LOW-COST LORA GATEWAY: WEB ADMIN INTERFACE





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CONTENTS

- ☐ This tutorial presents the web admin interface which is an add-on to the low-cost gateway
- □ Please read first the "Low-cost LoRa gateway: a step-by-step tutorial" to understand the gateway configuration
- Note that the SD card image has everything needed, including the web admin interface installed, so you may skip the installation procedure
- ☐ Let's get started...



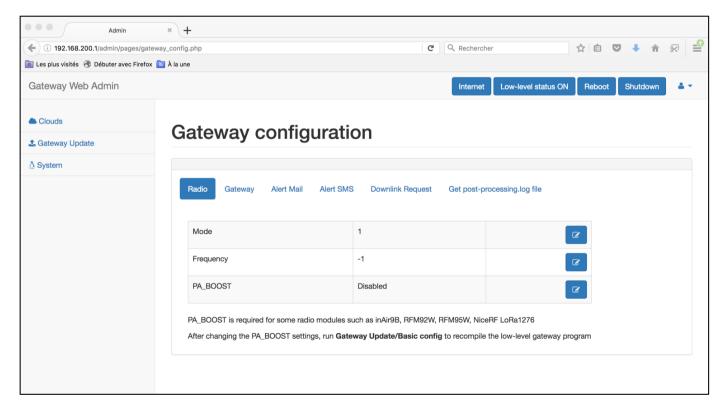
GATEWAY WEB ADMIN INTERFACE (1)

- A gateway web admin interface has been added to the latest version
- ☐ To install the web admin interface, check if you have the gw_web_admin folder in your lora_gateway folder
- ☐ If you don't, then update to the latest version
- ☐ Then, go into gw_web_admin and run the install.sh script
 - ☐ cd gw web admin
 - □ sudo ./install.sh



GATEWAY WEB ADMIN INTERFACE (2)

- □ http://192.168.200.1/admin
 - Login: admin
 - Password: loragateway





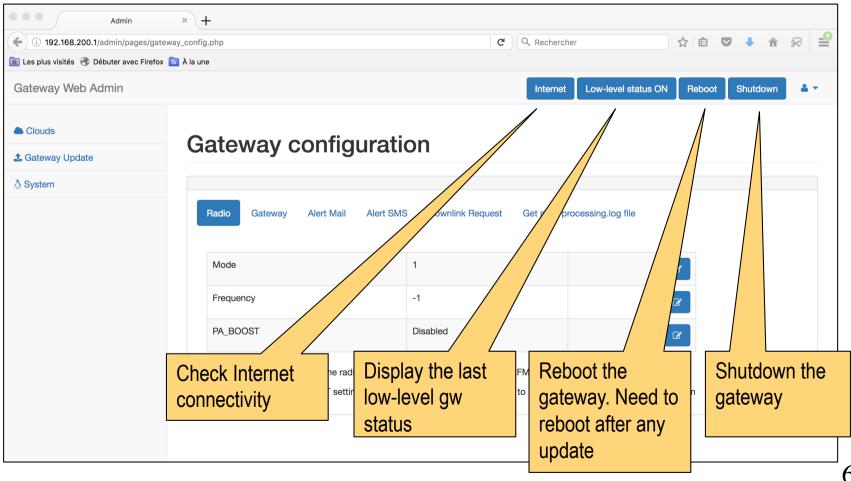
WEB ADMIN FEATURES

- Currently, you can use the web admin to:
 - □ Update your gateway with the latest github version and perform the basic configuration procedure. You can preserve your configuration files
 - Configure the gateway as WiFi client to connect to a WiFi network
 - Test Internet connectivity
 - Easily reboot and shutdown your gateway
 - Be carefull, if you shut down the gateway, you need to physically access the gateway to power it it on again
 - Change LoRa mode and frequency
 - Set your gateway id and configure alerting system (mail, SMS)
 - Change the WiFi SSID and password
 - Enable/Disable local AES decryption
 - Enable/Disable ThingSpeak and WAZIUP Orion cloud
 - ☐ For ThingSpeak, you can specify a new write key
 - For WAZIUP Orion, you can specify the project name, the organization name and the service tree
 - Fiware-service=project_name
 - sensor_name=organization_name+"_Sensor"
 - Fiware-servicePath='/'+organization_name+service_tree



