

Setting Up Home Assistant with ESPHome on Windows:

1. Prerequisites:

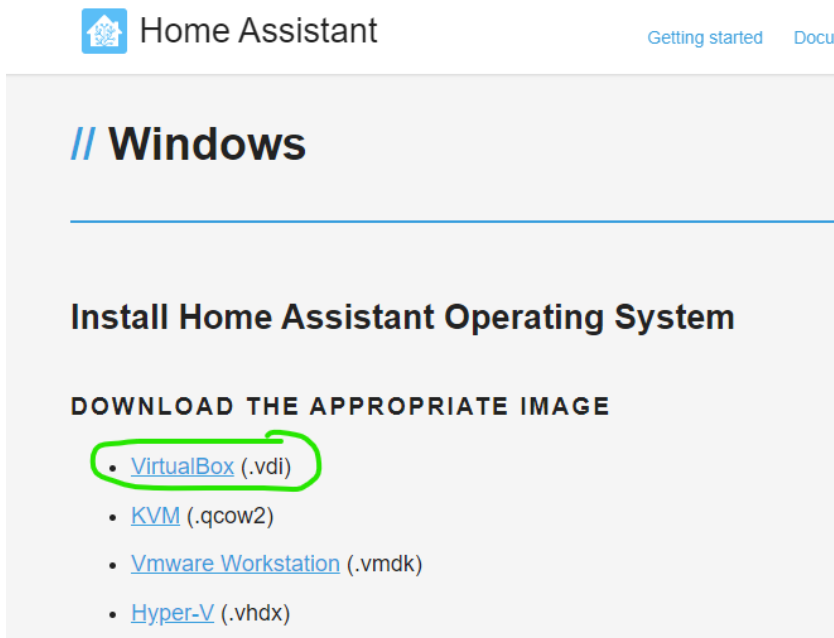
- a. Your machine has an Ethernet adapter.

2. Steps:

- a. Download VirtualBox: <https://www.virtualbox.org/wiki/Downloads>
Select the "Windows hosts" package:

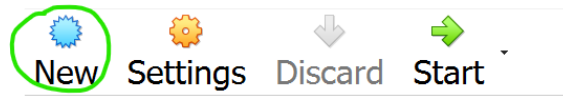


- b. Download the Home Assistant Operating System for windows [here](#).

