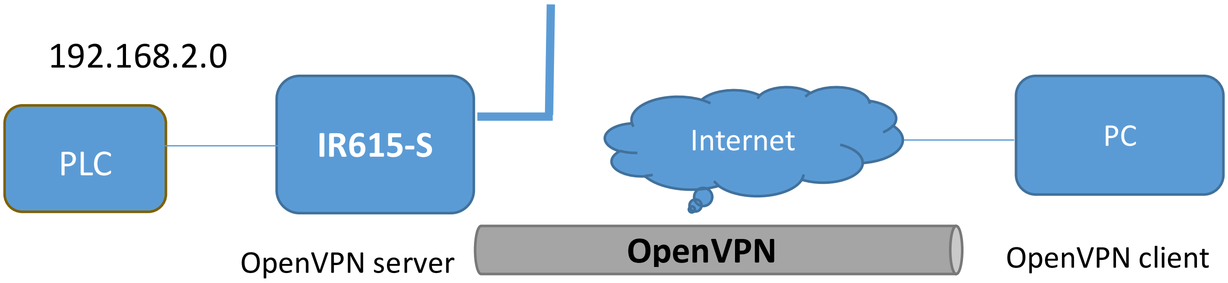
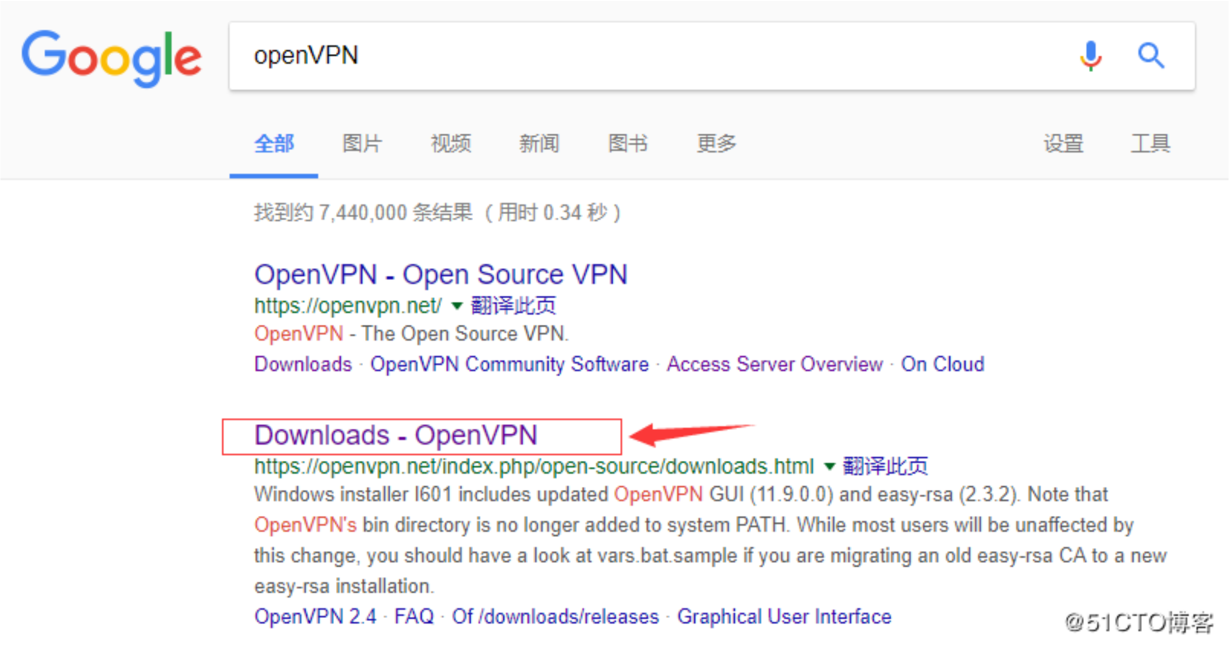
How to create OpenVPN between IR615 and PC

