.intellisys.it/media/wysiwyg/pio/software/pioman/pioman.war
```

- move prompt in the Tomcat bin directory:

```
cd apache-tomcat-8.0.15/bin/
```

- start Tomcat (**it's necessary you run Tomcat as super user**):

```
sudo ./startup.sh
```

- once Tomcat web server is running (approximately after 20 seconds from startup command) you can access PIO Manager from any browser on any lan device, typing this in the address bar:

```
http://"Raspberry Pi ip":8080/pioman
```

i.e. if your Raspberry Pi ip address is 192.168.1.21: <http://192.168.1.21:8080/pioman>

or, if your Raspberry Pi DNS name is "myraspberry": <http://myraspberry:8080/pioman>

- to stop the web server and accordingly the application, type this command in the tomcat bin directory in the Raspberry Pi:

```
./shutdown.sh
```