

# VPN (Virtual Private Network) at the Free University of Bolzano/Bozen

## Infos regarding the usage of VPN

<http://www.unibz.it/en/ict/ComputerInternet/network/vpn/default.html>

## Instructions for Windows 2000, XP, VISTA and 7 - 32bit and 64bit

<http://www.unibz.it/en/ict/ComputerInternet/network/vpn/InstallationWindows.html>

## Instructions for MacOS X 10.4

<http://www.unibz.it/en/ict/ComputerInternet/network/vpn/InstallationMacOSX.html>

## Instructions for MacOS X 10.6

There is no need to install a Client, simply download and install (doubleclick) the following file:

[unibz.networkconnect.zip](#)

## Instructions for Linux vpnc Client (recommended)

1. Install vpnc

```
sudo aptitude install vpnc
```

2. Create configuration file unibz.conf.

IPSec obfuscated secret needs to be on a single line.  
Replace <your-windows-login> with your username.

```
sudo vi /etc/vpnc/unibz.conf
```

```
#####
```

```
IPSec gateway vpn.unibz.it
```

```
IPSec ID Unibz
```

```
IPSec obfuscated secret
```

```
06294C134E0BEBDA4B449B56BFD305D35D12DABF4044EDB6794926C2CA6D5AEDFE6342DF190E  
566EB11215DDC1591D5CB6ABEBEB593693C6D0B2077D78034B6AFEEA3221E77F4
```

```
C9858DD711AA8DE58F6
Xauth username <your-windows-login>
#####
```

apply this rights:

```
sudo chmod 600 /etc/vpnc/unibz.conf

sudo chown root.root /etc/vpnc/unibz.conf
```

```
sudo ls -l /etc/vpnc/unibz.conf
-rw----- 1 root root 250 2009-05-02 15:54 /etc/vpnc/unibz.conf
```

### 3. Start vpnc

```
sudo vpnc-connect --domain unibz unibz
```

This will first ask for your sudo password and then your <unibz-password>

### 4. Stop vpnc

```
sudo vpnc-disconnect
```

## Possible errors

When one attempts to connect to their VPN after installing and configuring vpnc on Ubuntu Oneiric, the following error occurs:

```
root@ubuntu:~# vpnc-connect
Error: either "to" is duplicate, or "ipid" is a garbage.
```

It appears that the Ubuntu package vpnc comes with an old version of vpnc-script. This script is what sets up all the addresses and routes for you. The OpenConnect project provides an updated / revised release of this script. Download the latest copy from [here](#). Replace the vpnc-script script that comes with the Ubuntu vpnc package: /etc/vpnc/vpnc-script

## Instructions for Linux Cisco AnyConnect Client

### Installation

1. Open with your browser (tested with firefox 11.0) the following URL:

<https://vpn.scientificnet.org>

2. Enter your Username and password, then press **Login**

3. A "Warning - Security" Windows opens: This will install the Cisco AnyConnect Client

in /opt/cisco of your Platform.

4. Press **Run** on the “Warning - Security” Window



5. In order to install Cisco AnyConnect, Admin (sudo) rights are required; a Window opens, enter your local password.



6. The Cisco AnyConnect is installed and running, you can close the URL.



## Launching Cisco AnyConnect GUI

This allows you to connect and disconnect the VPN service.

```
/opt/cisco/anyconnect/bin/vpnui
```

Please note the vpnagentd must be running for this

- ps auxww | grep vpn

```
root      1759  0.0  0.3 17984  7644 ?        S   12:58   0:00
/opt/cisco/anyconnect/bin/vpnagentd
```

## Launching Cisco AnyConnect NON-GUI

This allows you to connect and disconnect the VPN service.

- /opt/cisco/anyconnect/bin/vpn

```
Cisco AnyConnect Secure Mobility Client (version 3.0.5080) .
```

```
Copyright (c) 2004 - 2011 Cisco Systems, Inc.
All Rights Reserved.
```

```
>> state: Disconnected
>> state: Disconnected
>> notice: Ready to connect.
>> registered with local VPN subsystem.
VPN> connect vpn.unibz.it
connect vpn.unibz.it
>> contacting host (vpn.unibz.it) for login information...
>> notice: Contacting vpn.unibz.it.
VPN>
>> Please enter your username and password.
```

```
0) clientless
1) scientificnetwork
Group: [clientless]

Username: <your-username>
Password:
>> state: Connecting
>> notice: Establishing VPN session...
>> notice: Checking for profile updates...
>> notice: Checking for product updates...
>> notice: Checking for customization updates...
>> notice: Performing any required updates...
>> state: Connecting
>> notice: Establishing VPN session...
>> notice: Establishing VPN - Initiating connection...
>> notice: Establishing VPN - Examining system...
>> notice: Establishing VPN - Activating VPN adapter...
>> notice: Establishing VPN - Configuring system...
>> notice: Establishing VPN...
>> state: Connected
>> notice: Connected to vpn.unibz.it.
VPN>exit
```

## Uninstalling the AnyConnect Client

The client comes with an uninstallation script

- `sudo /opt/cisco/vpn/bin/vpn_uninstall.sh`

However it doesn't actually uninstall everything properly, it removes files but leaves behind directories.

You can clean up what it leaves behind by deleting the directory `/opt/cisco/` and `/opt/.cisco/`

- `sudo rm -r /opt/cisco /opt/.cisco`

Per-user configuration is stored in your home directory in a file called `.anyconnect`

## Shrew Soft VPN Client Instructions for 32 or 64 bit version of Windows 2000, XP, Vista and 7 (recommended)

1. Go to <http://www.shrew.net/home> and download latest stable release of Shrew Soft VPN Client for Windows: <http://www.shrew.net/download/vpn>

2. Download unibz profile (need to login with unibz login&password)  
<https://pro.unibz.it/vpn/profiles/unibz/Free%20University%20of%20Bozen-Bolzano.zip>

3. Install Shrew Soft VPN Client for Windows

#### 4. Start Shrew Soft VPN Client, unzip unibz profile and Import in VPN client

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