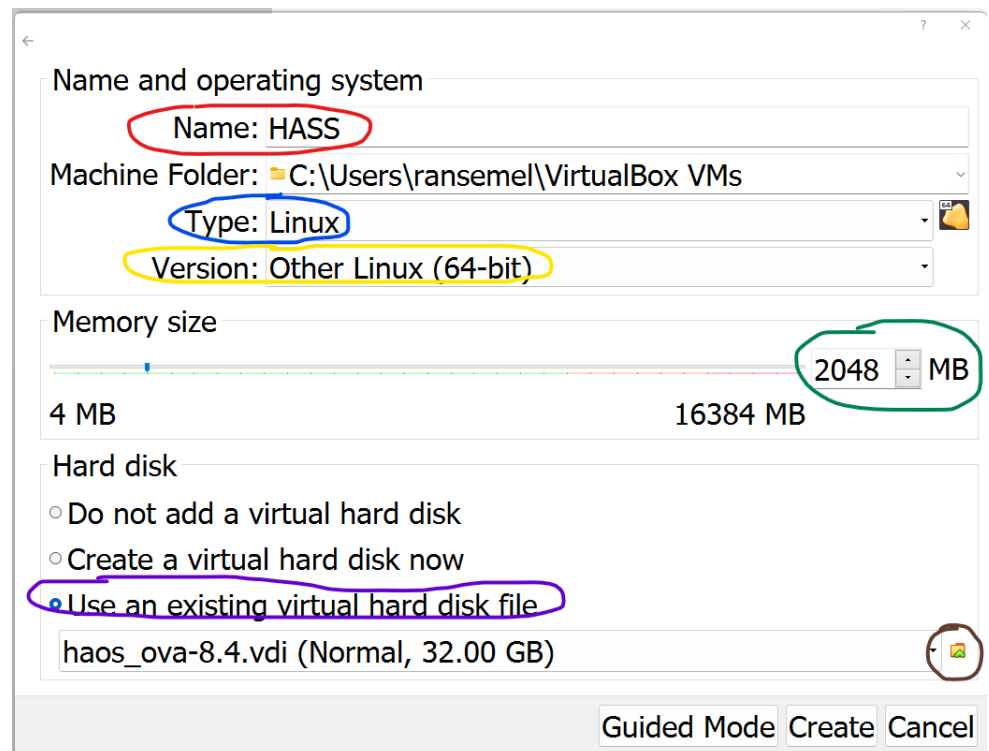


c. Create the VM:

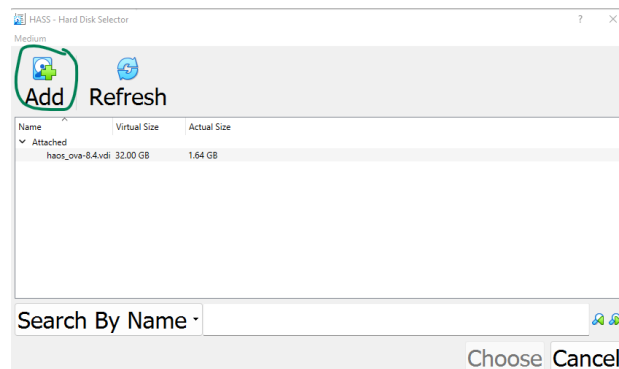
- Open VirtualBox
- Create new machine:



- Give the machine a name (marked in red)
- Set the "Type" to "Linux" (marked in blue)
- Set the "Version" to "Other Linux (64-bit)" (marked in yellow)
- Set the "Memory size" to 2048 MB (marked in green)
- Mark the "Use an existing virtual hard disk file" (marked in purple)
- Click the folder button right above the "Cancel" button (marked in brown)



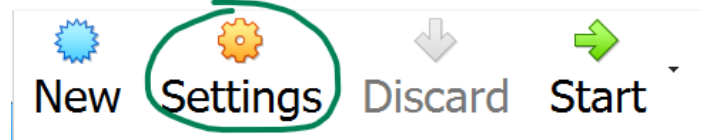
- After clicking the folder button click the "Add" button and choose the .vdi file we downloaded set b.