GATEWAY MAIN PAGE

Gateway main page (configuration page)

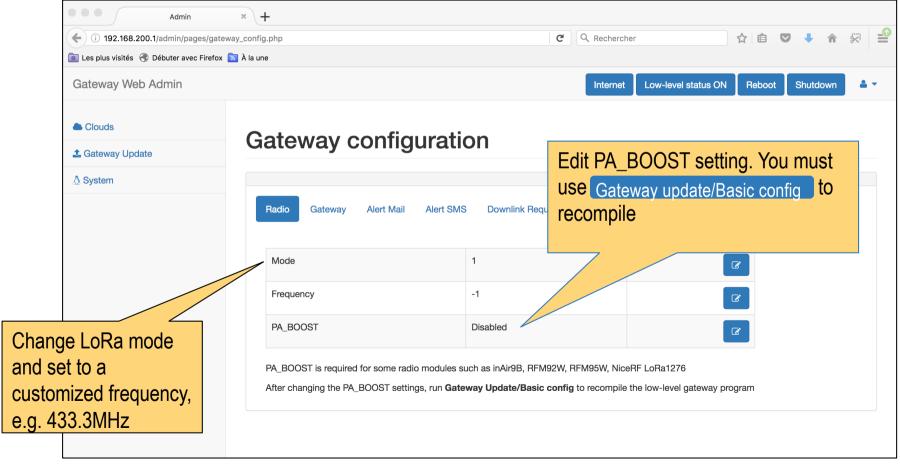


6



MAIN GATEWAY CONFIGURATION (1)

