



Steps to Configure/Run VPN Client on Linux

1. Add FortiClient GPG key

```
wget -O - https://repo.fortinet.com/repo/7.0/ubuntu/DEB-GPG-KEY |  
sudo apt-key add -
```



```
Reading package lists... Done  
wingoffice@hemant-iiitmandi:~$ wget -O - https://repo.fortinet.com/repo/7.0/ubuntu/DEB-GPG-KEY | sudo apt-key add -  
--2023-06-28 16:11:32-- https://repo.fortinet.com/repo/7.0/ubuntu/DEB-GPG-KEY  
Resolving repo.fortinet.com (repo.fortinet.com)... 208.91.114.61  
Connecting to repo.fortinet.com (repo.fortinet.com)|208.91.114.61|:443... connected.  
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).  
HTTP request sent, awaiting response... 200 OK  
Length: 1034 (1.0K)  
Saving to: 'STDOUT'  
  
-                               I                               100%[=====]  
2023-06-28 16:11:34 (288 MB/s) - written to stdout [1034/1034]  
OK
```

2. Add FortiClient repository

```
sudo sh -c 'echo "deb [arch=amd64]  
https://repo.fortinet.com/repo/7.0/ubuntu/ /bionic multiverse" >>  
/etc/apt/sources.list.d/forticlient.list'
```

```
wingoffice@hemant-litmandi:~$ sudo sh -c 'echo "deb [arch=amd64] https://repo.fortinet.com/repo/7.0/ubuntu/ /bionic multiverse" >> /etc/apt/sources.list.d/forticlient.list'
```

3. Update Ubuntu 20.04 package lists

```
sudo apt update
```


```
wingoffice@henant-iltmandi:~$ sudo apt update
Hit:1 https://brave-browser-apt-release.s3.brave.com stable InRelease
Hit:2 https://brave-browser-apt-release.s3.brave.com stable InRelease
Hit:3 http://packages.microsoft.com/repos/code stable InRelease
Hit:4 http://deb.anydesk.com all InRelease
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:6 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:7 https://packages.microsoft.com/repos/vscode stable InRelease
Hit:8 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Hit:9 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:10 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:11 https://repo.fortinet.com/repo/7.0/ubuntu /bionic InRelease [1,916 B]
Get:12 https://repo.fortinet.com/repo/7.0/ubuntu /bionic/multiverse amd64 Packages [2,465 B]
Fetched 4,381 B in 2s (2,373 B/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
3 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: https://repo.fortinet.com/repo/7.0/ubuntu/dists//bionic/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
```

