



User Manual

VPN service

¿Why use VPN?

The VPN service is used to establish a secure connection between your computer outside of CIMNE and the network at CIMNE in building C1 of Campus Nord UPC. This way you will be able to get access to shared folders, servers and other devices connected to this network as if you were in the building.

In this guide you will find the steps to follow depending on the operating system you are using.

Installation and configuration

OS Windows 10

Video: <https://youtu.be/5uOLhfXRj5E>

You have to follow this simple steps:

1- Install OpenVPN:

In case you don't have it in your remote computer, you have to go to the web of manuals and downloads of CIMNE: <https://web.cimne.upc.edu/groups/sistemas/>

Go to “Utilidades” and there you will find the installer:



Download it and execute it. Accept all the steps on the default configuration.

2- Add VPN keys

The keys are sent to the user once he/she has been registered at CIMNE if the VPN box has been checked on the registration form. Otherwise you will have to ask for a VPN account creating a ticket (<https://tickets.cimne.upc.edu>).

Once you have the keys, you have to copy them to the following directory:

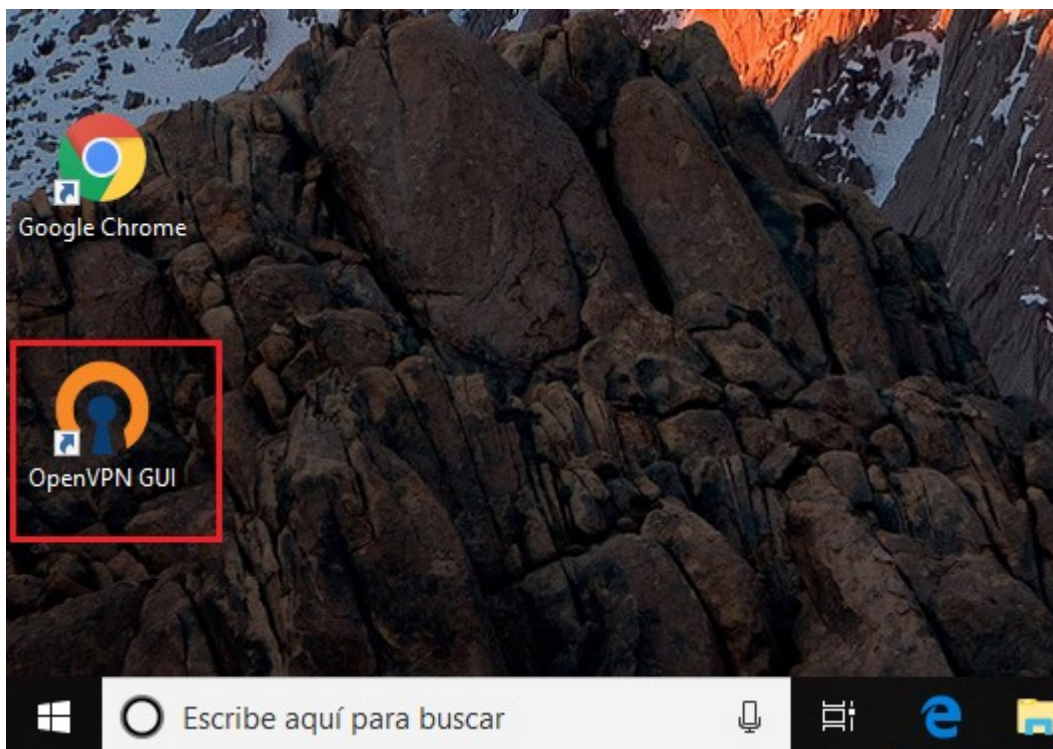
C:\Program Files\OpenVPN\config or C:\USERS\[tuusuario]\OpenVPN\config

When this is done, you are ready to use OpenVPN.

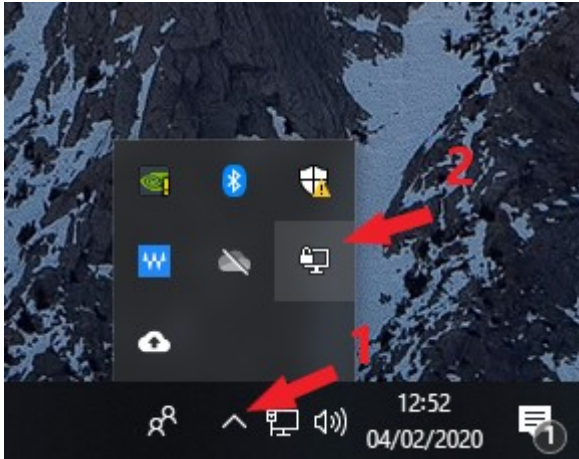
NOTE: These keys are just a bunch of characters used by the PC to communicate with the CIMNE network you shall not execute it, only copy it like explained before.