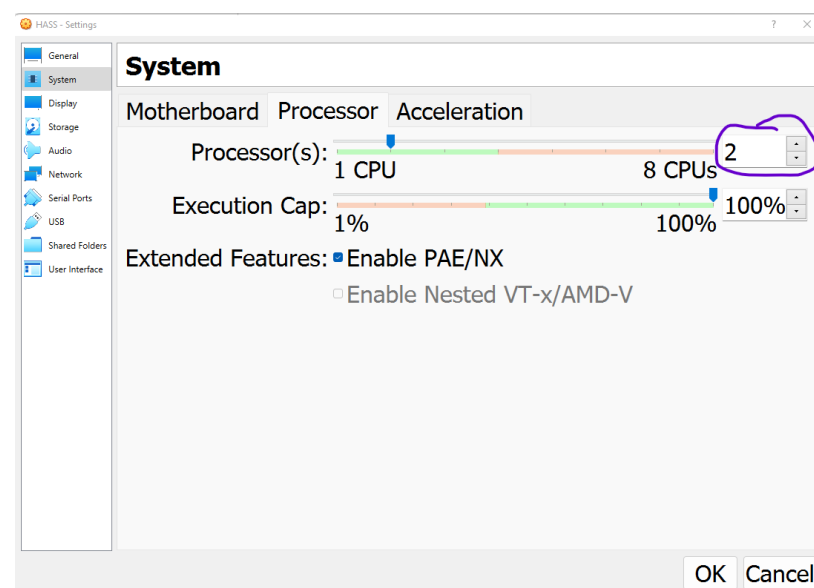
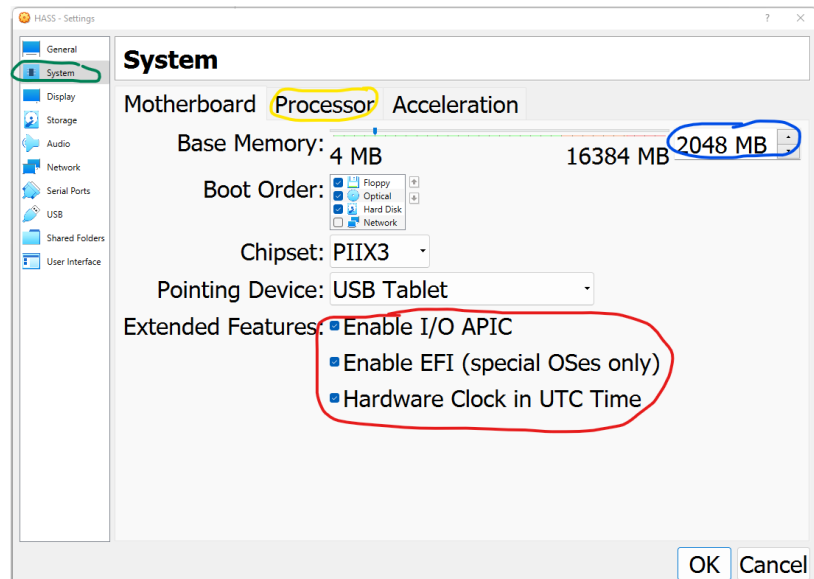
- After adding the .vdi file, hit the create button.

d. Configure special settings for the VM:

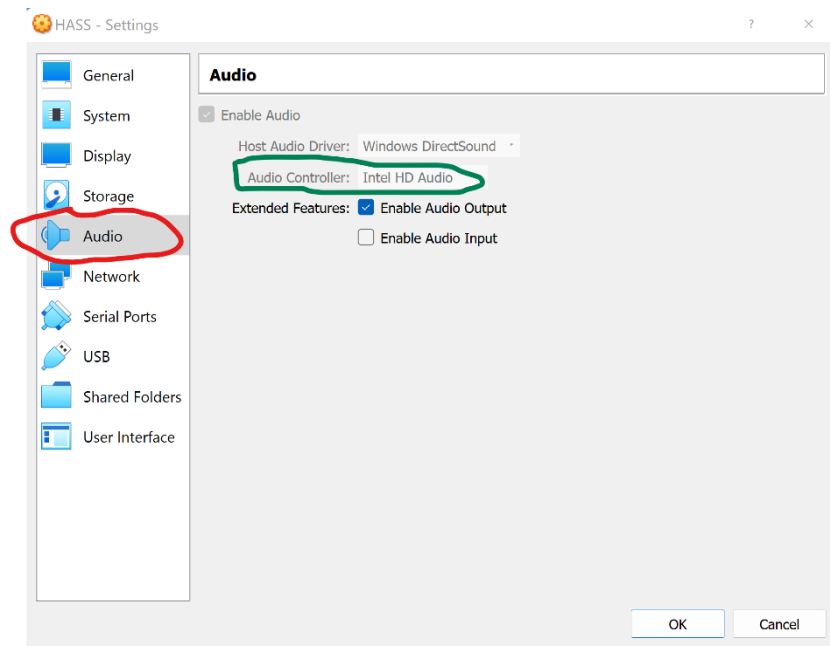
- Hit the Settings button.



