https://wiki.mozilla.org/Security/Server_Side_TLS

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, …

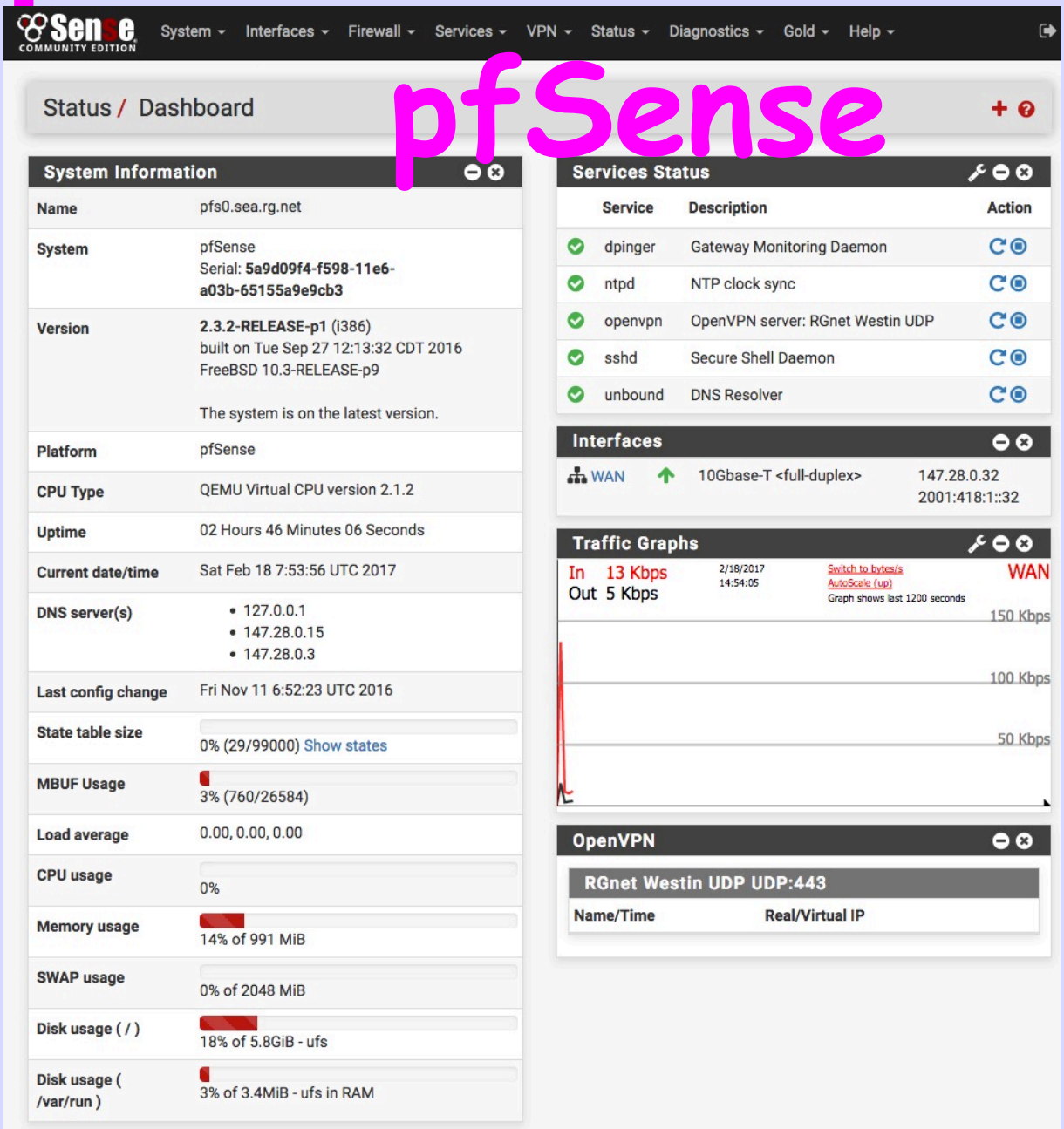
Easy to Install
Free Server(s)

