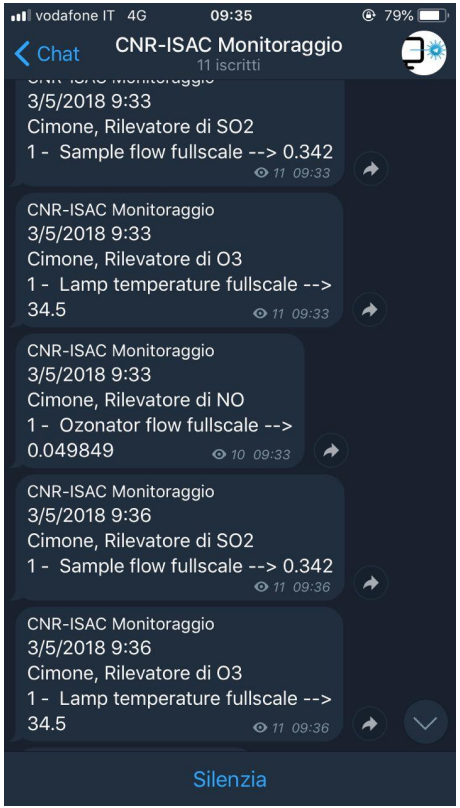
AlertInstruments

A collaboration between E. Fermi and CNR-ISAC

Main Goal

The purpose of this project was to be able to interrogate some tools into the laboratory situated on the Monte Cimone and to check that these detected data were between specific ranges. If not, an alert would be sent to inform the person that has to fix the problem.



Composition of the project

- a python script to interact with the tools
- a json file used as a database containing the ranges
- a log file for any alerts
- a Telegram bot to send alerts to interested users
- website Monitoraggio

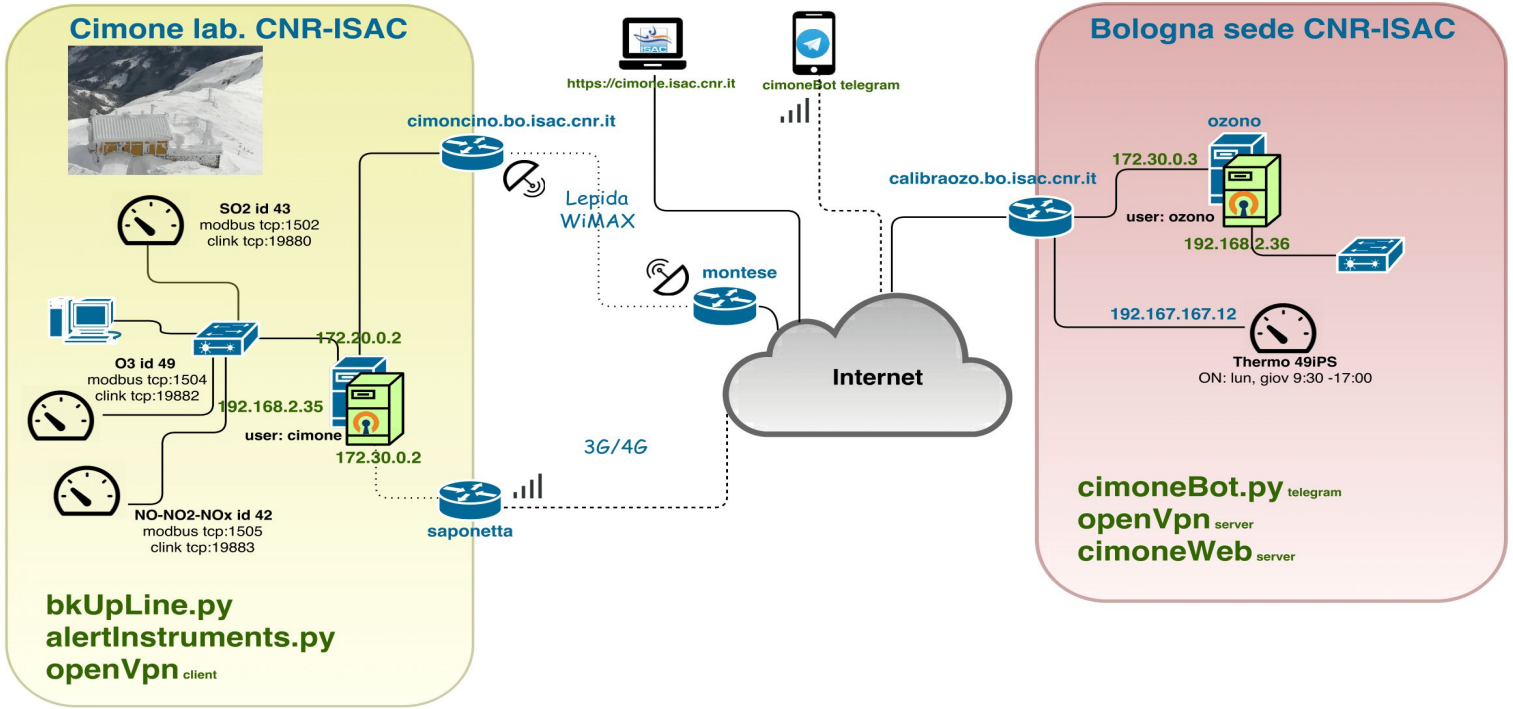
External materials

CNR researchers provided us some useful materials including:

- a text file containing the ranges
- a documentation with all the necessary information about every tool
- a python script with pre-set classes for each tool
- a Linux virtual machine that simulates the server placed into the laboratory on the Cimone

ITI Fermi

CNR-ISAC



rev: 2018-02-22

Differenze tra MODBUS e C-Link

MODBUS:

- Livello 7 ISO-OSI (Application)
- Richiesta/risposta PDU
- Più istruttivo

C-Link:

- Livello 4 ISO-OSI (Transport)
- Utilizzo tecnologia socket
- Più semplice ed intuitivo

Bot Telegram

CNR-ISAC Monitoraggio 13 10:04:06

3/5/2018 10:3

Cimone, Rilevatore di SO2

1 - Sample flow fullscale --> 0.342

CNR-ISAC Monitoraggio 15 10:04:06

3/5/2018 10:3

Cimone, Rilevatore di O3

1 - Lamp temperature fullscale --> 34.5