3- Connection

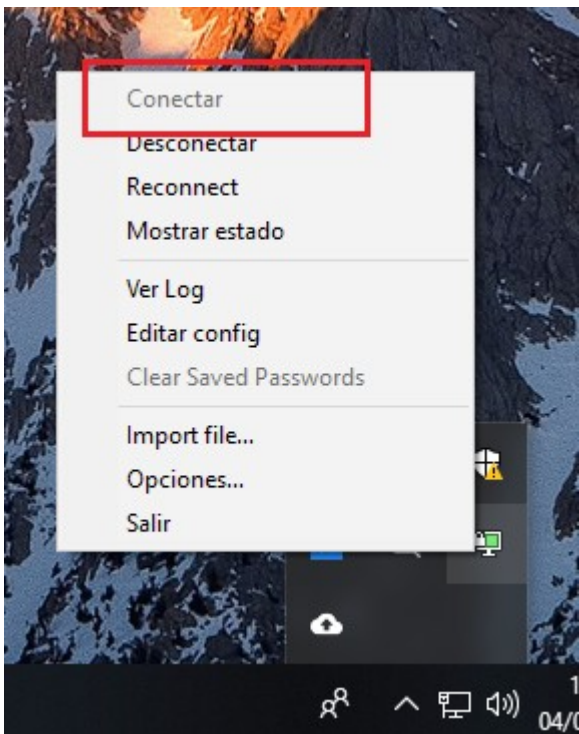
Execute the OpenVPN software (you can probably find it in the desktop, if not, search it in the Windows menu)



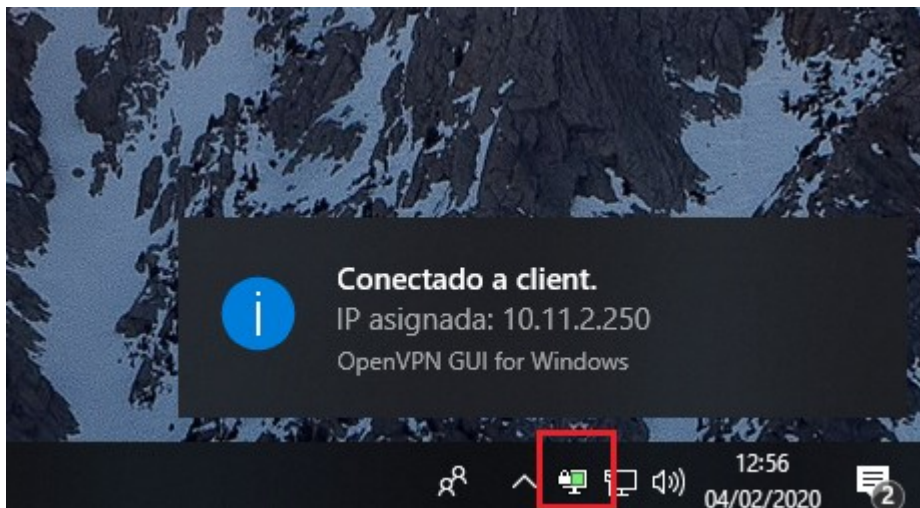
In the lower right corner of your desktop, you can find the icon of the program (2). (Do not confuse with the network icon below!).



Right click on the icon and click connect (If you can't see the options is because the keys are missing).



If everything is fine, you will see a note confirming you are connected and your new IP address. Also, the program icon will be now green.



You are now connected to the CIMNE network!

Instructions to connect to the network shares and remote desktop:

<https://web.cimne.upc.edu/groups/sistemas/Manuales/Acceso%20remoto%20-%20VPN/Barcelona/Manual%20r%C3%A1pido%20de%20Conexi%C3%B3n%20a%20recursos.pdf>

OS Linux Ubuntu/Debian/Mint

1) Open a terminal and install OpenVPN with:

```
$ sudo apt-get install openvpn
```

2) Create a new directory called vpnkeys and move the “.ovpn” file (username.ovpn) there:

```
$ mkdir vpnkeys
```

3) Go to the new directory and execute the OpenVPN program inside:

```
$ cd vpnkeys
```