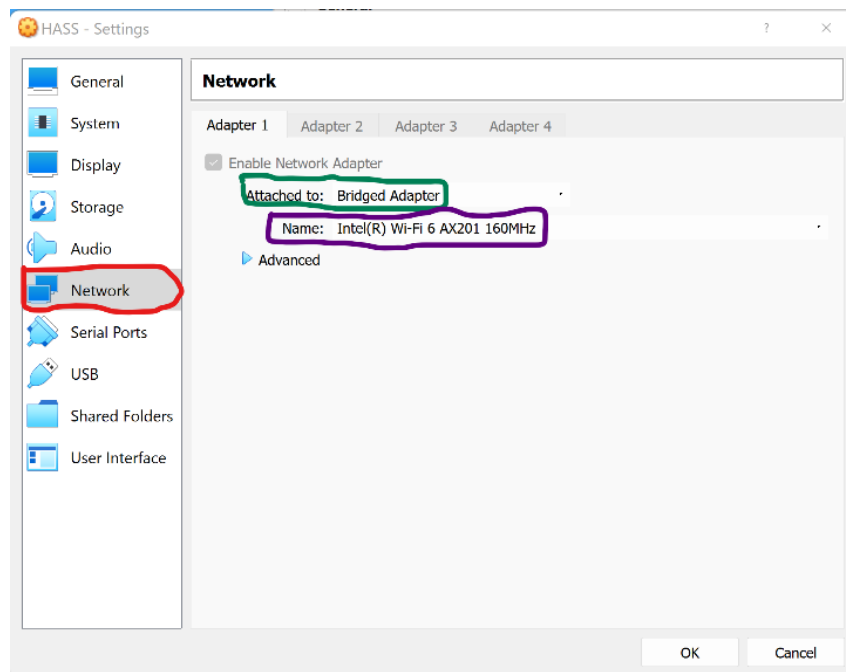
- Choose the “System” tab on the left (marked in green).
- Verify that the “Base Memory” is 2048 MB (marked in blue).
- Mark all the three check boxes: Enable I/O APIC, Enable EFI, Hardware Clock in UTC Time (marked in red).
- Hit the “Processor” tab (marked in yellow) and allocate 2 processors (marked in purple).



- Choose the “Audio” tab on the left (marked in red) and change the “Audio Controller” to “Intel HD Audio” (marked in green).



- Choose the “Network” tab on the left (marked in red) and change the “Attached to” to “Bridged Adapter” (marked in green). Also change the “name” to your machine's network adapter (marked in purple).



- e. Launch the VM, which will start running the Home Assistant server.

- After the server loads you should see the following screen

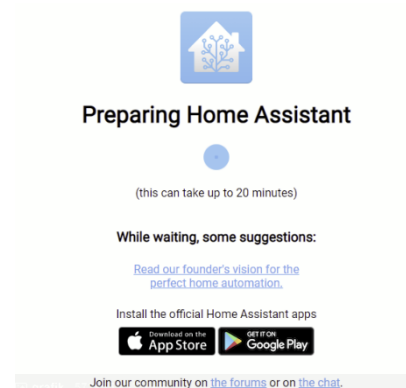
[illegible]

- **Troubleshooting:** It is hard to troubleshoot the Home Assistant supervisor. You can search the relevant error code online. Double check that you created the VM correctly and set its setting like section d stated.


f. Sign up to Home Assistant:

- Open your browser and connect to the “Home Assistant URL” which is marked in yellow in the picture above.

- First you will arrive to this page:



- After it finishes preparing you will arrive to this page:
Setup your username and password.

 Home Assistant

Are you ready to awaken your home, reclaim your privacy and join a worldwide community of tinkers?

Let's get started by creating a user account.