1. Topology



2. Download and install openvpn-install-2.3.4-I001-i686.exe, as follow:

Step 1: Download OpenVPN client

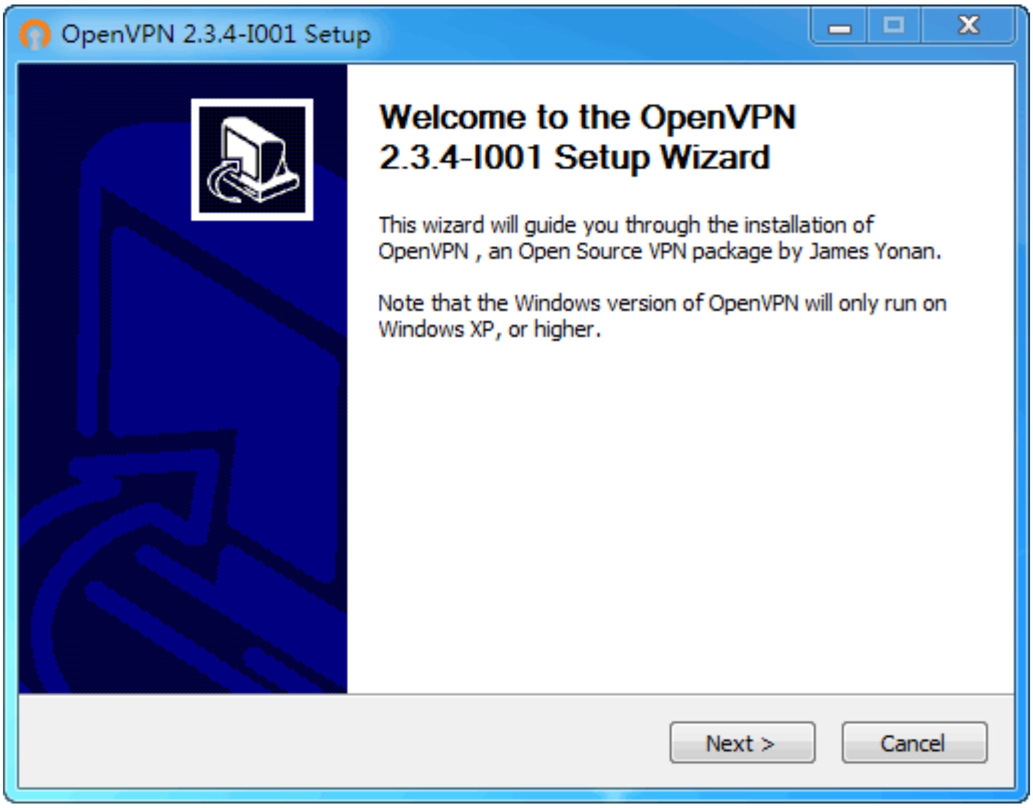


找到约 7,440,000 条结果（用时 0.34 秒）

OpenVPN - Open Source VPN
https://openvpn.net/ ▾ 翻译此页
OpenVPN - The Open Source VPN.
Downloads · OpenVPN Community Software · Access Server Overview · On Cloud

Downloads - OpenVPN
https://openvpn.net/index.php/open-source/downloads.html ▾ 翻译此页
Windows installer I601 includes updated OpenVPN GUI (11.9.0.0) and easy-rsa (2.3.2). Note that OpenVPN's bin directory is no longer added to system PATH. While most users will be unaffected by this change, you should have a look at vars.bat.sample if you are migrating an old easy-rsa CA to a new easy-rsa installation.
OpenVPN 2.4 · FAQ · Of /downloads/releases · Graphical User Interface