Easy to Install
Free Clients

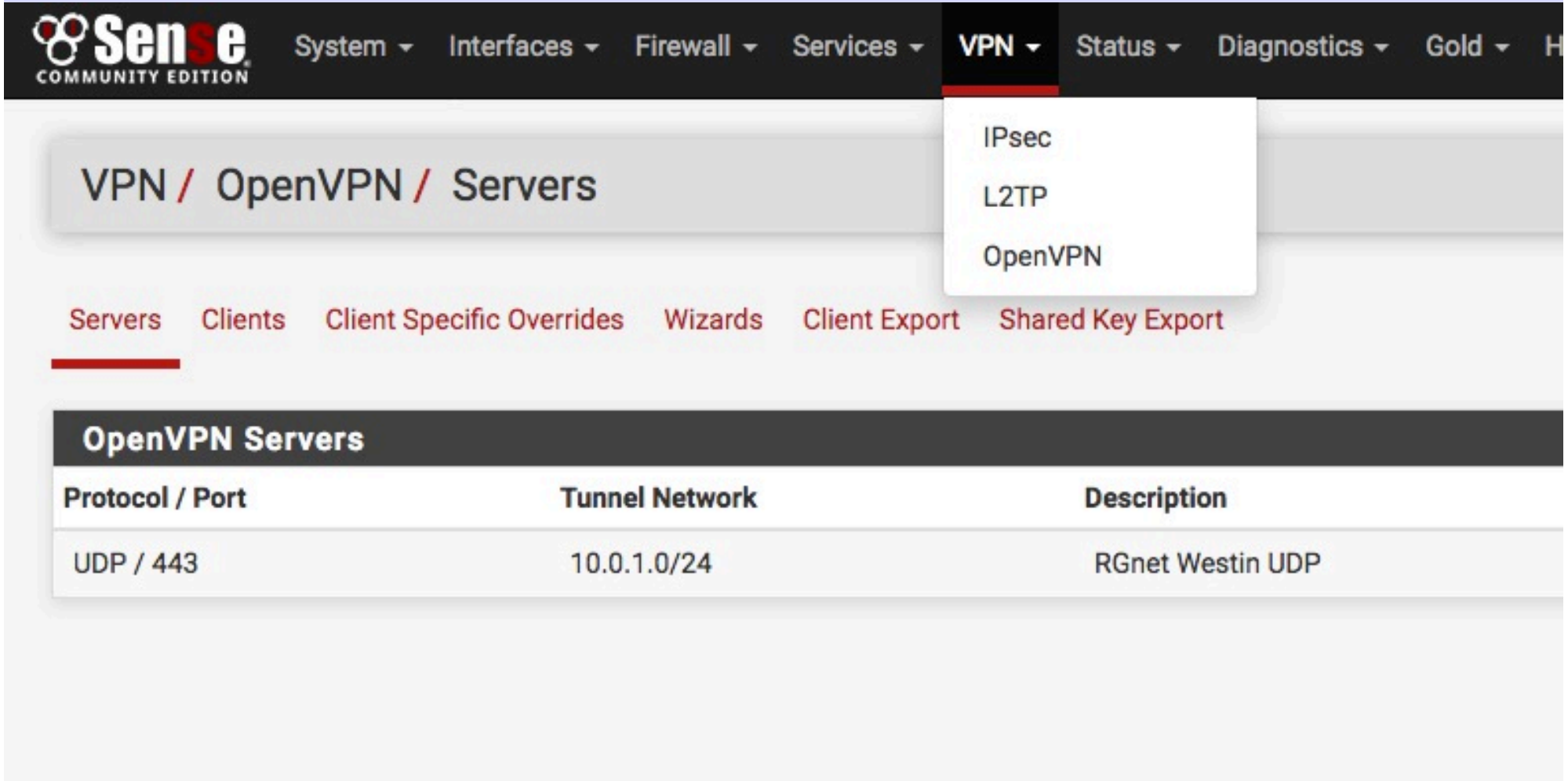
They Interoperate!

