Tested on:



Smart Power Strip



Anoopsyche JH-G01B1 Power Monitoring
Plug
https://blakadder.github.io/templates/anoopsy



https://www.ifreeq.cn/product-page/ps-17-wsb -uk-standard-tuya-wi-fi-wall-socket https://blakadder.github.io/templates/vigica_V GSPK00815.html



che JH-G01B1.html

Slitinto NX-SM110 Power Monitoring Plug

https://blakadder.github.io/templates/stilinto

NX-SM110.html

1. Download Utorrent/Bit Torrent

https://www.utorrent.com/

https://www.bittorrent.com/downloads/win

2. Download Kali Linux VM torrent https://www.offensive-security.com/kali-linux-vm-vmware-virtualbox-image-download/

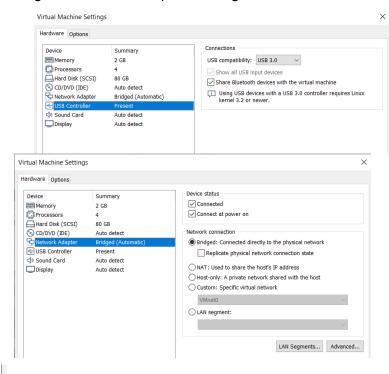
- 3. Extract the zip file using Winrar https://rarlab.com/rar/winrar-x64-58b2.exe
- 4. Download VMware Workstation or virtual box https://my.vmware.com/en/web/vmware/info/slug/desktop_end_user_computing/vmware_workstation_pro/15_0

https://www.virtualbox.org/wiki/Downloads

- 5. Click "Open a new virtual machine" and navigate to kali linux .vmx file
- 6. Right click on kali linux VM and go to settings
- 7. Start kali linux and log in using

Username: root Password: toor

8. Under USB controller change USB compatibility to 3.0 and click ok. Change the Network adapter to bridge



- 9. Connect the USB wifi adapter to the virtual machine
- 10. Install USB wifi adapter driver in terminal using: Apt-get install realtek-rtl88xxau-dkms

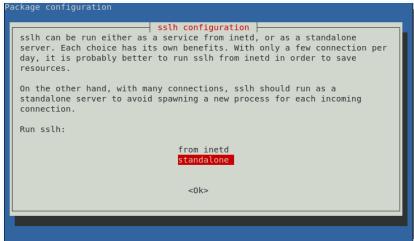
11. Type "iwconfig" and check, save a snapshot here.

```
0 0 6
 File Edit View Search Terminal Help
(Reading database ... 353675 files and directories currently installed.) Preparing to unpack .../git_1%3a2.23.0-1_amd64.deb ...
Unpacking git (1:2.23.0-1) over (1:2.23.0~rc1-1) ...
Preparing to unpack .../git-man 1%3a2.23.0-1_all.deb ...
Unpacking git-man (1:2.23.0-1) over (1:2.23.0~rc1-1) ...
Setting up git-man (1:2.23.0-1) ...
Setting up git (1:2.23.0-1) ...
Processing triggers for man-db (2.8.6.1-1) ...
        (ali:~# iwconfig
wlan0
             IEEE 802.11 ESSID: "SQX-1"
              Mode:Managed Frequency:5.22 GHz Access Point: FC:EC:DA:3C:8F:4D
              Bit Rate=400 Mb/s Tx-Power=18 dBm
Retry short limit:7 RTS thr:off Fragment thr:off
              Encryption key:off
              Power Management:off
              Link Quality=49/70 Signal level=-61 dBm
Rx invalid nwid:0 Rx invalid crypt:0 Rx invalid frag:0
              Tx excessive retries:0 Invalid misc:0 Missed beacon:0
lo
              no wireless extensions.
eth0
              no wireless extensions.
  oot@kali:~#
```

12. Installation:

- # apt-get install git
- # git clone https://github.com/ct-Open-Source/tuya-convert
- # cd tuya-convert
- # ./install_prereq.sh

```
root@kali:~# git clone https://github.com/ct-Open-Source/tuya-convert
Cloning into 'tuya-convert'...
remote: Enumerating objects: 146, done.
remote: Counting objects: 100% (146/146), done.
remote: Compressing objects: 100% (87/87), done.
remote: Total 738 (delta 85), reused 101 (delta 59), pack-reused 592
Receiving objects: 100% (738/738), 2.55 MiB | 1.75 MiB/s, done.
Resolving deltas: 100% (438/438), done.
root@kali:~# ls
Desktop Downloads Pictures rtl8812AU_8821AU_linux tuya-convert
Documents Music Public Templates Videos
root@kali:~# cd tuya-convert# ls
config.txt install_prereq.sh README.md start_flash.sh
files LICENSE scripts stop_flash.sh
root@kali:~/tuya-convert# ./install_prereq.sh
Get:1 http://ftp.yzu.edu.tw/Linux/kali kali-rolling/main amd64 Packages [16.6 MB]
Get:2 http://ftp.yzu.edu.tw/Linux/kali kali-rolling/main amd64 Packages [16.6 MB]
Get:2 http://ftp.yzu.edu.tw/Linux/kali kali-rolling/main amd64 Packages [16.6 MB]
3,055 PB/s 0s
```

