

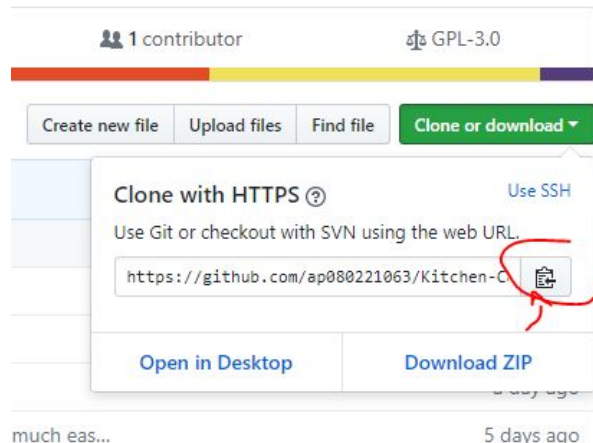
RASPBERRY PI CONFIGURATION GUIDE

for [KCA , Kitchen Cabinet Assistant](#)



1. You will need a Raspberry Pi;
(the one used in this configuration is a Pi 3 Model B)
2. Get a copy of a Raspbian distribution [here](#), of which I highly recommend the LITE version (RASPBIAN STRETCH LITE);
(it has no graphical interface, command line only, making it lighter on the Pi)
3. Flash an ssd card with the distribution;
(used this [application](#))
4. Power up the pi!;
5. You will need to connect your pi to a monitor just this once for an initial configuration;
6. Login with the default user **Pi** and password **Raspberry**;
7. Voilà, your in! Use the terminal to:
 - a. type `raspi-config`
 - b. when the splash screen appears, change the pi's password;
 - c. enable ssh;
 - d. change the locale and keyboard configuration if you desire;
 - e. give a hostname to your pi;
8. You can now disconnect your pi from your monitor, reboot, and store it in a place you can forget about it;
9. Access your pi using ssh with tools like [Putty](#) and [WinSCP](#);
10. Install node.js
 - a. `curl -sL https://deb.nodesource.com/setup_7.x | sudo -E bash -`
 - b. `sudo apt-get install -y nodejs`
11. Install git
 - a. `sudo apt-get update`
 - b. `sudo apt-get install git`
12. Clone project from Github
 - a. git clone to the project's destination folder (one of the below):
 - i. `cd` to project destination folder
 - ii. `cd` to a directory and then
 1. `sudo mkdir 'Folder_Name'`

- b. Go to KCA's project on github ([here](#)) and copy the link as shown in the image below:



- i. type:
 1. `sudo git clone 'project's path copied'`
- c. type:
 - i. `cd` to sub folders `server/api-node`
 - ii. `npm update`
13. Install Angular CLI
 - a. `cd` back and to `Kitchen-Cabinet-Assistant/KCAssistant`
 - b. `npm install -g @angular/cli`
 - c. `npm update`
 - d. `ng build`
14. Put KCA's back-end running
 - a. `cd` your way to `Kitchen-Cabinet-Assistant/Server/api-node`
 - b. type:
 - i. `node app.js` (your backend web api is now running and listening to any type of GET and POST requests)
15. Put KCA's front-end running

NGinx is a light-weight web server and it will allow to serve web pages.

 - a. type:
 - i. `sudo apt-get install nginx`
 - ii. `sudo /etc/init.d/nginx start` (starts the server)
16. Copy files to webserver
 - a. In step 13, after `ng build`, a `dist` folder was created and files created within it.
 - b. Copy all files within that folder to NGinx `var/www/html/` folder with the following:
 - i. `cp -r path to project/dist/ . var/www/html/`
 - ii. On another device, go to a browser and type the raspberrypi's hostname or ip: `http://192.168.1.66`

This isn't 100%, however the important pointers are here.
Good luck and enjoy.