

Øving 15 - VPN

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Guide

<https://www.cyberciti.biz/faq/ubuntu-18-04-lts-set-up-openvpn-server-in-5-minutes/>

Server

```
sudo systemctl start openvpn-server@server.service
```

Her ser vi `client` og `client2` er koblet til og får hver sin ip:

10.8.0.2 og 10.8.0.3

```
TITLE,OpenVPN 2.4.4 x86_64-pc-linux-gnu [SSL (OpenSSL)] [LZO] [LZ4] [EPOLL] [PKCS11] [MH/PKTINFO] [AEAD] built on May 14 2019
TIME,Mon Oct 5 11:58:12 2020,1601891892
HEADER,CLIENT_LIST,Common Name,Real Address,Virtual Address,Virtual IPv6 Address,Bytes Received,Bytes Sent,Connected Since,Connect
time_t),Username,Client ID,Peer ID
CLIENT_LIST,client,84.52.238.142:53198,10.8.0.2,,348355,6379,Mon Oct 5 11:55:57 2020,1601891757,UNDEF,5,1
CLIENT_LIST,client2,82.194.205.111:59165,10.8.0.3,,4145,4973,Mon Oct 5 11:56:26 2020,1601891786,UNDEF,7,0
HEADER,ROUTING_TABLE,Virtual Address,Common Name,Real Address,Last Ref,Last Ref (time_t)
ROUTING_TABLE,10.8.0.2,client,84.52.238.142:53198,Mon Oct 5 11:58:05 2020,1601891885
ROUTING_TABLE,10.8.0.3,client2,82.194.205.111:59165,Mon Oct 5 11:58:02 2020,1601891882
GLOBAL_STATS,Max bcst/mcast queue length,2
END
```

Klient

Kobler til VPN

```
openvpn -client --config client.ovpn
```

```
sudo systemctl start openvpn@client
```

Scanner lokalt nettet til vpn host

```
calm@calm:~$ sudo nmap -sn 10.8.0.1/24
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-05 12:16 CEST
Nmap scan report for 10.8.0.1
Host is up (0.0038s latency).
Nmap scan report for 10.8.0.3
Host is up (0.040s latency).
Nmap scan report for 10.8.0.2
Host is up.
Nmap done: 256 IP addresses (3 hosts up) scanned in 34.20 seconds
```

Hoster http server

Hoster en enkel server som printer ip på 10.8.0.3

```
madsen@MadsenPc:~/Documents/dataing/TDAT3020 Sikkerhet i programvare og nettverk/ovinger/oving14 - vpn$ node server.js
Example app listening at http://localhost:1337
get /
from: ::ffff:10.8.0.1
get /
from: ::ffff:10.8.0.2
█
```