



AGENZIA NAZIONALE PER LE
NUOVE TECNOLOGIE, L'ENERGIA E LO
SVILUPPO ECONOMICO SOSTENIBILE

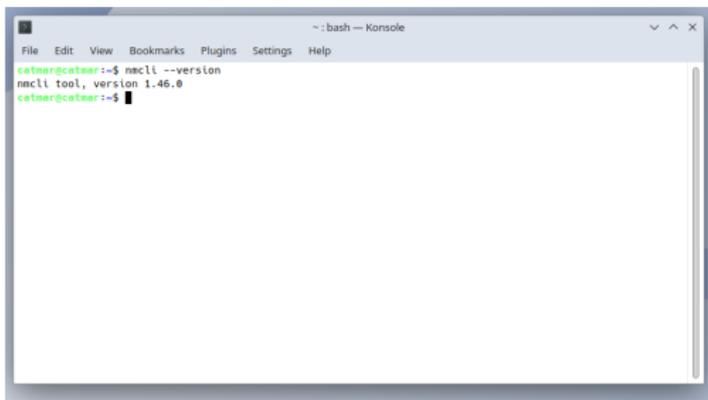
VPN Enea in sistemi operativi con Debian/Ubuntu

Marco Catillo

Ottobre 2024

Step 1 - Aprire il terminale

- ▶ Controllare se *Network Manager* è installato, digitando `nmcli --version`



```
-- bash -- Konsole
File Edit View Bookmarks Plugins Settings Help
catnarg@catnarg:~$ nmcli --version
nmcli tool, version 1.46.0
catnarg@catnarg:~$
```

- ▶ Nel caso non fosse installato, digitare su terminale:
`sudo apt-get install network-manager`
`sudo systemctl start NetworkManager.service`
`sudo systemctl enable NetworkManager.service`

Al primo comando, accettare premendo S
(oppure Y se si ha la versione in inglese).

Step 2 - Creare la connessione VPN

- ▶ Per creare la connessione VPN inserire da terminale il comando

```
sudo nmcli connection add connection.id [Nome] type vpn vpn-type
l2tp connection.autoconnect yes ipv4.method auto ipv6.method
auto ipv6.addr-gen-mode eui64 vpn.data "gateway =
vpnserver.enea.it, ipsec-enabled = yes, ipsec-psk = eneavpn,
password-flags = 1, refuse-chap = yes, refuse-eap = yes,
refuse-mschap = yes, refuse-pap = yes, user = [User],
service-type = org.freedesktop.NetworkManager.l2tp"
vpn.secrets "ipsec-psk = eneavpn"
```

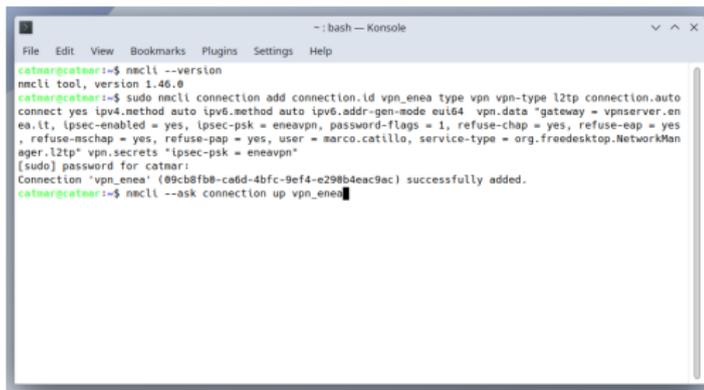
dove in

- *[Nome]* inserire il nome della vostra connessione VPN, a piacere.
- *[User]* inserire l'username delle credenziali ASIE: *<nome>.<cognome>*.

Step 3 - Attivare la connessione VPN

- ▶ Se lo step precedente è andato a buon fine, per attivare la connessione VPN, digitare da terminale:

```
nmcli --ask connection up [Nome]
```