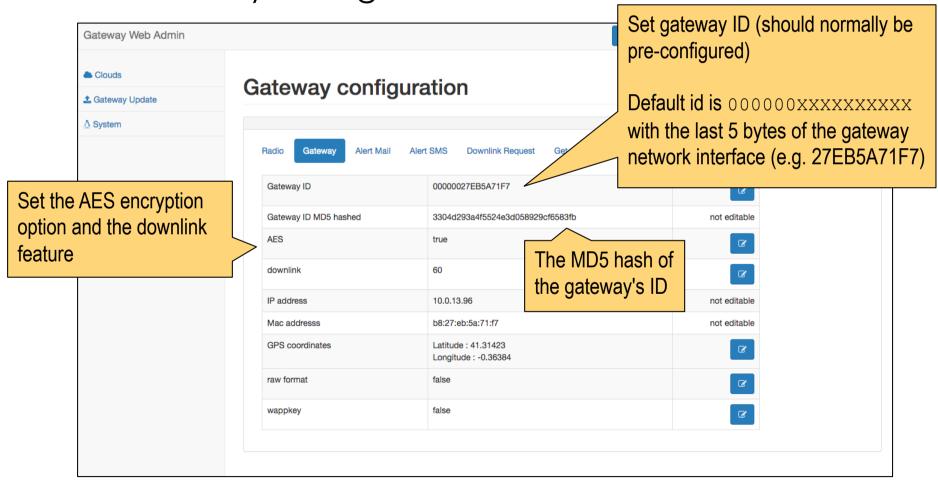
Gateway radio configuration section





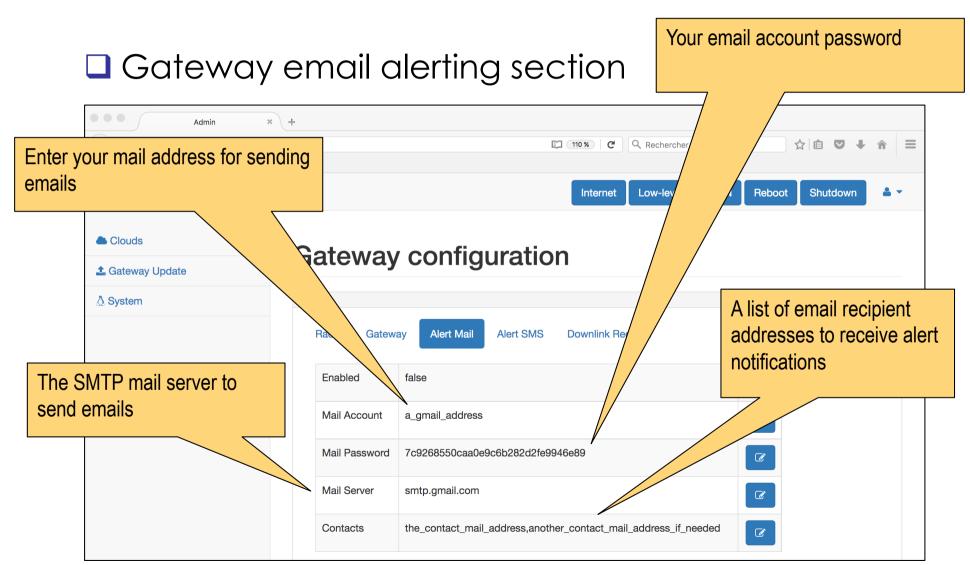
MAIN GATEWAY CONFIGURATION (2)

Gateway configuration section





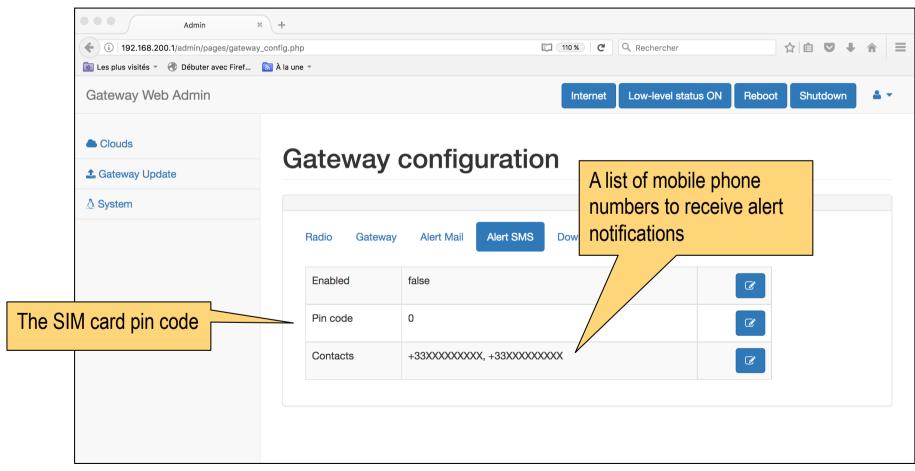
MAIN GATEWAY CONFIGURATION (3)





MAIN GATEWAY CONFIGURATION (4)

