3-4-2 OpenVPN

You Want a VPN

But a SIMPLE One and IPsec is Not Simple

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OpenVPN

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

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Easy to Install
Free Server(s)

Easy to Install
Free Clients

They Interoperate!

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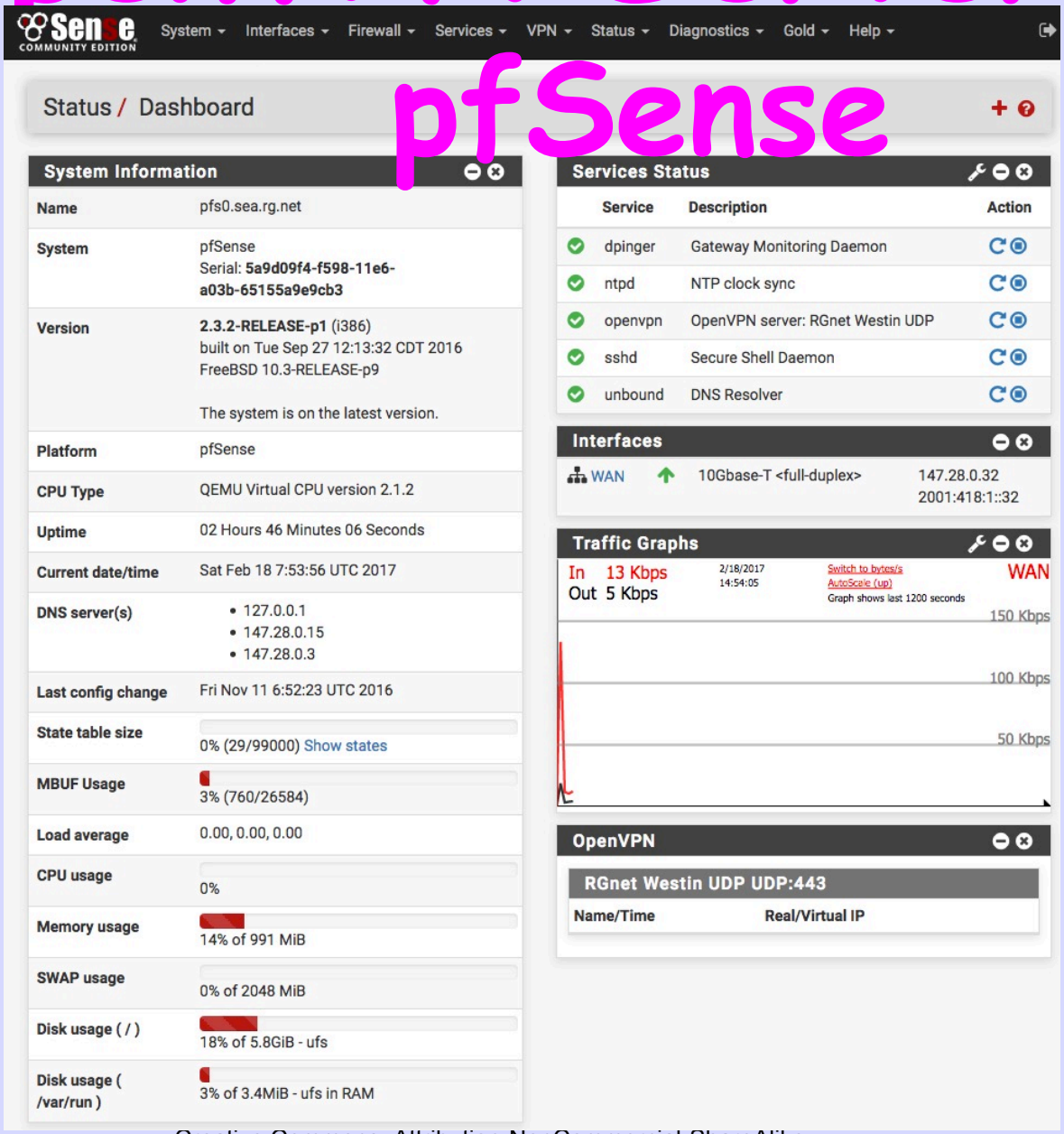
OpenVPN Server



