



instituto de
telecomunicações

User manual:

OpenVPN Installation and Configuration
(Windows, Linux, MacOS)



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Using Windows:

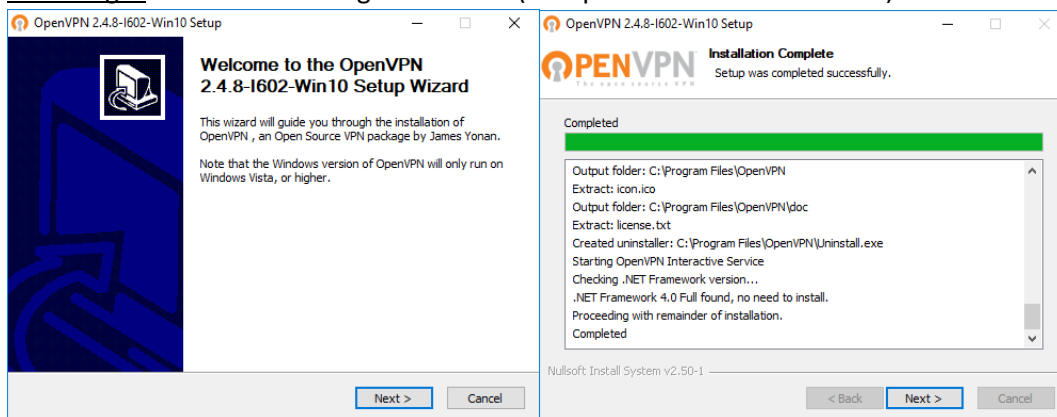
Step 1 – Download the client

Go to <https://openvpn.net/community-downloads> and download the Installer.
Choose the appropriate version.

WINDOWS 7/8.1/SERVER 2012R2 INSTALLER (NSIS)	GnuPG Signature	openvpn-install-2.4.8-i602-win7.exe
WINDOWS 10/SERVER 2016/SERVER 2019 INSTALLER (NSIS)	GnuPG Signature	openvpn-install-2.4.8-i602-win10.exe

Step 2 – Run the installer

After downloading, click on the installer (openvpn-install-2.4.8-i602-winX.exe) and follow the steps.
No changes are needed during installation (Accept and install when asked).

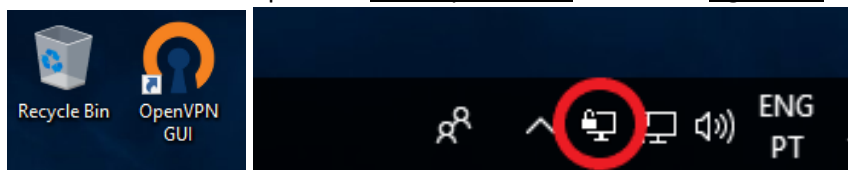


Step 3 – Download the configuration files

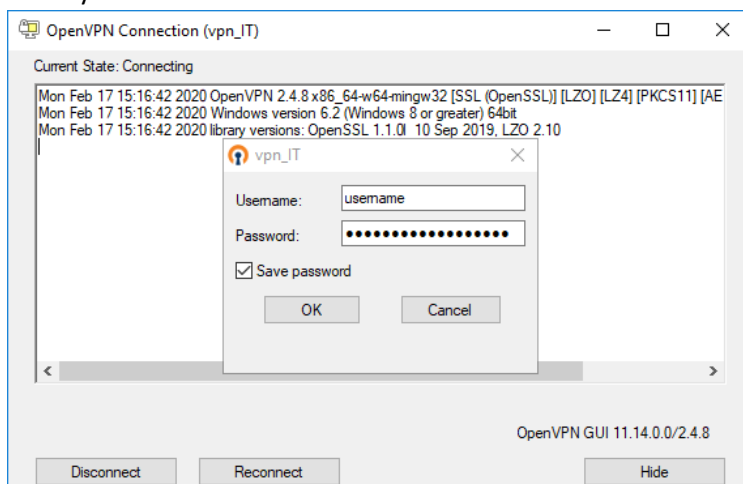
Download: http://info-vpn.av.it.pt/vpn_IT.zip the ZIP contains the OpenVPN Config Files.
Extract to C:\Program Files\OpenVPN\config

Step 4 – Connect to the VPN server

To start click on the OpenVPN desktop shortcut. After that right click on the **taskbar icon** and **Connect**.



Enter your IT credentials and click **OK**.



