

USER MANUAL

Server or client machine monitoring interface



Before installing the client :

Make sure you have the latest version of Python (3.11).

In case of doubt, please download and install this version in order to avoid some errors for which I am not responsible.

<https://www.python.org/downloads/>

First step of the installation :

You will have to install with the tool "pip3" its modules to have a functional application. These modules are mandatory :

- **pip3 install PyQt6** (Client side)
- **pip3 install ipaddress** (Client side)
- **pip3 install psutil** (Server side)

The client and / or the server will refuse to run without these modules.

Second step of the installation :

The source code is not meant to be changed, please leave the host address "0.0.0.0" and the port "10000" on the server. To find the information to connect to the remote server, please refer to the user manual.

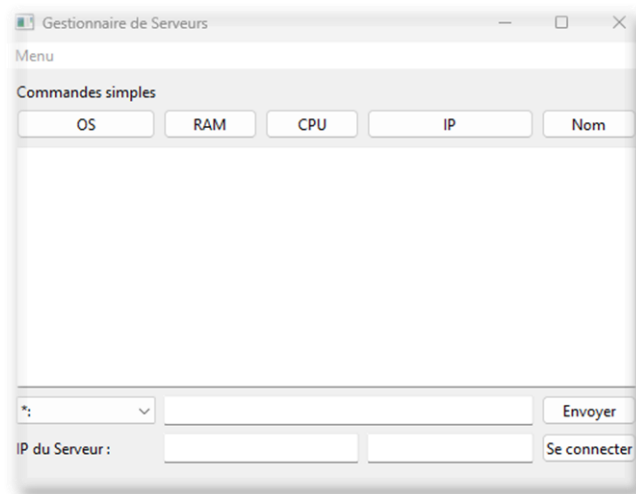
Place the "**serveur.py**" application on the machine you want to monitor, and the client on the machine you want to administer from.

Launch with the interpreter the 2 applications.

After installing the client :

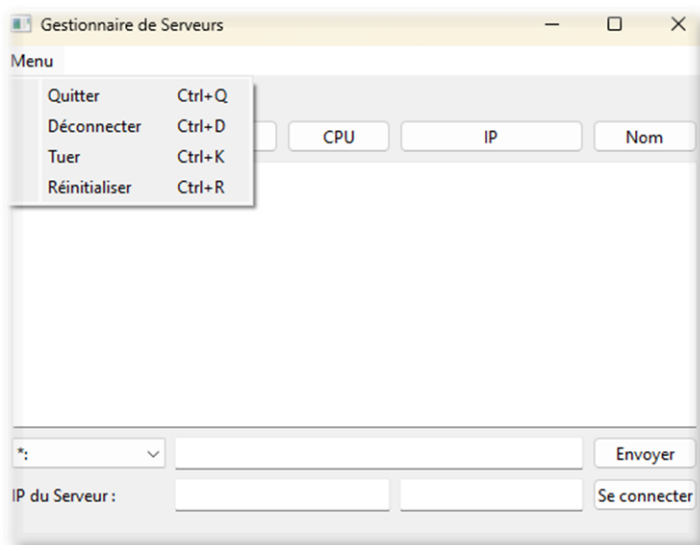
You should see an interface presented like this.

To present the application in a general way, you can find at the top left a menu allowing the management of the connected server, below this one, you can find simple commands to send to the server, in the center of the application you will find all the answers to the commands as well as the information messages concerning the state of connection with the server and the possible error messages.



Just below this display, you can find the text area for entering commands, and just below the area for entering the server's login to connect.

