LOW-COST LORA GATEWAY: WEB ADMIN INTERFACE





PROF. CONGDUC PHAM HTTP://www.univ-pau.fr/~cpham Université de Pau, France





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
- ☐ Let's get started...



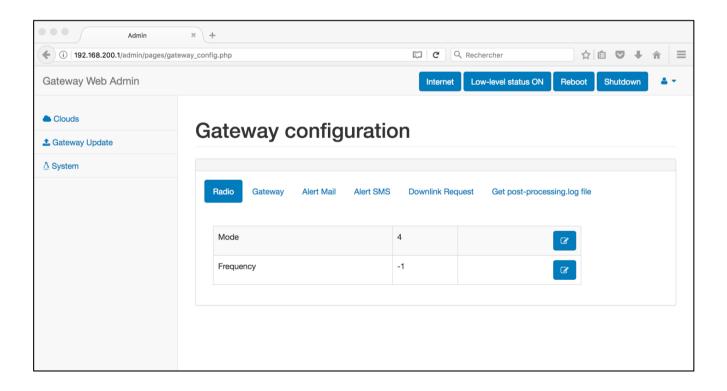
GATEWAY WEB ADMIN INTERFACE (1)

- 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





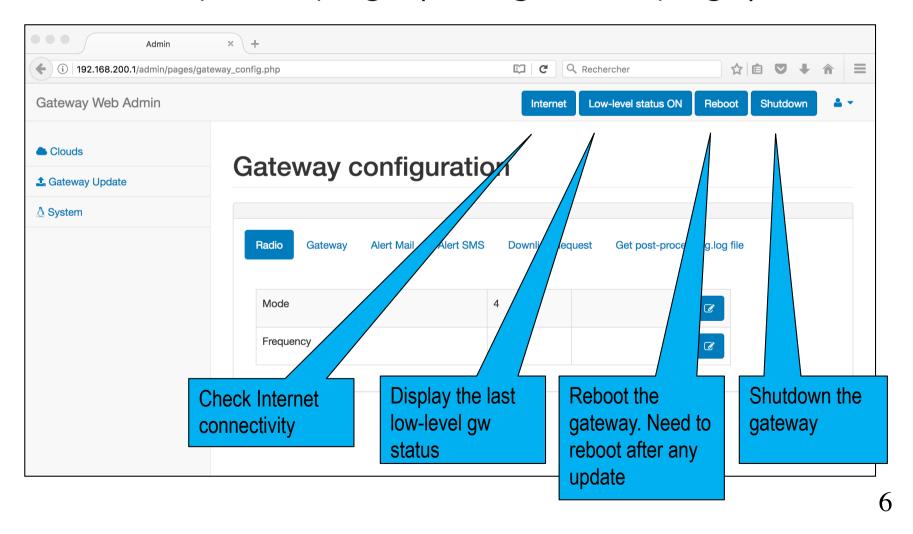
WEB ADMIN FEATURES

- Currently, you can use the web admin to:
 - 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)
 - ☐ Update your gateway with the latest github version and perform the basic configuration procedure
 - Upgrade your gateway by preserving your configuration files
 - 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



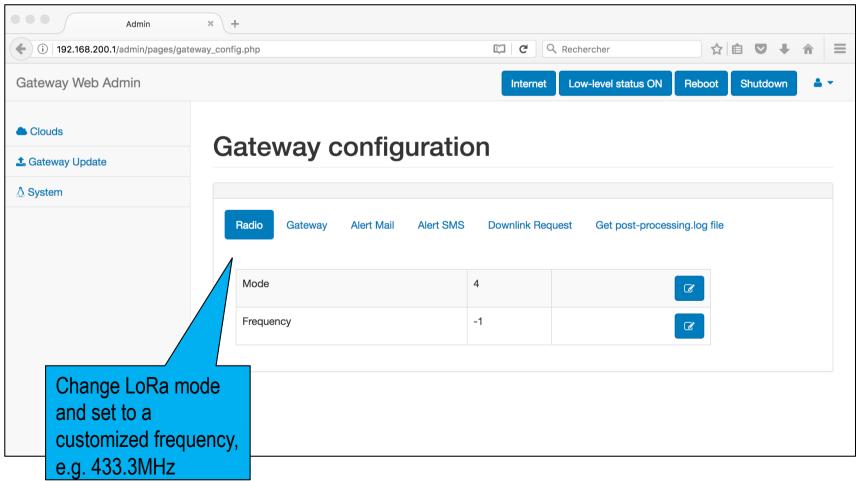
GATEWAY MAIN PAGE

Gateway main page (configuration page)



