2-4-1 OpenVPN

You Want a VPN

But a SIMPLE One and IPsec is Not Simple

OpenVPN

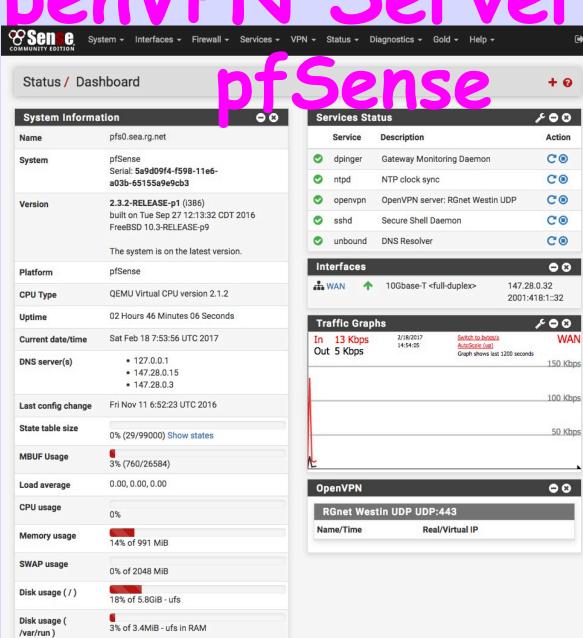
Open Protocol Open Source Tools Not Known to be Pwned by the NSA, GCHQ,

Easy to Install Free Server(s)

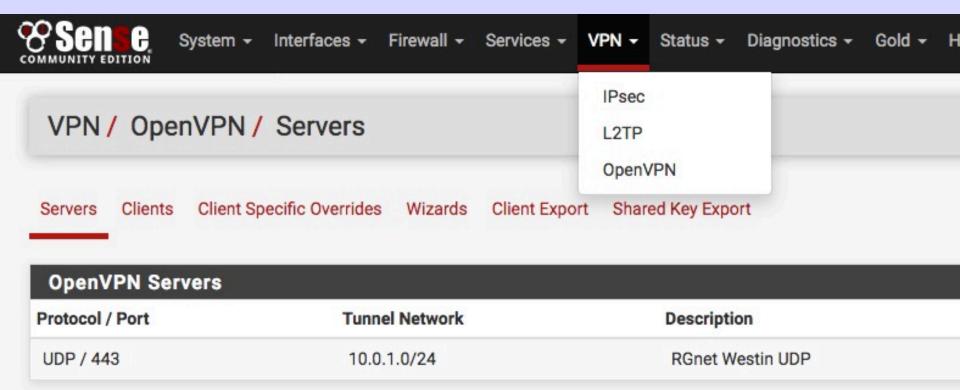
Easy to Install Free Clients

They Interoperate!

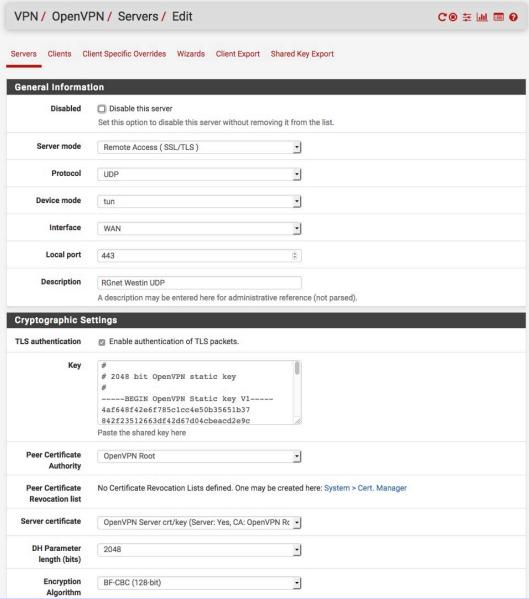
OpenVPN Server



VPN Server



Configuration!



