

# OpenVPN under Ubuntu

Stand: b'30. April 2020'

## 1 Preface

This guide was created under Ubuntu 18.04 (kernel 4.18.0-16). The NetworkManager 1.10.6 and OpenVPN 2.4.4 were used.

*Notice:* Although this guide covers setup under Ubuntu 18.04, installation is similar on most versions of Linux. This applies to newer versions of Ubuntu as well as to other distributions based on Debian (e.g. Linux Mint). Also distributions with other interfaces (GNOME, LXDE, Xfce, partly KDE) work similarly.

If you are using an older Linux distribution or a distribution without NetworkManager, please follow the instructions for [oldest Ubuntu versions](#) or for [.](#)

## 2 Prerequisites

To use OpenVPN according to this manual you need

- a functioning Internet access (e.g. via DSL connection) and
- an account at the CMS or at the Institute for Mathematics, Computer Science or Physics.
- NetworkManager in the version greater-than-equal 1.10.0

*Notice:* If you are not sure which version your NetworkManager has, open a terminal and enter `dpkg -l network-manager`. After the entry `ii network-manager` you will find the version number.

### 3 Preparation

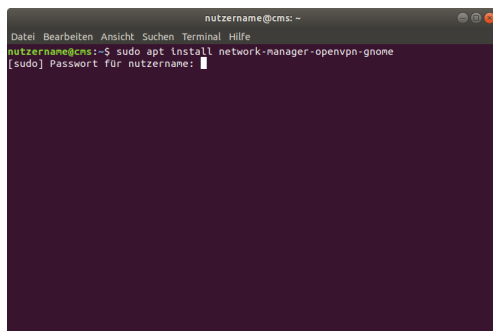
#### benötigte Dateien

Die folgenden Dateien werden zur Ausführung der Anleitung benötigt:

Datei	Beschreibung
<a href="#">hu-berlin.ovpn</a>	OpenVPN-Konfigurationsdatei
<a href="#">hu-berlin-Alt</a>	OpenVPN-Konfigurationsdatei

Open a web browser and download from the [configuration page](#) the required configuration file and save it locally (e.g. in your home directory):

- [hu-berlin.ovpn](#)
- [hu-berlin alternative.ovpn](#)



Now open a terminal window and download all required packages with the following command:

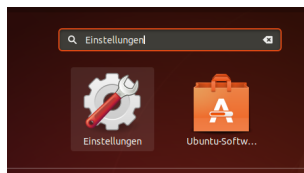
```
sudo apt install
network-manager-openvpn-gnome a
```

Confirm the question whether to continue with “Yes” and wait until the installation is complete.

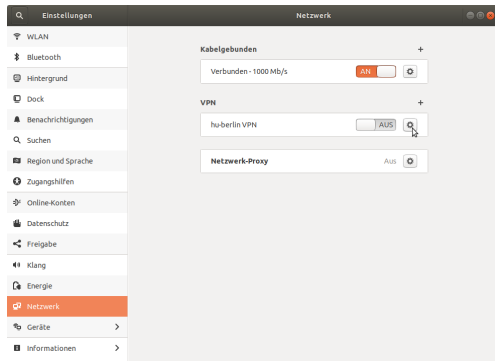
<sup>a</sup>If you are using KDE as your desktop environment, please run `sudo apt install network-manager-openvpn plasma-nm off`.

### 4 Removal of old VPN profiles

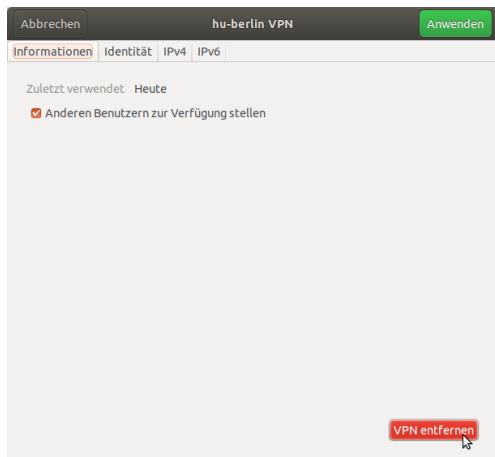
If you have already used OpenVPN, you must first remove the old VPN configuration for the VPN setup. If you have not used OpenVPN before, go to section 5.



Open Ubuntu search and enter **Settings**. Click on the icon with the signature „Settings“.

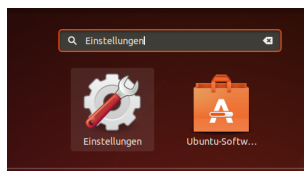


Select **Network** from the list on the left. Then select the OpenVPN configuration **hu-berlin VPN** and click on the button with the gear-wheel.