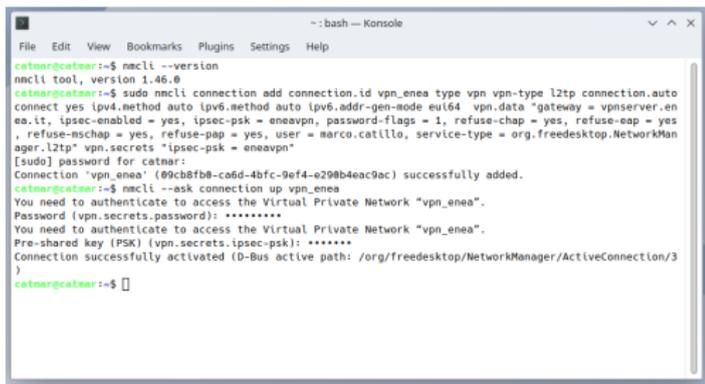


```
--: bash -- Konsole
File Edit View Bookmarks Plugins Settings Help
catmar@catmar:~$ nmcli --version
nmcli tool, version 1.46.0
catmar@catmar:~$ sudo nmcli connection add connection.id vpn_enea type vpn vpn-type l2tp connection.auto
connect yes ipv4.method auto ipv6.method auto ipv6.addr-gen-mode eui64 vpn.data "gateway = vpnserver.ene
a.it, ipsec-enabled = yes, ipsec-psk = enevpn, password-flags = 1, refuse-chap = yes, refuse-eap = yes
, refuse-mschap = yes, refuse-pap = yes, user = marco.catllo, service-type = org.freedesktop.NetworkMan
ager.l2tp" vpn.secrets "ipsec-psk = enevpn"
[sudo] password for catmar:
Connection 'vpn_enea' (09cb8fb0-ca6d-4bfc-9ef4-e290b4eac9ac) successfully added.
catmar@catmar:~$ nmcli --ask connection up vpn_enea
```

Sostituire in *[Nome]* il nome della vostra connessione VPN precedentemente creata.

Step 3 - Attivare la connessione VPN

- ▶ A questo punto vi sarà richiesto di inserire la password. Inserite la password delle credenziali ASIE. Premete invio e di nuovo invio, senza quindi modificare la Pre-shared key (PSK).

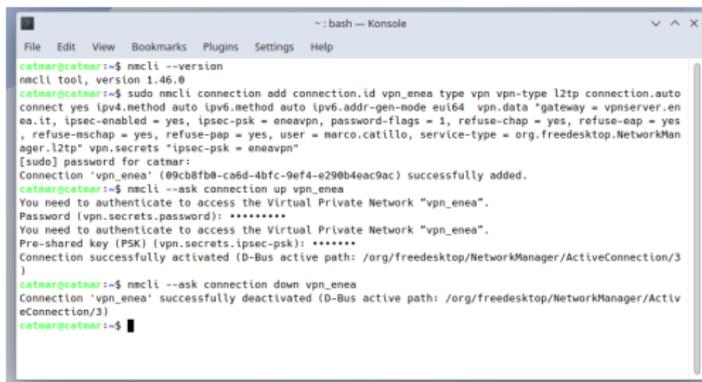


```
catmar@catmar:~$ nmcli --version
nmcli tool, version 1.46.0
catmar@catmar:~$ sudo nmcli connection add connection.id vpn_enea type vpn vpn-type l2tp connection.auto
connect yes ipv4.method auto ipv6.method auto ipv6.addr-gen-mode eui64 vpn.data "gateway = vpnserver.en
ea.it, ipsec-enabled = yes, ipsec-psk = eneavpn, password-flags = 1, refuse-chap = yes, refuse-eap = yes
, refuse-mschap = yes, refuse-pap = yes, user = marco.catillo, service-type = org.freedesktop.NetworkMan
ager.L2tp" vpn.secrets "ipsec-psk = eneavpn"
[sudo] password for catmar:
Connection 'vpn_enea' (09cb8fb8-ca6d-4bfc-9ef4-e298b4eac9ac) successfully added.
catmar@catmar:~$ nmcli --ask connection up vpn_enea
You need to authenticate to access the Virtual Private Network "vpn_enea".
Password (vpn.secrets.password): *****
You need to authenticate to access the Virtual Private Network "vpn_enea".
Pre-shared key (PSK) (vpn.secrets.ipsec-psk): *****
Connection successfully activated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/3
)
catmar@catmar:~$
```

La connessione alla rete ENEA è ora attiva e potrai quindi accedere a tutti i servizi all'interno della rete.