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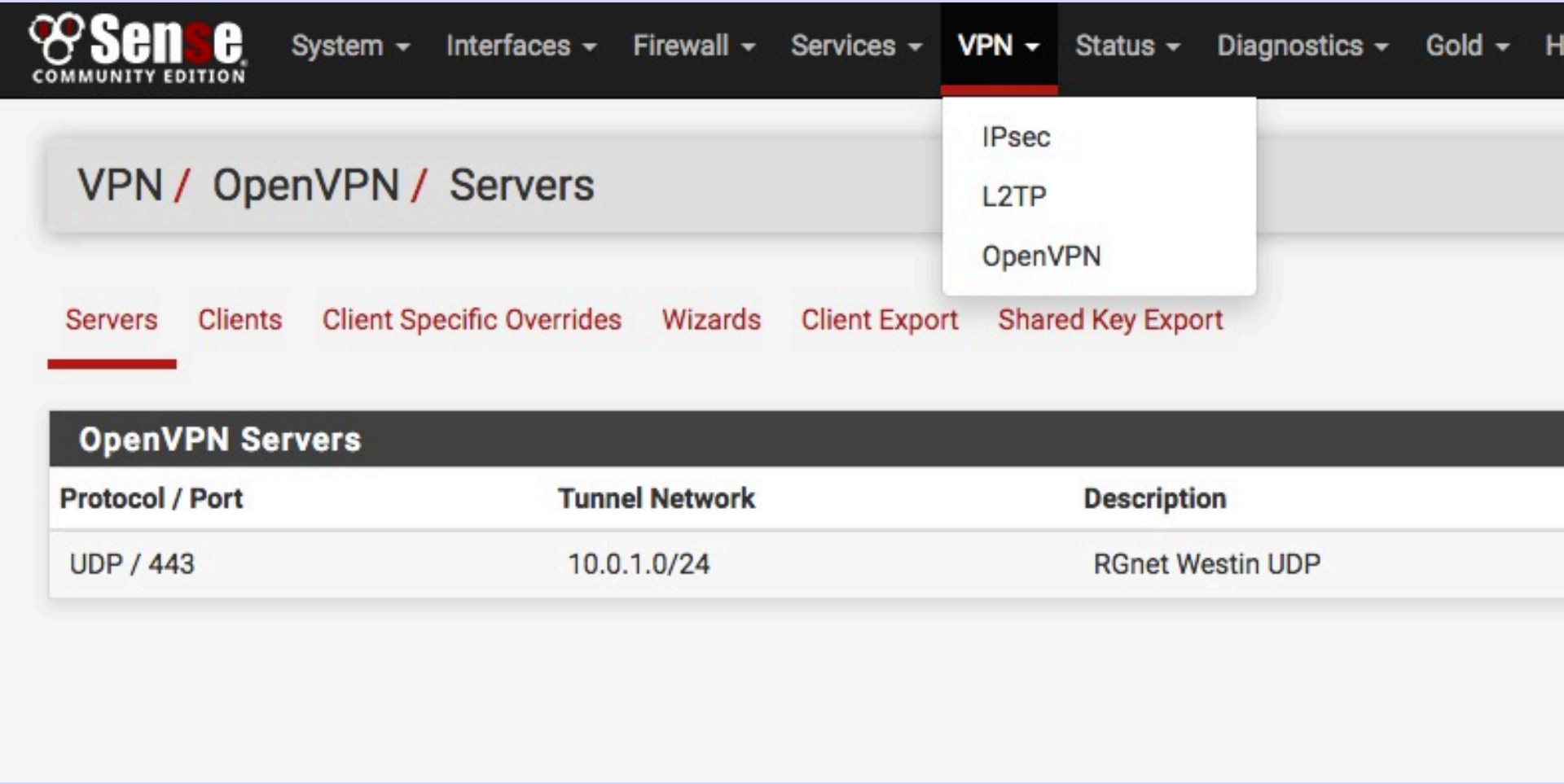
VPN Server



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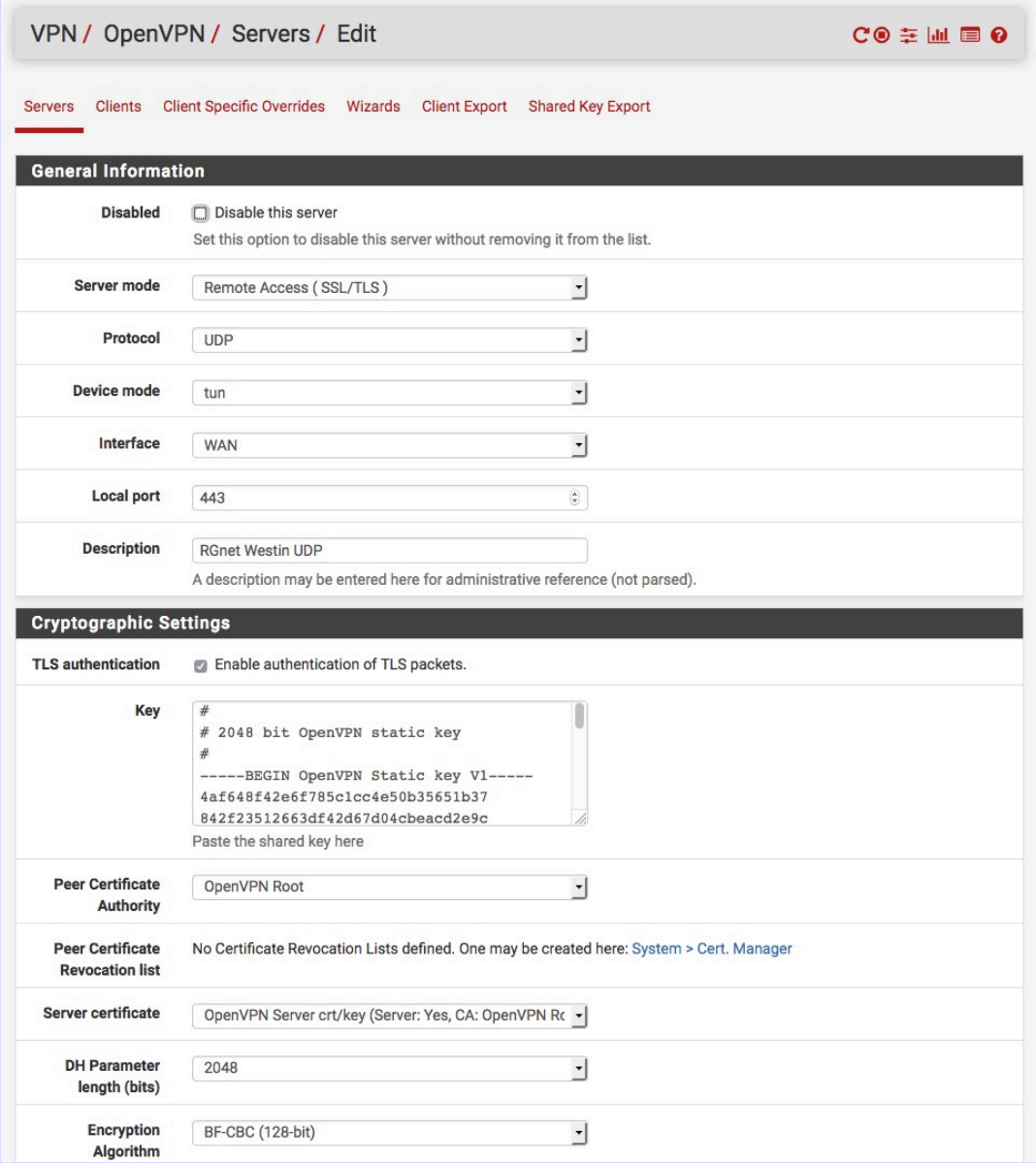
Configuration!



