rijksuniversiteit groningen

centrum voor
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servicedesk

Manual	Install VPN on a Linux device

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1.Which VPN; Safenet or RDP

Safenet VPN

Safenet VPN securely connects your PC to the internet via the UG network.

- You do not need to request anything, installing the software is enough to log in with your P number or your S number
- Your PC gets a secure encrypted connection with the UG network, from there you enter the internet.
- Safenet is suitable for safe use with public WIFI facilities.
- Safenet can be used in countries with restrictions on internet traffic.

* *To install RDP VPN, read in this manual **rdp.vpn.rug.nl** in stead of **safenet.vpn.rug.nl***

RDP VPN

RDP VPN is used to make a secure connection with a PC in the UG network via the Remote Desktop Protocol.

- You do not need to request anything, installing the software is enough to log in with your P number or your S number
- RDP VPN is specifically intended for remote management of a PC using the Remote Desktop Protocol
- Without this VPN connection, it is not possible to set up an RDP session with a PC in the RUG network
- N**etwork traffic (other than RDP) is not encrypted !**

To make a connection from a Linux device, you got two clients available.

Section 2. Global Protect client for Linux This is a "closed source" Client with support for Debian, Ubuntu en Redhat.
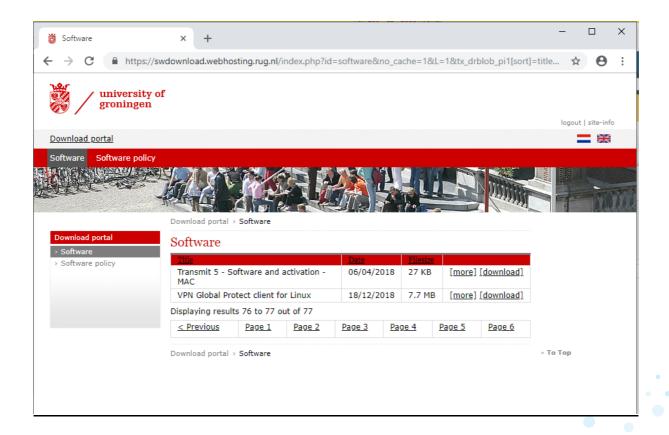
Section 3. Openconnect Client for Linux; This is a "open source" alternative and available on most modern Linux distributions. But you need at least version 8 for the right support.

2. Global Protect Client for Linux

A Global Protect client for Linux is available on the Download Portal
Browse to : **https://swdownload.webhosting.rug.nl/**
Search for "VPN Global Protect client for Linux"

Unzip the tar bal:
user@linuxhost:~$ tar -xvf ~/pkgs/PanGPLinux-4.1.7.tgz

Install Global Protect client
i.e for "Ubuntu"

user@linuxhost:~$ sudo dpkg -i GlobalProtect_deb-4.1.7.0-19.deb

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To connect, do:

user@linuxhost:~$ globalprotect
connect --portal safenet.vpn.rug.nl
Retrieving configuration...
Disconnected
Safenet.vpn.rug.nl - portal:local:Enter login credentials
username:P123456 (Your P-number or S-number)
Password:
Retrieving configuration...
Discovering network...
Connecting...
Connected

Your connection is ready

To disconnect, use the globalprotect tool:

user@linuxhost:~$ globalprotect disconnect
Disconnected

To clear the current credentials:

user@linuxhost:~$ globalprotect
remove-user
Credential will be cleared and current tunnel will be terminated.
Do you want to continue(y/n)?y
Clear is done successfully.

2. Openconnect Client for Linux

Install the openconnect package

example@ubuntu:~$ sudo apt-get install openconnect
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  openconnect
0 upgraded, 1 newly installed, 0 to remove and 60 not upgraded.
Need to get 445 kB of archives.
After this operation, 2,635 kB of additional disk space will be used.
Get:1 http://nl.archive.ubuntu.com/ubuntu disco/universe amd64 openconnect amd64
8.02-1 [445 kB]
Fetched 445 kB in 0s (2,573 kB/s)
Selecting previously unselected package openconnect.
(Reading database ... 136711 files and directories currently installed.)
Preparing to unpack .../openconnect_8.02-1_amd64.deb ...
Unpacking openconnect (8.02-1) ...
Setting up openconnect (8.02-1) ...
Processing triggers for man-db (2.8.5-2) ...

To connect, do:

example@ubuntu:~$ sudo openconnect --protocol=gp safenet.vpn.rug.nl
POST https://safenet.vpn.rug.nl/ssl-
vpn/prelogin.esp?tmp=tmp&clientVer=4100&clientos=Linux
Connected to 129.125.245.10:443
SSL negotiation with safenet.vpn.rug.nl
Connected to HTTPS on safenet.vpn.rug.nl
Enter login credentials
Username: p123456 *(Your P-number or S-number)*
Password:
POST https://safenet.vpn.rug.nl/ssl-vpn/login.esp
GlobalProtect login returned authentication-source=safenetusers-directory
POST https://safenet.vpn.rug.nl/ssl-vpn/getconfig.esp
Tunnel timeout (rekey interval) is 43200 minutes.
Idle timeout is 43200 minutes.
No MTU received. Calculated 1422 for ESP tunnel
POST https://safenet.vpn.rug.nl/ssl-vpn/hipreportcheck.esp
WARNING: Server asked us to submit HIP report with md5sum
fd7c241818173a003abeeeeeee47.
VPN connectivity may be disabled or limited without HIP report submission.
You need to provide a --csd-wrapper argument with the HIP report submission script.
Connected as 192.168.10.194, using SSL, with ESP in progress
ESP session established with server
ESP tunnel connected; exiting HTTPS mainloop.

Yur connnection is ready

For more information visit the openconnect website:
https://www.infradead.org/openconnect/

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