

# Installation, Configuration et Connexion à OpenVPN sur Ubuntu

Ce rapport détaille les étapes nécessaires à l'installation, la configuration et la connexion à un réseau privé virtuel (VPN) en utilisant OpenVPN sur un système Ubuntu. L'objectif principal est de permettre aux utilisateurs de se connecter au réseau de l'organisation à distance de manière sécurisée.

Installation d'OpenVPN :

Assurez-vous que votre système Ubuntu est à jour

Installez le paquet OpenVPN en exécutant la commande suivante

Configuration du Serveur OpenVPN :

Générez les certificats et les clés nécessaires pour le serveur OpenVPN

Copiez les fichiers de configuration par défaut

Éditez le fichier de configuration du serveur OpenVPN :

Assurez-vous de configurer les paramètres appropriés tels que le port, le protocole, les certificats, etc.

Configuration du Client OpenVPN

Générez les certificats et les clés nécessaires pour les clients OpenVPN .

Copiez les certificats et les clés générés vers le client OpenVPN.

Connexion au Réseau de l'Organisation

Sur le client, installez le paquet OpenVPN

Utilisez le fichier de configuration pour se connecter au serveur OpenVPN

L'installation, la configuration et la connexion à OpenVPN sur Ubuntu offrent une solution sécurisée pour permettre aux utilisateurs de se connecter au réseau de l'organisation à distance.

Notice

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Keypair and certificate request completed. Your files are:

req: /etc/openvpn/easy-rsa/pki/reqs/laptop.req

key: /etc/openvpn/easy-rsa/pki/private/laptop.key

Using configuration from /etc/openvpn/easy-rsa/pki/70de7805/temp.2f22b0ed

Check that the request matches the signature

Signature ok

The Subject's Distinguished Name is as follows

commonName :ASN.1 12:'laptop'

Certificate is to be certified until Mar 25 11:04:53 2026 GMT (825 days)

Write out database with 1 new entries

Data Base Updated

Notice

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Certificate created at:

\* /etc/openvpn/easy-rsa/pki/issued/laptop.crt

Notice

-----

Inline file created:

\* /etc/openvpn/easy-rsa/pki/inline/laptop.inline

Client laptop added.

The configuration file has been written to /home/hosni/laptop.ovpn.

Download the .ovpn file and import it in your OpenVPN client.

hosni@ubuntu-server:~\$

Write out database with 1 new entries  
Data Base Updated

Notice

-----  
Certificate created at:

\* /etc/openvpn/easy-rsa/pki/issued/laptop.crt

Notice

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Client laptop added.

The configuration file has been written to /home/hosni/laptop.ovpn.  
Download the .ovpn file and import it in your OpenVPN client.

hosni@ubuntu-server:~\$ cd /home/networks

-bash: cd: /home/networks: No such file or directory

hosni@ubuntu-server:~\$ cd /home/network

-bash: cd: /home/network: No such file or directory

hosni@ubuntu-server:~\$ cd /home

hosni@ubuntu-server:/home\$ ls -a

.. .. hosni

hosni@ubuntu-server:/home\$ cd hosni

hosni@ubuntu-server:~\$ ls -a

.. .bashrc .local .ssh  
.. .cache openvpn-install.git .sudo\_as\_admin\_successfu  
.bash\_history laptop.ovpn openvpn-install.sh  
.bash\_logout .lessht .profile

hosni@ubuntu-server:~\$ cd network

-bash: cd: network: No such file or directory

hosni@ubuntu-server:~\$ cd .profile

-bash: cd: .profile: Not a directory

hosni@ubuntu-server:~\$ cd /home/networks

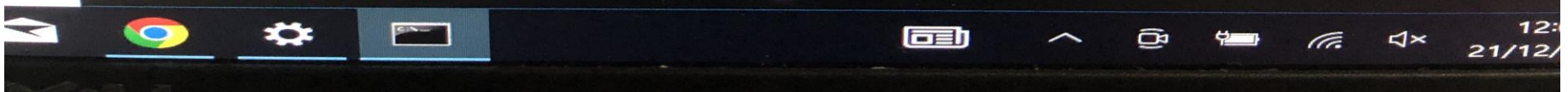
-bash: cd: /home/networks: No such file or directory

