

Installation

Node.js Installation

First you need to install [node.js](#) which includes the package manager [npm](#). The minimum version required for pimatic to run is version 4.6.x. If you are on v4 the recommended version is [version 4.9.1](#). Otherwise, **it is recommended to install the current LTS version** ([version 10.16.0](#) at the time of writing). If you are on the Raspberry Pi and running the standard Raspbian distribution you can use the following installation procedure. If you prefer using the package manager see "[Installing Node.js via package manager](#)" for details.

Pi Model A, B, B+ or Zero

```
wget https://nodejs.org/dist/v10.16.3/node-v10.16.3-linux-armv6l.tar.gz -P
/tmp
cd /usr/local
sudo tar xzvf /tmp/node-v10.16.3-linux-armv6l.tar.gz --strip=1
```

Pi 2 Mode B or Pi 3 Model B

```
wget https://nodejs.org/dist/v10.16.3/node-v10.16.3-linux-armv7l.tar.gz -P
/tmp
cd /usr/local
sudo tar xzvf /tmp/node-v10.16.3-linux-armv7l.tar.gz --strip=1
```

To install node on another platform than Raspberry Pi have a look at [installing Node.js via package manager](#).

Check you Node.js version with:

```
/usr/bin/env node --version
```

Node.js Upgrade

If you plan to update your Node.js installation to a new major version at some point in time you need to completely reinstall pimatic. The recommended procedure is as follows:

- Shutdown pimatic
- Create a backup of your database and configuration file
- Remove pimatic

```
cd /home/pi/pimatic-app/node_modules/pimatic
sudo npm unlink
cd /home/pi
sudo npm unlink pimatic
sudo rm -rf pimatic-app
```

- Remove old Node.js version(s) completely from your system

```
sudo apt-get remove nodejs
sudo apt-get autoremove
sudo apt-get autoclean
```

- Install new Node.js version as described in section above
- Install pimatic as described in section below. Instead of copying the default config file recover your configuration file and database file from backup
- You can skip the next topic on Configuration. Proceed with the Running sub-topic instead. Before installing it globally let it run once in interactive mode and wait until the message "[pimatic] Listening for HTTP-request on port ..." is prompted which may take several minutes. Pimatic will automatically install the database driver and all plugins

```
sudo node_modules/pimatic/pimatic.js
```

- Now, you proceed with the global installation and the subsequent steps

pimatic Installation

You must have the `gcc` compiler or some other suitable compiler installed. Moreover, you need to have `git` installed. On Debian-based systems run:

```
sudo apt-get update
sudo apt-get install build-essential git
```

Once node.js and npm are installed you can run

```
cd /home/pi
mkdir pimatic-app
npm install pimatic --prefix pimatic-app --production
```

to install the pimatic framework.

Copy the default config file:

```
cd pimatic-app
cp ./node_modules/pimatic/config_default.json ./config.json
```

You should end up with these files in your `pimatic-app` directory:

<code>config.json</code>	the config file
<code>node_modules</code>	directory for the framework and plugins
<code>node_modules/pimatic</code>	the pimatic framework files

Now, you need to set the password for the admin user. Open the file `config.json` using a text editor (e.g., `nano`) and search for the string `"users"`. Then, change the value of the `password` property for user "admin" below.