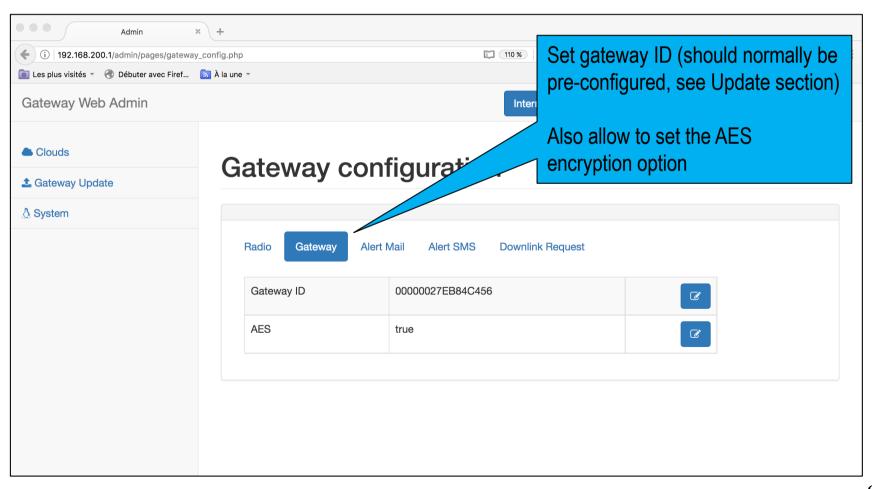


Gateway radio configuration section

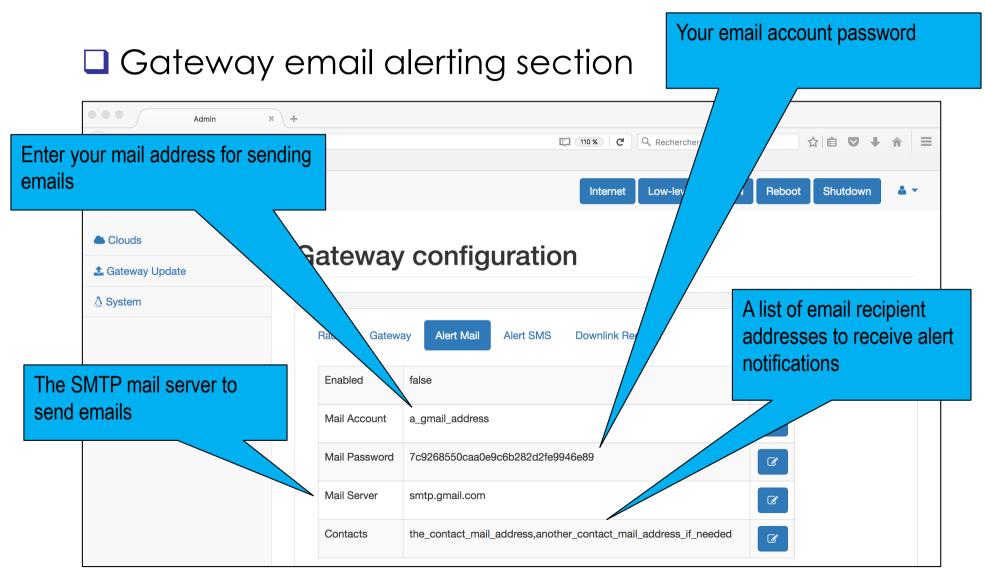




Gateway configuration section

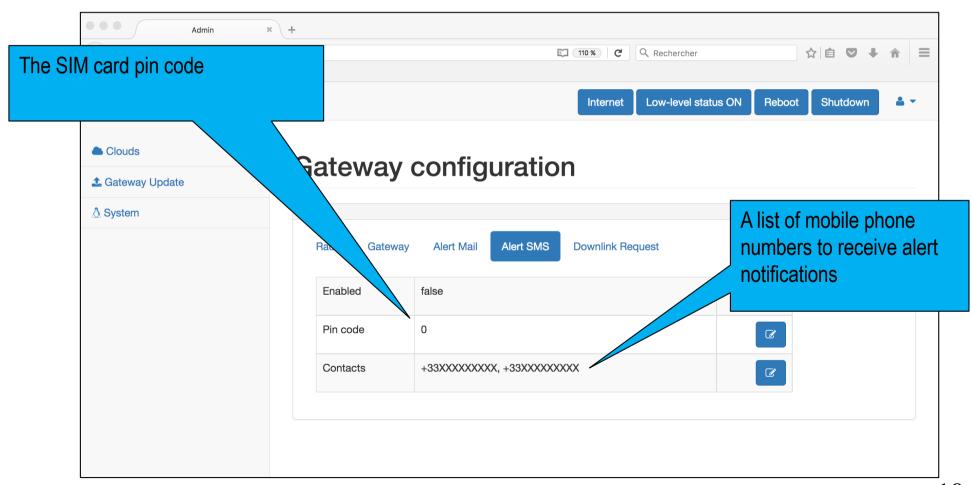