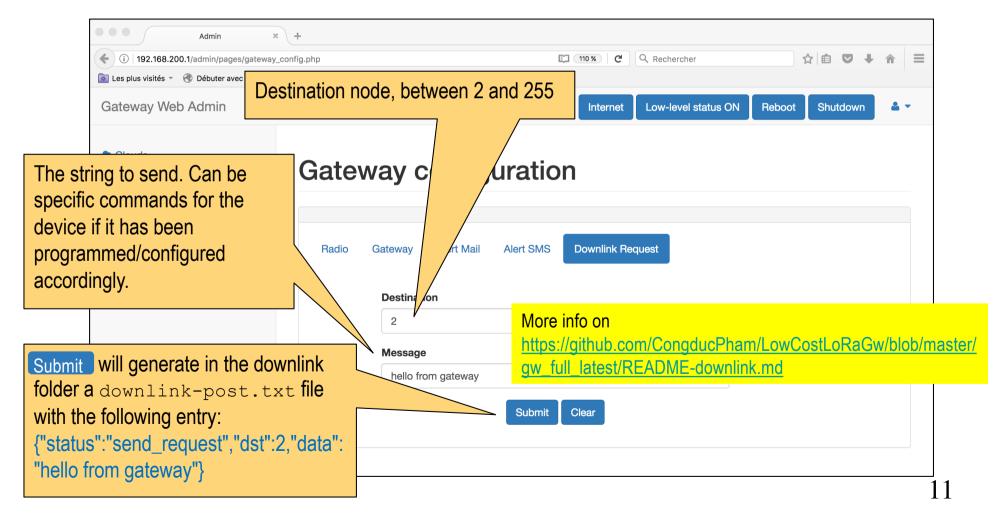
☐ Gateway SMS alerting section





MAIN GATEWAY CONFIGURATION (5)

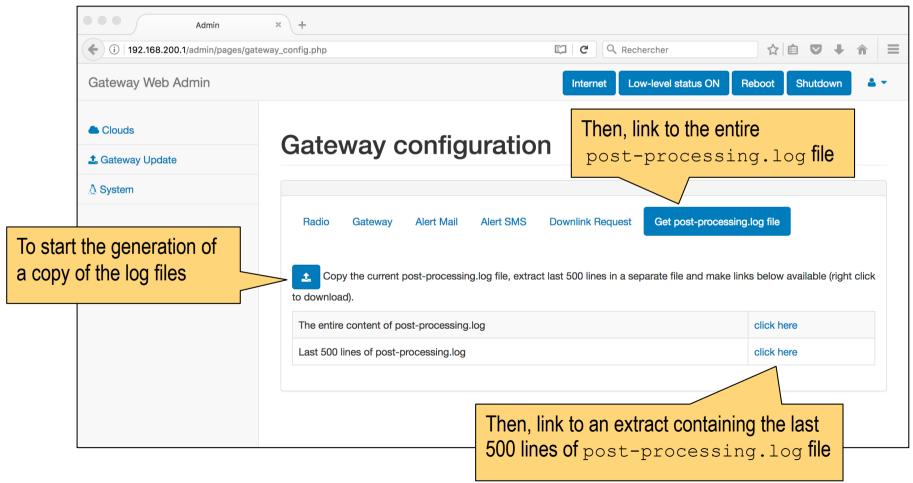
Gateway generating downlink messages





MAIN GATEWAY CONFIGURATION (6)

Gateway log files section





- ☐ The "Get post-processing.log file" option is a convenient way for an end-user to obtain the log file that can be sent (mail) to an experienced user for analysis or debug purposes.
- ☐ The entire post-processing/log file can be obtained, or
- Only the last 500 lines
- The last feature can be used by an end-user to see whether data have been recently received from end-devices or not



Gateway update section

(i) 192.168.200.1/admin/pages/gatew 🔯 Les plus visités 🛞 Débuter avec Firefox [Gateway Web Admin provided, e.g. a Dropbox link Clouds Gateway Configuration

Can download and install a file in the lora gateway folder. A link to a file should be Update the web admin interface after an update of the distribution to install the last version of the web admin interface.

It is recommended to run Update web admin right after Full update or New installation Then reload the page.

Update web admin interface

Gateway Update

New installation

te of current distrib

Install a new gateway by removing the existing lora gateway folder, all existing configuration files will be overwritten.

∆ System

If you install a new gateway with our SD card image, you can use this option.

teway, erasing all existing configuration Custom SSID will b erved. May take minutes, wait for finish not

Basic config

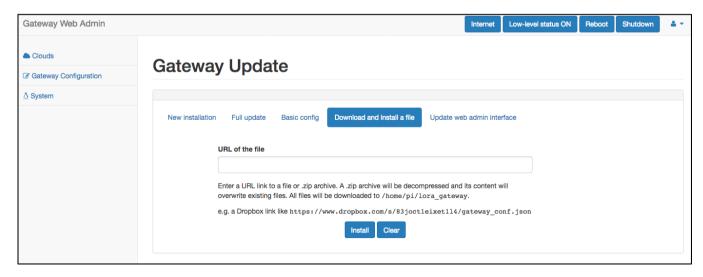
17-12-22 08:10:47.292835832 +0100

Update with latest version on github, all your configuration files will be kept. This is the recommended option.