Name

Username

Password

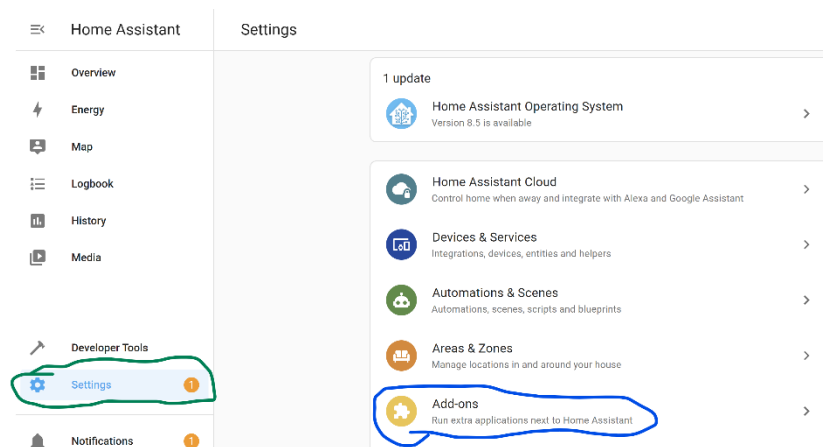
Confirm Password

CREATE ACCOUNT

Alternatively you can restore from a previous backup.

g. Install ESPHome:

- Press the “Settings” tab on the left(marked in green)
- Then press the “Add-ons” button(marked in blue)



- You will see this screen, press underlined button:

← Add-ons

You don't have any add-ons installed yet. Head over to the add-on store to get started!

- Then search for “ESPHome” and click on it:

← Add-on Store

Search
ESPHome

No results found in Official add-ons.

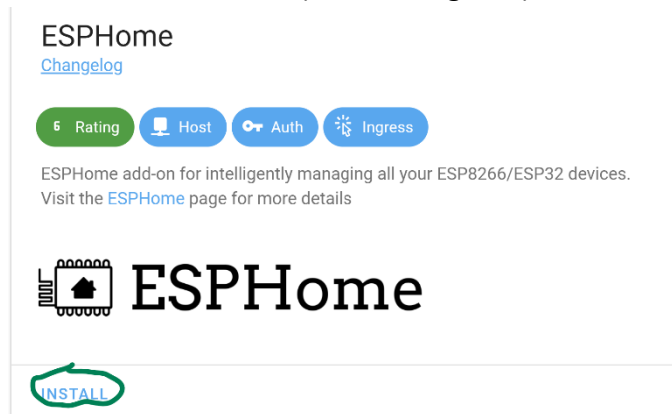
ESPHome



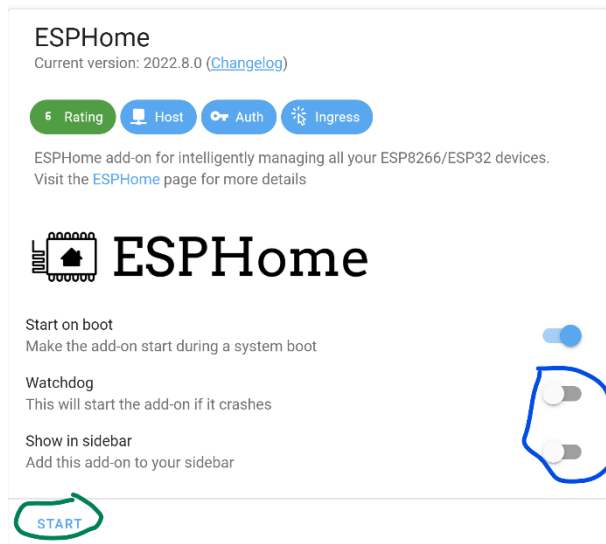
ESPHome
ESPHome add-on for intelligently
managing all your ESP8266/ESP32

No results found in Home Assistant Community Add-ons.