4. Install FortiClient on Ubuntu 20.04

```
sudo apt install forticlient
```

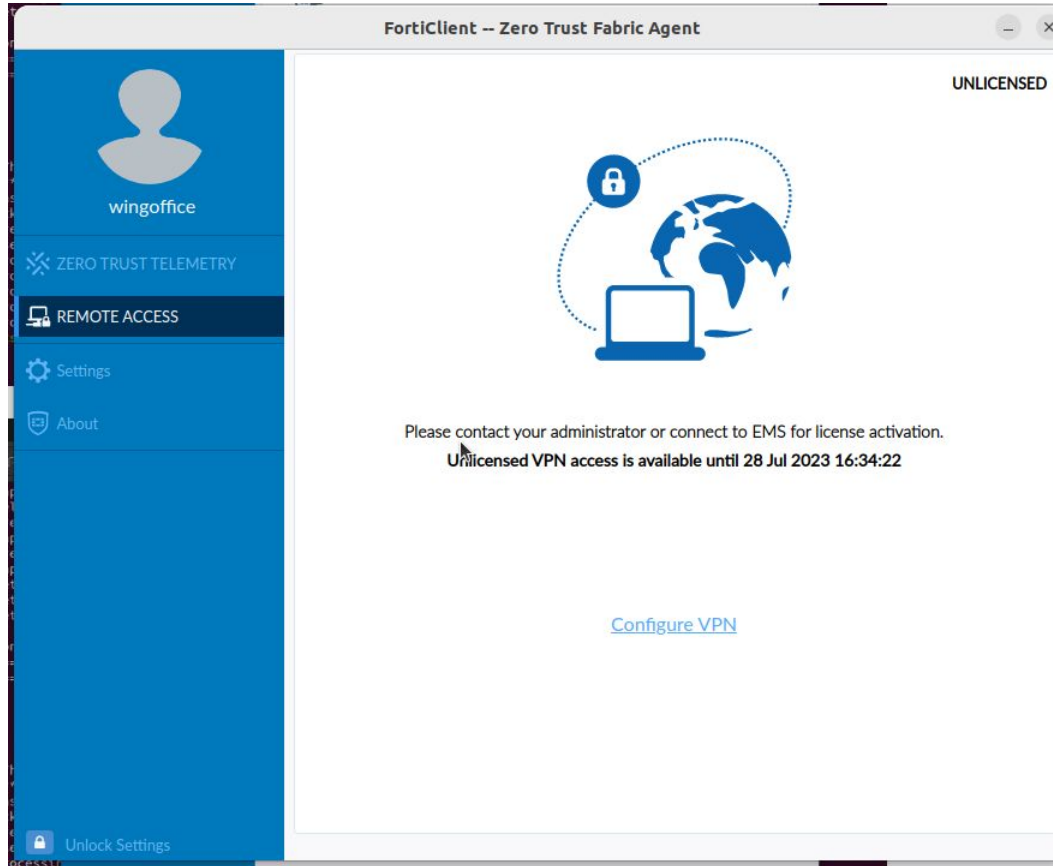
```
wingoffice@hemant-litmandi:~$ sudo apt install forticlient
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libflashrom1 libftdi-2 libgtkglext1 libllvm13
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  gconf-service gconf-service-backend gconf2-common libappindicator1 libdbusmenu-gtk4 libgconf-2-4 libnss3-tools
Suggested packages:
  indicator-application
The following NEW packages will be installed:
  forticlient gconf-service gconf-service-backend gconf2-common libappindicator1 libdbusmenu-gtk4 libgconf-2-4 libnss3-tools
0 upgraded, 8 newly installed, 0 to remove and 3 not upgraded.
Need to get 191 MB of archives.
After this operation, 708 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://repo.fortinet.com/repo/7.0/ubuntu/bionic/multiverse amd64 forticlient amd64 7.0.8.0292 [189 MB]
Get:2 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 gconf2-common all 3.2.6-7ubuntu2 [698 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libgconf-2-4 amd64 3.2.6-7ubuntu2 [86.0 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 gconf-service-backend amd64 3.2.6-7ubuntu2 [59.3 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 gconf-service amd64 3.2.6-7ubuntu2 [17.4 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libdbusmenu-gtk4 amd64 16.04.1+18.10.20180917-0ubuntu8 [30.9 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libappindicator1 amd64 12.10.1+20.10.20200706.1-0ubuntu1 [23.1 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 libnss3-tools amd64 2:3.68.2-0ubuntu1.2 [565 kB]
Fetched 191 MB in 21min 57s (145 kB/s)
Selecting previously unselected package gconf2-common.
(Reading database ... 215378 files and directories currently installed.)
Preparing to unpack .../0-gconf2-common_3.2.6-7ubuntu2_all.deb ...
Unpacking gconf2-common (3.2.6-7ubuntu2) ...
Selecting previously unselected package libgconf-2-4:amd64.
Preparing to unpack .../1-libgconf-2-4_3.2.6-7ubuntu2_amd64.deb ...
Unpacking libgconf-2-4:amd64 (3.2.6-7ubuntu2) ...
Selecting previously unselected package gconf-service-backend.
Preparing to unpack .../2-gconf-service-backend_3.2.6-7ubuntu2_amd64.deb ...
Unpacking gconf-service-backend (3.2.6-7ubuntu2) ...
Selecting previously unselected package gconf-service.
Preparing to unpack .../3-gconf-service_3.2.6-7ubuntu2_amd64.deb ...
Unpacking gconf-service (3.2.6-7ubuntu2) ...
Selecting previously unselected package libdbusmenu-gtk4:amd64.
Preparing to unpack .../4-libdbusmenu-gtk4_16.04.1+18.10.20180917-0ubuntu8_amd64.deb ...
Unpacking libdbusmenu-gtk4:amd64 (16.04.1+18.10.20180917-0ubuntu8) ...
Selecting previously unselected package libappindicator1.
Preparing to unpack .../5-libappindicator1_12.10.1+20.10.20200706.1-0ubuntu1_amd64.deb ...
Unpacking libappindicator1 (12.10.1+20.10.20200706.1-0ubuntu1) ...
Selecting previously unselected package libnss3-tools.
Preparing to unpack .../6-libnss3-tools_2%3a3.68.2-0ubuntu1.2_amd64.deb ...
Unpacking libnss3-tools (2:3.68.2-0ubuntu1.2) ...
Selecting previously unselected package forticlient.
Preparing to unpack .../7-forticlient_7.0.8.0292_amd64.deb ...
Unpacking forticlient (7.0.8.0292) ...
Setting up gconf2-common (3.2.6-7ubuntu2) ...
```