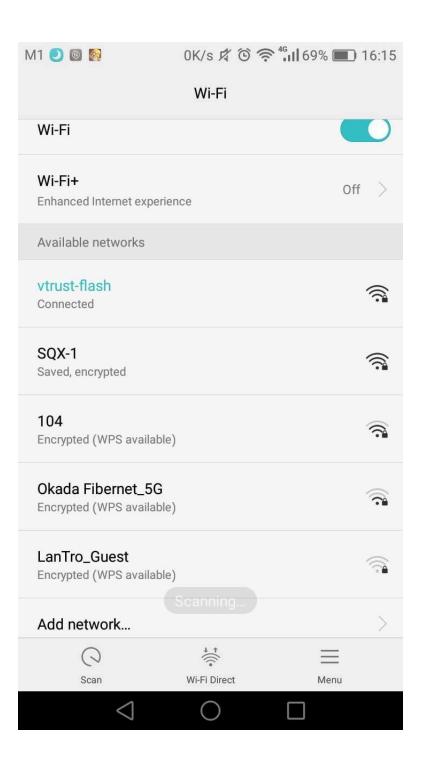


13.

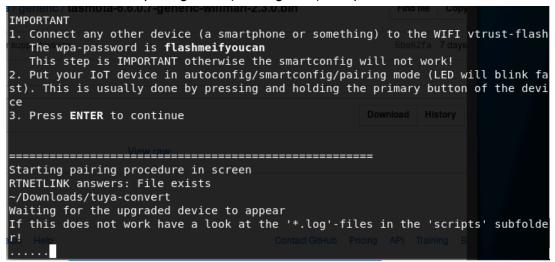
Select Standalone then No

- 14. After it is done, save a snapshot here.
- 15. Type ./start_flash.sh
- 16. Follow the instructions in the start_flash script. It will install the flash loader onto the ESP and connect to the access point created by your wifi adapter.
- 17. Use a phone or another laptop and find vtrust-flash wifi
- 18. WIFI: vtrust-flash

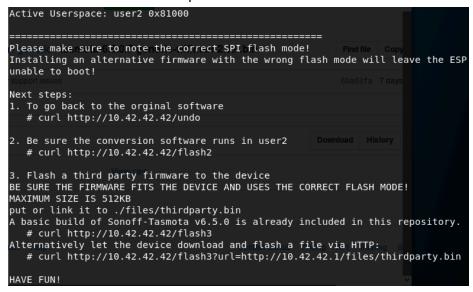
PASS: flashmeifyoucan



19. Put the device in fast pairing mode(blinking LED) and press Enter to continue.



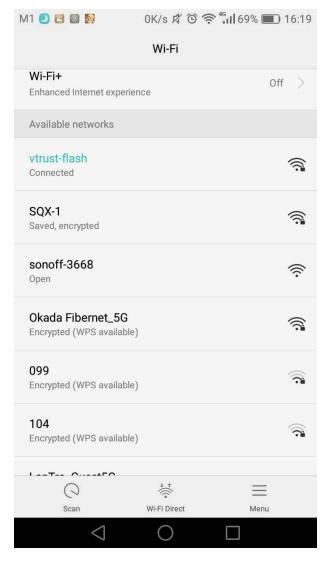
20. Check that it is Active Userspace: user2 and not user 1



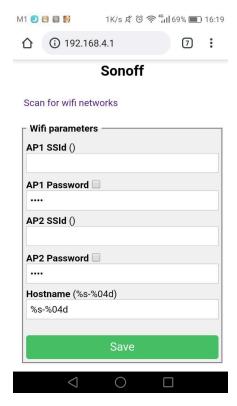
- 21. If it is user 1, use: curl http://ip_add/flash2
- 22. Type curl http://ip_add/flash3?url=http://ip_add/files/thirdparty.bin

```
root@kali:~/Downloads/tuya-convert# curl http://l0.42.42.42/flash3?url=http://l0
.42.42.1/files/thirdparty.bin
Device should flash http://l0.42.42.1/files/thirdparty.bin and restart
```

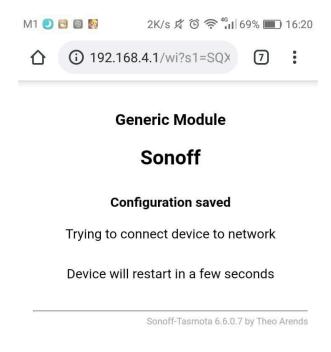
23. The device will broadcast a sonoff-xxxx access point (AP) when the device boots.