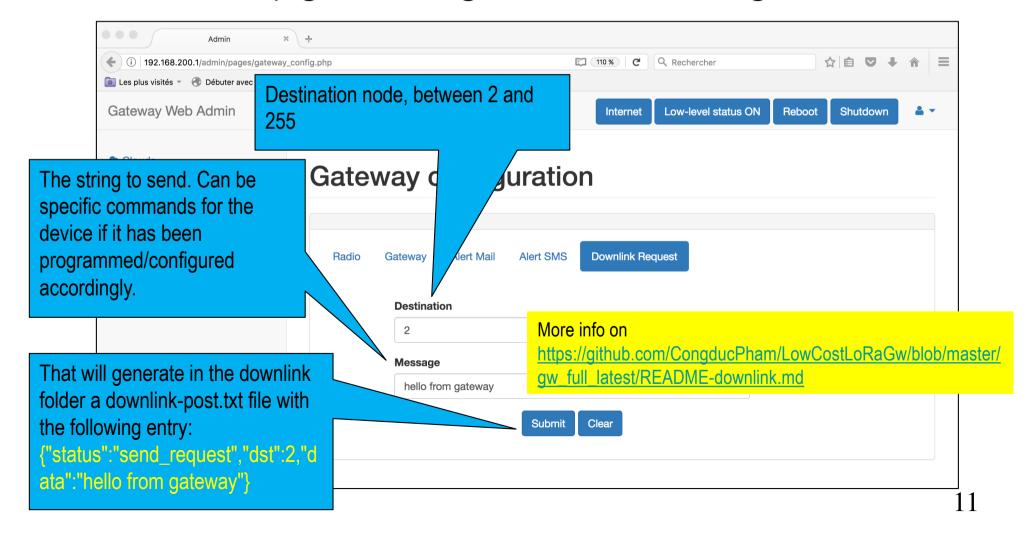


☐ Gateway SMS alerting section



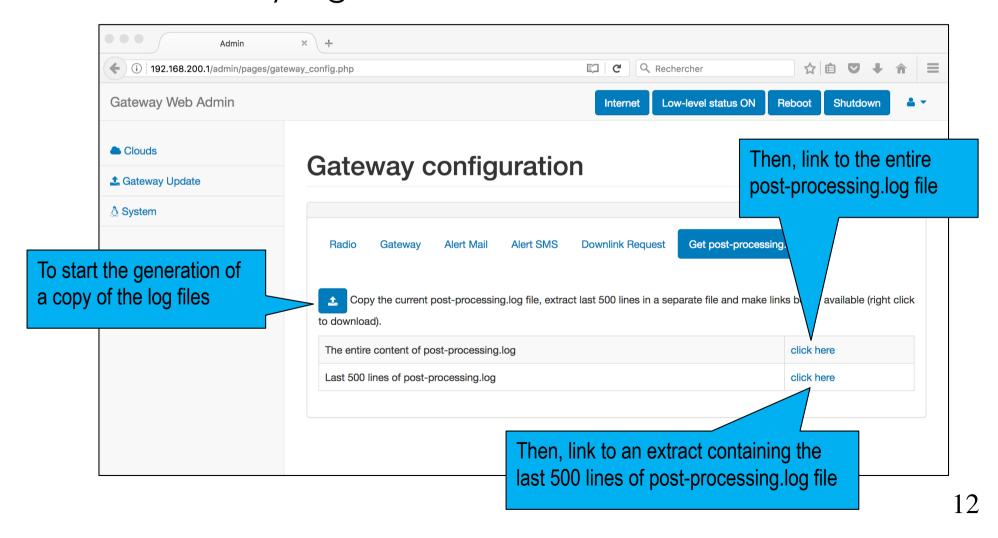


Gateway generating downlink messages



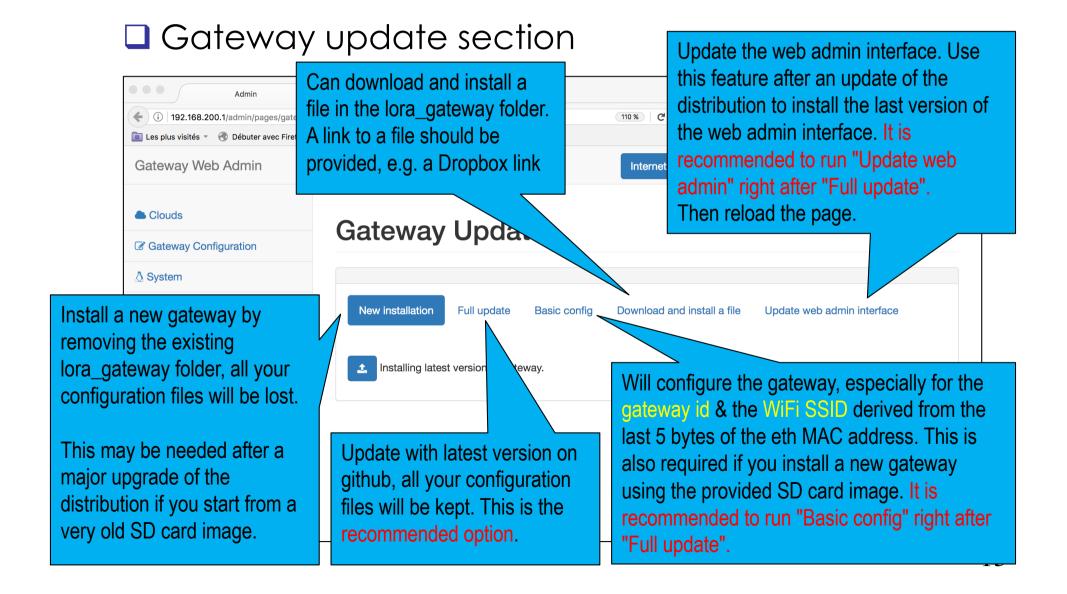