Compile and configure the gateway (to set the gateway id & the WiFi access point SSID). This is also required if you install a new gateway using the provided SD card image. It is recommended to run Basic config right after Full update or New installation

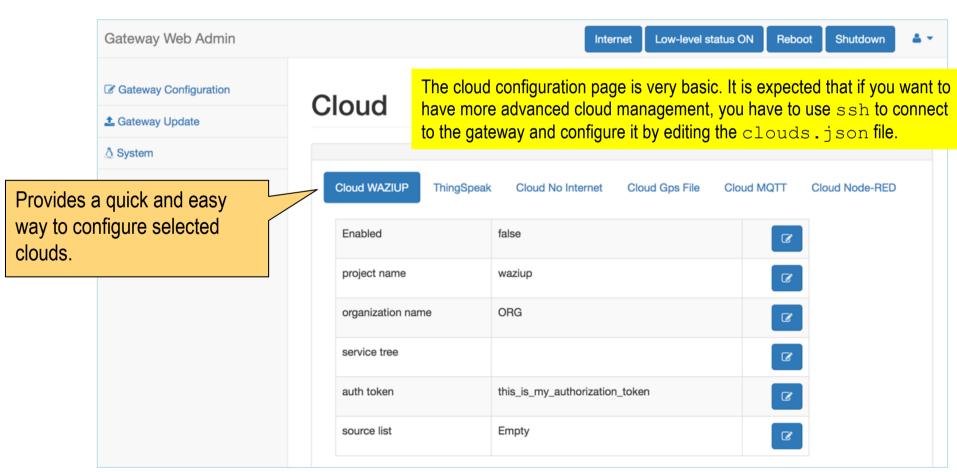
BOWNLOAD & INSTALL A FILE

- ☐ The "Download and install a file" option is a convenient way to install a configuration file
 - ☐ For instance, a customized radio.makefile file can be edited by an experienced user, then put on Dropbox and the link provided to an end-user (mail, SMS,...)
 - ☐ After installation, the end-user can use "Basic config" to recompile the gateway program and then reboot



