## How To: Install LBL-VPN Client Software on Linux (32-bit, 64-bit biarch)

The latest VPN client software is available in the Cisco VPN section on <u>https://software.lbl.gov/</u> (LDAP username and password required to login and download software).

The following instructions are based on installing the Cisco AnyConnect VPN Client on CentOS 5.2 (kernel version 2.6.18) using Mozilla Firefox 5 to download the software. Logging in as root prior to installing the VPN Client software simplifies the procedure.

Install the Cisco VPN AnyConnect Client Software

1. Browse to the VPN section of <u>https://software.lbl.gov/</u> and download the latest **Cisco VPN AnyConnect** client for Linux. The VPN client package is provided as a .tar.gz file.

۷	Downloads	
	anyconnect-linux-2.2.0140-k9.tar.gz 2.8 MB — Ibl.gov	07:44 AM 🚆
	· · · · · · · · · ·	
8	Clear List Search	

2. Double-click on the downloaded file. Select the **ciscovpn** directory from the list, and click the Extract button.



3. An Extract window appears. Select 'File System' from the 'Extract in Folder:' drop down list. Now click this window's Extract button.

6	Extract				
Extract in folder: System	<b>\</b>				
Files	Actions				
All files	✓ Re-create folders				
○ <u>S</u> elected files	✓ Over <u>w</u> rite existing files				
O <u>F</u> iles:	Do not extract older files				
	Password:				
☑ Open destination folder after extraction					
Kelp	<b>X</b> <u>C</u> ancel				

- 4. Open a terminal window. The Cisco AnyConnect software installation will be completed from the command line interface.
  - Move to the newly created directory.

[root@linuxhost]# cd /ciscovpn

• View the newly installed files.

[root@linuxhost]# ls -1

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<u>File</u>	<u>E</u> dit	Vie	w <u>T</u> ei	rminal	Ta <u>b</u> s <u>H</u>	elp				
[roo	t@spri	te	~]# (	cd /ci	iscovpn	10				<u> </u>
[roo	t@spri	te	cisc	ovpn]#	⊭ls -l					
tota	1 6584									
- rw-	rw-r	1	503	503	281	Aug	17	17:20	anyconnect.desktop	
- rwx	r-xr-x	1	root	root	616	Feb	11	07:58	LBNLprofile.xml	
- rwx	rwxr-x	1	503	503	1149892	Aug	17	17:20	libcrypto.so.0.9.8	
- rwx	rwxr-x	1	503	503	222300	Aug	17	17:20	libssl.so.0.9.8	
- rw-	rw-r	1	503	503	5487	Aug	17	17:20	license.txt	
drwx	r-xr-x	2	root	root	4096	Feb	11	08:21	pixmaps	
- rw-	rw-r	1	503	503	9	Aug	17	17:20	update.txt	
- rwx	rwxr-x	1	503	503	1608100	Aug	17	17:20	vpn	
- rwx	rwxr-x	1	503	503	1204692	Aug	17	17:20	vpnagentd	=
- rw-	rw-r	1	503	503	1153	Aug	17	17:20	vpnagentd_init	_
- rw-	rw-r	1	503	503	697102	Aug	17	17:20	vpndownloader.sh	
- rwx	r-xr-x	1	503	503	5678	Feb	11	07:53	<pre>vpn_install.sh</pre>	
- rw-	rw-r	1	503	503	37	Aug	17	17:20	VPNManifest.dat	
- rwx	rwxr-x	1	503	503	1713540	Aug	17	17:20	vpnui	
- rwx	rwxr-x	1	503	503	_ 3654	Aug	17	17:20	vpn_uninstall.sh	
[roo	t@spri	te	Cisc	ovpn]#	<del>#</del>					
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• Execute the installation script.

[root@linuxhost]# ./vpn\_install.sh

5. Read the output carefully. Minor errors may occur, but you will know whether the installation was successful.

## Test the Newly Installed VPN Client Software

- 6. After the AnyConnect client is installed, start the client from your desktop environment. Linux operating environments vary, but the AnyConnect software should be available to you through whatever desktop environment you are running. For CentOS 5.2, navigate to: Applications menu -> Internet -> Cisco AnyConnect VPN Client.
  - Alternatively, you can start the AnyConnect GUI manually using the following command.
    - [root@linuxhost]# /opt/cisco/vpn/bin/vpnui
    - The console from which you started VPN will not return to a prompt, so you can minimize it. Please do not ctl-c to quit the software as this does not close VPN connections gracefully. Use the AnyConnect GUI instead.

- 7. The main application screen will appear and prompt you for your LDAP username and password.
  - Enter your LDAP username and password, and click Connect.

Cisco AnyCo	nnect VPN Client 📃 🗖 🔽
🗞 Connection	🚯 Statistics 🔒 About
	cisco
Connect to:	LBNL-VPN
Username:	
Password:	
Connection Ba This system is US Departme prohibited. Us in the use of	soperated under contract with the nt of Energy. Unauthorized access is sers have no expectation of privacy this system. By using this system,
ease enter vour u	sername and password

8. Click 'Accept' if you agree to the Terms of Use policy presented. If you disagree, click 'Disconnect'.

Cisco AnyConnect VPN Client				
***Connected to Lawrence Berkeley National Laboratory***				
This LBNL system is operated under a contract with the US Department of Energy. Unauthorized access is prohibited. Users have no expectation of privacy in the use of this system. By using this system, you consent to monitoring and applicable LBNL, UC, and DOE policies.				
Supported versions: Windows 64-bit: AnyConnect 2.2.0140	~			
Accept Disconnec	:t			

9. The main application window will disappear. But as long as the Cisco AnyConnect VPN Client is running, one of two icons will appear in your system tray. An icon with two green disks and a padlock indicates a VPN tunnel is established (connected). An icon with two blue disks indicates the VPN Client software is running, but no active VPN tunnels exist.



Cisco AnyConnect system tray icon - VPN tunnel established



Cisco AnyConnect system tray icon - application is running, but no VPN tunnels exist

Note: Right-clicking the system tray icon provides various menu options. Left clicking the system tray icon displays the main application window.

10. To terminate the VPN tunnel from the system tray, right-click on the system tray icon and select "Disconnect", or "Quit" to disconnect *and* quit the AnyConnect application.