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Select a Client

http://psg.com/1.html

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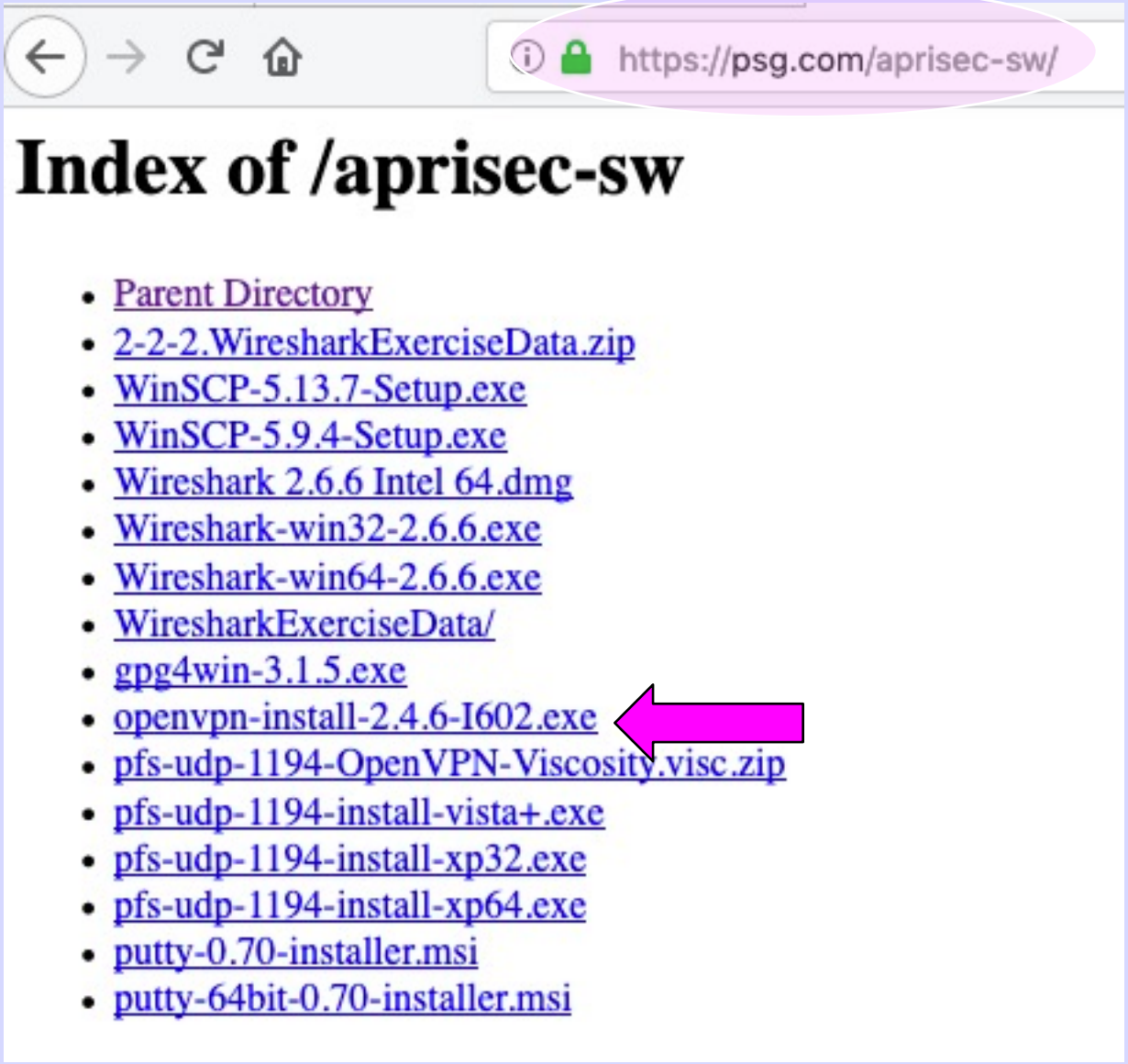
Or Get One Here



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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