Step 2: Setup

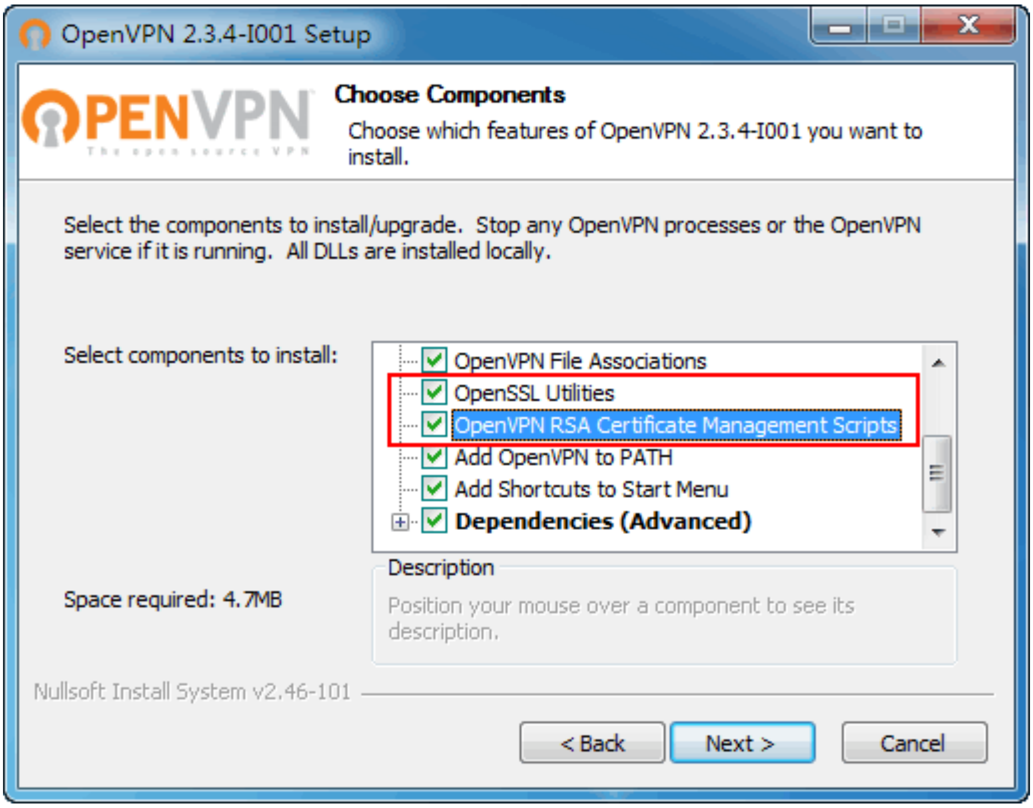


OpenVPN 2.3.4-I001 Setup

Welcome to the OpenVPN 2.3.4-I001 Setup Wizard

This wizard will guide you through the installation of OpenVPN , an Open Source VPN package by James Yonan.

Note that the Windows version of OpenVPN will only run on Windows XP, or higher.



OpenVPN 2.3.4-I001 Setup

Choose Components

Choose which features of OpenVPN 2.3.4-I001 you want to install.

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 File Associations
- ☑ OpenSSL Utilities
- ☑ OpenVPN RSA Certificate Management Scripts
- ☑ Add OpenVPN to PATH
- ☑ Add Shortcuts to Start Menu
- ☑ **Dependencies (Advanced)**