hosni@ubuntu-server:~\$ cd /home

hosni@ubuntu-server:/home\$ cd .profile

-bash: cd: .profile: No such file or directory

hosni@ubuntu-server:/home\$





```
networks@debian:~$ sudo curl -O https://raw.githubusercontent.com/angristan/openvpn-install/master
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100 40820  100 40820    0     0  179k      0 --:--:-- --:--:-- --:--:-- 184k
networks@debian:~$ sudo chmod +x openvpn-install.sh
networks@debian:~$ ./openvpn-install.sh
Sorry, you need to run this as root
networks@debian:~$ sudo ./openvpn-install.sh
Welcome to the OpenVPN installer!
The git repository is available at: https://github.com/angristan/openvpn-install

I need to ask you a few questions before starting the setup.
You can leave the default options and just press enter if you are ok with them.

I need to know the IPv4 address of the network interface you want OpenVPN listening to.
Unless your server is behind NAT, it should be your public IPv4 address.
IP address: 192.168.1.95

It seems this server is behind NAT. What is its public IPv4 address or hostname?
We need it for the clients to connect to the server.
Public IPv4 address or hostname: 90.119.104.176

Checking for IPv6 connectivity...

Your host appears to have IPv6 connectivity.

Do you want to enable IPv6 support (NAT)? [y/n]: n

What port do you want OpenVPN to listen to?
1) Default: 1194
2) Custom
3) Random [49152-65535]
Port choice [1-3]: 1
```

Checking for IPv6 connectivity...

Your host appears to have IPv6 connectivity.

Do you want to enable IPv6 support (NAT)? [y/n]: n

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- 1) Default: 1194
- 2) Custom
- 3) Random [49152-65535]

Port choice [1-3]: 1

What protocol do you want OpenVPN to use?

UDP is faster. Unless it is not available, you shouldn't use TCP.

- 1) UDP
- 2) TCP

Protocol [1-2]: 1

What DNS resolvers do you want to use with the VPN?

- 1) Current system resolvers (from /etc/resolv.conf)
- 2) Self-hosted DNS Resolver (Unbound)
- 3) Cloudflare (Anycast: worldwide)
- 4) Quad9 (Anycast: worldwide)
- 5) Quad9 uncensored (Anycast: worldwide)
- 6) FDN (France)
- 7) DNS.WATCH (Germany)
- 8) OpenDNS (Anycast: worldwide)
- 9) Google (Anycast: worldwide)
- 10) Yandex Basic (Russia)
- 11) AdGuard DNS (Anycast: worldwide)
- 12) NextDNS (Anycast: worldwide)
- 13) Custom