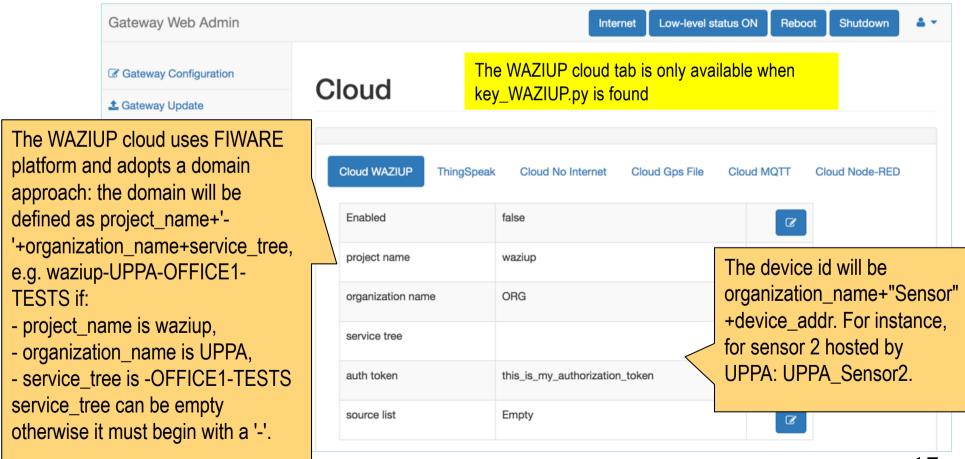


Gateway cloud configuration section





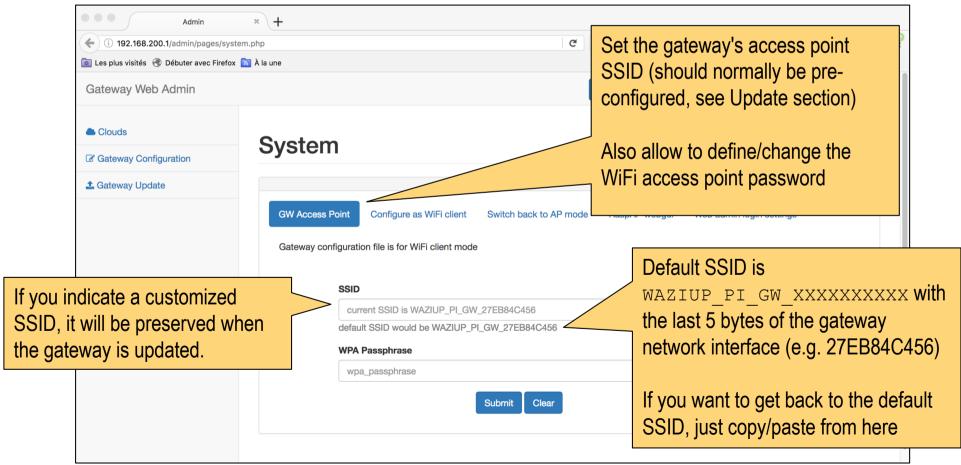
Configuring WAZIUP cloud





GATEWAY SYSTEM CONFIGURATION (1)

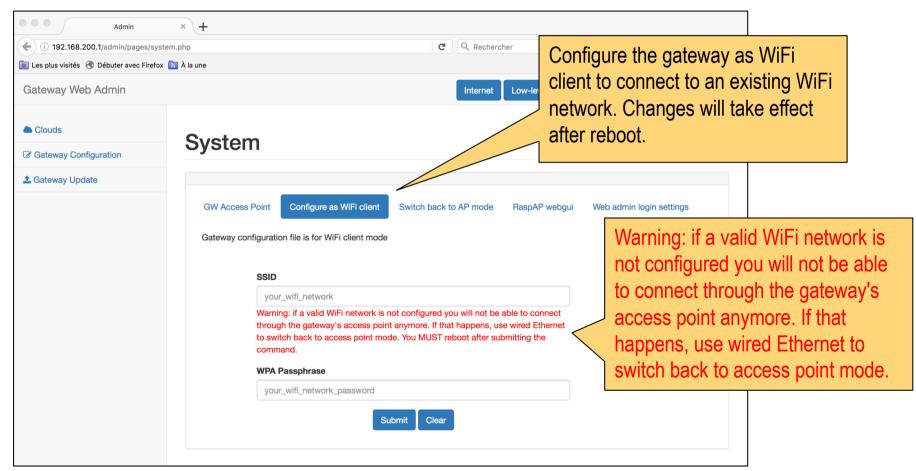
□ Gateway WiFi access point





GATEWAY SYSTEM CONFIGURATION (2)