Select a Client

http://psg.com/1.html

Or Get One Here





Index of /aprisec-sw

- Parent Directory
- 2-2-2.WiresharkExerciseData.zip
- WinSCP-5.13.7-Setup.exe
- WinSCP-5.9.4-Setup.exe
- Wireshark 2.6.6 Intel 64.dmg
- Wireshark-win32-2.6.6.exe
- Wireshark-win64-2.6.6.exe
- WiresharkExerciseData/
- gpg4win-3.1.5.exe
- openvpn-install-2.4.6-I602.exe
- pfs-udp-1194-OpenVPN-Viscosity.visc.zip
- pfs-udp-1194-install-vista+.exe
- pfs-udp-1194-install-xp32.exe
- pfs-udp-1194-install-xp64.exe
- putty-0.70-installer.msi
- putty-64bit-0.70-installer.msi

OpenVPN Clients for Various Platforms

OpenVPN Community Client - Binaries for Windows, Source for other platforms.

OpenVPN For Android - Recommended client for Android

FEAT VPN For Android - For older versions of Android

OpenVPN Connect: Android (Google Play) or iOS (App Store) - Recommended client for iOS

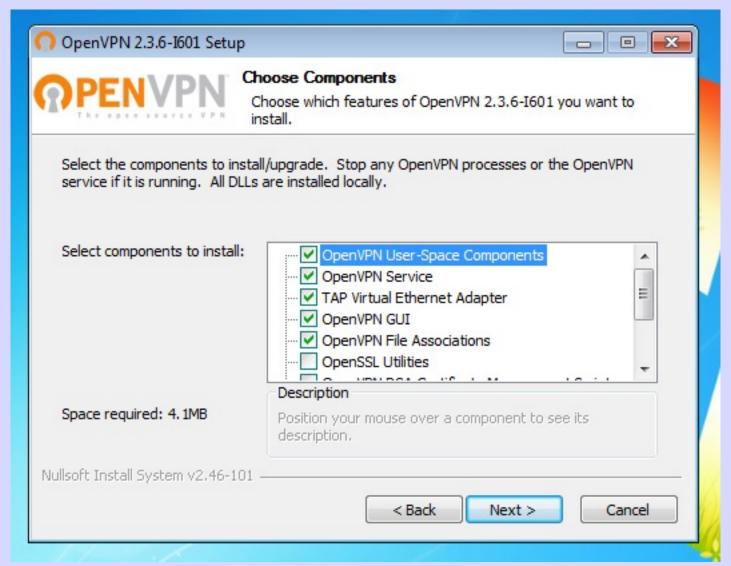
Viscosity - Recommended GUI client for Mac OSX \$\$

Tunnelblick - Free client for OSX

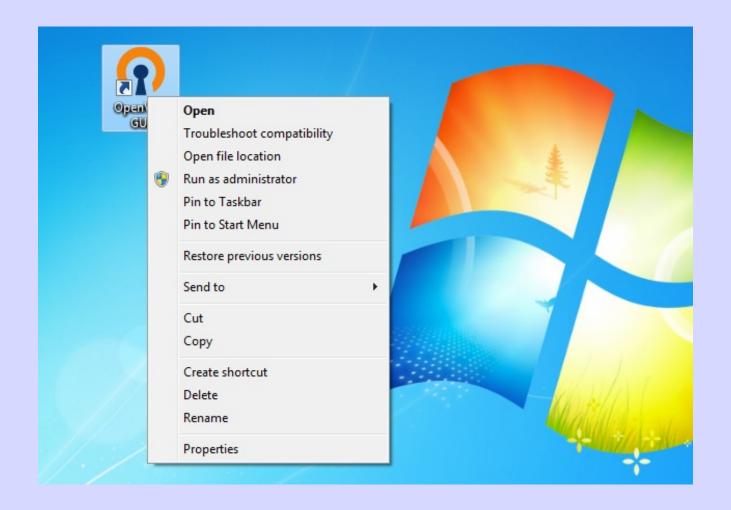
Download Installer



Run Installer



Set RunAsAdmin



So Client Can Install Routes

Open GUI (invisible)



You Can Delete Installer

Get Credentials





https://psg.com/aprisec-sw/

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- pfs-udp-1194-install-xp64.exe
- putty-0.70-installer.msi
- putty-64bit-0.70-installer.msi

