Documentation for user monitoring interface

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In this documentation, I will show you how to install, start and use the client interface and the server.

INSTALLATION AND LAUNCH

The interface was built using python, the PyQt5 library, psutil library.

The first step is to have python installed on your computer.

The second step is to install the PyQt5 library and psutil library.

Once, these two steps accomplished.

You have to get the file python client.py and server.py which is on github.

link from github :

https://github.com/Grievous400/R309/tree/master/Sae

The third step is to launch the python program:

Now you have to go with your command prompt to the folder where the client.py file is located. You can also open the file with a python interpreter.

if you make with command prompt to launch the python file, you must write in your command prompt: “python3 client.py”. Repeat the same thing for the server.

If this does not work, try the following command: “python client.py”.

Normally if all the steps have been done correctly, you should see a graphical interface appear.

PRESENTATION OF THE CLIENT INTERFACE

In this part, I will explain how to use the client interface:

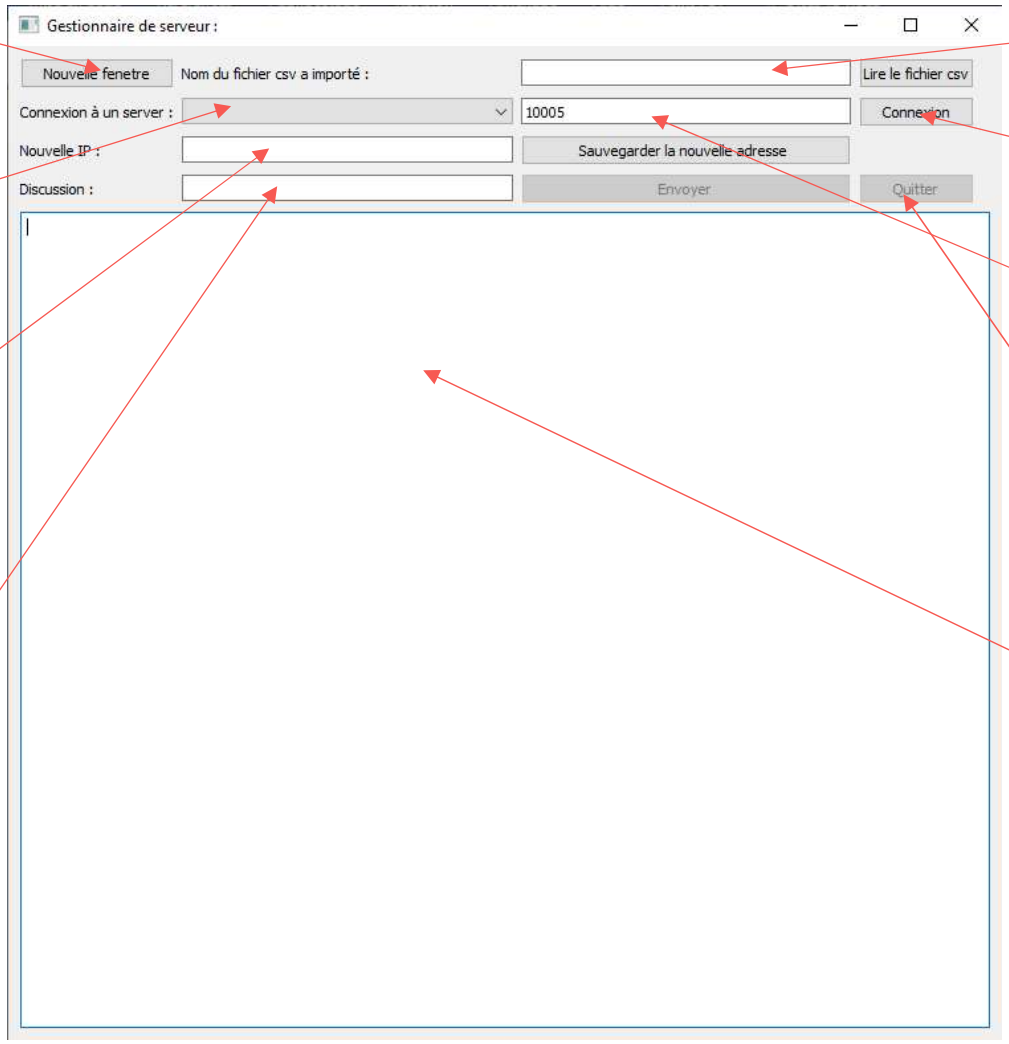
I will start by presenting you the different parts of the client interface.