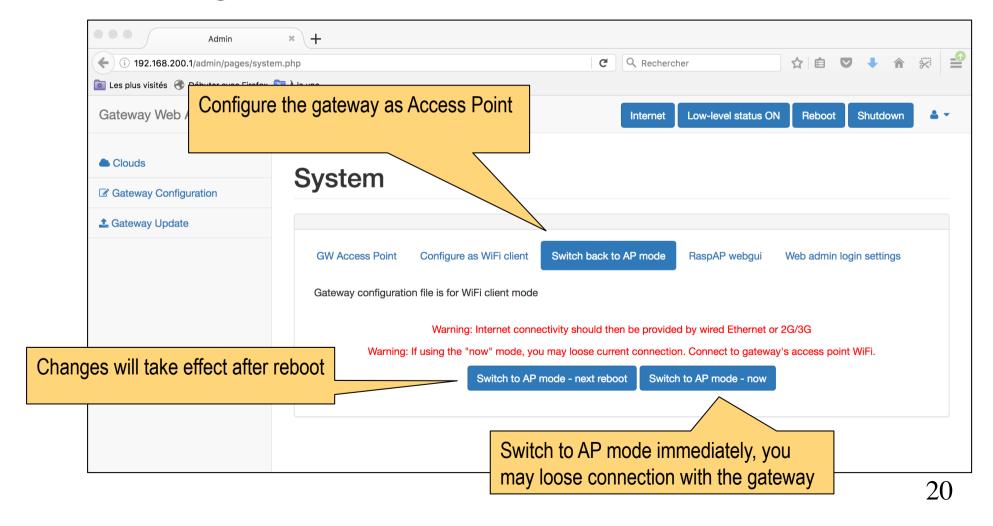
Configure as WiFi client





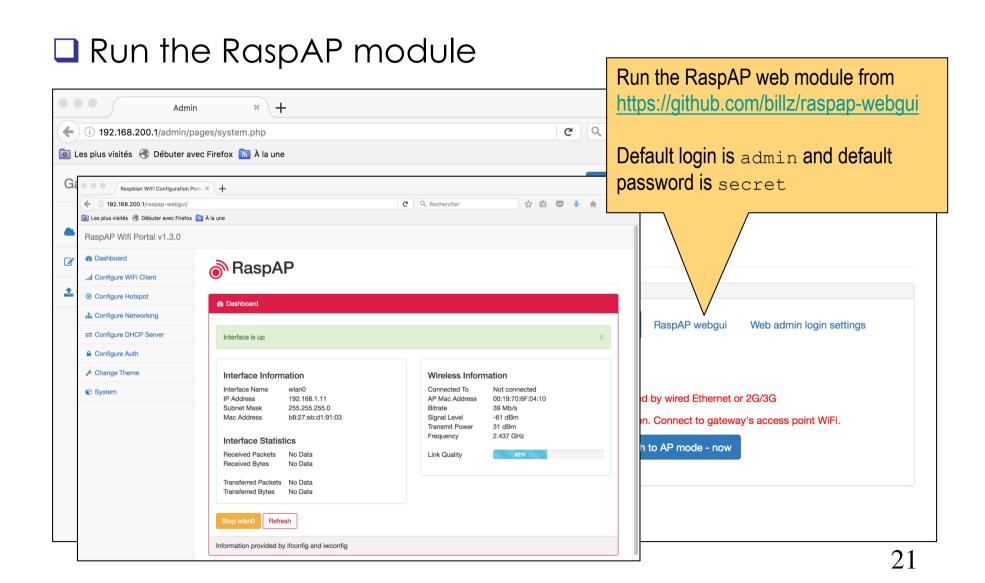
GATEWAY SYSTEM CONFIGURATION (3)

Configure as WiFi Access Point





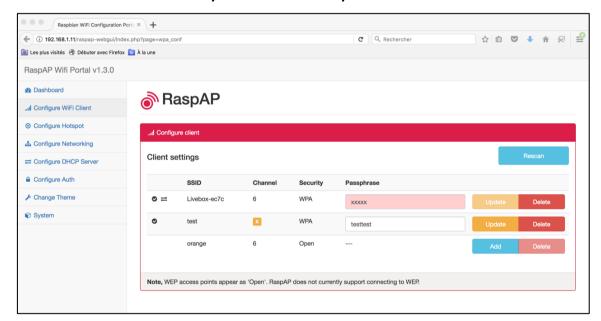
GATEWAY SYSTEM CONFIGURATION (4)





GATEWAY SYSTEM CONFIGURATION (5)

■ RaspAP can configure some networking functions. It can be useful for dynamically select WiFi networks



□ However, it is recommended to use our web admin interface to control WiFi client <-> Access Mode feature



GATEWAY SYSTEM CONFIGURATION (6)

Configure auth for web admin interface

