SETTING UP CLOUD ENVIRONMENT

1. Downloading the AzureVPN :

a. Windows Client : https://learn.microsoft.com/en-us/azure/vpn-gateway/point-to-site-entra-vpn-client-windows
b. Linux Client : https://learn.microsoft.com/en-us/azure/vpn-gateway/point-to-site-entra-vpn-client-linux
c. MacOS Client : https://learn.microsoft.com/en-us/azure/vpn-gateway/point-to-site-entra-vpn-client-mac

NOTE : *If you use MacOS, there is a chance the client may not work !*

2. Set up MFA :

You will need multi factor authentication (MFA) set up on your Microsoft Account to connect to the VPN. If it isn't set up yet, a window helping you will open on your first connection attempt. If you need help, consult this support : https://support.microsoft.com/en-us/office/set-up-your-microsoft-365-sign-in-for-multi-factor-authentication-ace1d096-61e5-449b-a875-58eb3d74de14

3. Install the conda environment & the github repository

Simply, configure your conda environment with Python 3.10.4 and by following the requirements.txt. Then activate it.

Install CARLA using the repository, by using :

- Git : https://github.com/carla-simulator/carla
- Downloading the files directly : https://github.com/carla-simulator/carla/releases

In order to use the library in your code, move the /Modules folder which you will receive into the /PythonAPI folder of your CARLA installation.

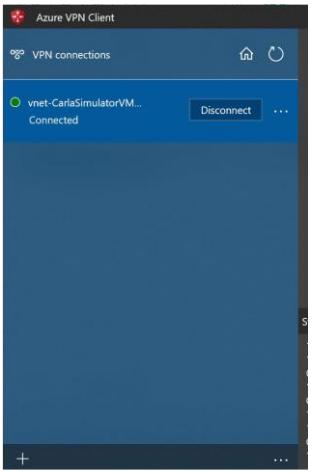
4. Start the client

Finally, open a terminal in the folder containing your python files directly, or run :

cd <path-to-Carla>\carla-0.9.15\PythonAPI\Modules

Then, verify that you are connected to the Azure VPN in the client and activate your conda environment with :

conda activate your_carla_environment_name



Then run :

python manual_control.py –host 192.XXX.XX.XX

(your host ID, ask you IT support of your company to know it)

This will open a nexample application (remote control) on the client and run your script on the remote machine. Different files may require additional arguments, but you always need to specify the host or it will try to run on your local machine.