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Download Installer

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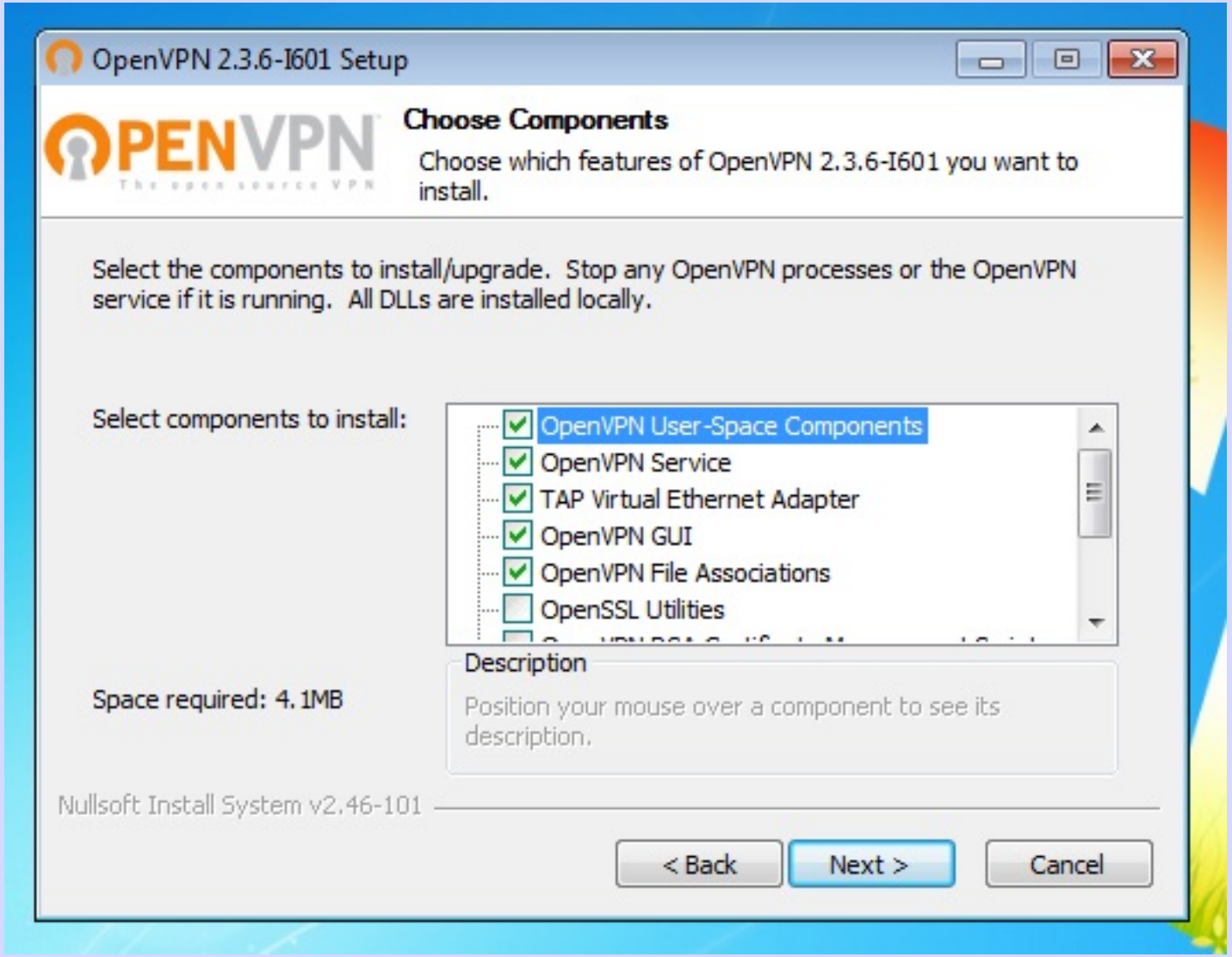
Run Installer



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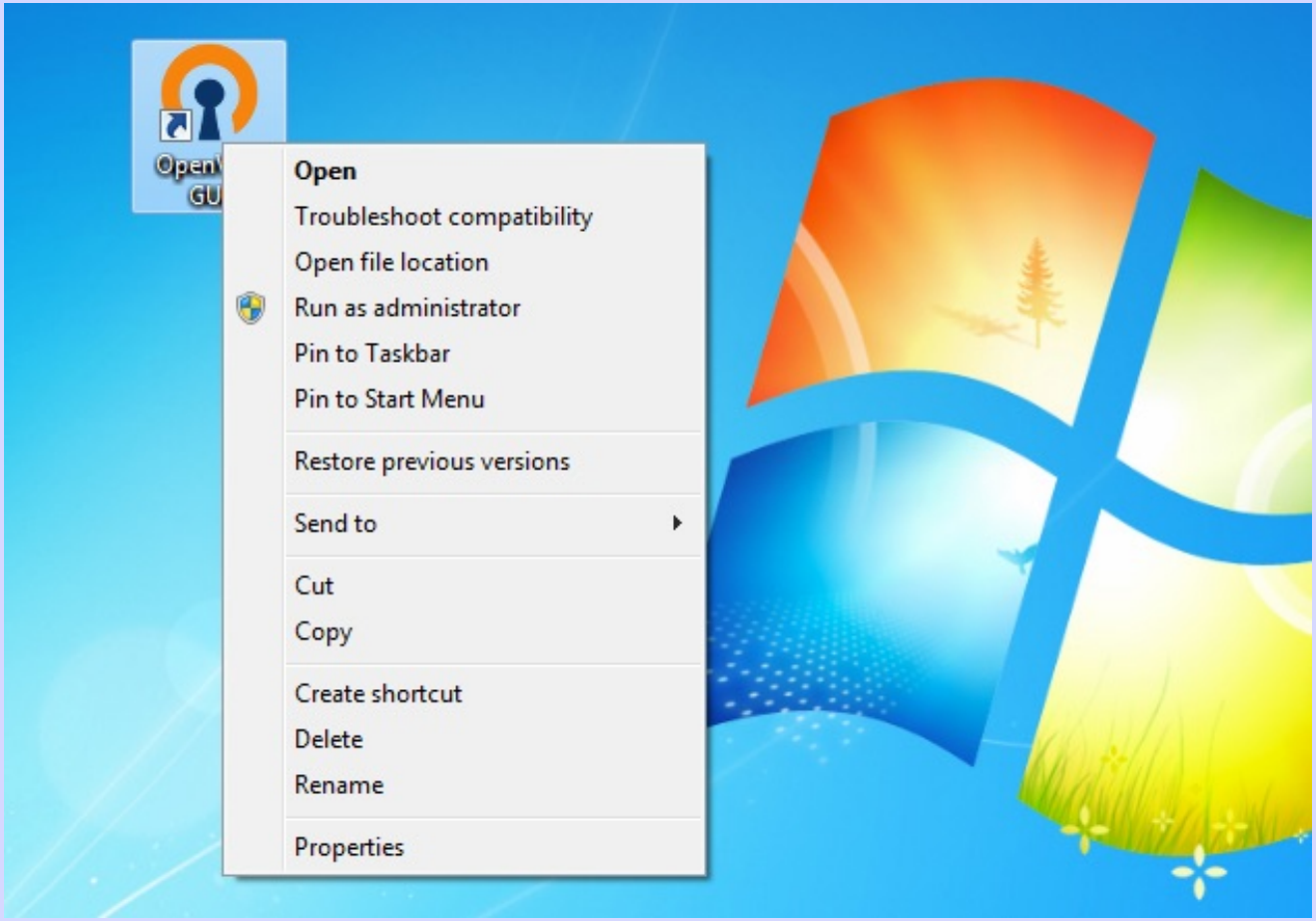
Set RunAsAdmin



