How to install OpenFortiVPN on Linux

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openfortivpn is used to establish VPN tunnels on linux and compatible with Fortinet VPNs.

Installation

openfortivpn is included in notable linux distributions and can be installed via packet manager:

Fedora:

```
root@fedora:~# dnf install openfortivpn
```

Ubuntu:

```
root@ubuntu:~# apt install openfortivpn
```

Debian:

```
root@debian:~# apt install openfortivpn
```

Configuration

When starting openfortivpn the following config file is used and should look something like this for the standard vpn tunnel:

/etc/openfortivpn/config

```
#### config file for openfortivpn, see man openfortivpn(1)
###
#
# host = destination adress VPN-Gateway
# port = destination port
# realm = realm / name of the vpn tunnel
# username = username (CIT-Account)
# password = password
host = vpngate.frankfurt-university.de
port = 443
realm = pub-all
username = <CIT-Account>
password = <PASSWORD>
```

Note: *realm* = *pub-all* is used for the standard vpn tunnel and is used in most cases but it may differ when using a different tunnel.

Config files for additional tunnels may be created with freely selected names in the same place. ⚠️ ***NOTE***: Depending on the Linux distribution the config files may differ from `/etc/openfortivpn` or may be created manually.

The next step is to add the certificate (chain) to the trusted certificates (systemwide).

Fedora

The ca-file includes the certificate chain o GEANT OV RSA CA 4 *CA* (pem file) and can be downloaded here.

Now execute:

```
cd Downloads/
sudo cp geant_chain.cer /etc/pki/ca-trust/source/anchors
sudo update-ca-trust
```

Debian/Ubuntu

The ca-file includes the certificate GEANT OV RSA CA 4 *CA* (pem file) and can be downloaded here. Please note: Debian expects the file to end with .crt. Otherwise it wont process the file and just skipps it.

Now execute:

```
cd Downloads/
sudo cp geant_ov_rsa_ca.crt /usr/local/share/ca-certificates/
sudo update-ca-certificates
```

Establish the connection

start the tunnel via

```
[root@pc ]# openfortivpn
```

Root privileges (respectively sudo) are needed because a (ppp)-interface is created (see here section *Running as root?*). When using different tunnels via configuration files the following parameter is used:

```
[root@pc ]# openfortivpn -c /etc/openfortivpn/<my_tunnel_configfile>
```

Additional parameters and explanatary notes may be found via the MAN-pages.

NetworkManager-Addon

Openfortivpn can also be used via NetworkManager. The following packets are required and need to be installed:

Fedora:

```
root@fedora:~# dnf install networkmanager-fortisslvpn plasma-nm-fortisslvpn [KDE] network-manager-
fortisslvpn-gnome [Gnome]
```

Ubuntu:

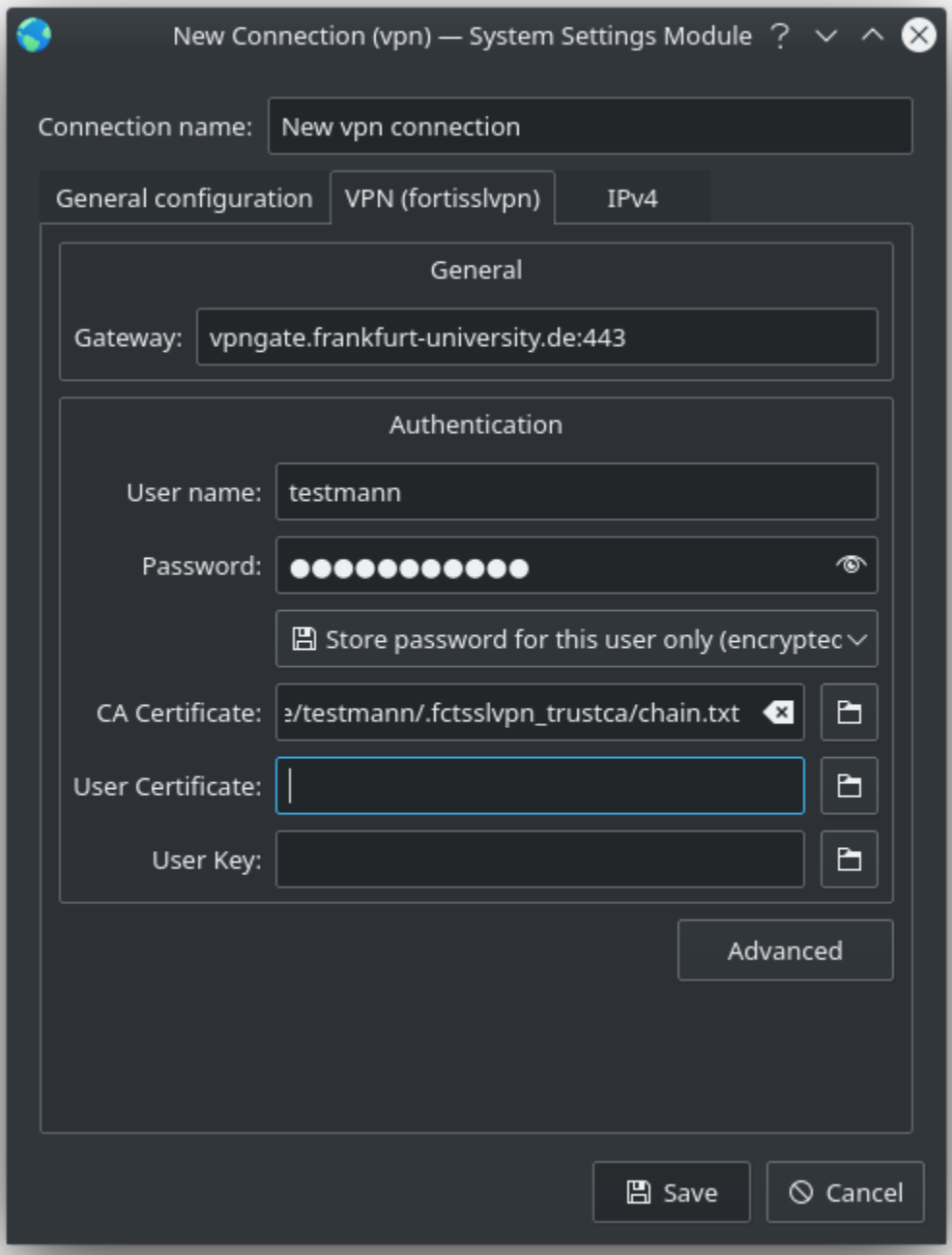
```
root@ubuntu:~# apt install network-manager-fortisslvpn network-manager-fortisslvpn-gnome
```

Debian:

```
root@debian:~# apt install network-manager-fortisslvpn network-manager-fortisslvpn-gnome
```

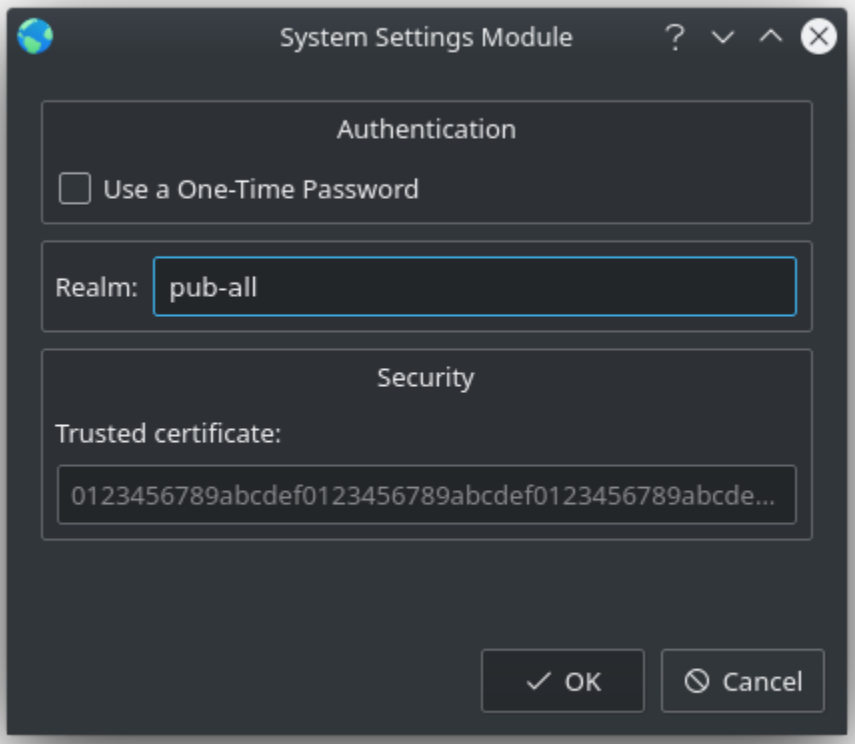
Afterwards a new NetworkManager-profile (type fortisslvpn) can be created.

