API installation

Installation instructions for Windows OS

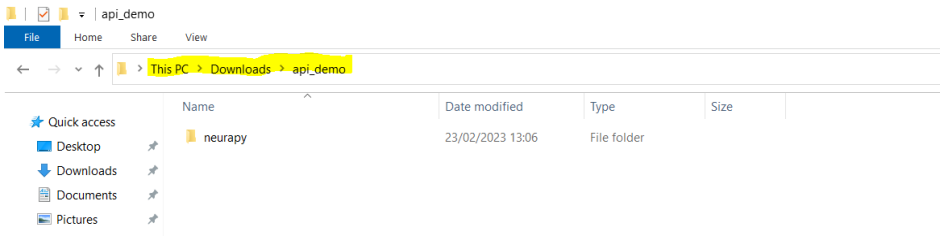
Python 3.8 installation:

- Download the python 3.8 exe file from the official python site and initiate the installation.
- Please tick the add python 3.8 to path box and proceed with the install now option

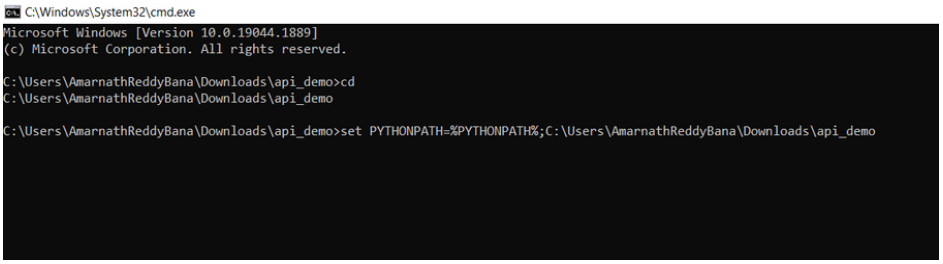
- Close the setup, once the installation is complete

Installation of Neurapy

- Download neurapy for windows and navigate to the location, where neurapy is downloaded.
- Open command prompt from the location where neurapy is downloaded (type “cmd“ in address bar or Alt+D and cmd and Enter).

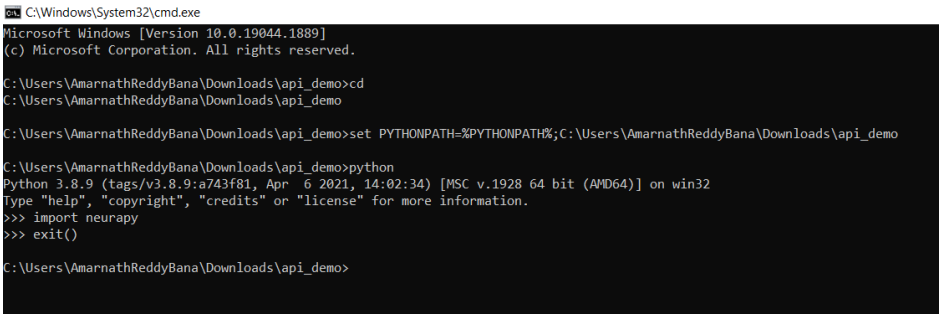


- Get the current location using “cd“ command in command prompt and append the current location to python path



open cmd from address bar
cd # to get the current location
set PYTHONPATH=%PYTHONPATH%;<location obtained from previous command>

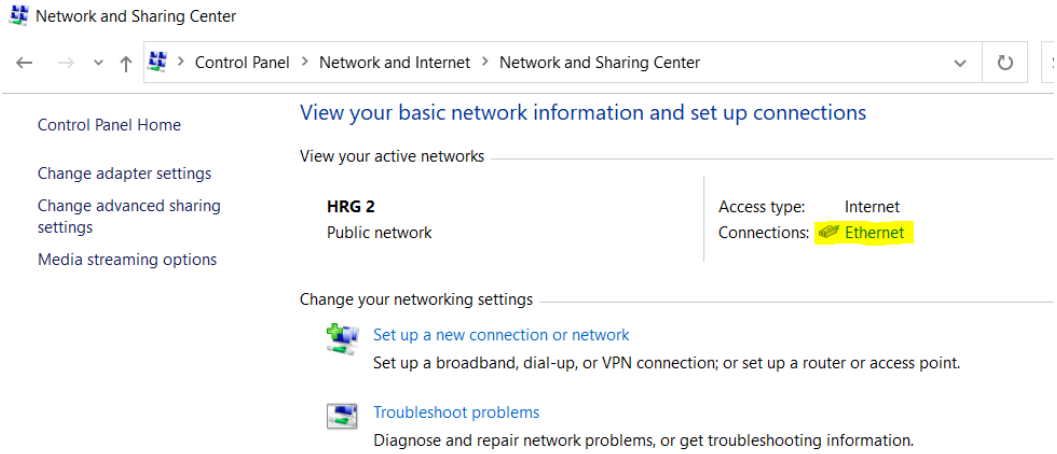
- Open python terminal from command prompt after setting the python path. API can now be imported in python console.