OpenVPN Server

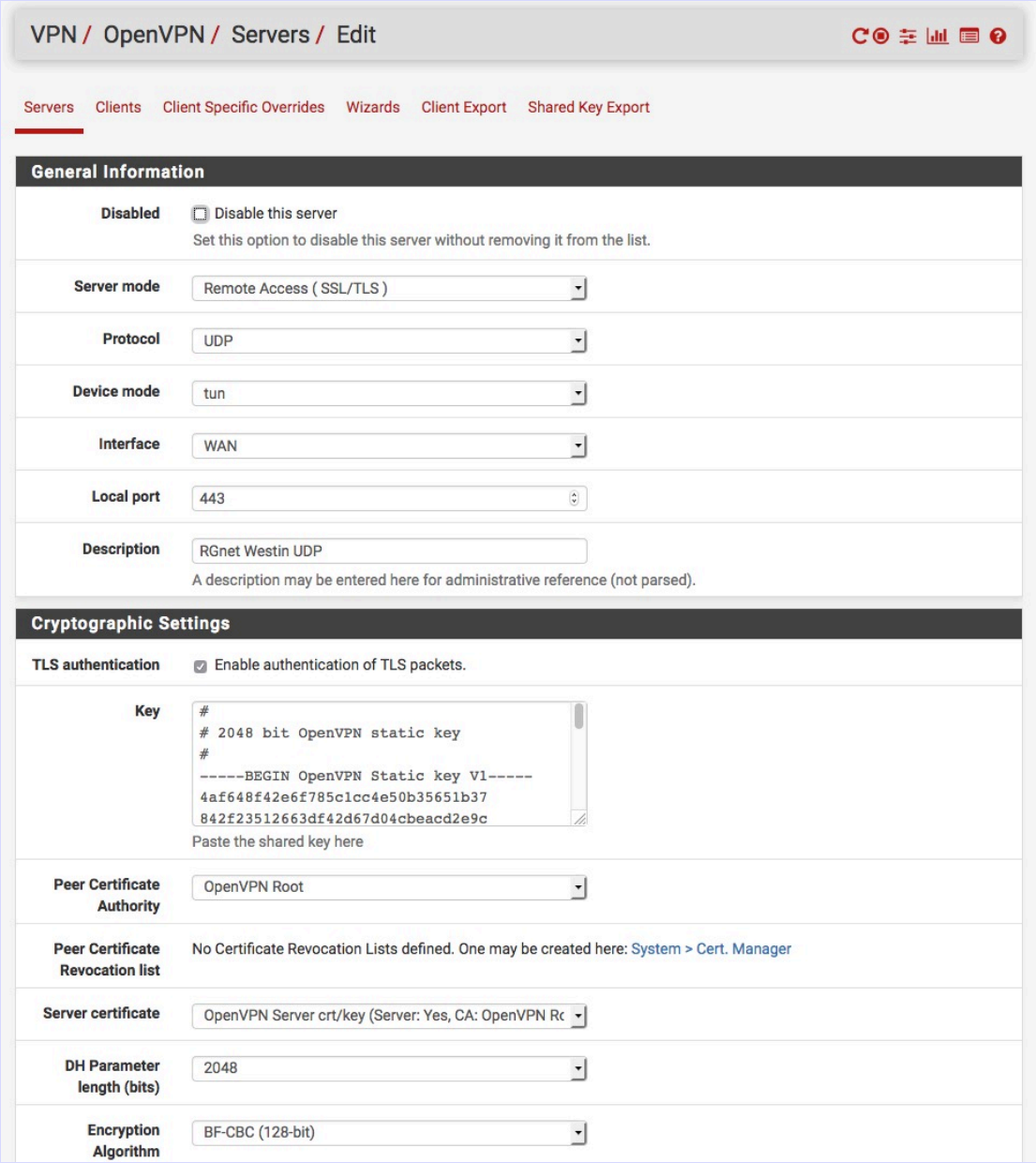
pfSense



VPN Server



Configuration!



Select a Client

http://psg.com/1.html

Or Get One Here

(64-bit), Windows XP
(32-bit), Windows Vista and later
(64-bit), Windows Vista and later

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

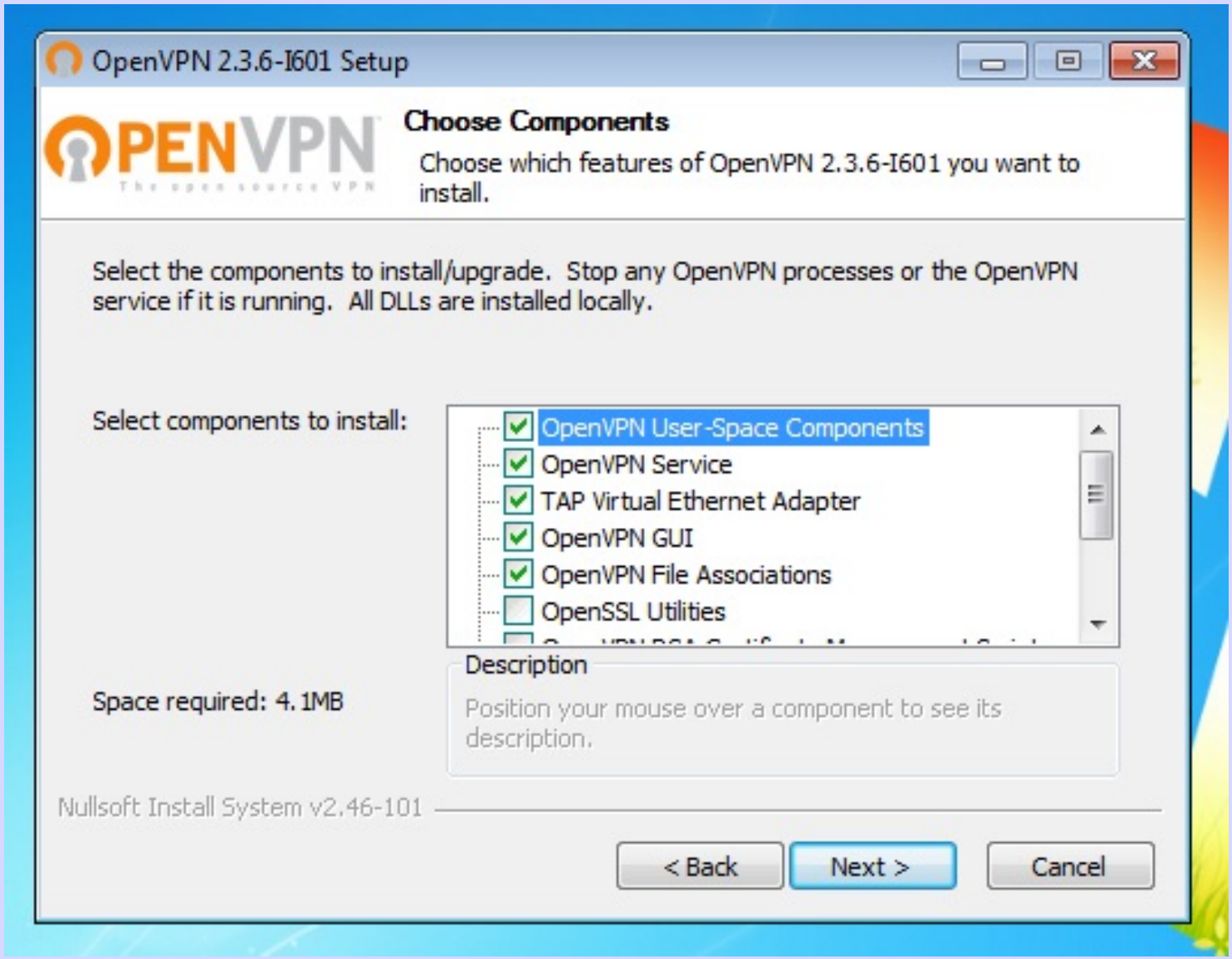
OpenVPN Connect: Android (Google Play) or iOS (App Store) - Recommended client for iOS