The configuration should look something like this:

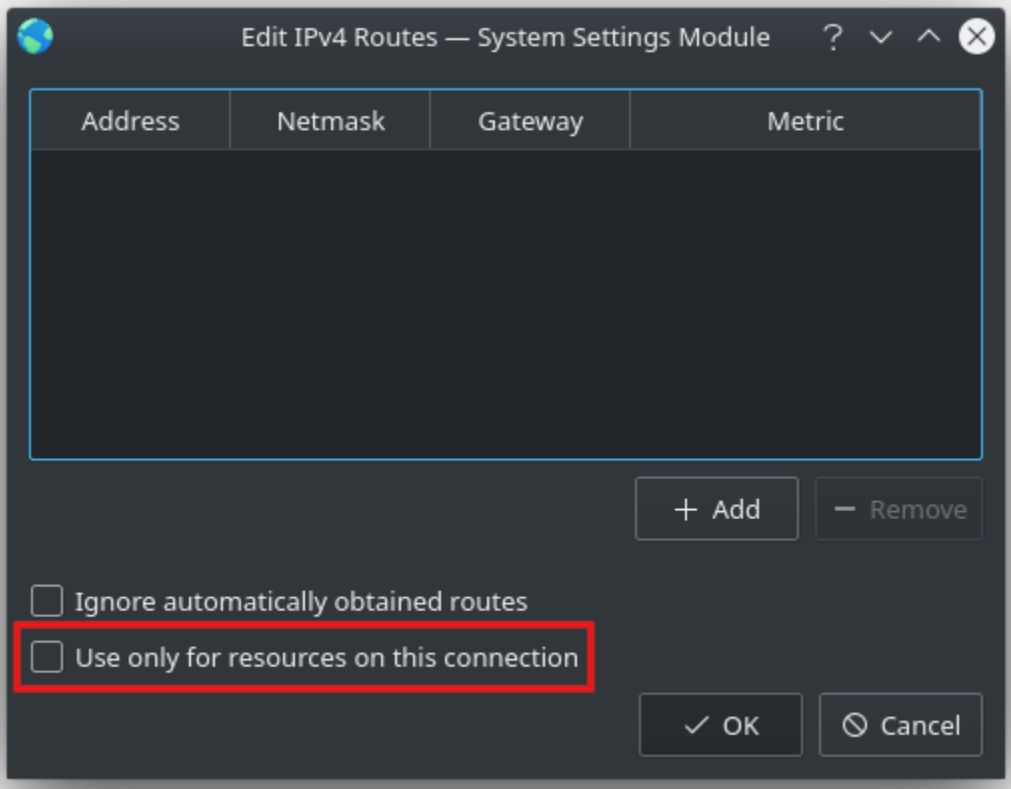


Option	Value	Description
Gateway	vpngate.frankfurt-university.de:443	Gateway address.
User name		Your CIT-Account
Password		Your Cit-Account Password

click on "Advanced" to enter the "Realm":



In most cases the realm is pub-all but it may differ when using a different tunnel. Note: Option "Use only for resources on this connection" from **IPv4 Routes** must be disabled.



The next step is to add the certificate (chain) to the trusted certificates (systemwide).

Fedora

The ca-file includes the certificate chain o GEANT OV RSA CA 4 *CA* (pem file) and can be downloaded here.

Now execute:

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cd Downloads/
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Debian/Ubuntu

The ca-file includes the certificate GEANT OV RSA CA 4 *CA* (pem file) and can be downloaded here. Please note: Debian expects the file to end with .crt. Otherwise it wont process the file and just skipps it.

Now execute:

```
cd Downloads/
sudo cp geant_ov_rsa_ca.crt /usr/local/share/ca-certificates/
sudo update-ca-certificates
```

Afterwards the connection can be established when you click on the corresponding entry in the NetworkManager menu.