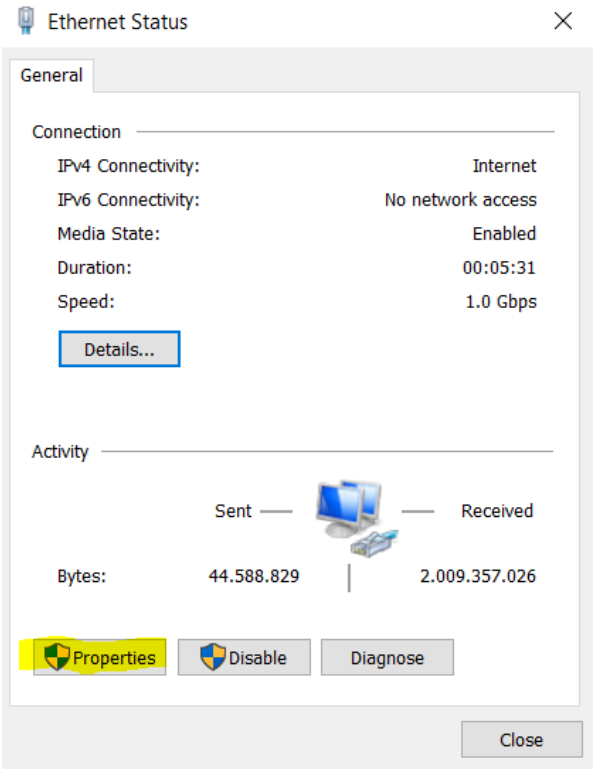


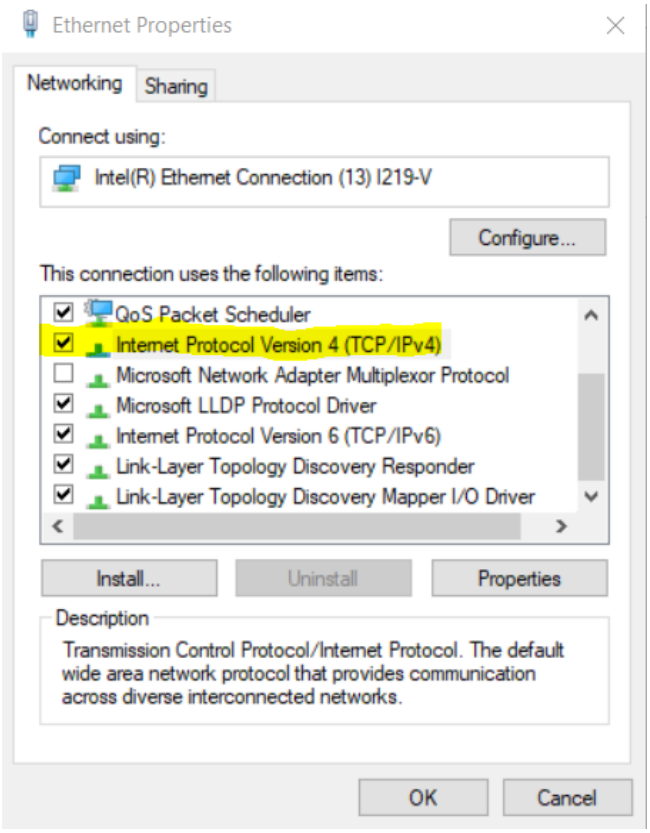
Network Configuration

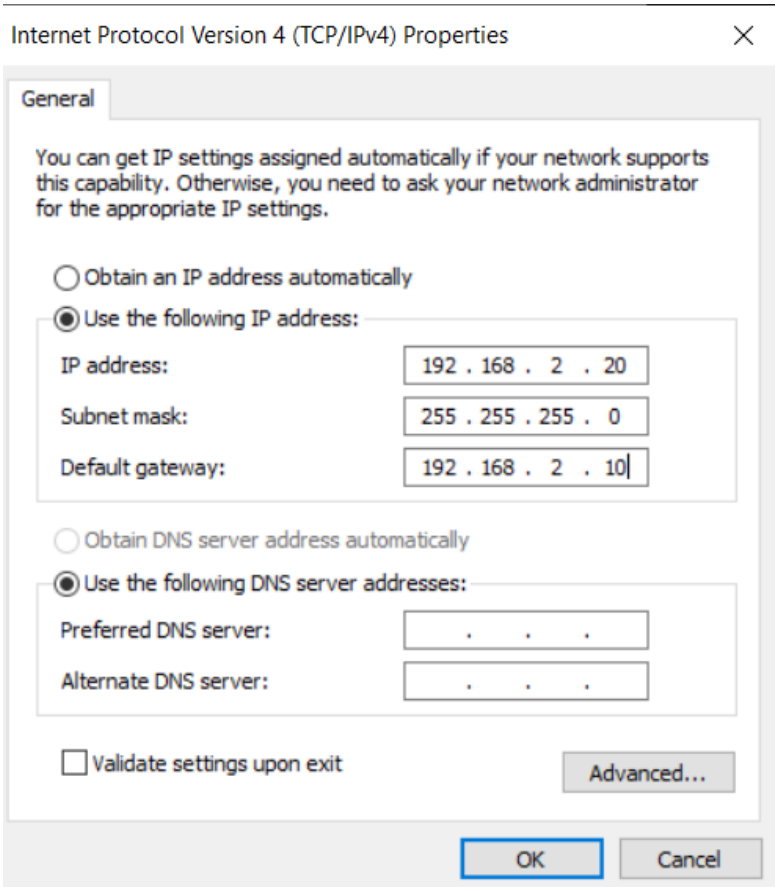
Configure the network in a following way, if robot needs to be controlled via external machine connected through ethernet.

