

API installation

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Installation instructions for Windows OS

Python 3.8 installation:

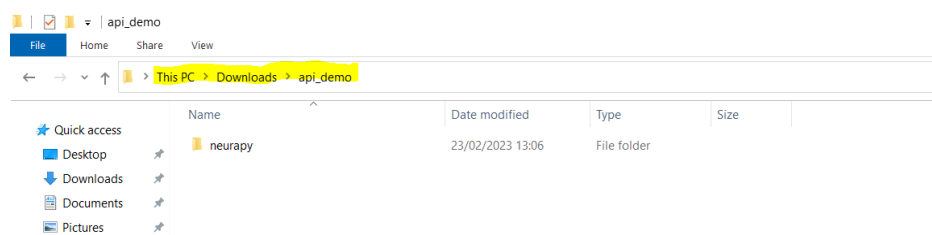
- [Download](#) the python 3.8 exe file from the official python site and initiate the installation.
- Please tick the add python 3.8 to path box and proceed with the install now option



- 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

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

C:\Users\AmarnathReddyBana\Downloads\api_demo>cd
C:\Users\AmarnathReddyBana\Downloads\api_demo

C:\Users\AmarnathReddyBana\Downloads\api_demo>set PYTHONPATH=%PYTHONPATH%;C:\Users\AmarnathReddyBana\Downloads\api_demo
```

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.

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

C:\Users\AmarnathReddyBana\Downloads\api_demo>cd
C:\Users\AmarnathReddyBana\Downloads\api_demo

C:\Users\AmarnathReddyBana\Downloads\api_demo>set PYTHONPATH=%PYTHONPATH%;C:\Users\AmarnathReddyBana\Downloads\api_demo

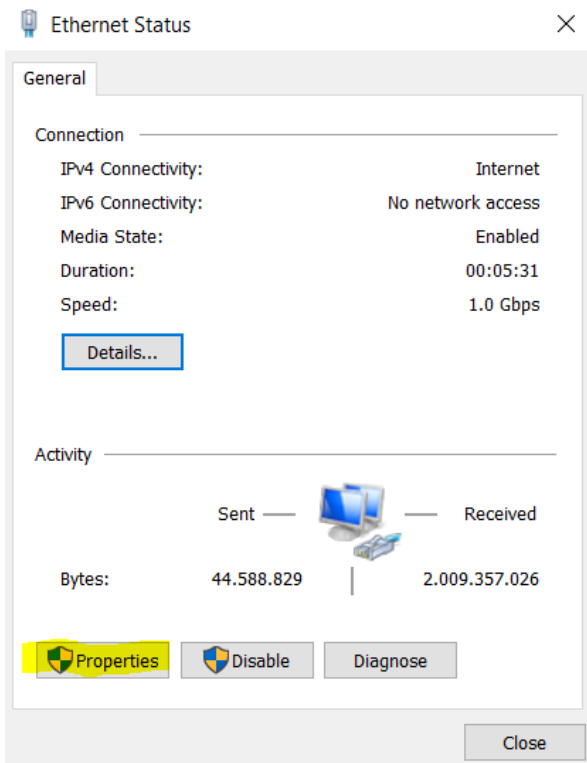
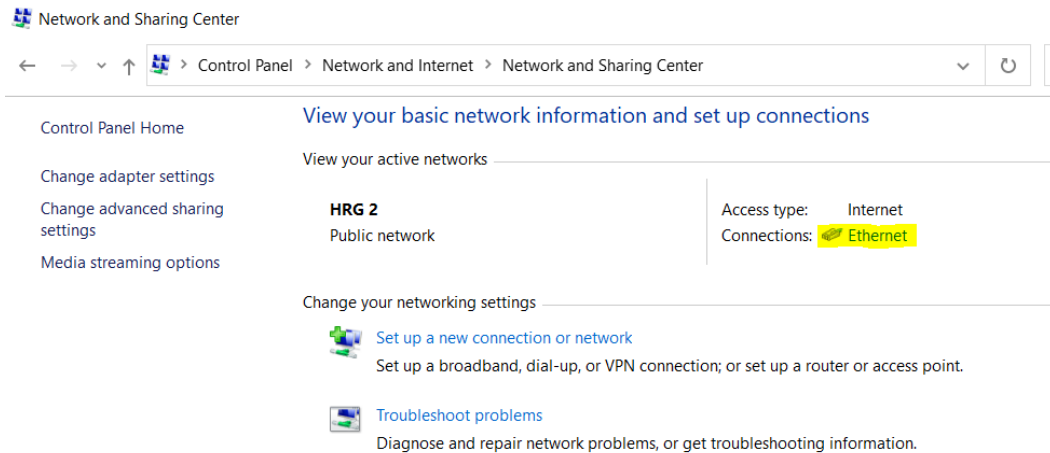
C:\Users\AmarnathReddyBana\Downloads\api_demo>python
Python 3.8.9 (tags/v3.8.9:a743f81, Apr  6 2021, 14:02:34) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import neurapy
>>> exit()

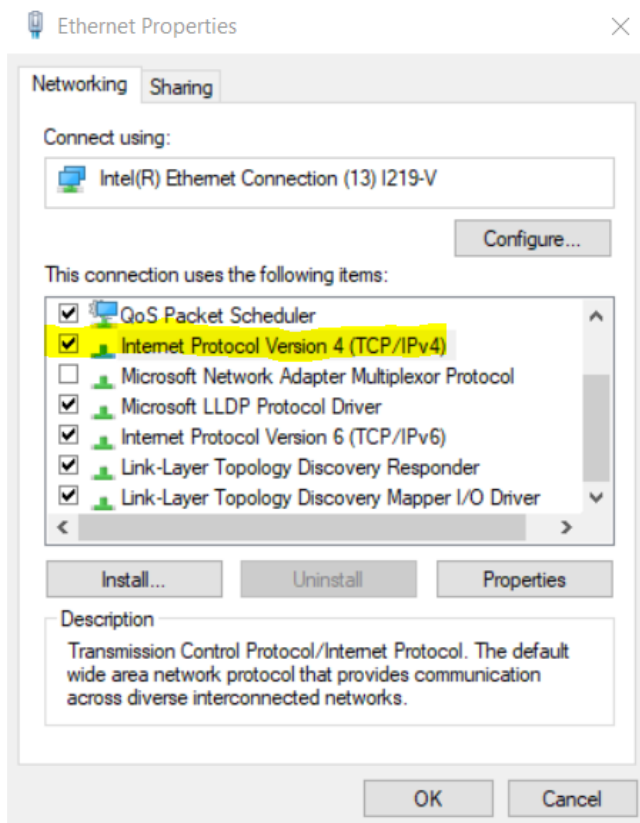
C:\Users\AmarnathReddyBana\Downloads\api_demo>
```