Step 4 - Disattivare la connessione VPN

- ▶ Per disattivare la connessione basta digitare da terminale `nmcli --ask connection down [Nome]`



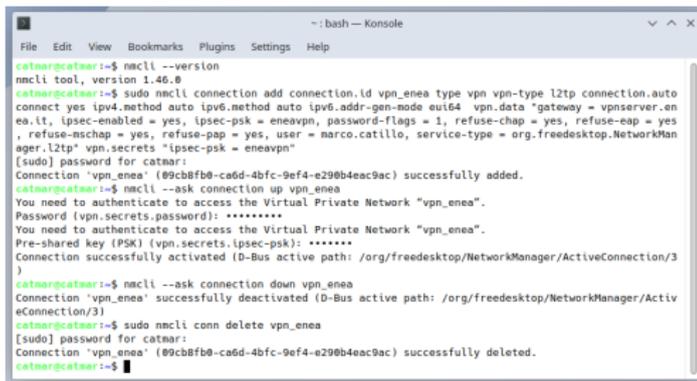
```
catmar@catmar:~$ nmcli --version
nmcli tool, version 1.46.0
catmar@catmar:~$ sudo nmcli connection add connection.id vpn_enea type vpn vpn-type l2tp connection.auto
connect yes ipv4.method auto ipv6.method auto [ipv6.addr-gen-mode eui64 vpn.data 'gateway = vpnserver.ene
ea.it, ipsec-enabled = yes, ipsec-psk = eneavpn, password-flags = 1, refuse-chap = yes, refuse-eap = yes
, refuse-mschap = yes, refuse-pap = yes, user = marco.catillo, service-type = org.freedesktop.NetworkMan
ager.L2TP' vpn.secrets 'ipsec-psk = eneavpn'
[sudo] password for catmar:
Connection 'vpn_enea' (09cb8fb0-ca6d-4bfc-9ef4-e290b4eac9ac) successfully added.
catmar@catmar:~$ nmcli --ask connection up vpn_enea
You need to authenticate to access the Virtual Private Network "vpn_enea".
Password (vpn.secrets.password): *****
You need to authenticate to access the Virtual Private Network "vpn_enea".
Pre-shared key (PSK) (vpn.secrets.ipsec-psk): *****
Connection successfully activated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/3
)
catmar@catmar:~$ nmcli --ask connection down vpn_enea
Connection 'vpn_enea' successfully deactivated (D-Bus active path: /org/freedesktop/NetworkManager/Activ
eConnection/3)
catmar@catmar:~$
```

Sostituire in *[Nome]* il nome della vostra connessione VPN.

Step 6 - Eliminare la connessione VPN

- ▶ Per eliminare una connessione VPN precedentemente creata, digitare da terminale:

```
sudo nmcli conn delete [Nome]
```



```
--: bash -- Konsole
File Edit View Bookmarks Plugins Settings Help
catmar@catmar:~$ nmcli --version
nmcli tool, version 1.46.0
catmar@catmar:~$ sudo nmcli connection add connection.id vpn_enea type vpn vpn-type l2tp connection.auto
connect yes ipv4.method auto ipv6.method auto ipv6.addr-gen-mode eui64 vpn.data "gateway = vpnserver.en
ea.it, ipsec-enabled = yes, ipsec-psk = eneavpn, password-flags = 1, refuse-chap = yes, refuse-eap = yes
, refuse-nchap = yes, refuse-pap = yes, user = marco.catillo, service-type = org.freedesktop.NetworkMan
ager.L2tp" vpn.secrets "ipsec-psk = eneavpn"
[sudo] password for catmar:
Connection 'vpn_enea' (09cb8fb0-ca6d-4bfc-9ef4-e290b4eac9ac) successfully added.
catmar@catmar:~$ nmcli --ask connection up vpn_enea
You need to authenticate to access the Virtual Private Network "vpn_enea".
Password [vpn.secrets.password]: *****
You need to authenticate to access the Virtual Private Network "vpn_enea".
Pre-shared key (PSK) (vpn.secrets.ipsec-psk): *****
Connection successfully activated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/3
)
catmar@catmar:~$ nmcli --ask connection down vpn_enea
Connection 'vpn_enea' successfully deactivated (D-Bus active path: /org/freedesktop/NetworkManager/Activ
eConnection/3)
catmar@catmar:~$ sudo nmcli conn delete vpn_enea
[sudo] password for catmar:
Connection 'vpn_enea' (09cb8fb0-ca6d-4bfc-9ef4-e290b4eac9ac) successfully deleted.
catmar@catmar:~$
```

Sostituire in *[Nome]* il nome della vostra connessione VPN.