So Client Can Install Routes

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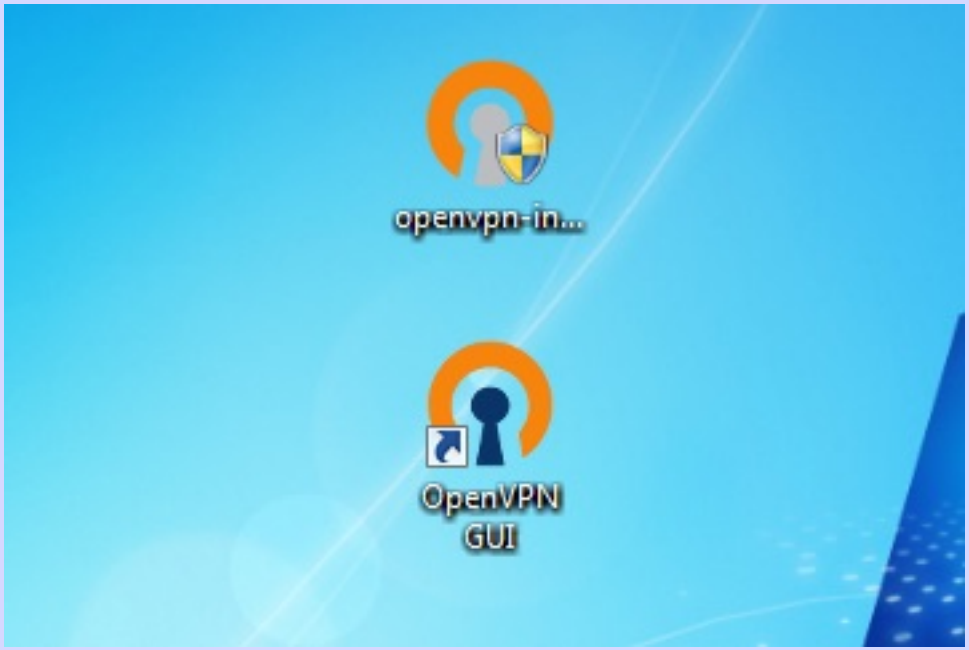
Open GUI (invisible)



You Can Delete Installer

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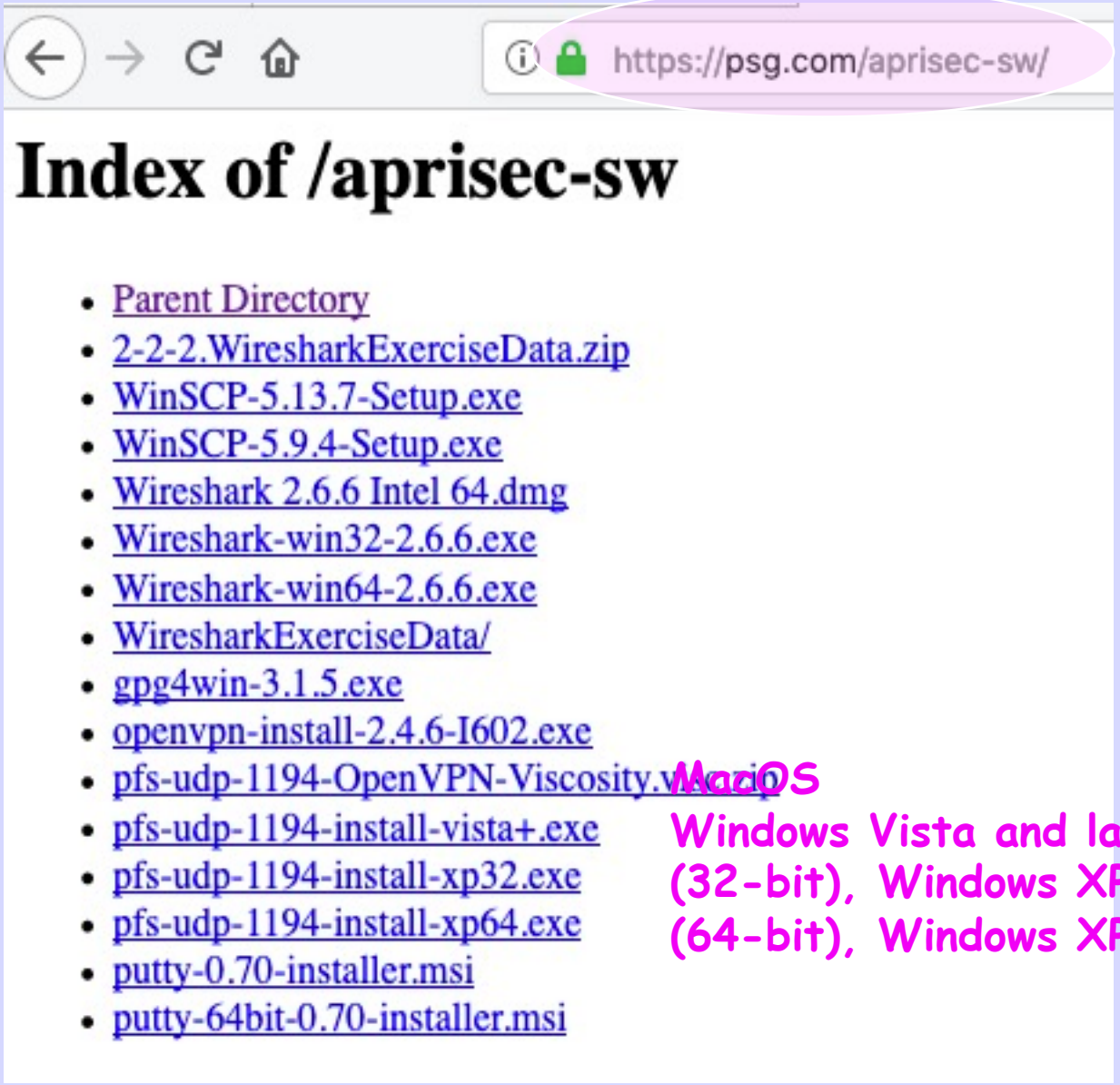
Get Credentials