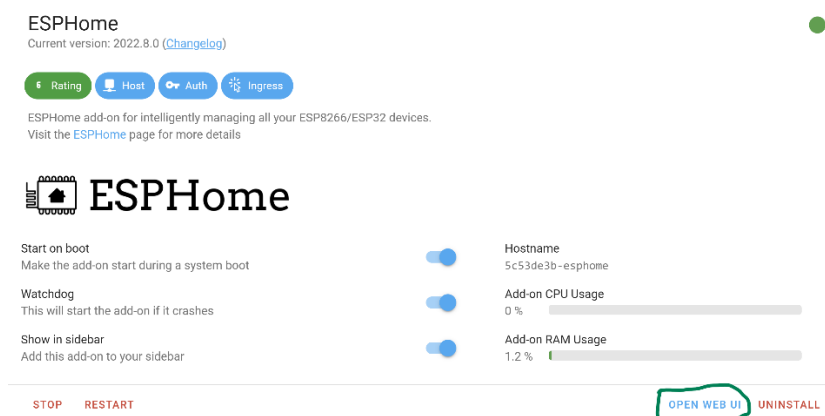
- Click the install button(marked in green):



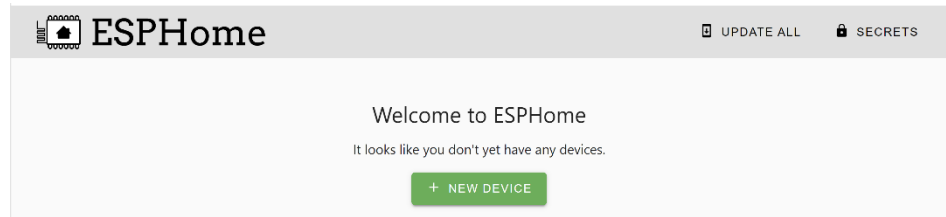
- Then press the start button(marked in green) and turn on the watchdog and sidebar(marked in blue):



- Hit the “Open WEB UI” button(marked in green):



- Press the green “+” button, during this stage the ESP32 needs to be connected to the computer!!



- Then click “continue”:

New device

A device needs to be connected to a computer using a USB cable to be added to ESPHome. Once added, ESPHome will interact with the device wirelessly.

You are not browsing the dashboard over a secure connection (HTTPS). This prevents ESPHome from being able to install this on devices connected to this computer.

You will still be able to install ESPHome by connecting the device to the computer that runs the ESPHome dashboard.

Alternatively, you can use ESPHome Web to prepare a device for being used with ESPHome using this computer.

OPEN ESPHOME WEB

CONTINUE

- Give your device a name:

Create configuration

Name*
smart-remote

This device will be configured to connect to the Wi-Fi network stored in your secrets.

CANCEL NEXT

- Choose ESP32:

Select your device type

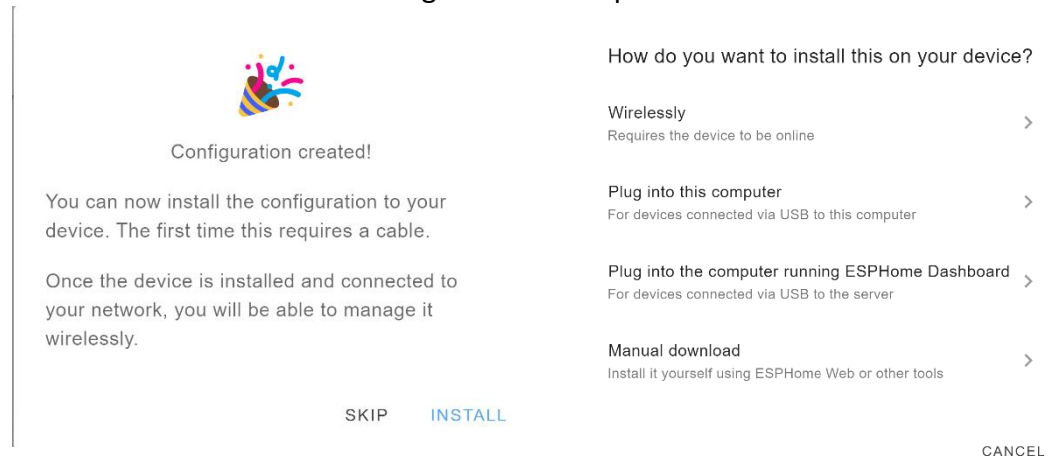
Select the type of device that this configuration will be installed on.