----- WINDOWS ENDS HERE -----

Using Linux

Step 1 – Download the OpenVPN network manager

Open the terminal and run the commands:

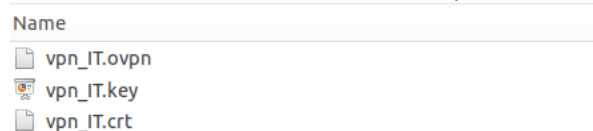
```
sudo apt-get install network-manager-openvpn
```

```
sudo apt-get install network-manager-openvpn-gnome
```

Step 2 – Download the configuration files

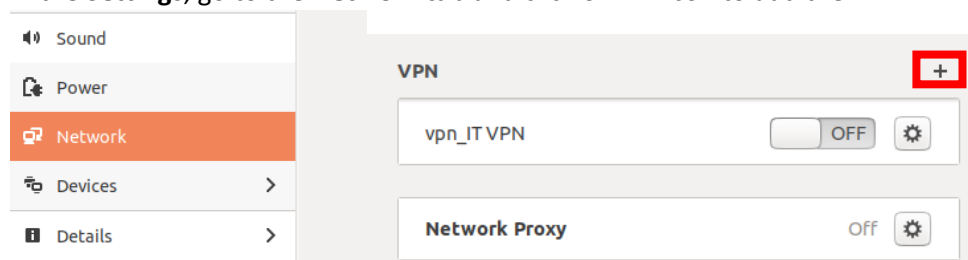
Download: http://info-vpn.av.it.pt/vpn_IT.zip

The ZIP contains 3 files: Certificate, OpenVPN Config File and the Key File. **Extract** the files.

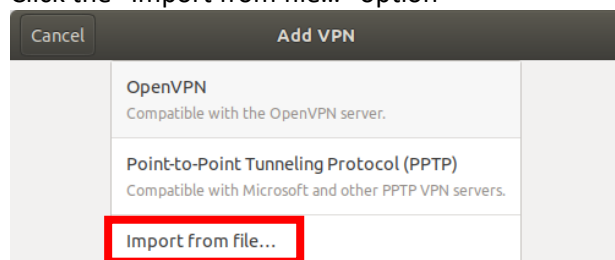


Step 3 – Setup and Connect to the VPN server

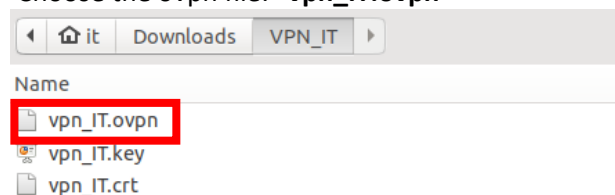
In the **Settings**, go to the **Network tab** and click on “+” icon to add the VPN



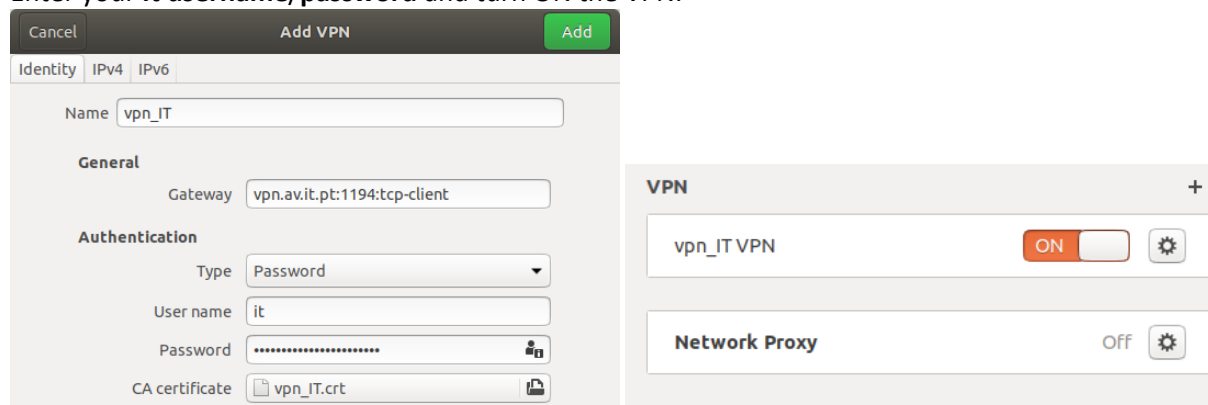
Click the “Import from file...” option



Choose the ovpn file: “vpn_IT.ovpn”



Enter your **It** username/password and turn ON the VPN.



Alternative LINUX VPN configuration

Step 1 – Download the client

Open the terminal and run the command:

apt-get install openvpn

Step 2 – Download the configuration files

Download: http://info-vpn.av.it.pt/vpn_IT.zip

Extract the files to **/etc/openvpn/client**.