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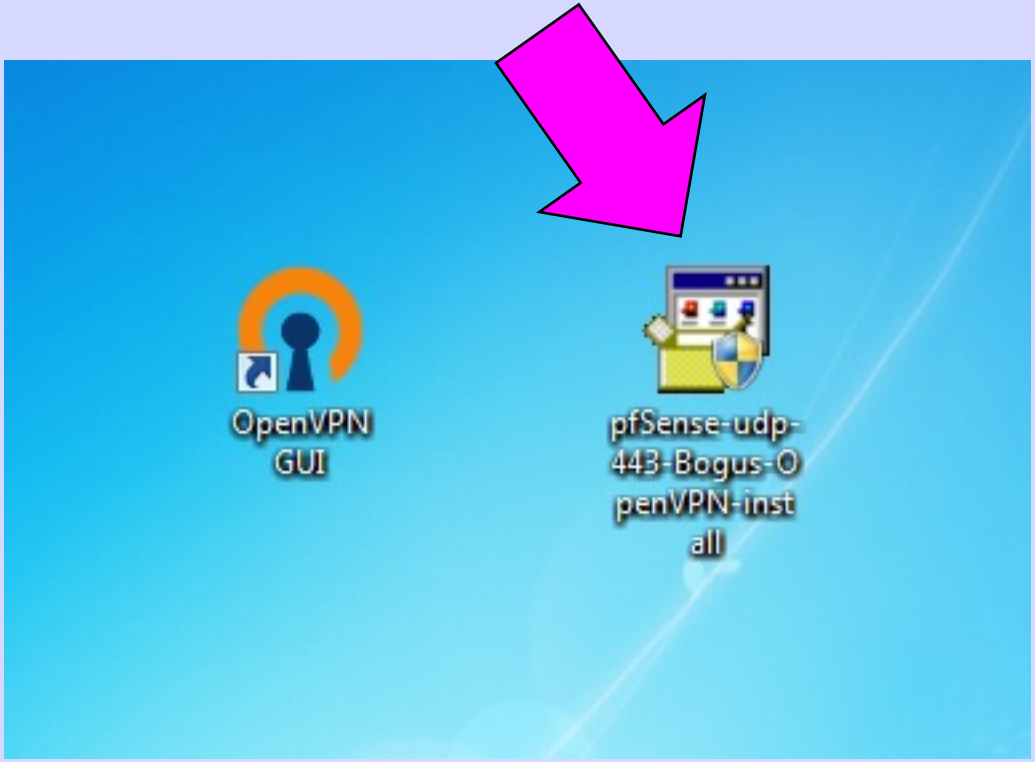
Execute Credential EXE



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Install Credentials

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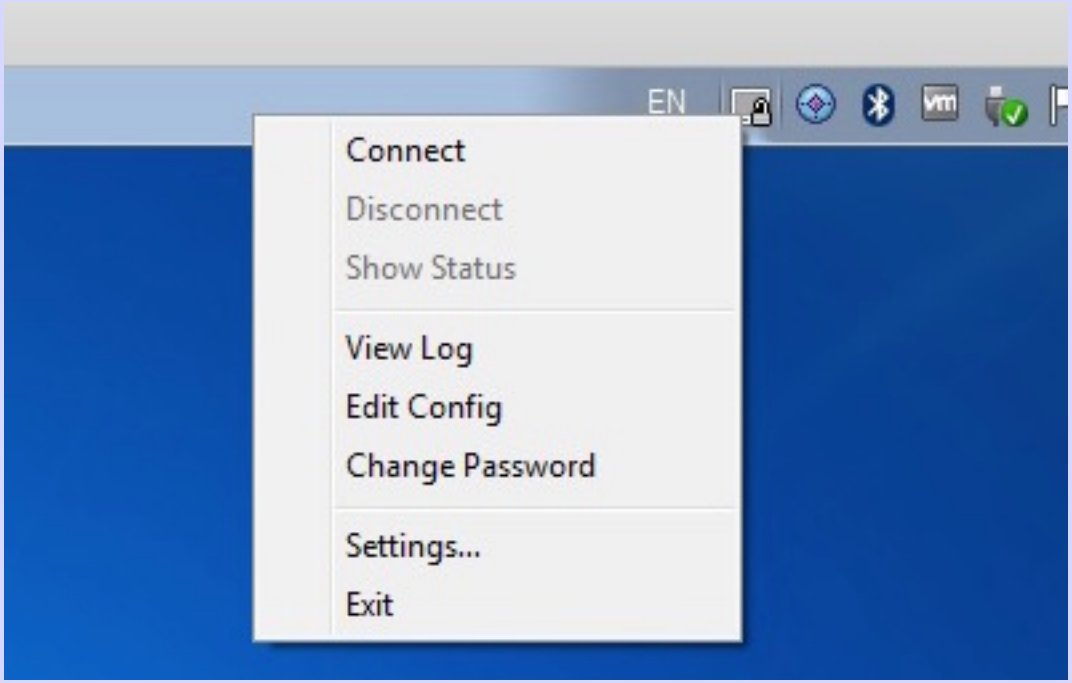
Connect



