

You must perform this procedure manually for now

Make sure you have already run "full\_initial\_configuration.sh" with no errors and all IDs are set up and services have never been started (or you will have to delete the .homeassistant folder before continuing)

### Before Going to Homes

1. You have to run Home Assistant at least once manually before copying the configuration file, see the below terminal commands for how to do it
  - a. `cd ~/ha`
  - b. `source bin/activate`
  - c. `hass`
2. Now that Home Assistant has initialized you have to open **localhost:8123** in the browser and follow the setup with the instructions below
  - a. While you are setting it up, it might refresh or reset the page once, just refill it
  - b. It also might freeze for a while, just be patient or refresh if it takes too long
  - c. Choose the name (username should autofill to be the same as name) and password (I chose them to be the same as the Jetson's)
  - d. Name the installation the same as the username
  - e. If you are not at a family's home, click Detect to set the metrics and move the location pin away from Baylor
  - f. Do not select anything to share (this should already be the default so just press Next)
  - g. Ignore the devices and click Finish
3. Now we have to make sure that the native Bluetooth module is configured
  - a. Click Settings on the bottom left
  - b. Click Devices & Services
  - c. If the native Bluetooth module is not already configured, click Configure to do it
4. Ignore all other devices and disable the default ones if you wish (Weather, Radio, etc.) as they might fill up the log with errors when the Wi-Fi is off

## At Homes

1. Take out the plug from the box and note the four character ID of the smart plug on the side
  - a. **Convert the ID to lowercase for the next step**
  - b. Put the plug into a socket and plug the TV into it
2. **THIS STEP IS VERY IMPORTANT FOR FUTURE STEPS AS WELL**, run `participant_change.sh` and correctly enter the ID for the plug (lowercase), device, and family when prompted, making sure there are NO TYPOS.
  - a. Open "configuration.yaml" in the "~/.homeassistant" folder and make sure that the lowercase plug ID is copied to the correct line
3. **Start the Home Assistant service** ("`sudo systemctl start homeassistant-run-on-boot.service`") and make sure there are no relevant errors
4. Open the internet browser and enter "localhost:8123" into the address bar
  - a. This should open the Home Assistant interface, you might need to login
5. Now we need to make sure that the smart plug is detected
  - a. Click Settings on the bottom left
  - b. Click Devices & Services
  - c. Look for "Plug Mini YYYY SwitchBot" where YYYY is the alphanumeric ID labeled on the side of the plug
  - d. If the smart plug does not show up, try pressing the button on its side to make sure it's turned on (there should be a white LED light visible)
6. Click Configure and set up the smart plug
  - a. Set the area to whatever matches, you can name a new area if necessary
7. Now make sure that the power data is coming in
  - a. Click the "History" tab on the middle left
  - b. Click "Choose entity"
  - c. Select the option that looks like "Plug Mini YYYY Power"
  - d. If the data is coming in as expected, continue, otherwise troubleshoot
8. **Start the Home Assistant service again** ("`sudo systemctl start homeassistant-run-on-boot.service`") and make sure there are no relevant errors
9. Look for and open "123XXX\_tv\_power\_5s.csv" in "~/.data/123XXX\_data" to make sure the .csv log is being written

### Changing Families/Plugs and Reusing the Device

1. Make sure that all data from Home Assistant is copied and saved in multiple ways (.csv in "~/data/123XXX\_data folder", .csv from addon, .db from "~/homeassistant" folder, etc.)
  - a. Make sure the FLASH-TV data ("~/data" folder) is copied and saved as well just case
  - b. It's easiest to just save all of "~/data" and "~/homeassistant"
2. **Make sure that the Home Assistant service is stopped ("sudo systemctl stop homeassistant-run-on-boot.service")**
3. Delete the "~/flash-tv-scripts" folder (this is to reset all the IDs), the "~/homeassistant" folder, and the .csv file in the "~/data/123XXX\_data folder" (or the entire data folder if necessary)
4. Reclone the flash-tv-scripts folder from GitHub
5. Redo the "Before Going to Homes" section from the beginning **while making sure the Home Assistant service is disabled**
6. Redo the "At Homes" section when you are at the new family's home