

# OpenVPN LAB

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The quickest way to install OpenVPN in Ubuntu 14.04:

First we need to enable TUN interface

```
$ sudo vi /etc/rc.local
```

add the following line:

```
if ! [ -c /dev/net/tun ]; then
  mkdir -p /dev/net
  mknod -m 666 /dev/net/tun c 10 200
fi

exit 0
```

Now save and quit. `:wq`

Reboot the server.

```
$ sudo reboot
```

Login to the server again.

Download the initial script:

```
$ sudo apt-get update
$ sudo apt-get wget
$ wget https://raw.githubusercontent.com/Nyr/openvpn-install/master/openvpn-install.sh
```

Run the command

```
$ sudo bash openvpn-install.sh
```

First I need to know the IPv4 address of the network interface you want OpenVPN listening to. IP address:

```
192.168.30.XX
```

Which protocol do you want for OpenVPN connections?

- 1) UDP (recommended)
- 2) TCP

Protocol [1-2]: 1

What port do you want OpenVPN listening to?

Port: 1194

Which DNS do you want to use with the VPN?

- 1) Current system resolvers
- 2) Google
- 3) OpenDNS
- 4) NTT
- 5) Hurricane Electric
- 6) Verisign

DNS [1-6]: 1

Finally, tell me your name for the client certificate Please, use one word only, no special characters Client name: `sanog30`

It will create necessary certificates and also create the first client.

That is all. Your OpenVPN server has been configured and ready to use. You can see added firewall rules

`/etc/rc.local` file:

```
$ vi /etc/rc.local

iptables -I FORWARD -m state --state RELATED,ESTABLISHED -j ACCEPT
iptables -I FORWARD -s 10.8.0.0/24 -j ACCEPT
iptables -I INPUT -p udp --dport 1194 -j ACCEPT
iptables -t nat -A POSTROUTING -s 10.8.0.0/24 -j SNAT --to 192.168.30.XX
```

Type the following command start the OpenVPN service:

```
$ sudo /etc/init.d/openvpn start
```

The client certificate will be stored in the home directory.

```
sanog30.ovpn
```

Now download and install `openvpn-install-2.4.3-I601.exe` from web server. Make sure you agree to install TAP interface.

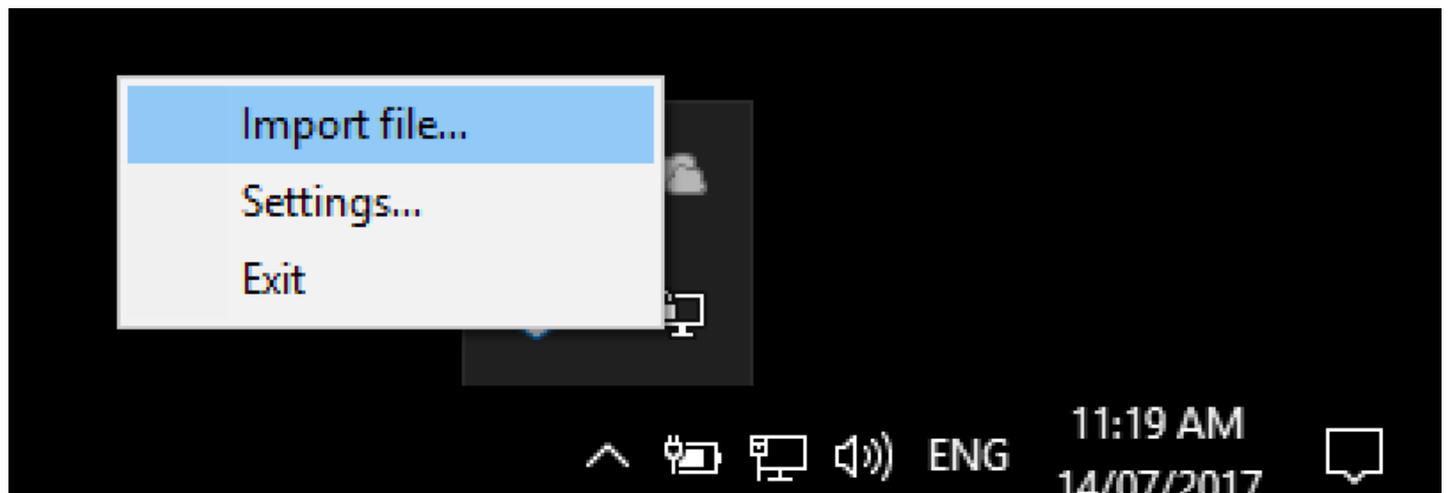
Move the ovpn file to the webserver root folder

```
$ sudo cp sanog30.ovpn /var/www/html/
```