Control Panel → Network status and tasks → Ethernet → properties → ip4 setting






Ethernet Properties
Networking
Sharing
Connect using:
Intel(R) Ethernet Connection (13) I219-V
Configure...
This connection uses the following items:
QoS Packet Scheduler
Internet Protocol Version 4 (TCP/IPv4)
Microsoft Network Adapter Multiplexor Protocol
Microsoft LLDP Protocol Driver
Internet Protocol Version 6 (TCP/IPv6)
Link-Layer Topology Discovery Responder
Link-Layer Topology Discovery Mapper I/O Driver
Install...
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK
Cancel


Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 2 . 20
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 2 . 10
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel

Installation instructions for Ubuntu

Installation of NeuraPy

NeuraPy API is currently supported only for ubuntu 18 and ubuntu 20.

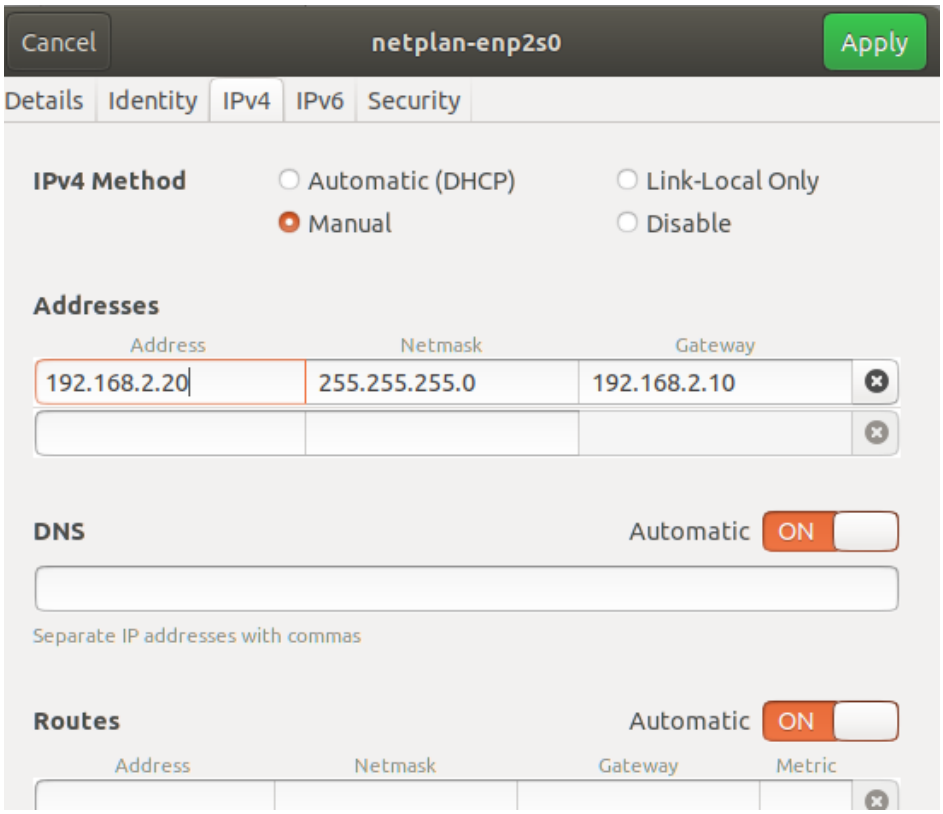
- Check the version of ubuntu . Open the terminal and type following command

  lsb_release -a

- Depending on the version of the ubuntu, download and navigate to respective folder of the neurapy(neurapy_ubuntu18/neurapy_ubuntu20) and execute deploy_neurapy.sh
  script located inside the downloaded folder with LARA5(respective robot name) argument like below.
- cd neurapy_ubuntu18 or neurapy_ubuntu20
  . deploy_neurapy.sh LARA5 #respective robot name

Network Configuration

When robot is controlled via external machine, connected through ethernet, network needs to be setup on the external machine with the following configuration



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