Windows Vista and later

(32-bit), Windows XP

(64-bit), Windows XP

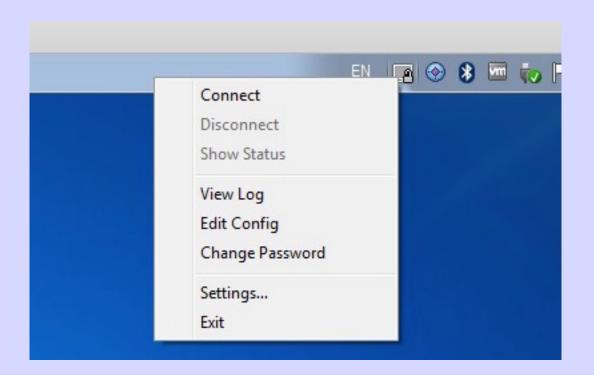
Execute Credential EXE



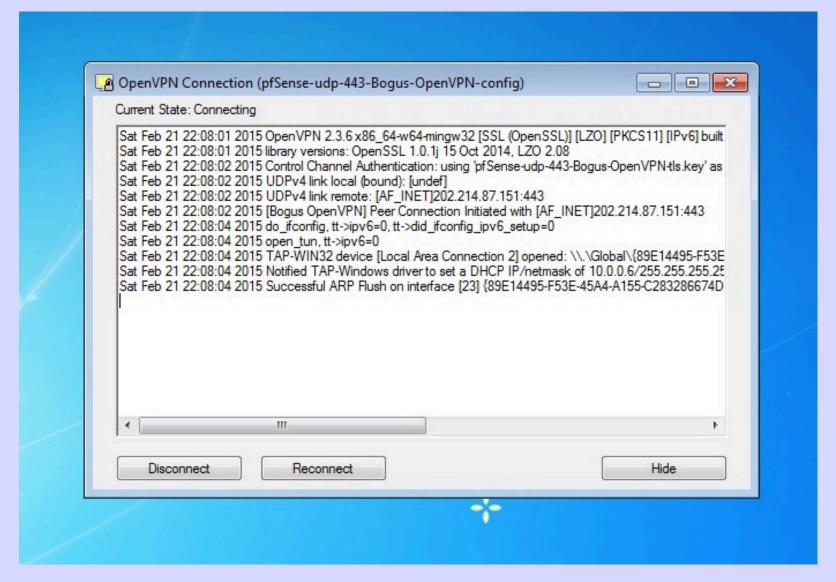
Install Credentials



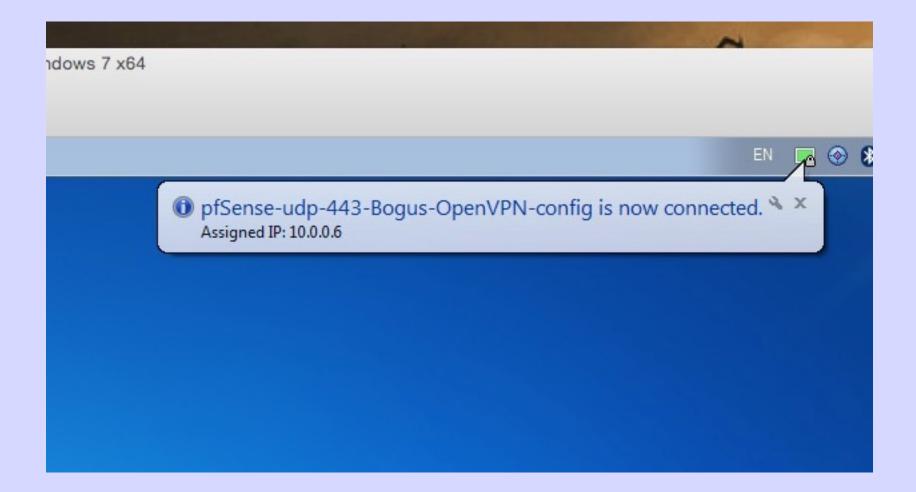
Connect



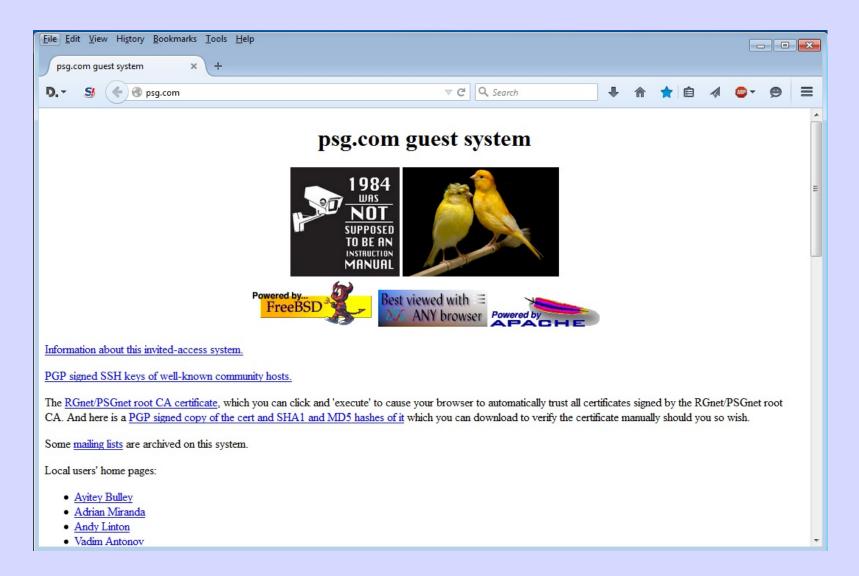
Connecting



You're Connected!



Try It - Browse



But How Do You Know It Works?

Is your traffic encrypted?
Use Wireshark!

Where are you? traceroute psg.com

Without VPN

ryuu.rg.net:/Users/randy> traceroute psg.com
traceroute to psg.com (147.28.0.62), 64 hops max, 52 byte packets
1 1.144.dhcp.conference.apricot.net (220.247.144.1) 9.212 ms 1.477 ms 1.233 ms
2 134.75.14.41 (134.75.14.41) 28.347 ms 1.212 ms 1.426 ms
3 kreonet-dj-bb1-kreonet2-gr-bb2.daej.kreonet2.net (134.75.105.113) 1.369 ms 1.334 ms 1.210 ms
4 134.75.2.1 (134.75.2.1) 4.076 ms 3.990 ms 3.922 ms
5 134.75.5.210 (134.75.5.210) 3.963 ms 4.002 ms 4.001 ms
6 203.234.255.165 (203.234.255.165) 4.161 ms 4.031 ms 4.370 ms
7 112.174.85.21 (112.174.85.21) 4.004 ms
112.174.85.29 (112.174.85.29) 4.167 ms
112.174.85.17 (112.174.85.17) 5.151 ms