Install FortiClient on Ubuntu 20.04.. continues

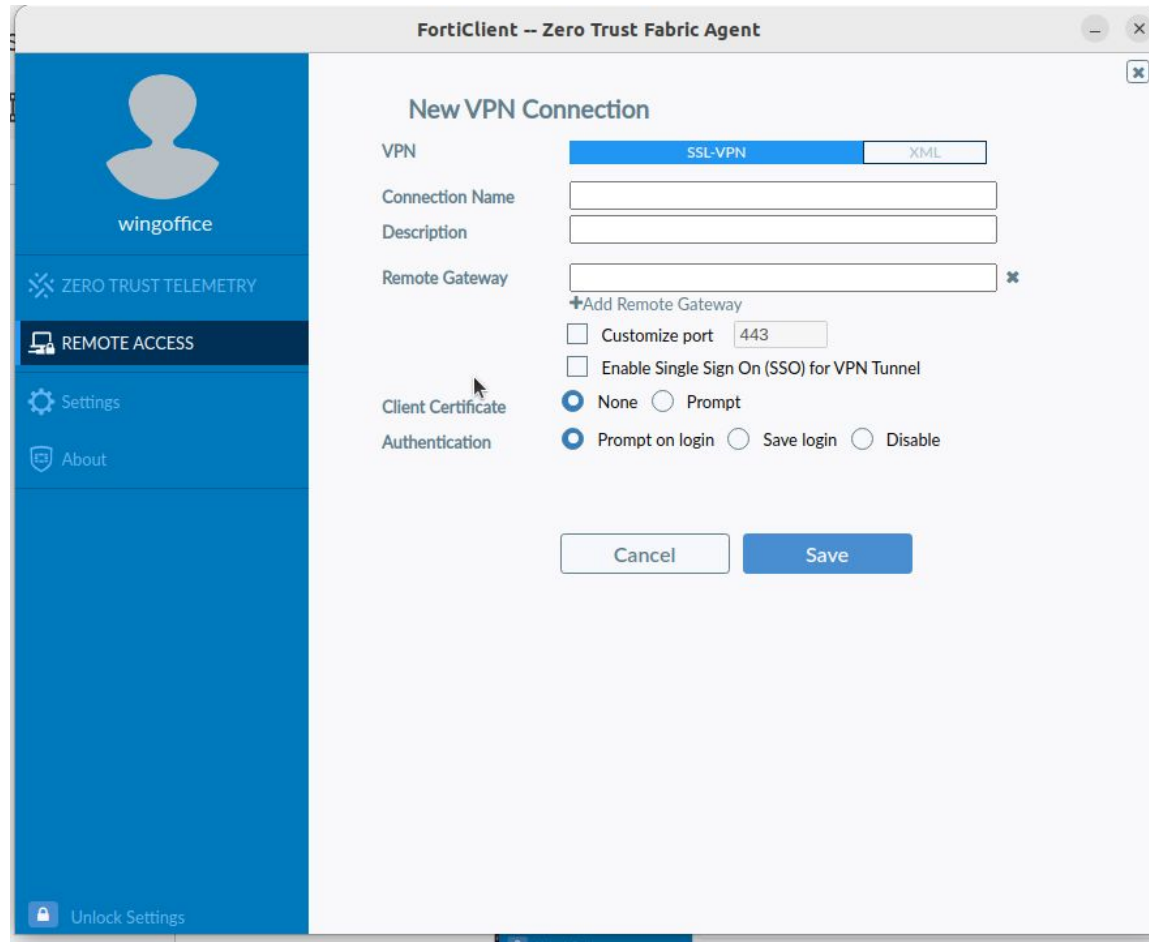


```
Creating config file /etc/gconf/2/path with new version
Setting up libdbusmenu-gtk4:amd64 (16.04.1+18.10.20180917-0ubuntu8) ...
Setting up libnss3-tools (2:3.68.2-0ubuntu1.2) ...
Setting up libappindicator1 (12.10.1+20.10.20200706.1-0ubuntu1) ...
Setting up gconf-service (3.2.6-7ubuntu2) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for sgml-base (1.30) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
Setting up libgconf-2-4:amd64 (3.2.6-7ubuntu2) ...
Setting up gconf-service-backend (3.2.6-7ubuntu2) ...
Setting up forticlient (7.0.8.0292) ...
gtk-update-icon-cache: Cache file created successfully.
Created symlink /etc/systemd/system/multi-user.target.wants/forticlient.service → /lib/systemd/system/forticlient.service.
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
```

