VPN
Linux 64-bit - Instructions
Version 5.6

These instructions were created using an Ubuntu Linux 14.04 LTS 64-bit system. The Cisco AnyConnect Client is available exclusively for 64-bit Linux systems.

1. Cisco AnyConnect VPN Client Installation Using Ubuntu as an Example

- Download the Cisco AnyConnect VPN Client from the RRZ website. The download requires you to log in with your user ID (b******)
- Extract the archive by right-clicking and selecting “Extract here” (Fig. 1a).

Fig. 1a: Extracting the archive

Fig. 1b: Open Terminal

- Open a terminal window (Fig. 1b) and grant yourself root privileges (*sudo su*).
- Navigate to the directory you just extracted and then to the /vpn subfolder.
- Mark the installation script *vpn_install.sh* as executable (*chmod +x vpn_install.sh*) and
- Run it by entering *“. /vpn_install.sh*” (Fig. 2).

```
root@rrz-studi: /home/ubuntu-test/Schreibtisch/anyconnect-4.2.01022/vpn
ubuntu-test@rrz-studi:~$ sudo su
[sudo] password for ubuntu-test:
root@rrz-studi:/home/ubuntu-test# cd /home/ubuntu-test/Schreibtisch/anyconnect-4.2.01022/vpn
root@rrz-studi:/home/ubuntu-test/Schreibtisch/anyconnect-4.2.01022/vpn# chmod +x vpn_install.sh
root@rrz-studi:/home/ubuntu-test/Schreibtisch/anyconnect-4.2.01022/vpn# ./vpn_install.sh
```
Fig. 2: Installing the AnyConnect client

- The installation script displays the license agreement. Accept it by entering *“y*”.
- After installation, the Cisco VPN Agent starts and the installation is complete (Fig. 3).

```
Do you accept the terms in the license agreement? [y/n] y
You have accepted the license agreement.
Please wait while Cisco AnyConnect Secure Mobility Client is being installed...
Starting Cisco AnyConnect Secure Mobility Client Agent...
Done!
root@rrz-studi:/home/ubuntu-test/Schreibtisch/anyconnect-4.2.01022/vpn#
```
Fig. 3: Successful completion of the installation

- After successful installation, you can start the Cisco AnyConnect Client with “*./vpnui*” in the directory /opt/cisco/anyconnect/bin/ (Fig. 4).

```
ubuntu-test@rrz-studi: ~
ubuntu-test@rrz-studi:~$ /opt/cisco/anyconnect/bin/vpnui
```
Fig. 4: Launching the AnyConnect client

- Please continue with Section 2. *Au@au of the VPN connection*.

2. Establishing the VPN connection

a) Establishing a connection to the data network

Before you can log in to the University of Hamburg's data network using the AnyConnect VPN client, you must establish a connection between your computer and the Internet or the University of Hamburg's network. There are several ways to do this:

- Access via the University of Hamburg's Wi-Fi access points. To use the UHH's VPN, you must connect to a University of Hamburg access point using the SSID "UHH." Information about the locations of the access points is available on the RRZ website.
- Connect your computer to one of the public network jacks at the University of Hamburg, marked in blue. Information about the locations of the public network jacks is available on the RRZ website.
- Connection via any internet service provider, e.g., from home via DSL or at an internet café.

b) VPN connection

The VPN connection to the University of Hamburg's data network is established using the Cisco AnyConnect VPN Client. Please follow these steps:

- Start the VPN client: Open a console window and, in the directory "/opt/cisco/anyconnect/bin/", start the vpnui program by entering *". /vpnui*" (see Fig. 4).
- When you launch the Cisco AnyConnect client for the first time, you must enter the address of the University of Hamburg's VPN gateway (*vpn.rrz.uni-hamburg.de*) in the "Connect to:" field (Fig. 5a).
- After confirming the entry by clicking the "Select" button, the AnyConnect client connects to the VPN gateway and prompts you for your username (b******) and password (Fig. 5b). Please accept any prompt that may appear regarding the certificate being used.
- The next time you launch the AnyConnect client, the UHH VPN gateway and your username (b******) will be preselected, and you will be prompted to enter your password.
- If multiple connections are saved in the AnyConnect Client, you must first select "Connect to:" and click "Select" (Fig. 5a) before you are prompted to enter your user ID (b******) and password (Fig. 5b).

Fig. 5a: Select UHH VPN access

Fig. 5b: Enter user credentials

3. Enable access to the local network

If you wish to access your local network while connected via VPN, please configure the setting described below. **Warning:** This poses a security risk! Under no circumstances should you make this setting if you are connected to an internet café's Wi-Fi or another public network!

- Please open the AnyConnect program window.
- Go to the "Connection" tab and select the "Preferences" for the connection "vpn.rrz.uni-hamburg.de" using the button to the right of the entry.
- Then check the box "Enable local (LAN) access when using VPN (if configured)" and confirm your selection by clicking the "Close" button (Fig. 6).

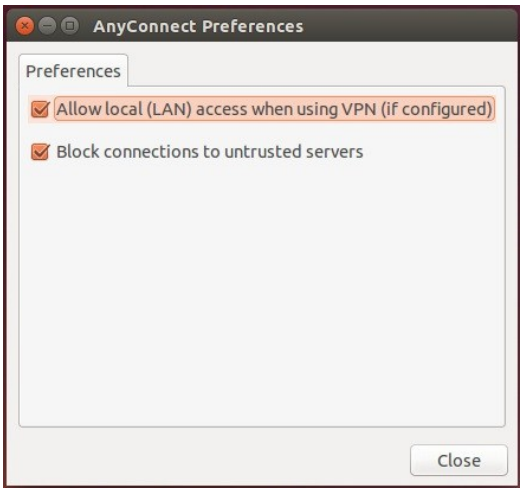

Fig. 6: Allow local network access