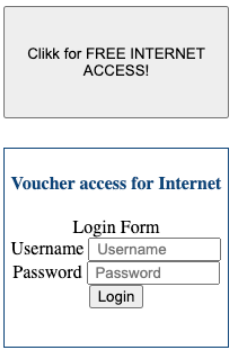
Installation for Tumaini School



Usage

If everything is nicely connected and up and running, the user can connect to Wifi using SSID «BasicInternet».

This leads to the welcome page, which is always available from http://acces.basicinternet.org

Here you have the different choices:

- Vodacom e-learning platform e-Fahamu, free to use for everyone
- School server yeboo.com - your local server with content which you can configure and share
- Energy Monitoring - a Smappee installation to monitor energy, use the homeassistant app and connect to energy.yeboo.com (port 80)[1]
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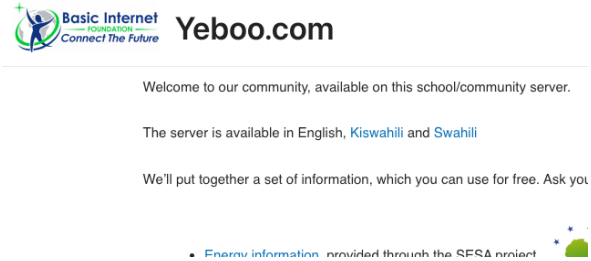
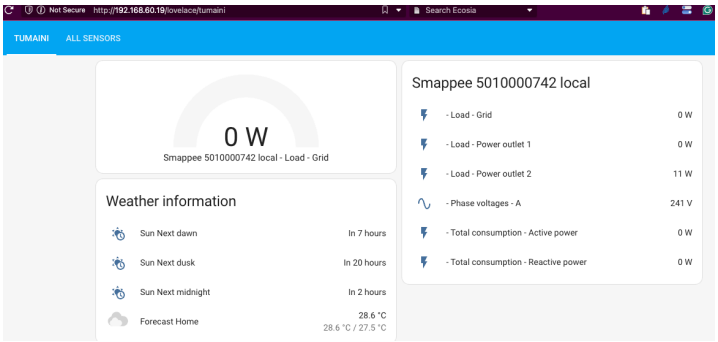




Cabling

You have the following units:

- (Antenna) Antenna for reception of mobile network, connects from Port 1 to Port 1 of the LNCC
- (LNCC) hAP Router providing BasicInternet Wifi. Connects to the (Antenna) on Port 1, and on Port 2 to the (Switch) Port 1
- (Switch) Port 1 receives the Internet from (LNCC), Port 2-8 are for (Genius), (EnergyRPI), (YebooRPI), and if you need to monitor, to a PC
- (Genius) the Smappee Genius collects the data from the Smappee gateway, and provides them to the home assistant through 192.168.60.18
- (EnergyRPI) is the squared Raspberry Pi 4, which has http://energy.yeboo.com for the energy monitoring - use the Home Assistant App for monitoring, or the Web page
- (YebooRPI) is the Raspberry 400, with the yeboo.com Web page and the local Nextcloud at yeboo.com:8080

[1] Troubleshooting, see last page - login is: its, passwd: ITS-energy2024

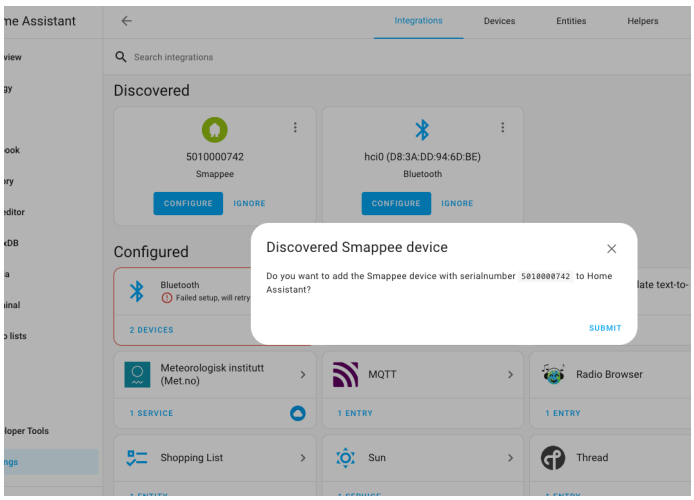
Smappee installation

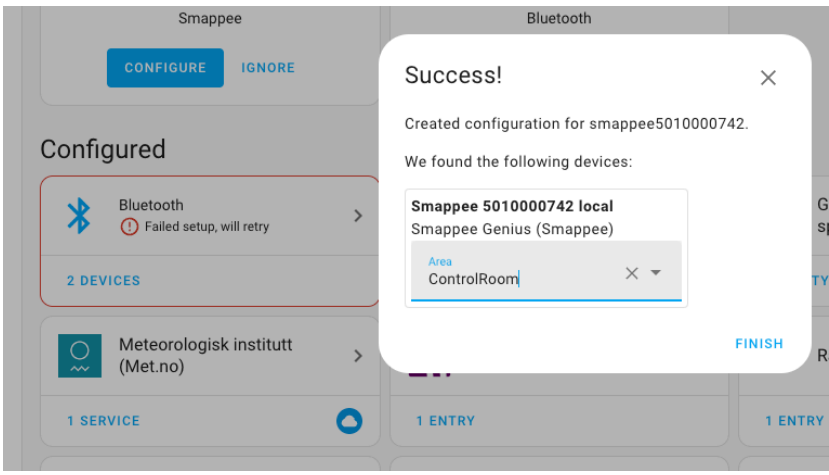
If Smappee does not come up in the homeassistant interface, then

a) take out the power/data cable and reboot Smappee Genius - that will reset Smappee and restart. Wait a bit, and see if Smappee Genius get's green (IP address found) and is integrated in HomeAssistant

b) If that does not help, open HomeAssistant: http://energy.yeboo.com and go to Settings = Integrations = Smappee = remove the integration

c) Then, reboot Smappee and wait a bit, and in HomeAssistant under Notifications you will see «new devices available» - Integrate Smappee





Troubleshooting Energy Monitoring

If energy.yeboo.com does not come up, you can connect by cable to one of the free router ports and a display cable to see the results of the Raspberry PI on a screen.
Through a browser you have access to energy monitoring using http://192.168.60.19

- Under Settings = System = Logs you see error messages

For experts only:

- if the error is related to reverse proxy, use an ssh to connect: ssh its@192.168.60.19 (passwd: ITS-energy2024)
- the you can edit the configuration.yaml file:
- vi /homeassistant/configuration.yaml
- exit the vi editor with ESC :wq
- the «reboot now» the machine