

DEPARTMENT OF COMPUTER SCIENCE

VPN Client Setup Guide

Overview

A Virtual Private Network (VPN) is used to securely access the Big Data Lab from off campus. Faculty and students with access to the Big Data Lab may use this VPN. The OpenVPN client or compatible software must be installed and configured with a client profile to connect to the Computer Science VPN. These instructions and additional support materials are available at http://csconnect.hofstra.edu/.

OpenVPN client on Linux

1. Install OpenVPN

On Debian/Ubuntu:

~\$ sudo apt-get install openvpn

On RedHat/CentOS:

~\$ sudo yum install openvpn

2. Download the client profile

Go to <u>http://csconnect.hofstra.edu/</u> and enter your network credentials to download your profile. Then extract the contents of the tar:

~\$ tar -xvf profile.tar

3. Move the VPN client profile into place:

~\$ sudo mv profile/profile.ovpn /etc/openvpn/client.conf

4. Restart the OpenVPN daemon:

~\$ sudo /etc/init.d/openvpn start

Alternatively, you may run OpenVPN directly:

~\$ sudo openvpn --config /etc/openvpn/client.conf

OpenVPN client on Windows

1. Go to the OpenVPN download page at <u>http://openvpn.net/index.php/open-source/downloads.html</u> and download the OpenVPN client installer.

Source Tarball (gzip)	openvpn-2.3.11.tar.gz	GnuPG Signature	
Source Tarball (xz)	openvpn-2.3.11.tar.xz	GnuPG Signature	
Source Zip	openvpn-2.3.11.zip	GnuPG Signature	
Installer (32-bit), Windows XP	openvpn-install-2.3.11-1001-i686.exe	GnuPG Signature	
Installer (64-bit), Windows XP	openvpn-install-2.3.11-1001-x86_64.exe	GnuPG Signature	
Installer (32-bit), Windows Vista and later	openvpn-install-2.3.11-I601-i686.exe	GnuPG Signature	
Installer (64-bit), Windows Vista and later	openvpn-install-2.3.11-I601-x86_64.exe	GnuPG Signature	

2. Launch the installer and follow the prompts as directed.



3. Click "I Agree" to continue.

OpenVPN 2.3.11-I601 Setup							
PENVPN License Agreement Please review the license terms before installing OpenVPN 2.3.11-I601.							
Press Page Down to see the rest of the agreement.							
OpenVPN (TM) An Open Source VPN daemon							
Copyright (C) 2002-2010 OpenVPN Technologies, Inc. <sales@openvpn.net></sales@openvpn.net>							
This distribution contains multiple components, some of which fall under different licenses. By using OpenVPN or any of the bundled components enumerated below, you agree to be bound by the conditions of the license for each respective component.							
OpenVPN trademark 👻							
, If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install OpenVPN 2.3.11-I601.							
Nullsoft Install System v2.46-101							

4. Leave the default selection of components and click "Next".

OpenVPN 2.3.11-I601 Setup								
OPENVPN	hoose Components Choose which features of OpenVPN 2.3.11-I601 you want to nstall.							
Select the components to install/upgrade. Stop any OpenVPN processes or the OpenVPN service if it is running. All DLLs are installed locally.								
Select components to install:	OpenVPN User-Space Components OpenVPN Service TAP Virtual Ethernet Adapter OpenVPN GUI OpenVPN File Associations OpenSSL Utilities							
Space required: 4.2MB	Position your mouse over a component to see its description,							
Nullsoft Install System v2.46-101	< <u>B</u> ack <u>N</u> ext > Cancel							

5. Accept the default installation path and click "Install".

OpenVPN 2.3.11-I601 Setup							
Choose Install Location Choose the folder in which to install OpenVPN 2.	3.11-I601.						
Setup will install OpenVPN 2.3.11-I601 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.							
Destination Folder C:\Program Files\OpenVPN	owse						
Space required: 4.2MB Space available: 167.6GB Nullsoft Install System v2.46-101							
< Back Install	Cancel						

	🕥 OpenVPN 2.3.11-I601 Setup	
	Please wait while OpenVPN 2.3.11-I601 is being installed.	
	Removing any previous OpenVPN service	
	Removing any previous OpenVPN service	
1		
	Nullsoft Install System v2.46-101	
	< <u>B</u> ack <u>N</u> ext > Cancel	

6. When prompted, click "Install" to allow the virtual network adapter to be setup.

+ Windows Security	
Would you like to install this device software?	
Name: TAP-Windows Provider V9 Network adapters Publisher: OpenVPN Technologies, Inc.	
Always trust software from "OpenVPN Install Don't Install Technologies, Inc.". Don't Install	
You should only install driver software from publishers you trust. <u>How can I decide which</u> <u>device software is safe to install?</u>	

7. Wait for the installation to complete and click "Next".

OpenVPN 2.3.11-I601 Setup		
Installation Complete Setup was completed successfully.		
Completed		
Output folder: C:\Program Files\OpenVPN\bin Extract: liblzo2-2.dll 100% Output folder: C:\Program Files\OpenVPN\bin Extract: libpkcs11-helper-1.dll 100% Output folder: C:\Program Files\OpenVPN Extract: icon.ico 100% Output folder: C:\Program Files\OpenVPN\doc Extract: license.txt 100% Created uninstaller: C:\Program Files\OpenVPN\Uninstall.exe Completed		4 III >
Nullsoft Install System v2,46-101	(t > 	Cancel

8. Click "Finish" to complete the wizard.



9. OpenVPN GUI must always be run as administrator, but you can set it to run with elevated privileges automatically. To do so, right click on the desktop icon and select Properties.

	2	1								
Computer			Open							
			Troubl	eshoot o	compat	ibility				
			Open f	ile locati	ion					
3	I	9	Run as	adminis	strator					
Recycle Bin			Open v	with Brac	ckets					
neeyere biin			7-Zip							•
			CRC SH	AH						•
		_		th Notep						
7		_		ith Syste		ter En	dpoint	Protect	ion	
Classroom				Taskbar						
Report			Pin to :	Start Me	nu					
R			Restore	e previou	us versi	ons				
			Send to	D						•
Cygwin64			Cut							
Terminal			Сору							
			Create	shortcut	t					
			Delete							
Google			Renam	ie						
Chrome			Proper	ties						

10. From the Compatibility tab, check "Run this program as administrator" and click "OK".

OpenVPN GUI Properties								
Security	Details	Previous Versions						
General	Shortcut	Compatibility						
If you have problems with this program and it worked correctly on an earlier version of Windows, select the compatibility mode that matches that earlier version. <u>Help me choose the settings</u>								
Compatibility mode	•							
🔲 Run this prog	gram in compatibility mo	de for:						
Windows Vista		-						
Settings								
Run in 256 c	olors							
Run in 640 x	480 screen resolution							
Disable visua	al themes							
Disable desk	top composition							
Disable displa	ay scaling on high DPI	settings						
- Privilege Level								
Privilege Level Image: Run this program as an administrator								
Change settings for all users								
OK Cancel Apply								

- 11. You must first download a client profile to use the VPN. Go to <u>http://csconnect.hofstra.edu/</u> and enter your network credentials to download your profile. Once downloaded, extract the contents of the ".tar" file with 7-Zip or WinRAR.
- 12. Move the ".ovpn" file into the directory C:\Program Files\OpenVPN\config



13. You can now connect. Right click the OpenVPN icon in the taskbar notification area and click "Connect". If you have multiple configurations, select the one you want to use and then click "Connect".



14. A balloon will pop-up to notify you once the connection is established.