Viscosity - Recommended GUI client for Mac OSX $$

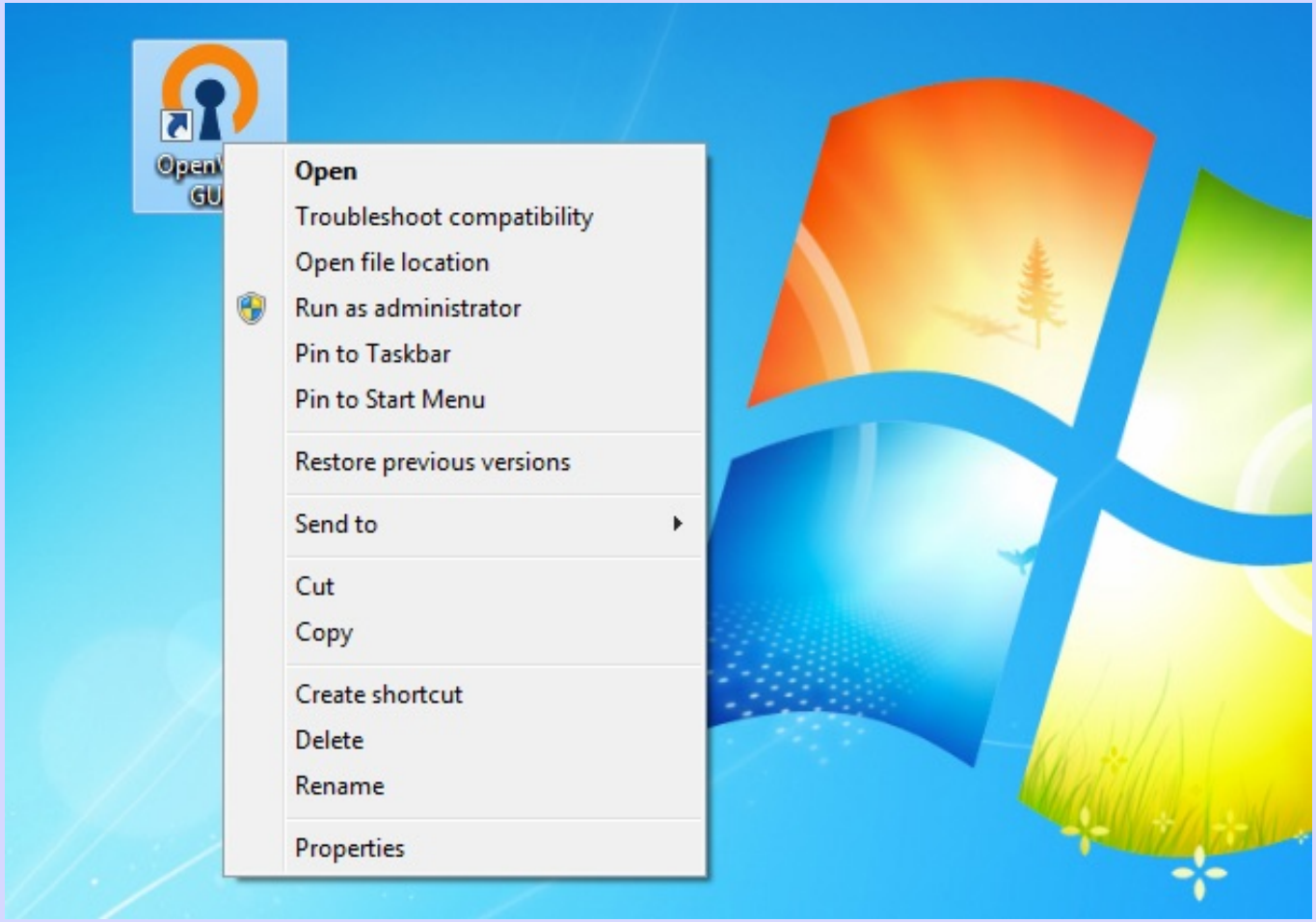
Tunnelblick - Free client for OSX

Download Installer

Run Installer

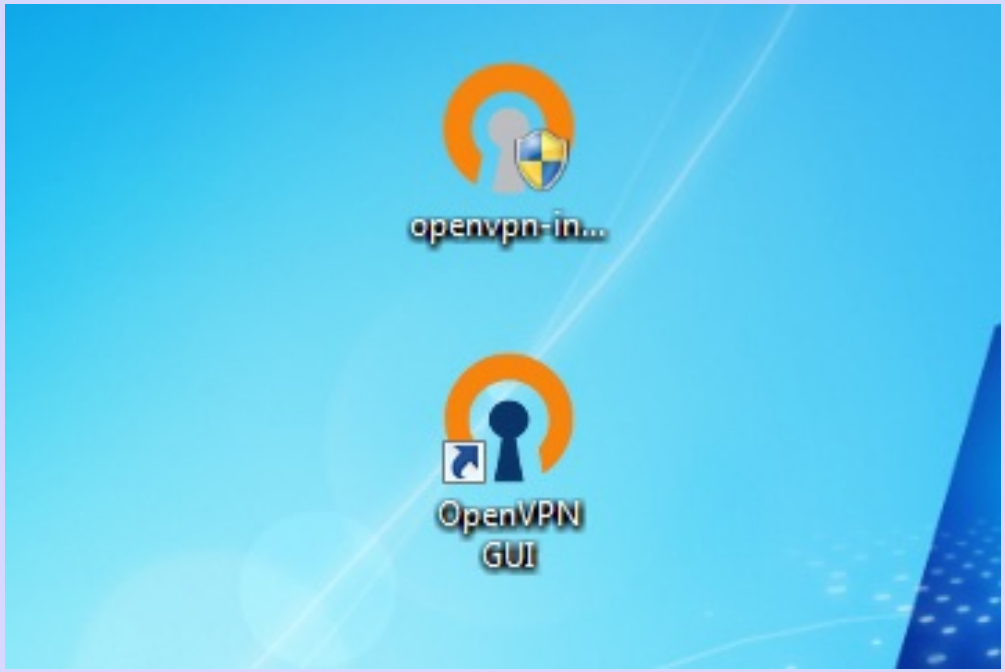


Set RunAsAdmin



So Client Can Install Routes

Open GUI (invisible)