DNS [1-12]: 11



CORDON



Microsoft Edge



Google Chrome



laptop



OpenVPN  
Connect



Tapez ici pour effectuer une

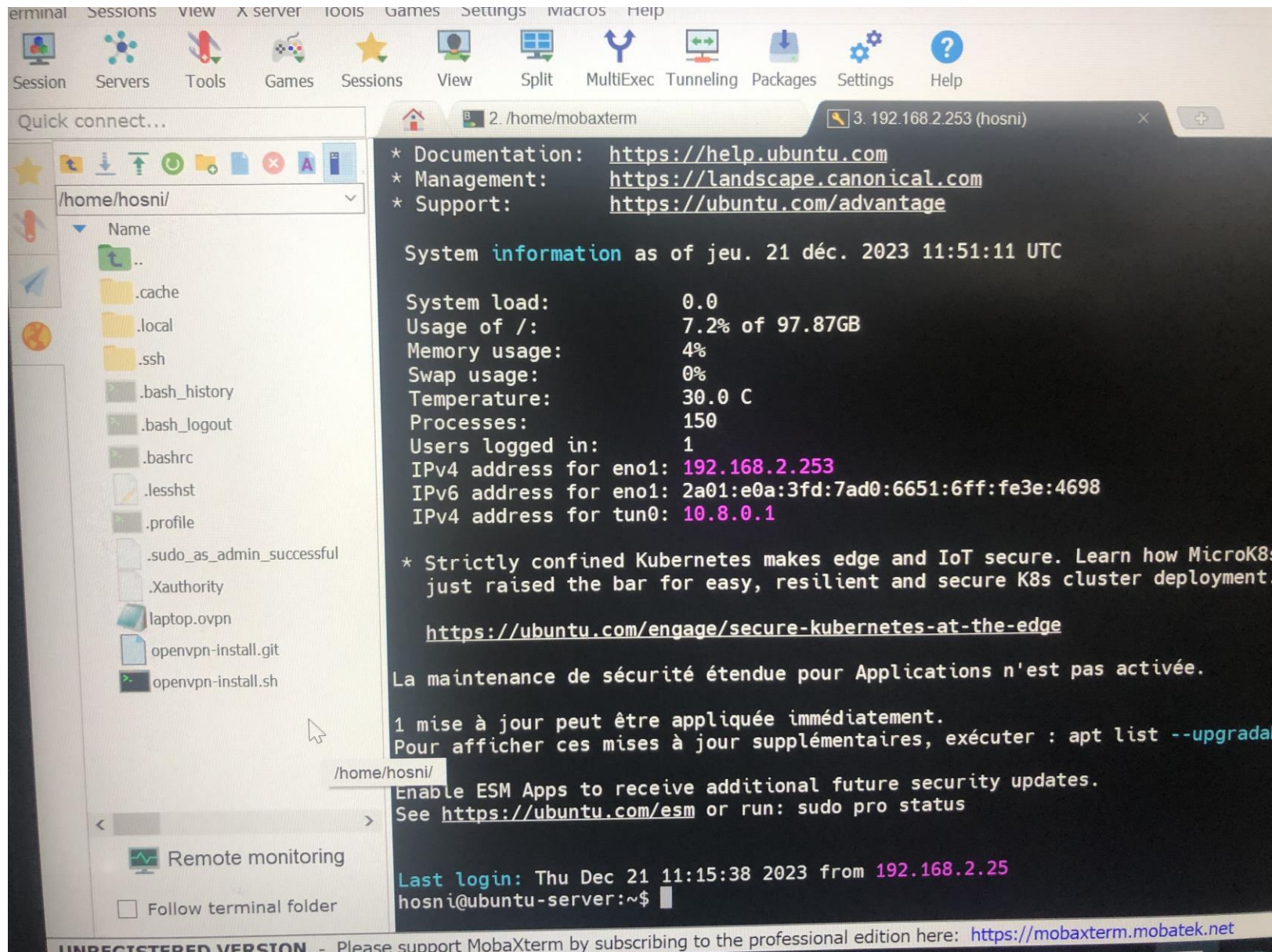


laptop - Bloc-notes

Fichier Edition Format Affichage Aide

```
client
proto udp
explicit-exit-notify
remote 91.175.245.235 19000
dev tun
resolv-retry infinite
nobind
persist-key
persist-tun
remote-cert-tls server
verify-x509-name server_7Utp4liwGL6lyR5m name
auth SHA256
auth-nocache
cipher AES-128-GCM
tls-client
tls-version-min 1.2
tls-cipher TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256
ignore-unknown-option block-outside-dns
setenv opt block-outside-dns # Prevent Windows 10 DNS leak
verb 3
<ca>
-----BEGIN CERTIFICATE-----
MIIB1jCCAX2gAwIBAgIUfkc3zTZoTkKHKy9ri8wWqcsRJdgcGgYIKoZIZj0EAWIw
HjEcMBoGA1UEAwTY25fdlpmb0Z0V1VPakpNOVhRRjAeFw0yMzEyMjExMTA0MTha
Fw0zMzEyMTgxMTA0MThaMB4xHDAaBgNVBAMME2NuX3ZaZm9GdFZVT2pKTTlYUUYw
WTATBgqhkhjOPQIBBgqhkhjOPQMBBwNCAAQnCuMxPxd4x3jdSwVTbGRcsrfe1oFC
QO2EknsYpnkkVMAGsFp1FqYj7rSr0M+qkywUAK+D8dgn9W305rNQv84Zo4GYMIGV
MAwGA1UdEwQFMAMBAf8wHQYDVR0OBByEFJQt5Jd+qCp/JlnRPhK+JaaEOZG8MFkG
A1UdIwRSMFCAFAJQt5Jd+qCp/JlnRPhK+JaaEOZG8oSKkIDAeMRwwGgYDVQDDBNj
b192WmZvRnRWVU9qSk05WFFGghR+QLfNNmh0SQcrL2uLzBapxEl2DALBgNVHQ8E
BAMCAQYwCgYIKoZIZj0EAWIDRwAwRAIgTJdVzVWd5ea65L1L8Cy6VbSF0JiaIin3
6xHPs3t/dFICICchBZzvse1mqFfHVD5okw/0UIejZHwHAAtNhMMTag4g
-----END CERTIFICATE-----
</ca>
```