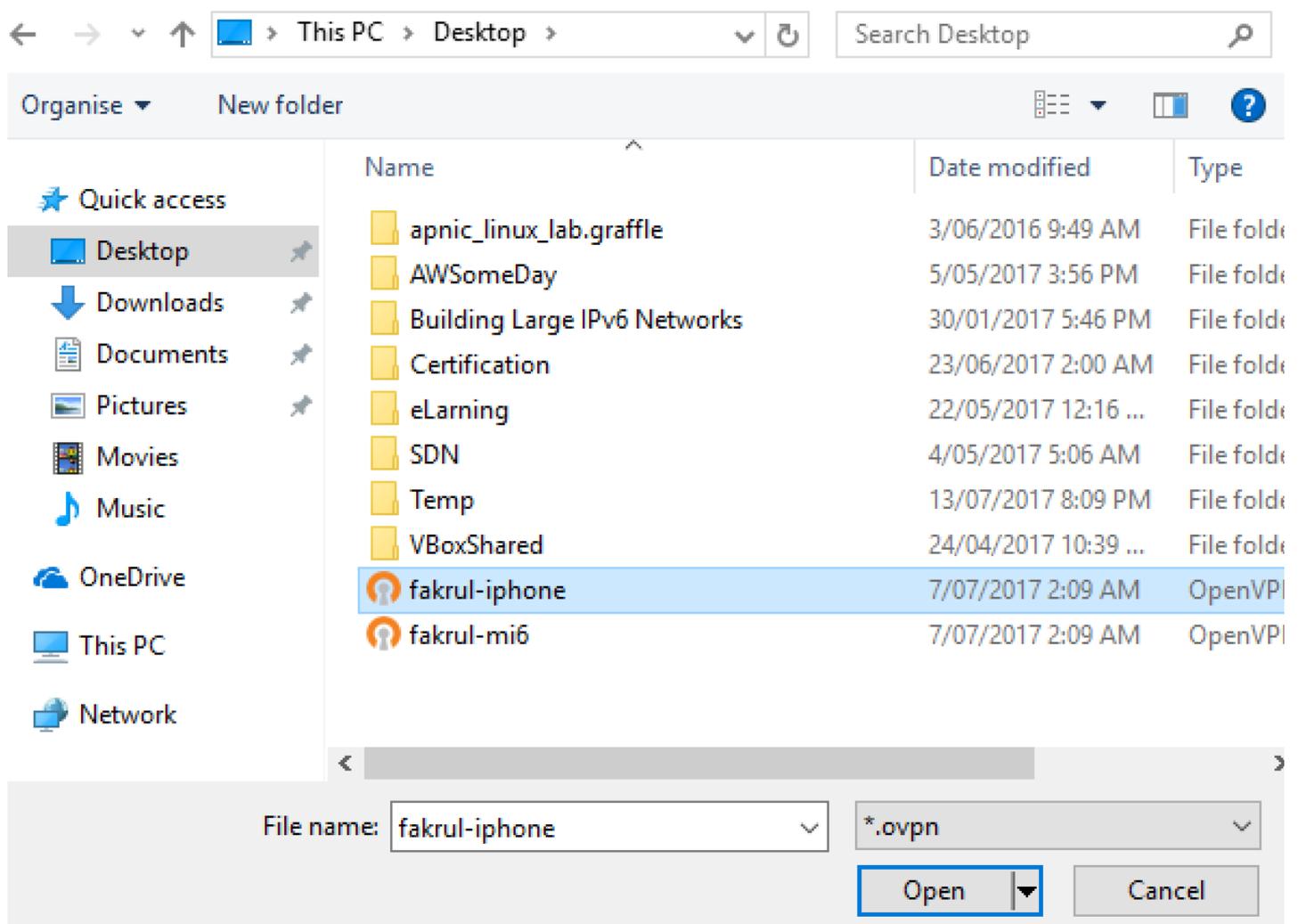
Open browser in you laptop and browse `http://groupXX.apnictraining.net/sanog30.ovpn`

Copy paste the content and save to a txt file with name `sanog30.ovpn` in your laptop.