Network Configuration

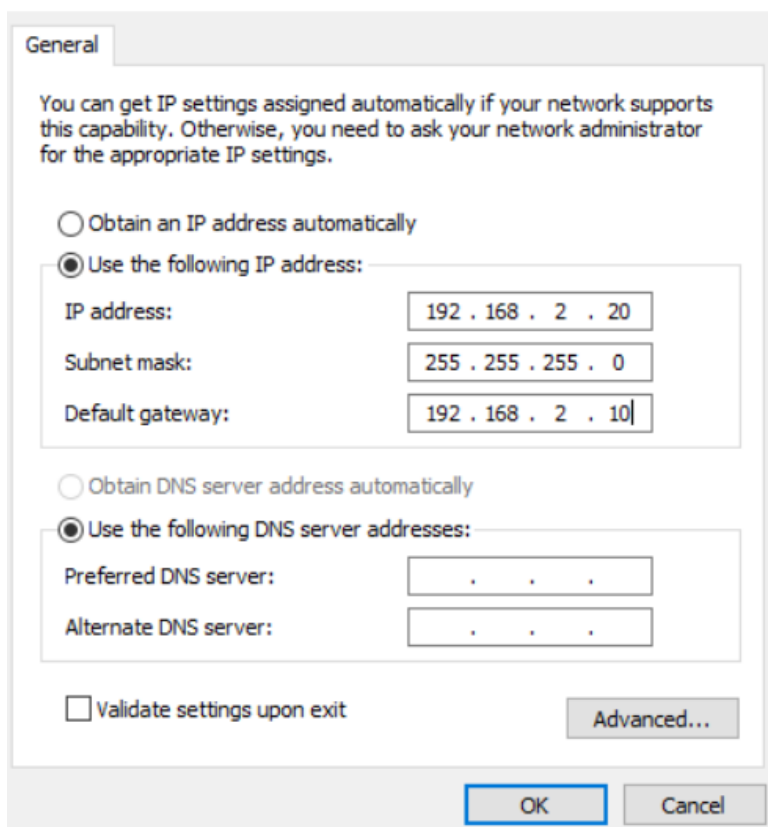
Configure the network in a following way, if robot needs to be controlled via external machine connected through ethernet.

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





Internet Protocol Version 4 (TCP/IPv4) Properties



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

The screenshot shows the 'netplan-enp2s0' network configuration window. It has tabs for 'Details', 'Identity', 'IPv4', 'IPv6', and 'Security'. The 'IPv4' tab is selected. Under 'IPv4 Method', 'Manual' is selected with a red dot. Under 'Addresses', there is a table with columns 'Address', 'Netmask', and 'Gateway'. The first row contains '192.168.2.20', '255.255.255.0', and '192.168.2.10'. Below this, there is a 'DNS' section with a toggle switch set to 'Automatic' and 'ON'. At the bottom, there is a 'Routes' section with a toggle switch also set to 'Automatic' and 'ON'. The window has 'Cancel' and 'Apply' buttons at the top.

Address	Netmask	Gateway
192.168.2.20	255.255.255.0	192.168.2.10

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