## Internet / Gestion des ports

ports Connexions entrantes

### Connexions

Redirection	IP source	Destination
LAN: 3000 Commentaire:	Toutes	<a href="#">Galaxy-Note10-de-Hosni</a>
Protocole: tcp WAN : 8080 LAN: 8080 Commentaire:	Toutes	<a href="#">Galaxy-Note10-de-Hosni</a>
Protocole: udp WAN : 17194 LAN: 17194 Commentaire:	192.168.2.1	<a href="#">Win-serveur</a>
Protocole: udp WAN : 19000 LAN: 19000 Commentaire:	Toutes	<a href="#">ubuntu-server</a>

Paramètres de la Freeb... Connexion Internet / G...

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```

default      issue      modules-load.d  .pwd.lock      subuid
deluser.conf  issue.net      mtab           python3        subuid-
hosni@ubuntu-server:/etc$ cd /openvpn
-bash: cd: /openvpn: No such file or directory
hosni@ubuntu-server:/etc$ cd openvpn
hosni@ubuntu-server:/etc/openvpn$ ls -a
.          ca.key  client-template.txt  ipp.txt          server_7Utp4liwGL6l
..         ccd     crt.pem             server           server.conf
ca.crt     client  easy-rsa            server_7Utp4liwGL6lyR5m.crt  tls-crypt.key
hosni@ubuntu-server:/etc/openvpn$ nano server.conf
hosni@ubuntu-server:/etc/openvpn$ sudo nano server.conf
[sudo] password for hosni:
hosni@ubuntu-server:/etc/openvpn$ sudo systemctl restart openvpn@server
hosni@ubuntu-server:/etc/openvpn$ sudo systemctl statut openvpn@server
Unknown command verb statut.
hosni@ubuntu-server:/etc/openvpn$ sudo systemctl status openvpn@server
● openvpn@server.service - OpenVPN connection to server
   Loaded: loaded (/etc/systemd/system/openvpn@.service; enabled; vendor preset: ena
   Active: active (running) since Thu 2023-12-21 11:35:12 UTC; 16s ago
     Docs: man:openvpn(8)
           https://community.openvpn.net/openvpn/wiki/Openvpn24ManPage
           https://community.openvpn.net/openvpn/wiki/HOWTO
   Main PID: 10969 (openvpn)
     Status: "Initialization Sequence Completed"           I
    Tasks: 1 (limit: 9277)
   Memory: 1.8M
      CPU: 15ms
   CGroup: /system.slice/system-openvpn.slice/openvpn@server.service
           └─10969 /usr/sbin/openvpn --daemon ovpn-server --status /run/openvpn/serv

```

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OpenVPN Connect



## Profiles



### CONNECTED



OpenVPN Profile  
91.175.245.235 [laptop]

### CONNECTION STATS

7.1KB/s

0B/s

BYTES IN  
7.23 KB/S



BYTES OUT  
165 B/S

DURATION

PACKET RECEIVED