Gateway log files section



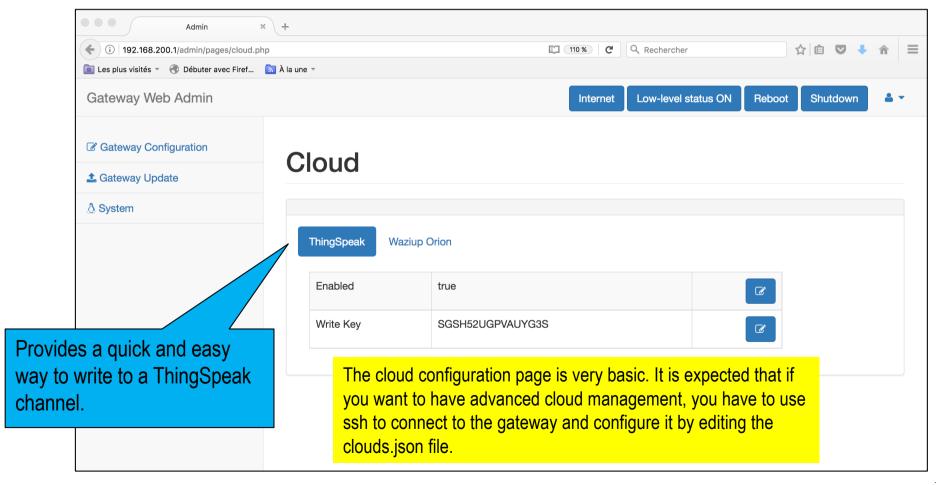


GATEWAY UPDATE PAGE



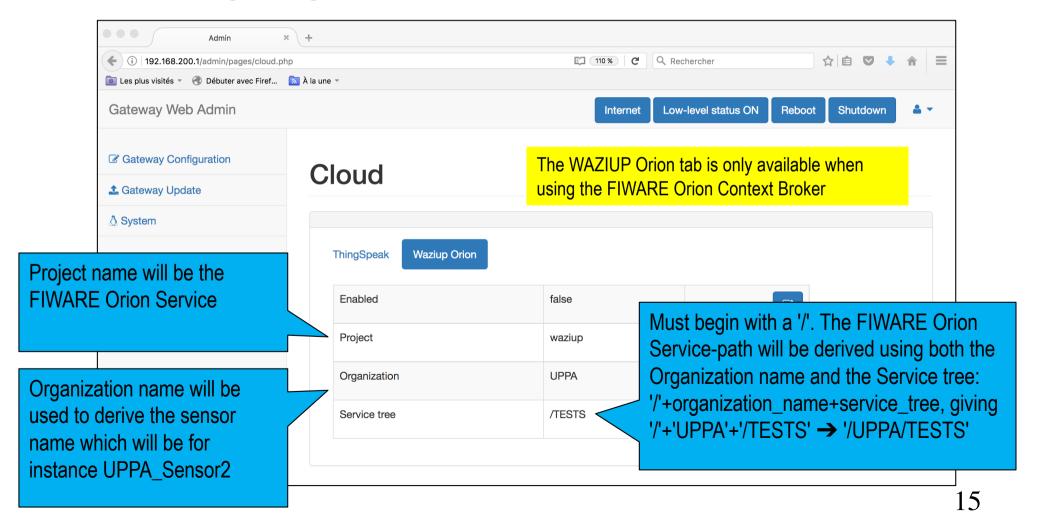


Gateway cloud configuration section