You Can Delete Installer

Get Credentials

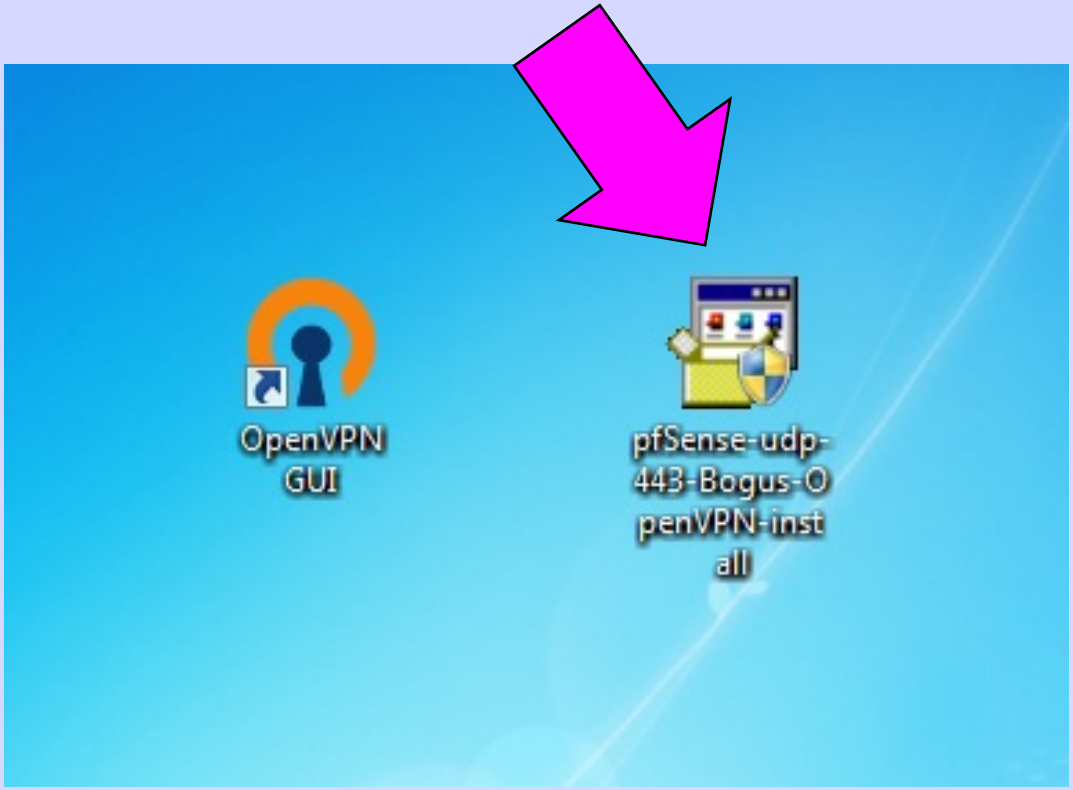
MacOS

Windows Vista and later

(32-bit), Windows XP

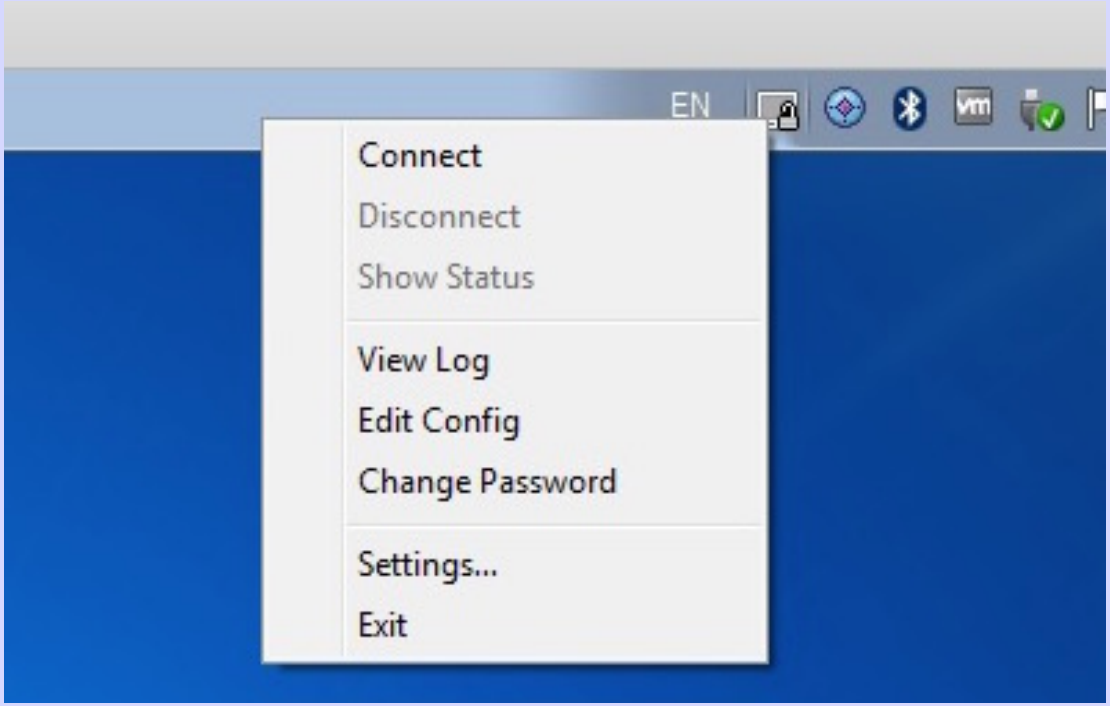
(64-bit), Windows XP

Execute Credential EXE

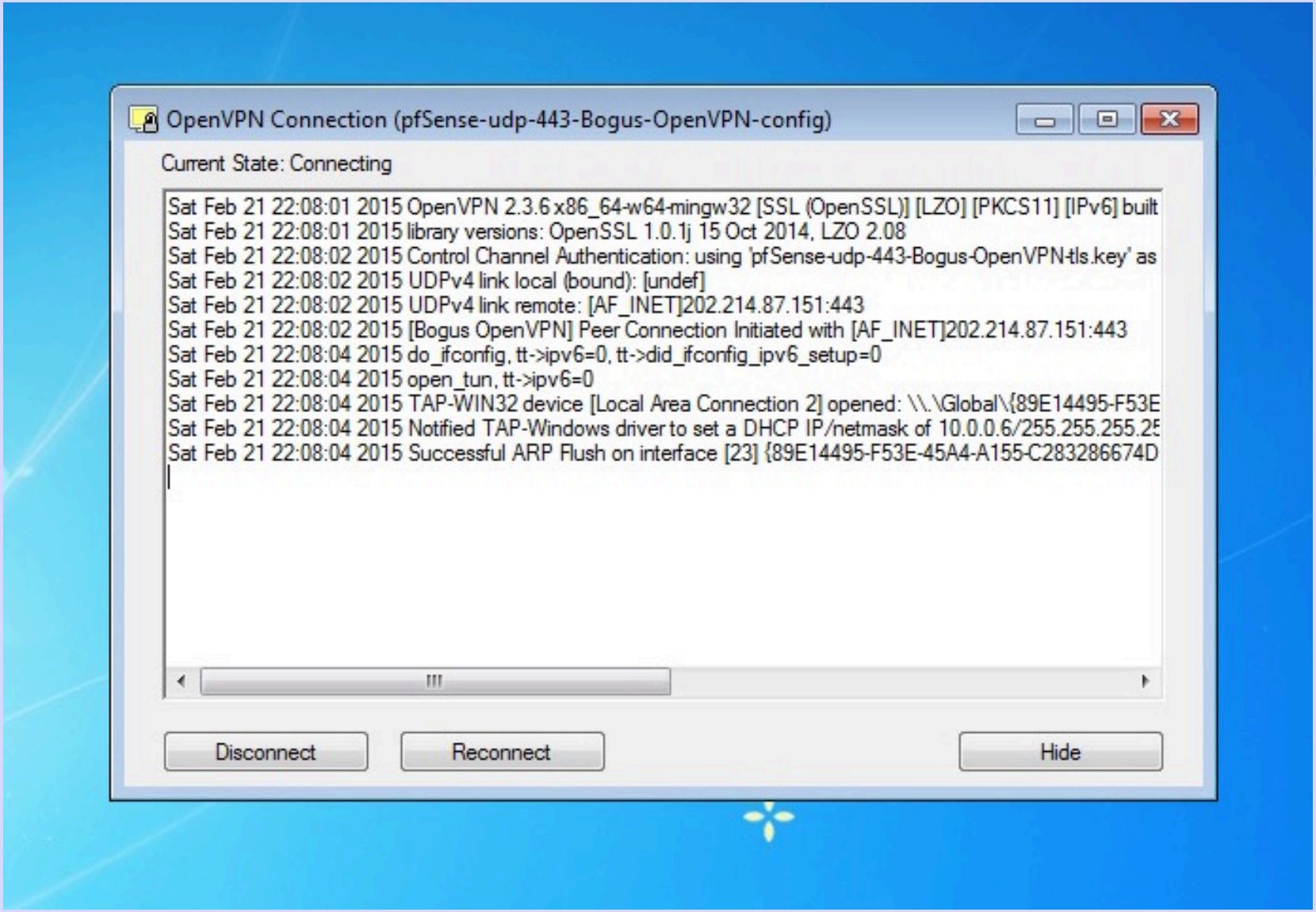


Install Credentials

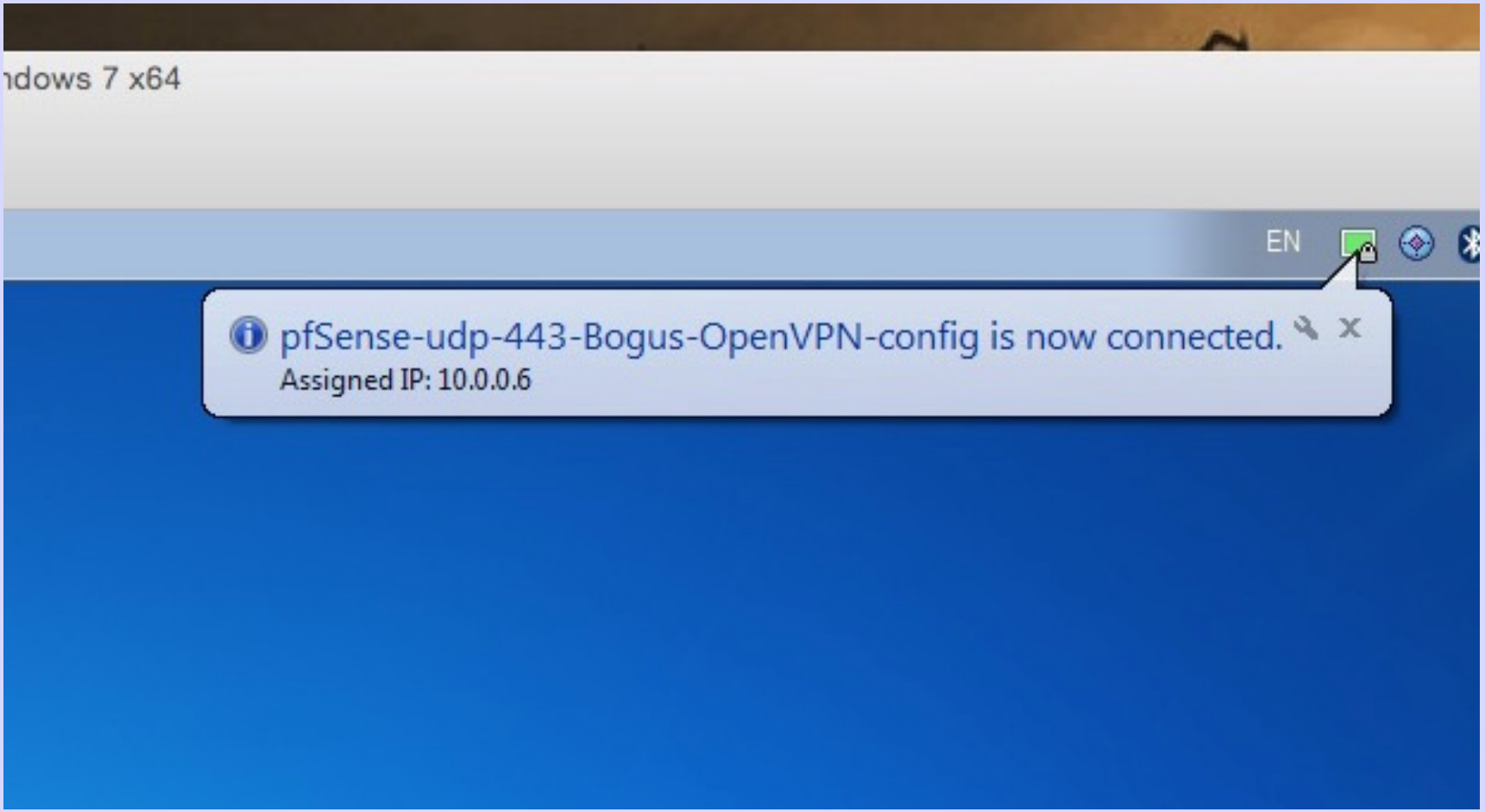
Connect



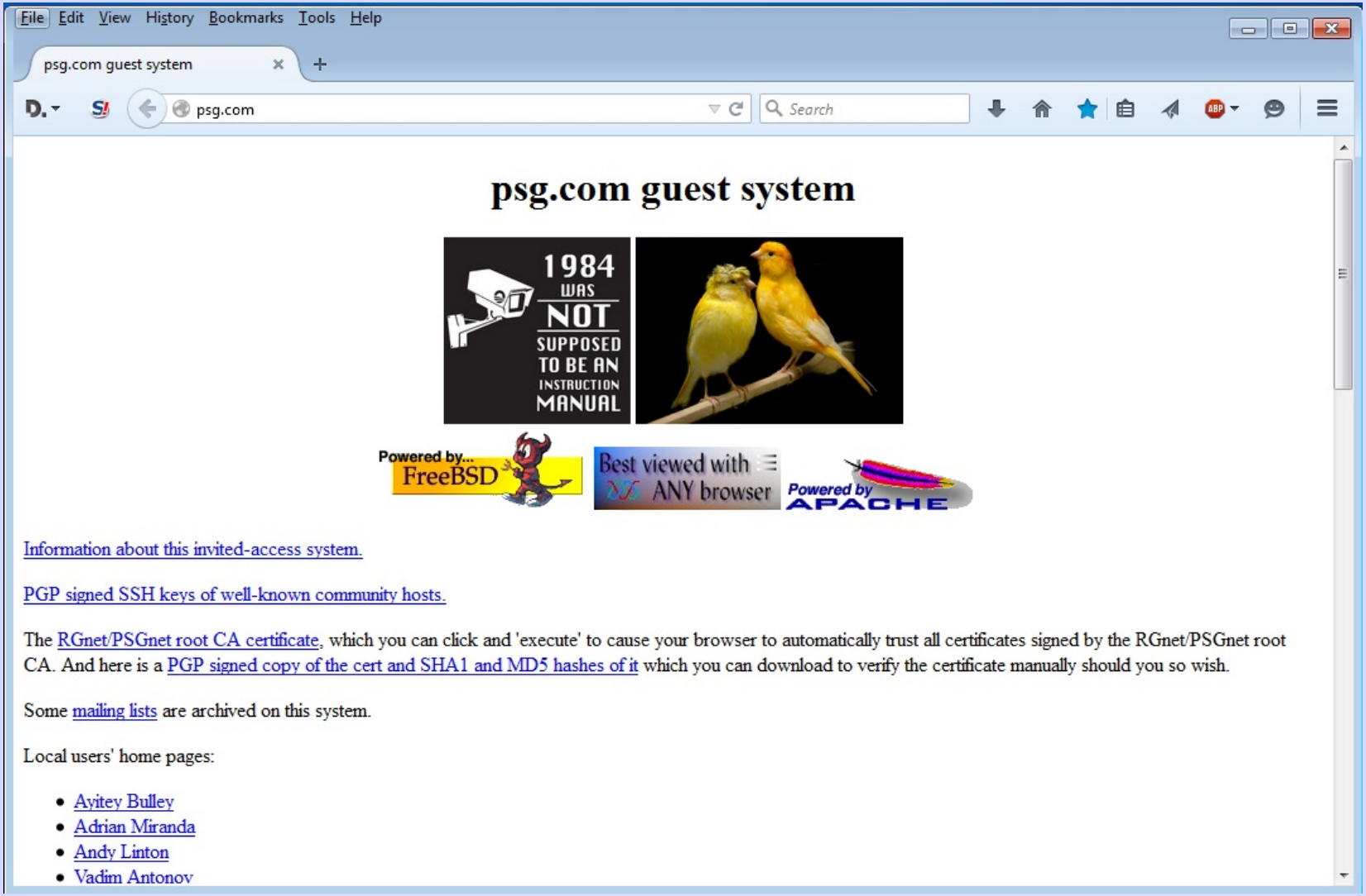
Connecting



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.psg.com:/Users/presenter> traceroute psg.com