The top-left menu :



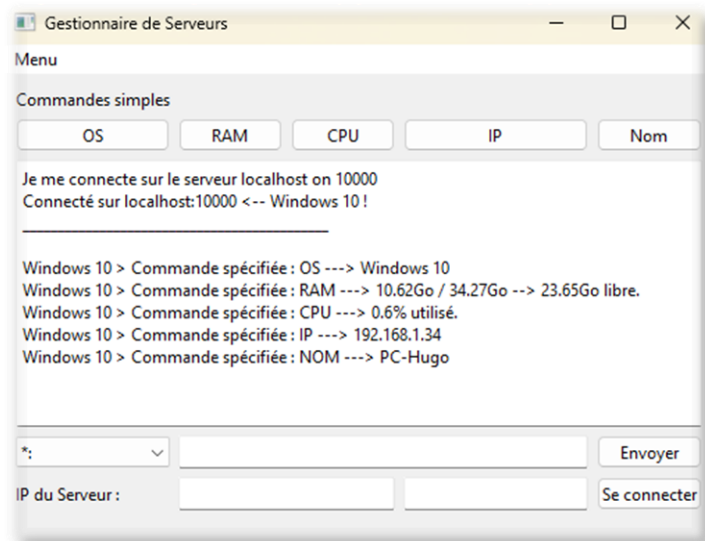
This menu has 4 functions. « Quitter », which allows you to close the application (an alternative to the exit cross), « Déconnecter » which allows you to disconnect from the server with which you are connected, « Tuer » which allows you to close the server with which you are connected, and « Réinitialiser » which allows you to disconnect and restart the socket of the server with which you are connected.

All of these functions require to be connected to a server.

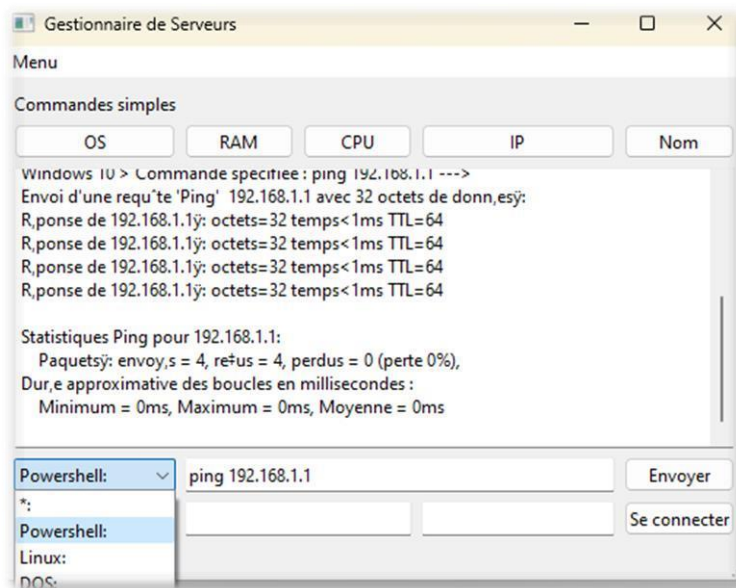
The simple commands menu :

This menu has 5 simple commands. « OS » to retrieve the operating system running and its version, « RAM » to retrieve the number of GB used / the number of GB Total (also showing the number of free GB), « CPU » to show the load of the CPU at the time of receipt of the command, « IP » to retrieve the private IP or the localhost IP (Sometimes, it shows nothing, that's an issue with the Virtual Machine) and you have « Nom » which allows you to display the name of the computer.

All of these functions require to be connected to a server.



Command area :



This space allows the user to send commands to the server he is connected to. He can choose between "Powershell:" for Windows, "Linux:" for Linux, "DOS:" for Mac OS and "*" if the user wants to let the interface interpret the command regardless of the server shell.

As the communication between the client and the server is done synchronously, interactive commands are either passed or forbidden.

All of these functions require to be connected to a server.

Connection area :

This area allows you to connect to any server. You just have to enter in the first part the IP address of the server (127.0.0.1 or localhost if the host machine is the one of the client, the IP address of the remote machine if the host machine is a virtual or remote machine). You must enter in the second part the port of the server, **it will be 10000** for us. In case of problem of connection, please check that the machine is well in your network, otherwise restart the server then the client.