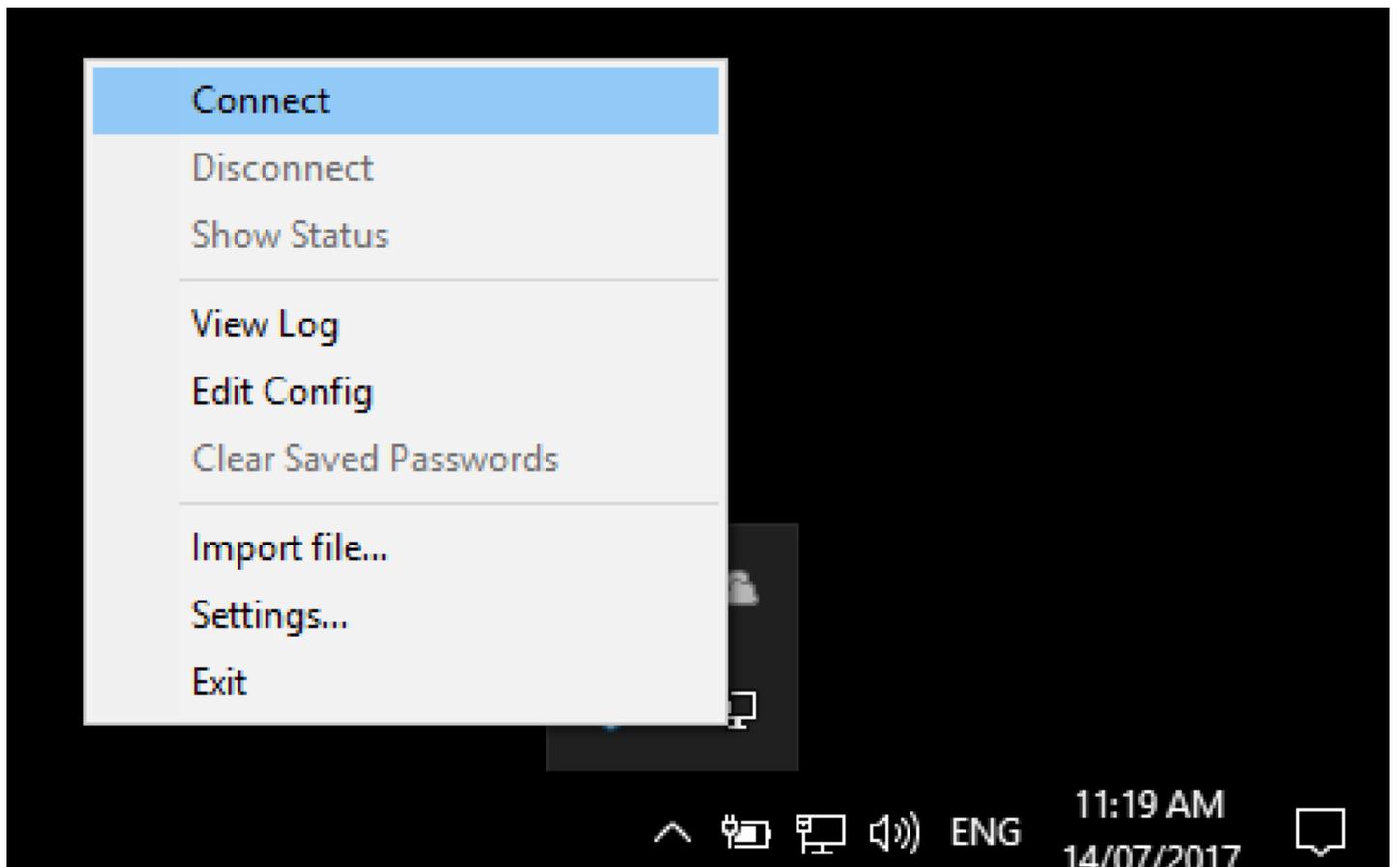
Now import this to your OpenVPN client tool.



Browse your `ovpn` file



Connect to the VPN.



Open command prompt and try traceroute to 4.2.2.2

**END OF LAB**