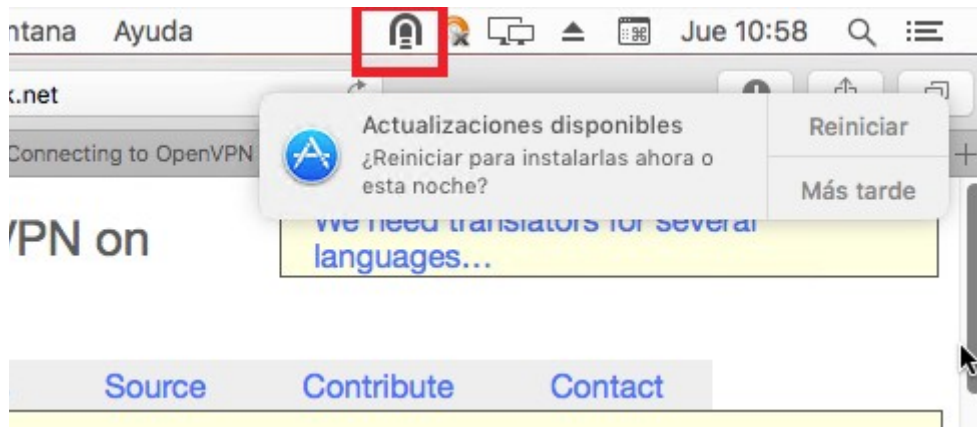
```
$ sudo openvpn --config user.ovpn --client
```

OS MacOS

- 1) Go to the following link and download and install the latest stable version:

<https://tunnelblick.net/downloads.html>

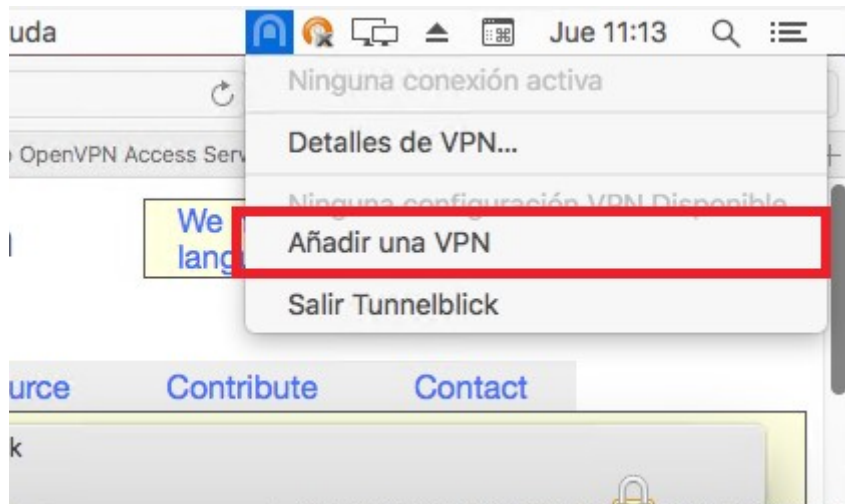
Once it is installed, you should have this logo on the top right of your computer:



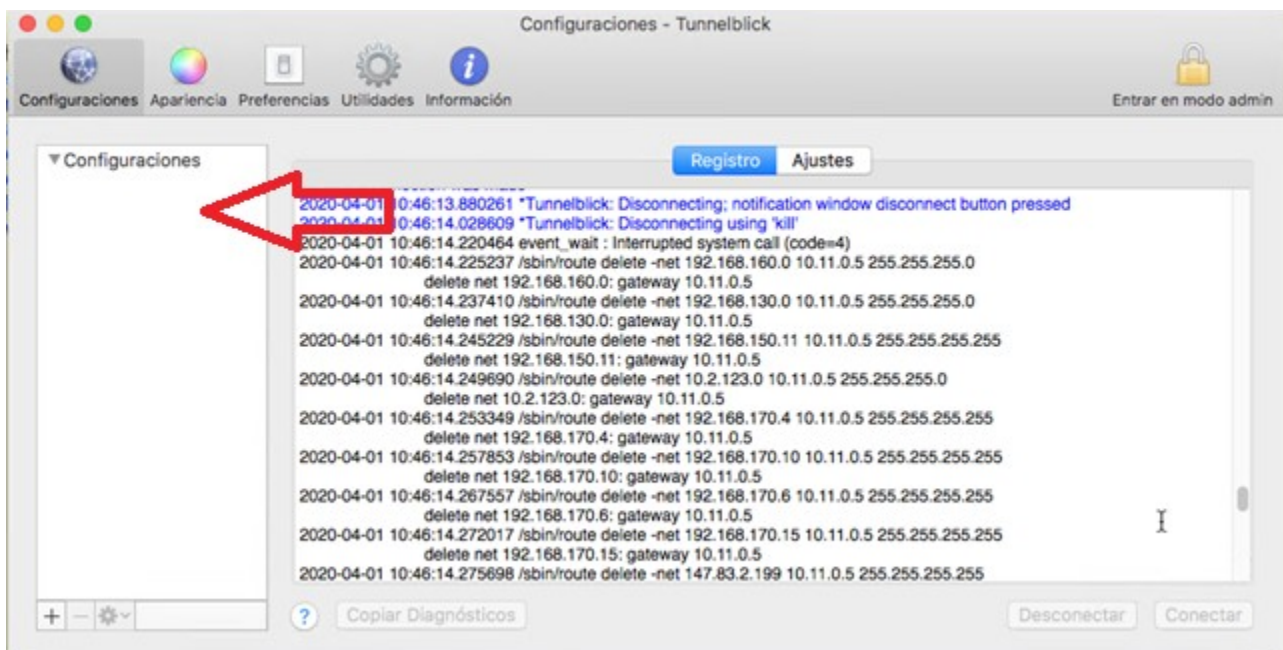
- 2) Save your VPN credentials (username.ovpn file) on Downloads.
If you don't have them, open a ticket at the tickets website (<https://tickets.cimne.upc.edu>) and ask for them and the "ta.key". Save both files on Downloads once you have them.
- 3) If you already have the credentials, open a ticket and ask for the "ta.key" file. Save the file on Downloads.