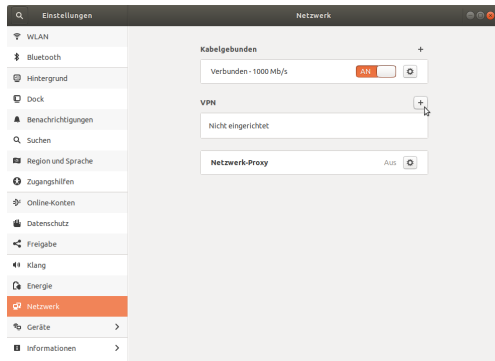


Click on the red button **VPN remove** in the new window

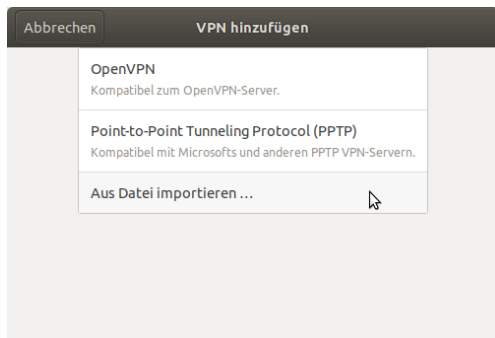
## 5 Import OpenVPN Configuration



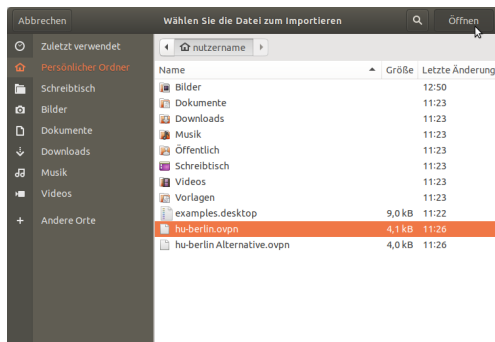
Open Ubuntu search and enter **Settings**. Click on the icon with the signature „Settings“.



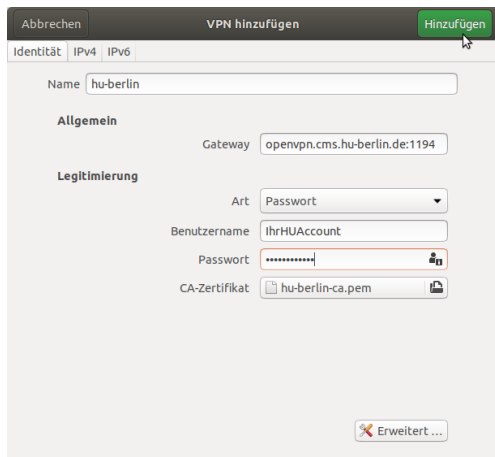
Select **Network** from the list on the left. Click on the plus button.



Choose **Import from file...**



Select the downloaded configuration file and click on **Open**.



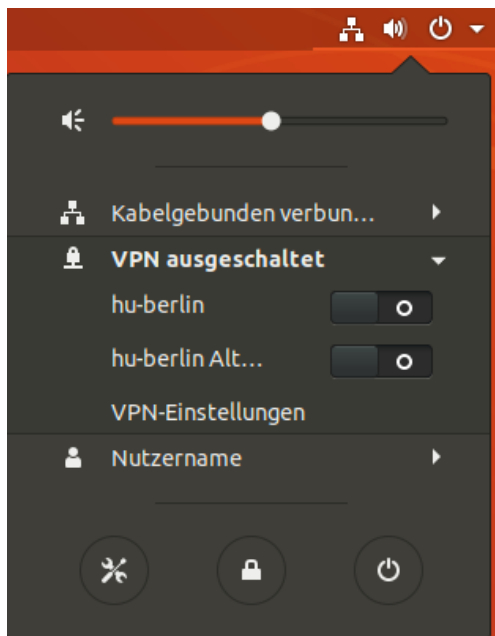
Enter your HU username and password.

Hinweis: Abhängig davon an welcher Einrichtung Sie Ihren Account haben, müssen Sie eine Erweiterung an Ihren Benutzernamen anhängen. Die Erweiterung können Sie der folgenden Tabelle entnehmen. Wenn Sie nicht wissen, wo Sie Ihren Account haben, ist er wahrscheinlich beim CMS (zentraler HU-Account).

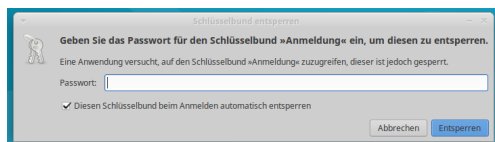
Einrichtung	Erweiterung
Physik	@physik.hu-berlin.de
Mathematik	@mathematik.hu-berlin.de
Informatik	@informatik.hu-berlin.de
CMS	keine Erweiterung

Now close the windows by clicking on **Add**.

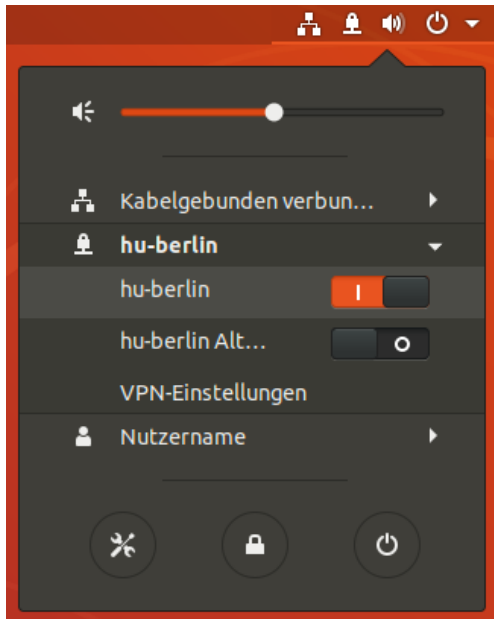
## 6 OpenVPN connection



If you want to connect to the VPN now, click on the network icon in the task bar, then on **VPN switched off** and then on the connection you have set up before (here: **hu-berlin**).



You may need to unlock the keychain with your Linux login password.



The VPN connection is now active and can be used.

If you want to check if the VPN connection was successful, click on the network icon in the task bar, then on **hu-berlin**. Behind the active VPN connection you will now see a one with an orange background.