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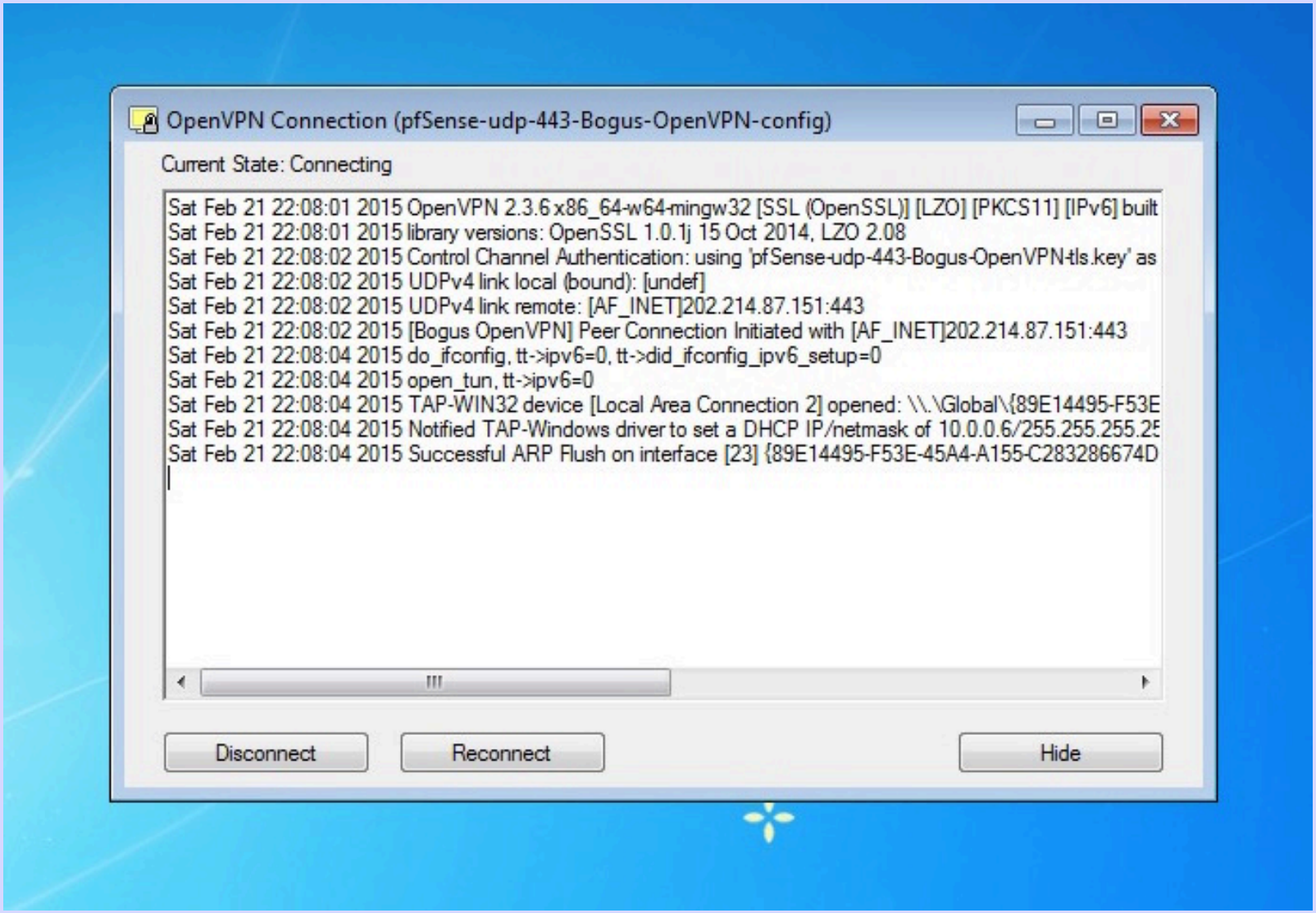
Connecting



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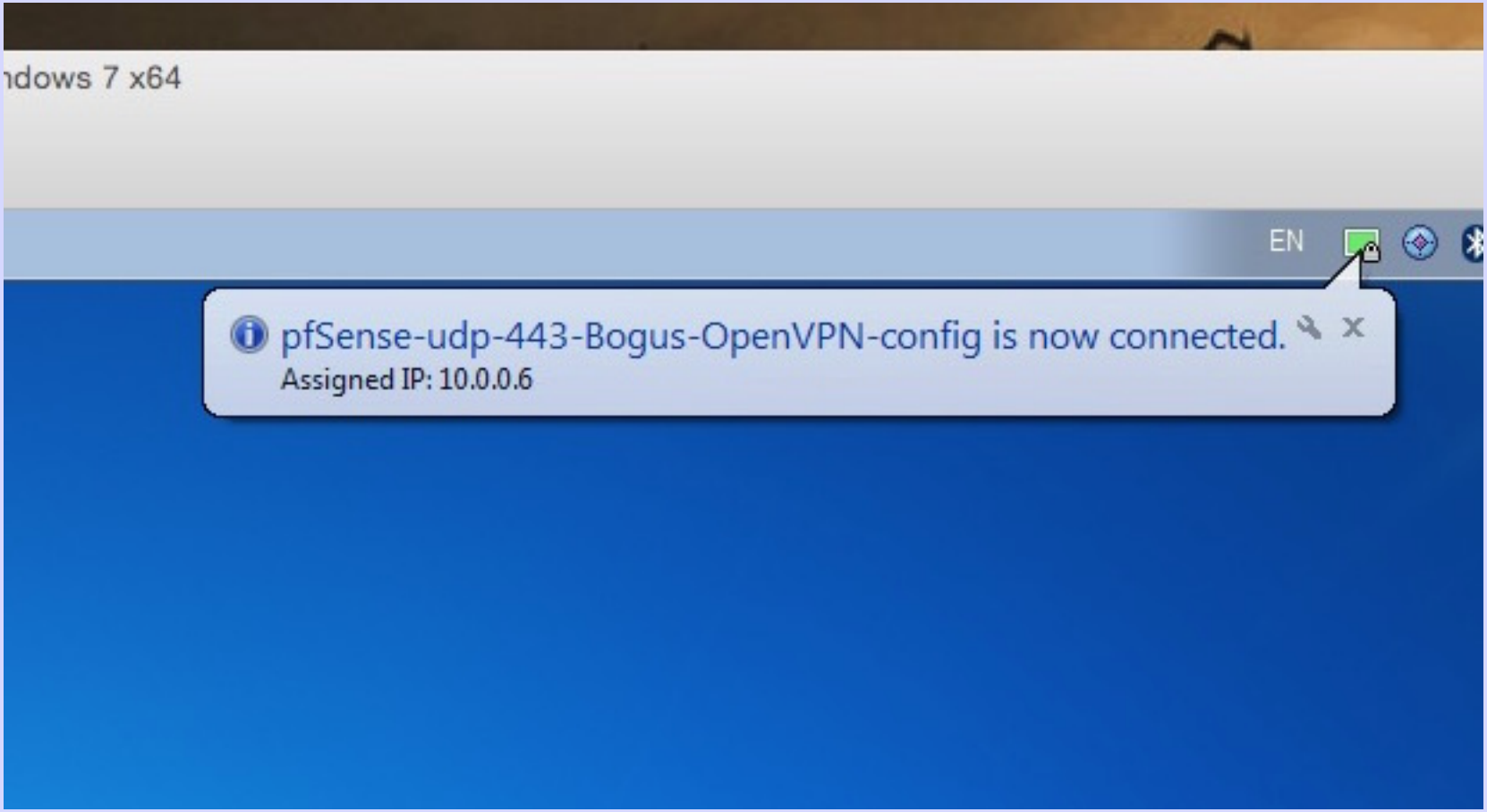
You're Connected!