Space required: 4.7MB

Description

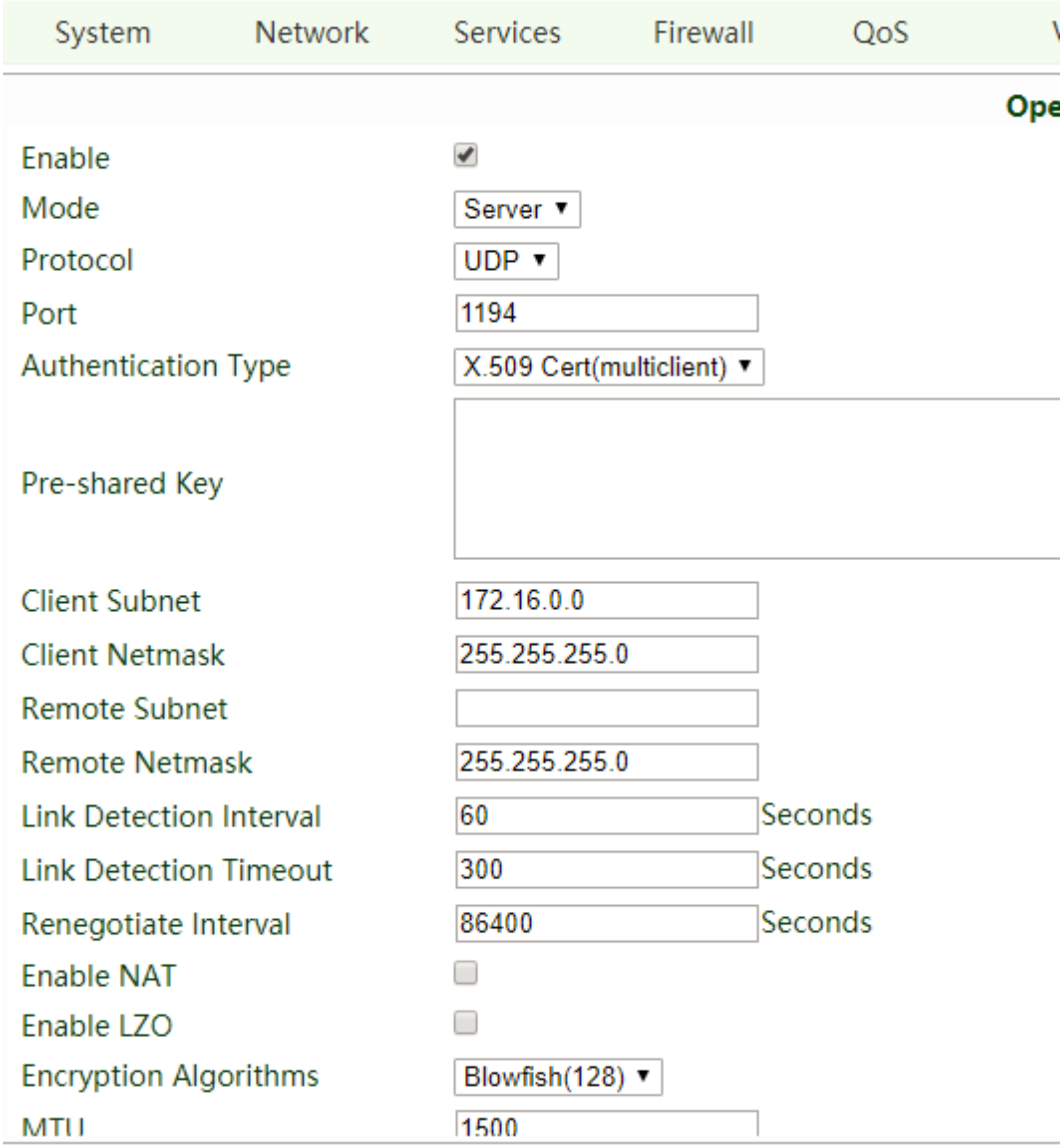
Position your mouse over a component to see its description.

Nullsoft Install System v2.46-101

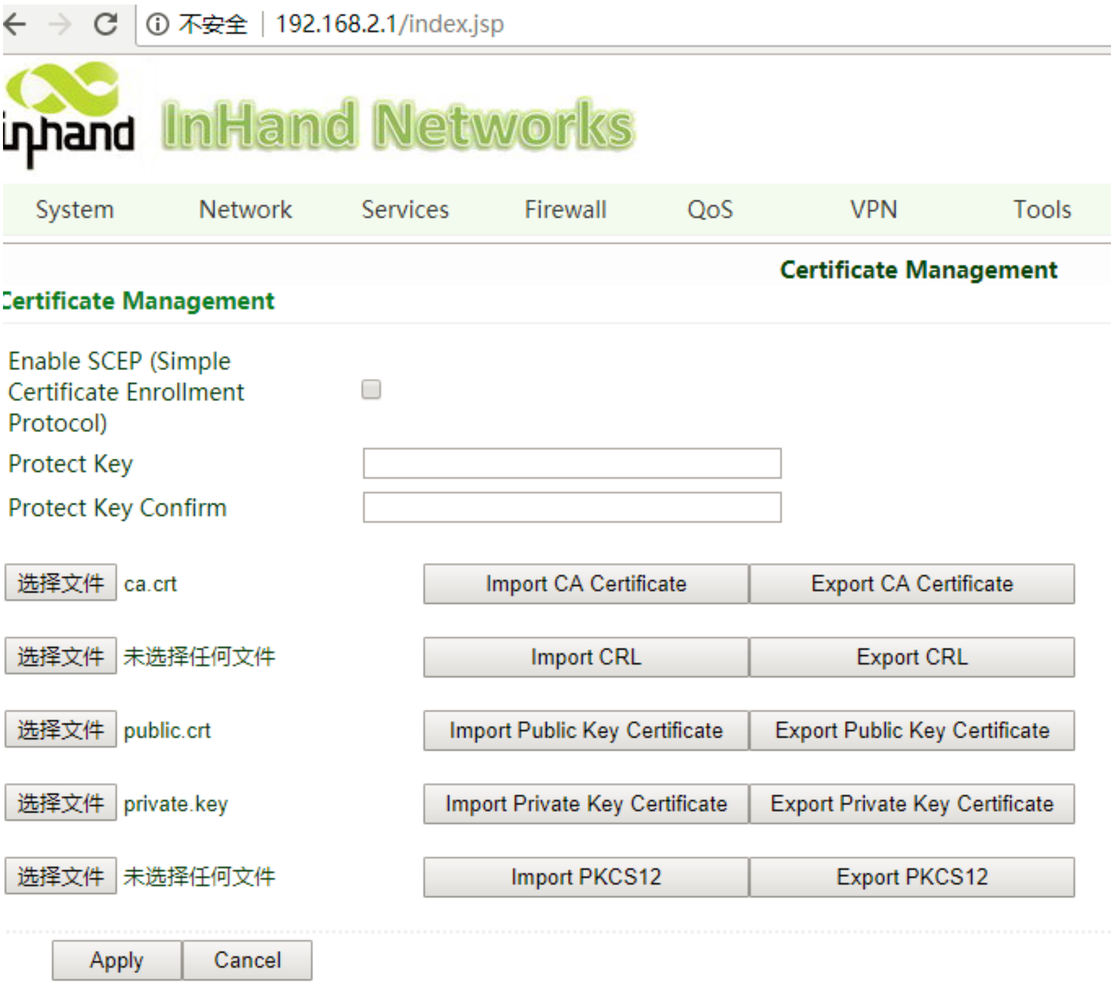
3. Create CA files:

For this part, please refer to document "Quick Guide for Creating OpenVPN CA files Base on Windows".

4. Sever side configuration



Enable	☑
Mode	Server ▾
Protocol	UDP ▾
Port	1194
Authentication Type	X.509 Cert(multiclient) ▾
Pre-shared Key	
Client Subnet	172.16.0.0
Client Netmask	255.255.255.0
Remote Subnet	
Remote Netmask	255.255.255.0
Link Detection Interval	60 Seconds
Link Detection Timeout	300 Seconds
Renegotiate Interval	86400 Seconds
Enable NAT	□
Enable LZO	□
Encryption Algorithms	Blowfish(128) ▾
MTU	1500



Certificate Management

Enable SCEP (Simple Certificate Enrollment Protocol) □

Protect Key

Protect Key Confirm

选择文件 ca.crt — Import CA Certificate | Export CA Certificate

选择文件 未选择任何文件 — Import CRL | Export CRL

选择文件 public.crt — Import Public Key Certificate | Export Public Key Certificate

选择文件 private.key — Import Private Key Certificate | Export Private Key Certificate

选择文件 未选择任何文件 — Import PKCS12 | Export PKCS12

Apply | Cancel

5. PC side configuration

Step 1: set the client side's configuration :

```
# Specify that we are a client and that we
# will be pulling certain config file directives
# from the server.
client

# Use the same setting as you are using on
# the server.
# On most systems, the VPN will not function
# unless you partially or fully disable
# the firewall for the TUN/TAP interface.
;dev tap
dev tun
```

```
# Windows needs the TAP-Win32 adapter name
# from the Network Connections panel
# if you have more than one.    On XP SP2,
# you may need to disable the firewall
# for the TAP adapter.
;dev-node MyTap

# Are we connecting to a TCP or
# UDP server?    Use the same setting as
# on the server.
;proto tcp
proto udp

# The hostname/IP and port of the server.
# You can have multiple remote entries
# to load balance between the servers.
remote 10.5.11.75 1194
;remote my-server-2 1194

# Choose a random host from the remote
# list for load-balancing.    Otherwise
# try hosts in the order specified.
;remote-random

# Keep trying indefinitely to resolve the
# host name of the OpenVPN server.    Very useful
# on machines which are not permanently connected
# to the internet such as laptops.
resolv-retry infinite

# Most clients don't need to bind to
# a specific local port number.
nobind

# Downgrade privileges after initialization (non-Windows only)
;user inhand
;group inhand

# Try to preserve some state across restarts.
persist-key
persist-tun
```

```
# If you are connecting through an
# HTTP proxy to reach the actual OpenVPN
# server, put the proxy server/IP and
# port number here.    See the man page
# if your proxy server requires
# authentication.
;http-proxy-retry # retry on connection failures
;http-proxy [proxy server] [proxy port #]

# Wireless networks often produce a lot
# of duplicate packets.    Set this flag
# to silence duplicate packet warnings.
;mute-replay-warnings

# SSL/TLS parms.
# See the server config file for more
# description.    It's best to use
# a separate .crt/.key file pair
# for each client.    A single ca
# file can be used for all clients.
ca ca.crt
cert client.crt
key client.key

# Verify server certificate by checking
# that the certicate has the nsCertType
# field set to "server".    This is an
# important precaution to protect against
# a potential attack discussed here:
#    http://openvpn.net/howto.html#mitm
#
# To use this feature, you will need to generate
# your server certificates with the nsCertType
# field set to "server".    The build-key-server
# script in the easy-rsa folder will do this.
ns-cert-type server

# If a tls-auth key is used on the server
# then every client must also have the key.
;tls-auth ta.key 1
```