Opening another window of the application

List of all registered IP addresses

Add an ip address to the address list and to the csv if there is an imported csv

Command sent to server



Name of your csv file to import :

Button for connecting to a server

Port on which the server is hosted

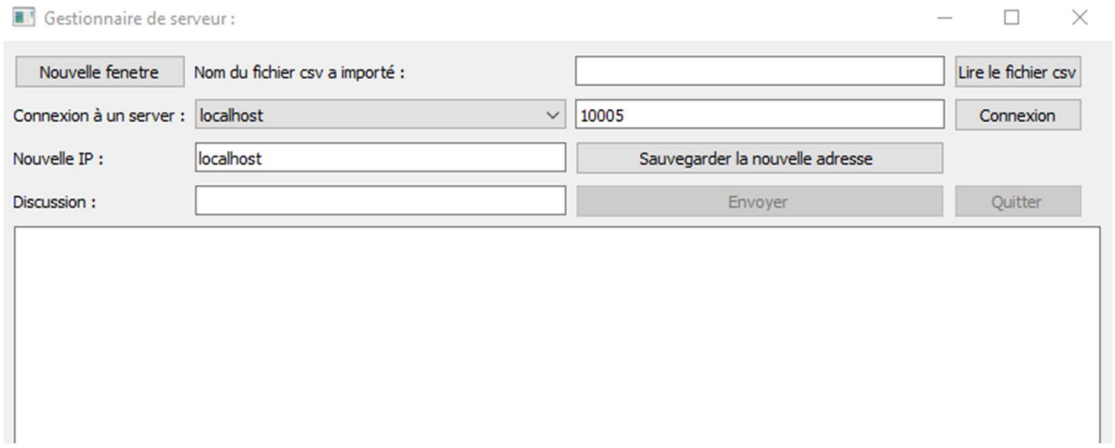
Quit button to disconnect from a server

Text area where the commands made and the server's answers appear

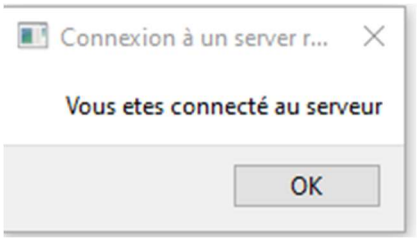
USE OF APPLICATION

Once the server is launched, you do not need to touch it anymore.

By default, the client and server port are 10005. I will show you an example of connecting to a server. In this example, the server is on the same machine as my client so we will use the localhost address. You can import it via your csv file or save it directly via the interface. The format of the csv must be one address per line. I registered it via the interface and the address goes directly to the first address in the address list.



Once this is done, you can press the connected button. If you are connected, you will have a pop-up like this:



Once connected, you can send commands to the servers. You can write the commands in upper or lower case it doesn't matter. I will list the possible commands:

Disconnect	Disconnects the client from the server
Kill	Kills the server
Reset	Reset the server
OS	Return the server os

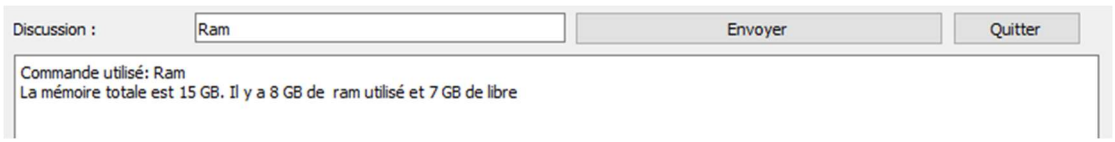
Ram	Return the used ram, the free ram and the total ram
Cpu	Return the processor usage over 5 seconds
Connexion information	Return the server name and its ip address
Ip	Return the ip address
Name	Return the server name
Python –version	Return the version of python
Ping address ip	Return the ping result of any address
Dos:command Linux:command Powershell:command Mac:command	Return the result of any command, as long as you specify which OS you are on. For windows, you can do in dos or in PowerShell.
Clear or cls	deletes the history of orders

To send commands, you must write in the chat line. Once the command is written, you must press the "envoyer" button to send it to the server.

To continue our example after the explanation of the different existing commands. We will test them:

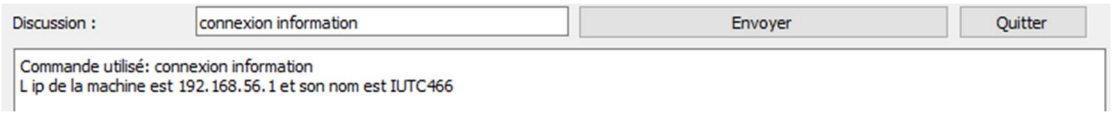
OS:

RAM:

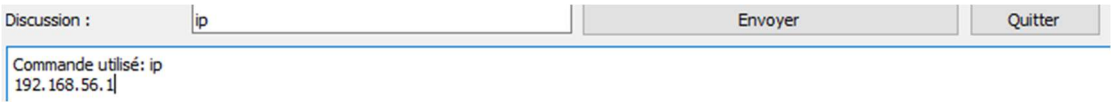


CPU:

Connexion information:



IP:

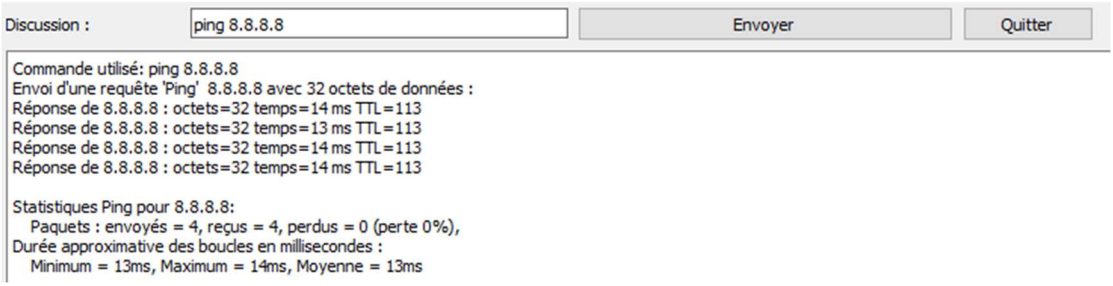


Name:

Python –version:

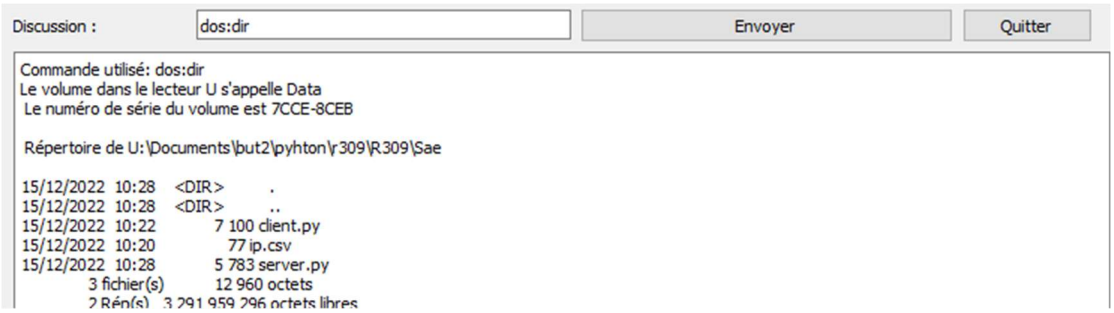
Ping:

For example, I will ping google so 8.8.8.8



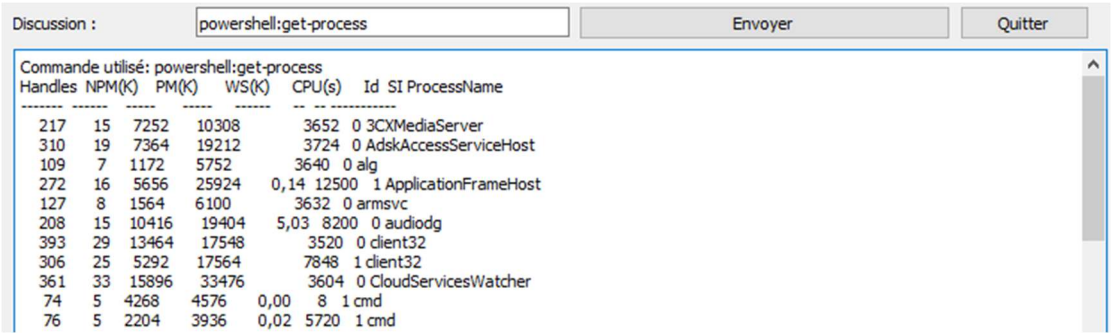
Dos:command

For example, I will test with the dir command



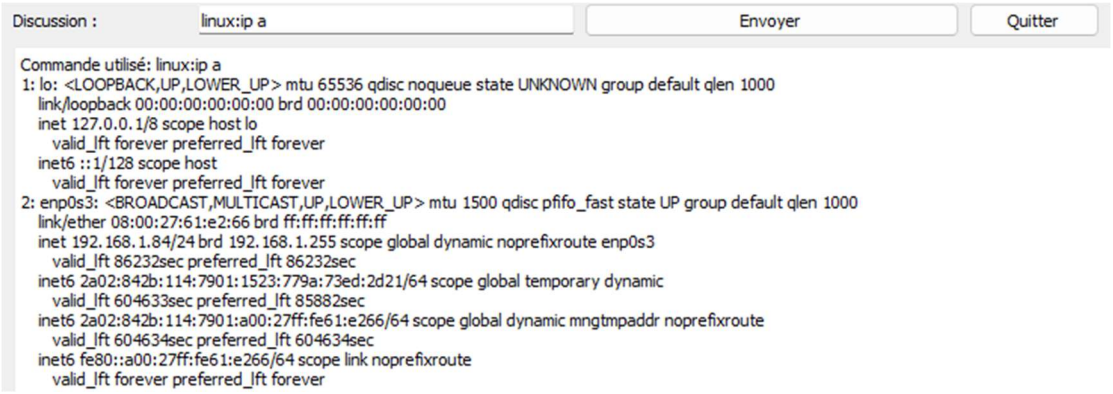
Powershell:command

For example, I will test with the get-process command



Linux:commad

For example, I will test with the ip a command



To disconnect from the server, you have two options. The first is to press the "quit" button and the second is to send "disconnect" as a command.

Now you are ready to use the client and server interface and you know all the possible commands.