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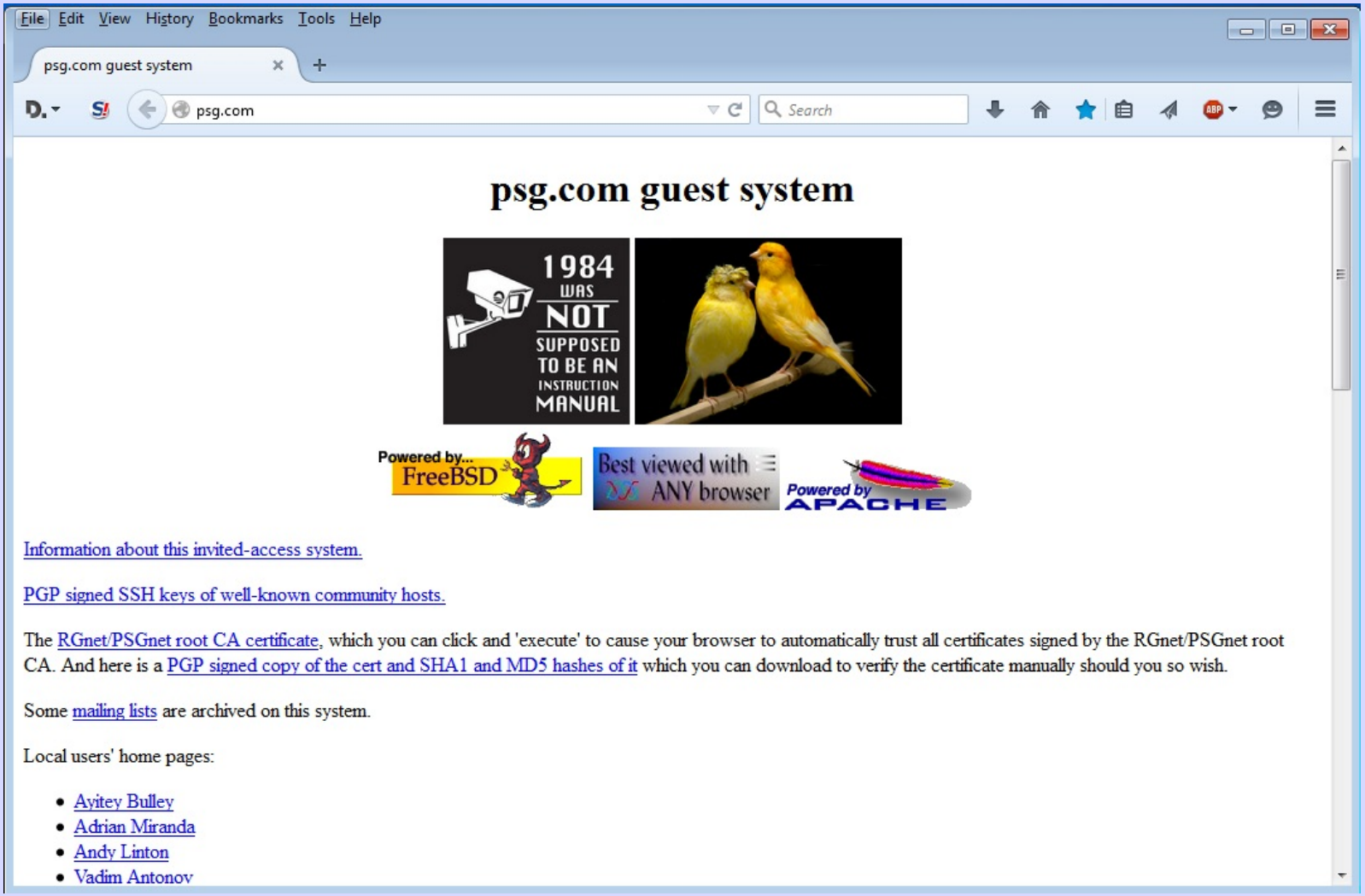
Try It - Browse



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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
```

Boo Hiss !
No Reverse DNS

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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
```


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