Once the "ta.key" file is downloaded, make sure the name remains unchanged. Otherwise, change the name to the original: "ta.key". Same goes for the "username.ovpn" file.

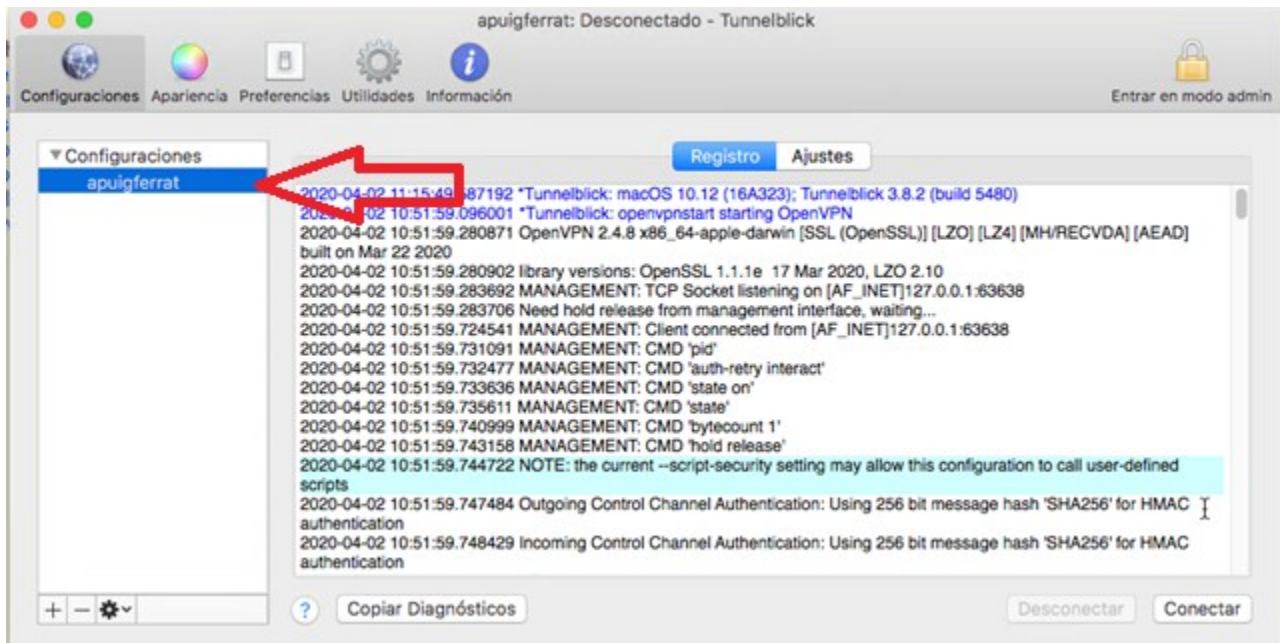
- 4) Click on the Tunnelblick logo and then on “Add VPN”.



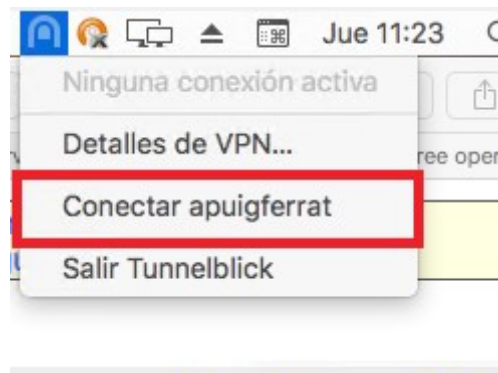
Then drag your username.ovpn file under “Configurations”:



Accept all the default Settings. Your username should now appear under the configurations list:



5) You can now connect to the VPN with your username:



Once you connect, you will be prompted an error with DNS. You can ignore this.