IMPORTANT: Edit the file **VPN_IT.ovpn** and enter the full path of the **CA** and **Key**.

ca /etc/openvpn/client/vpn_IT.crt

tls-auth /etc/openvpn/client/vpn_IT.key 1

```

it@it: ~/Downloads/vpn_IT
File Edit View Search Terminal Tabs Help
it@it: ~/Downloads/vpn_IT x it@it: ~/Downloads/vpn_IT x
dev tun
persist-tun
persist-key
cipher AES-256-CBC
ncp-disable
auth SHA256
tls-client
client
resolv-retry infinite
remote vpn.av.it.pt 1194 tcp-client
setenv opt block-outside-dns
auth-user-pass
ca /etc/openvpn/client/vpn_IT.crt
tls-auth /etc/openvpn/client/vpn_IT.key 1
remote-cert-tls server
compress
  
```

Step 3 – Connect to the VPN server

Run this command to start the connection:

sudo openvpn --config /etc/openvpn/client/vpn_IT.ovpn

Enter your IT username and password.

```

root@it: /home/it/Downloads/vpn_IT
File Edit View Search Terminal Tabs Help
it@it: ~/Downloads/vpn_IT x it@it: ~/Downloads/vpn_IT x root@it: /home/it/Downloads/vp... x
root@it: /home/it/Downloads/vpn_IT# sudo openvpn --config /etc/openvpn/client/vpn_IT.ovpn
Thu Jan 10 17:16:24 2019 Unrecognized option or missing or extra parameter(s) in /etc/openvpn/cli
ent/vpn_IT.ovpn:11: block-outside-dns (2.4.4)
Thu Jan 10 17:16:24 2019 WARNING: file '/etc/openvpn/client/vpn_IT.key' is group or others access
ible
Thu Jan 10 17:16:24 2019 OpenVPN 2.4.4 x86_64-pc-linux-gnu [SSL (OpenSSL)] [LZO] [LZ4] [EPOLL] [P
KCS11] [MH/PKTINFO] [AEAD] built on Sep 5 2018
Thu Jan 10 17:16:24 2019 library versions: OpenSSL 1.1.0g 2 Nov 2017, LZO 2.08
Enter Auth Username: yannick.suca
Enter Auth Password: *****
  
```

----- LINUX ENDS HERE -----

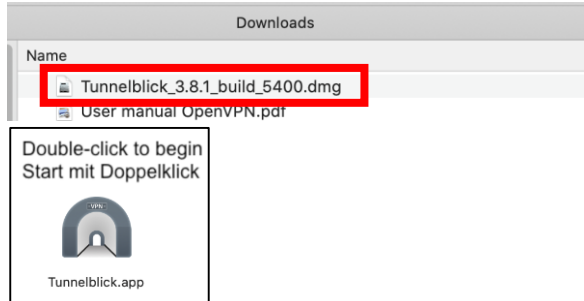
Using MacOS

Step 1 – Download the client

Download the client using this link: <https://tunnelblick.net/index.html>

Step 2 – Install the program/configuration

After downloading, click on the installer and follow the steps. (Accept and install when asked).



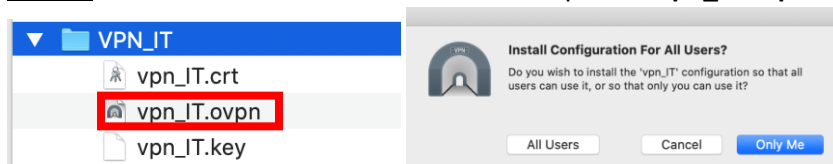
Click on “I have configuration files”



Step 3 – Download the configuration files

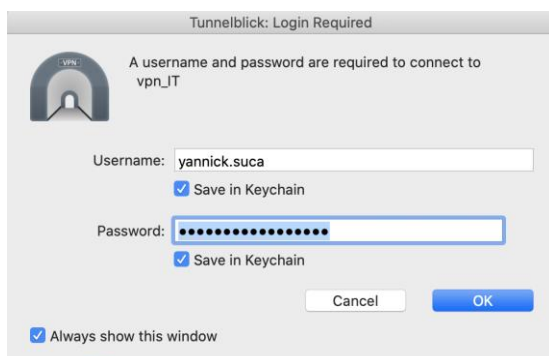
Download: http://info-vpn.av.it.pt/vpn_IT.zip

Extract the files to a folder. Double click the ovpn file “**vpn_IT.ovpn**” to install the configuration.



Step 4 – Connect to the VPN server

Open Tunnelblick → configurations → IT VPN **or** Tunnelblick icon in the taskbar and **connect vpn_IT**. Enter your IT **username** and **password**. (Optional) **Save in keychain** to remember the user/password.



----- MACOS ENDS HERE -----