

Initial Setup

Make sure you have copied or cloned this directory, "flash-tv-scripts", into the "/home/flashsysXXX" folder (aka "~" or "/home/\$USER") of the Jetson

Make sure you are connected to a reliable internet connection while following these instructions

To run a bash script (usually ends with .sh and has something like #!/bin/bash as the first line when opened in a text editor):

1. Open Terminal (Ctrl-Alt-T)
2. Make sure you are in the correct folder to run the script (usually the one that contains the script) by typing "cd (correct folder path)" without quotes, without parentheses and press Enter
3. Type "bash (script_name.sh)" where script_name.sh is the actual script's name, without quotes, without parentheses, and press Enter
4. You can type "bash -x (script_name.sh)" instead to display full logging of what the script is doing, for troubleshooting/debugging

On each new Jetson, ideally after flashing it to the latest NVIDIA JetPack version from a computer running Ubuntu 18.04, run the "full_initial_configuration.sh" script on it using bash ONCE:

1. Open Terminal (Ctrl-Alt-T)
2. Make sure you are in the "flash-tv-scripts" directory (type "cd ~/flash-tv-scripts" and press Enter to make sure, ~ is the tilde key)
3. Type "bash full_initial_configuration.sh" and press Enter
4. Type the requested IDs without spaces when prompted and **make sure there are no typos before you press Enter or you will have to delete the flash-tv-scripts folder and copy/clone it again**
5. The device ID should be labeled on the Jetson
6. If you don't know the family ID yet, then just type 123 for it
 - a. **Once you do know the ID of the family the Jetson will be going to, run "participant_change.sh" and make sure you enter it correctly**
7. Enter the password when prompted, **you have three tries or the script will move on to the next command and might not work properly, so be careful**
8. The script should automatically continue after this step for at least 15 minutes, make sure that the device does not lose power
9. Make sure to check if the script needs the password every 15 minutes, or you can set the password timeout to be 6 hours (read the "suedit" file in install_scripts)
 - a. **If the Jetson loses power or internet while running the script, run "stop_services.sh" before starting the script again**

After these setup instructions are finished, make sure there were no important errors and then read and follow the first portion of "Home_Assistant_Usage.pdf"

Resetting the Configuration after Device Retrieval

1. Make sure that all the data from FLASH-TV scripts and Home Assistant is stored in the "~/data" folder and back it up (copy paste) to external storage (might be automated in the future)
2. Back up the "~/.homeassistant" folder to external storage (might be automated in the future)
3. Really make sure that all of "~/data" is backed up to external storage, even if the process has been automated
4. Delete the "~/flash-tv-scripts" folder, the "~/.homeassistant" folder (show hidden files if you don't see it), and the "~/data" folder **only if necessary**
5. Copy/clone the flash-tv-scripts folder into the /home/flashsysXXX directory again and run "bash participant_change.sh"
6. You should know the family ID before doing this, but if you don't, just type 123 and run "bash participant_change.sh" again later
7. Enter "YYYY" for the plug ID
8. Read and follow "Home_Assistant_Usage.pdf" again

Runtime Scripts, In-Home Installation, Data Collection

See the FLASH-TV in-home installation checklist, "FLASH-TV_In-Home_Installation_Procedure.pdf," for more detailed instructions