8 112.174.83.142 (112.174.83.142) 5.129 ms
112.174.83.106 (112.174.83.106) 4.748 ms

- 112.174.83.90 (112.174.83.90) 4.878 ms 9 112.174.87.122 (112.174.87.122) 162.453 ms 196.357 ms 182.862 ms
- 10 sl-mpe51-sea-.sprintlink.net (144.224.113.125) 136.197 ms 176.248 ms 136.314 ms
- 11 144.232.0.108 (144.232.0.108) 171.518 ms 186.838 ms 204.470 ms
- 12 144.232.9.62 (144.232.9.62) 210.499 ms 132.683 ms 172.015 ms
- 13 psg.com (147.28.0.62) 167.441 ms 159.632 ms 187.141 ms

With VPN

ryuu.psg.com:/Users/presenter> traceroute psg.com
traceroute to psg.com (147.28.0.62), 64 hops max, 52 byte packets
1 10.0.1.1 (10.0.1.1) 1773.479 ms 103.112 ms 103.036 ms
2 202.214.87.130 (202.214.87.130) 104.809 ms 104.118 ms 103.963 ms
3 210.138.9.201 (210.138.9.201) 109.969 ms 105.199 ms 103.556 ms
4 tky009ipgw11.iij.net (58.138.112.53) 104.284 ms 106.700 ms 104.392 ms
5 tky009bb01.iij.net (58.138.112.157) 104.760 ms 104.872 ms 105.114 ms
6 sea001bb00.iij.net (58.138.88.230) 236.930 ms 239.763 ms *
7 six (206.81.80.23) 237.853 ms 237.146 ms 237.147 ms
8 147.28.0.62 (147.28.0.62) 216.686 ms 211.543 ms 210.681 ms