24. Type in 192.168.4.1 in the url field to reach the area to enter details for wifi parameters.

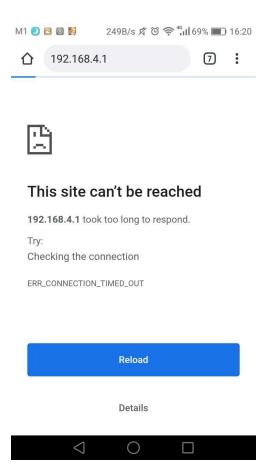


25. Save the configurations and wait for the device to get restarted.

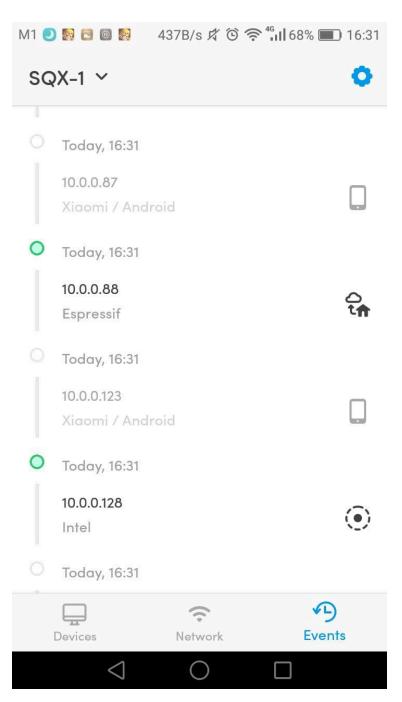




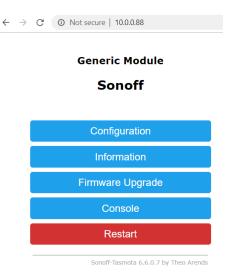
26. In the end, the site would no longer be reached, meaning it has succeeded.



27. Next search for the ip address of the device using Fling https://play.google.com/store/apps/details?id=com.overlook.android.fing&hl=en



28. Type the ip add in the browser url field



- 29. Go to configuration, configuration other
- 30. Copy and paste in the template and click activate and save

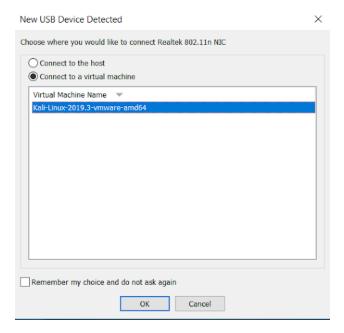
Note: If the device is not in the wifi range, the device will broadcast its Access Point(sonoff-xxxx) and phones/laptops can re-register for another wifi parameters.

Vid reference : https://youtu.be/dyUyewiKpRA https://github.com/ct-Open-Source/tuya-convert

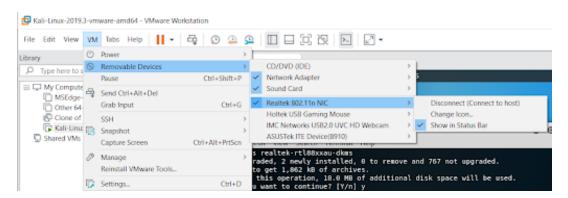
Errors Encountered:

8a: Default USB compatibility is 2.0, remember to change to 3.0 to be able to use the usb wifi adapter in kali linux vm

9a:It must be connected to the virtual machine and not the host machine, there will be a notification that pops up at the virtual machine to indicate where should the usb ported to



10a: if unable to install realtek-rtl88xxau-dkms, it means that realtek 802.11n NIC was not selected



18a:If vtrust-flash network connection failure, refer back to 10a'

19a: If flash half way and vtrust-flash disappears wifi disappeared, cancel the process (ctrl+c) and {type [curl http://10.42.42.42/flash3]} pushing the button four times in quick succession should put your device in wifi recovery mode. It'll open the original sonoff-xxxx wifi AP again. Connect to that, navigate to 192.168.4.1 and you can put in new information.