traceroute to psg.com (147.28.0.62), 64 hops max, 52 byte packets
 1  252.151.dhcp.conference.apricot.net (220.247.151.252)  1343.693 ms  1.342 ms  1.108 ms
 2  ci53.23-213.netnam.vn (101.53.23.213)  1.390 ms  1.635 ms  1.551 ms
 3  172.20.1.2 (172.20.1.2)  1.625 ms  1.587 ms  1.734 ms
 4  1-43_2313.r0.409.mi.hk.iptp.net (103.6.131.174)  66.879 ms  51.207 ms  53.409 ms
 5  63-218-211-141.static.pccwglobal.net (63.218.211.141)  266.357 ms  207.636 ms  224.782 ms
 6  hundredge0-5-0-0.br02.hkg08.pccwbtn.net (63.223.29.198)  54.618 ms  52.381 ms  51.697 ms
 7  63-218-205-86.static.pccwglobal.net (63.218.205.86)  52.479 ms  56.466 ms  52.707 ms
 8  ae-12.r24.osakjp02.jp.bb.gin.ntt.net (129.250.2.223)  104.518 ms *  105.996 ms
 9  ae-4.r20.sttlwa01.us.bb.gin.ntt.net (129.250.2.39)  180.351 ms  182.174 ms
    ae-12.r24.osakjp02.jp.bb.gin.ntt.net (129.250.2.223)  104.324 ms
10  ae-4.r20.sttlwa01.us.bb.gin.ntt.net (129.250.2.39)  182.066 ms
    ae-29.r05.sttlwa01.us.bb.gin.ntt.net (129.250.2.89)  211.749 ms
    ae-4.r20.sttlwa01.us.bb.gin.ntt.net (129.250.2.39)  184.729 ms
11  ae-29.r05.sttlwa01.us.bb.gin.ntt.net (129.250.2.89)  209.519 ms
    ae-28.r05.sttlwa01.us.bb.gin.ntt.net (129.250.2.45)  208.254 ms
    ae-29.r05.sttlwa01.us.bb.gin.ntt.net (129.250.2.89)  209.292 ms
12  psg.com (147.28.0.62)  216.953 213.717 218.281
```

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
```