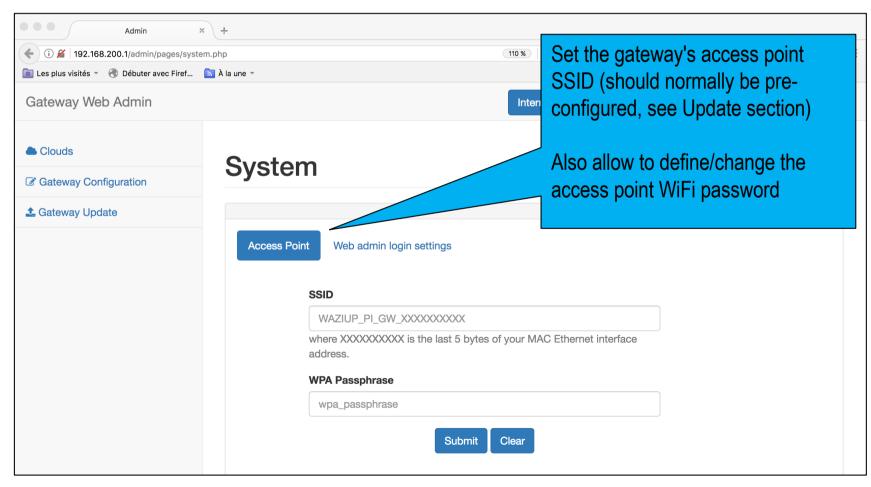
Configuring WAZIUP Orion cloud





GATEWAY SYSTEM CONFIGURATION (1)

□ Gateway WiFi access point





GATEWAY SYSTEM CONFIGURATION (2)

Gateway web admin interface