- ☒ ESP32
- ☐ ESP32-S2
- ☐ ESP32-C3
- ☐ ESP8266
- ☐ Pick specific board

Pick a custom board if the default targets don't work or if you want to use the pin numbers printed on the device in your configuration.

CANCEL NEXT

- Then hit install and choose “Plug into this computer”:



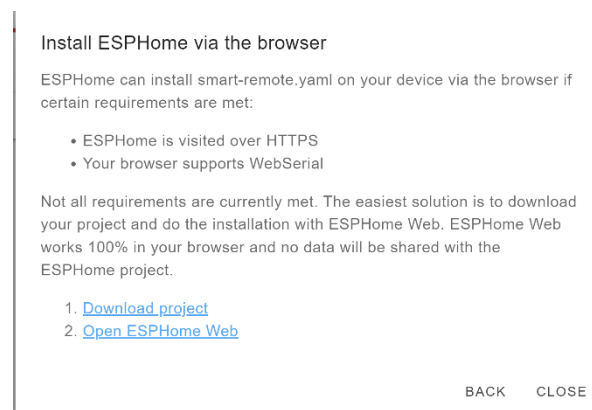
- Hit “Plug into this computer”:

How do you want to install this on your device?

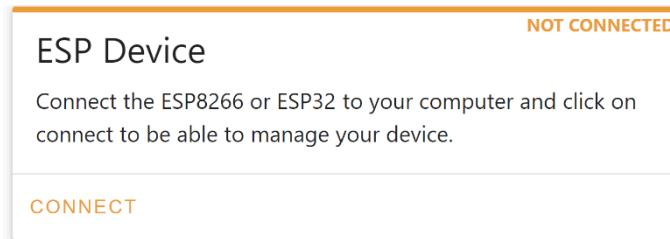
- Wirelessly** (Requires the device to be online)
- Plug into this computer** (For devices connected via USB to this computer)
- Plug into the computer running ESPHome Dashboard** (For devices connected via USB to the server)
- Manual download** (Install it yourself using ESPHome Web or other tools)

CANCEL

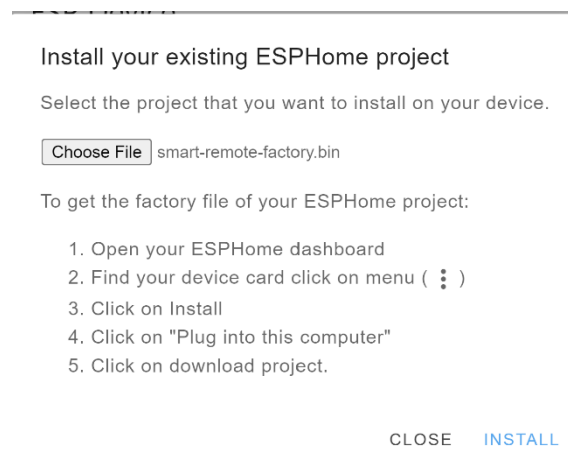
- Then wait for project to download and then hit the “Download Project”, a file called “smart-remote-factory.bin” will be downloaded.
- Then press “Open ESPHome Web”



- Click install and then choose the port that your ESP32 is connected to:



- Click "install" again and then choose the "smart-remote-factory.bin" file that you just downloaded. It is important that the ESP32 is connected and that you press the BOOT button from the moment you choose the port that it is connected to and until it finishes installing, otherwise it won't work!:



- Go back to your Home Assistant portal and you will see that your device is now online 😊