5. Run FortiClient VPN on your system.



6. Click to Configure your VPN client



The screenshot shows the FortiClient application window titled "FortiClient -- Zero Trust Fabric Agent". On the left is a blue sidebar with a user profile for "wingoffice", "ZERO TRUST TELEMETRY", "REMOTE ACCESS" (highlighted), "Settings", and "About". At the bottom of the sidebar is an "Unlock Settings" button. The main content area is titled "New VPN Connection" and contains the following fields and options:

- VPN:** A toggle switch with "SSL-VPN" selected and "XML" as an alternative.
- Connection Name:** An empty text input field.
- Description:** An empty text input field.
- Remote Gateway:** An empty text input field with a plus icon and a close icon (x).
- +Add Remote Gateway:** A sub-section containing:
 - Customize port: 443
 - Enable Single Sign On (SSO) for VPN Tunnel
- Client Certificate:** Radio buttons for "None" (selected) and "Prompt".
- Authentication:** Radio buttons for "Prompt on login" (selected), "Save login", and "Disable".

At the bottom of the configuration area are two buttons: "Cancel" and "Save".

7. Fill the following information as provided below:



Connection Name: IIT Mandi VPN
Remote Gateway: vpn.iitmandi.ac.in
Customise Port: 10443

The screenshot shows the 'FortiClient -- Zero Trust Fabric Agent' window with the 'New VPN Connection' dialog open. The left sidebar shows the user 'wingoffice' and navigation options: ZERO TRUST TELEMETRY, REMOTE ACCESS (selected), Settings, and About. The main area contains the following fields and options:

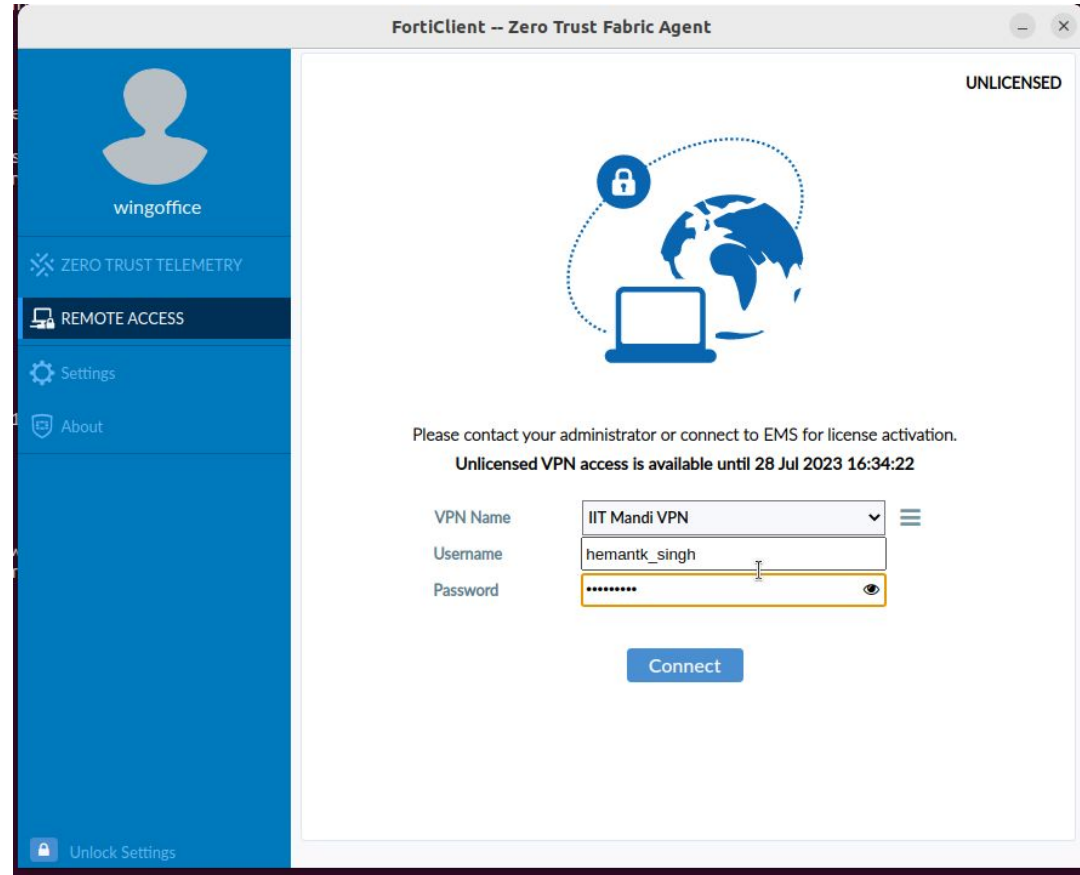
- VPN:** SSL-VPN (selected), XML
- Connection Name:** IIT Mandi VPN
- Description:** (empty)
- Remote Gateway:** vpn.iitmandi.ac.in
- Customize port:** (checked), 10443
- Enable Single Sign On (SSO) for VPN Tunnel:** (unchecked)
- Client Certificate:** None, Prompt
- Authentication:** Prompt on login, Save login, Disable

Buttons at the bottom: Cancel, Save.

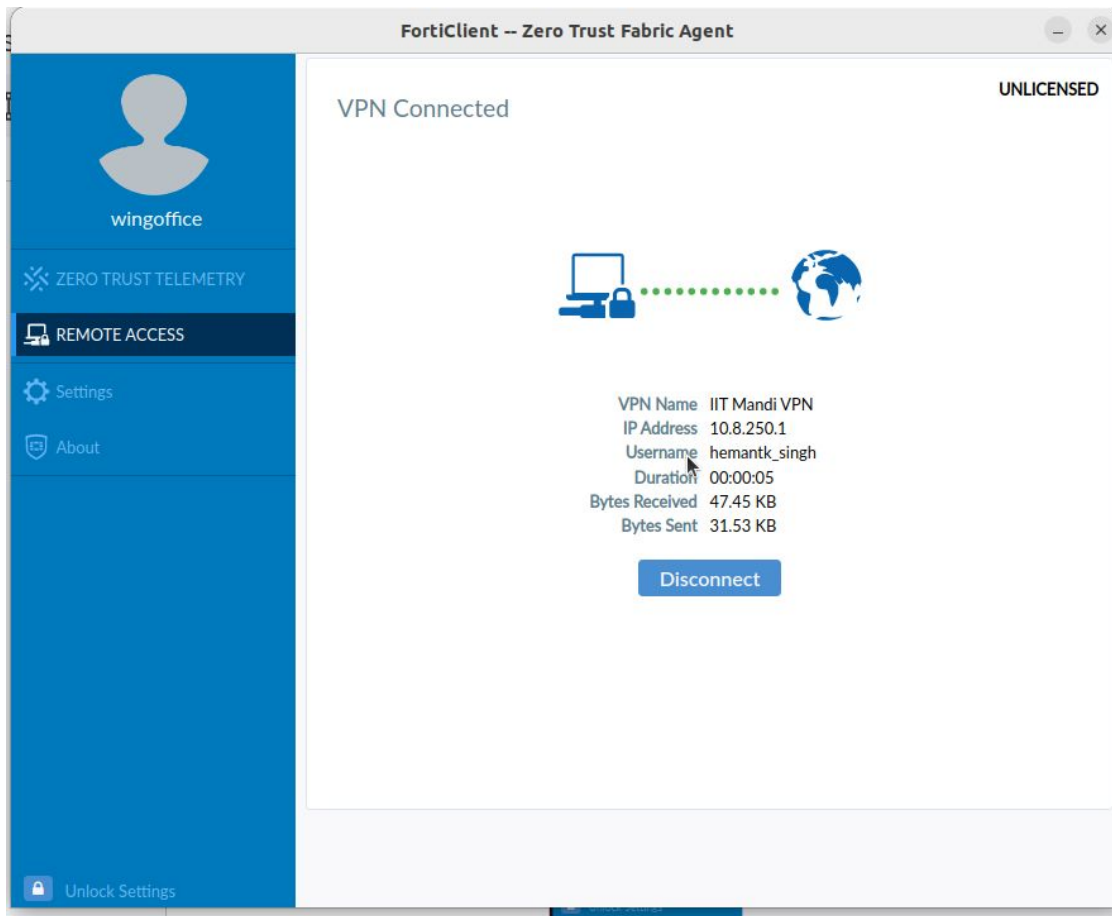
8. Login using your IIT Mandi LDAP ID and Password:



VPN Name: IIT Mandi VPN
Username: <ldap username>
Password: <ldap password>



9. VPN is now connected.



The screenshot shows the FortiClient interface with the VPN connection established. The window title is "FortiClient -- Zero Trust Fabric Agent". The left sidebar contains the user profile "wingoffice", "ZERO TRUST TELEMETRY", "REMOTE ACCESS", "Settings", and "About". The main area displays "VPN Connected" and "UNLICENSED". A diagram shows a laptop connected to a globe. Connection statistics are listed below, and a "Disconnect" button is at the bottom.

VPN Connected

UNLICENSED

VPN Name IIT Mandi VPN
IP Address 10.8.250.1
Username hemantk_singh
Duration 00:00:05
Bytes Received 47.45 KB
Bytes Sent 31.53 KB

Disconnect

Unlock Settings