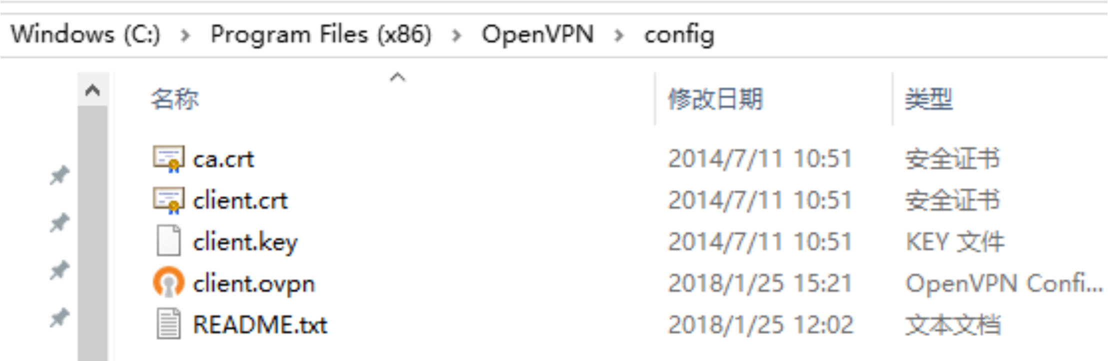
```
# Select a cryptographic cipher.
# If the cipher option is used on the server
# then you must also specify it here.
;cipher x

# Enable compression on the VPN link.
# Don't enable this unless it is also
# enabled in the server config file.
;comp-lzo

# Set log file verbosity.
verb 3

# Silence repeating messages
;mute 20
```

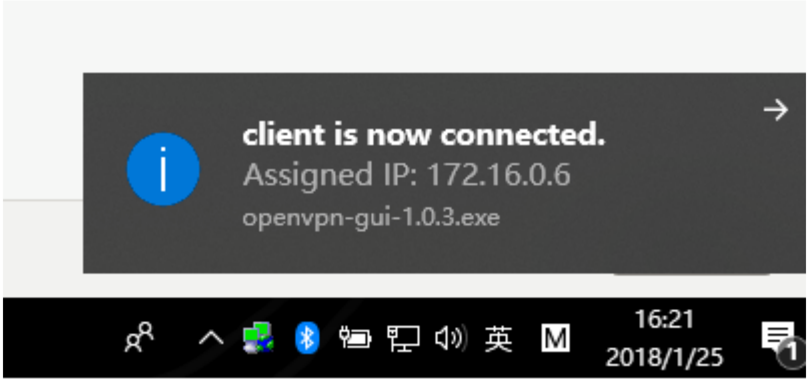
Step 2: Add the ca files under the config directory:



Windows (C:) › Program Files (x86) › OpenVPN › config

名称	修改日期	类型
ca.crt	2014/7/11 10:51	安全证书
client.crt	2014/7/11 10:51	安全证书
client.key	2014/7/11 10:51	KEY 文件
client.ovpn	2018/1/25 15:21	OpenVPN Confi...
README.txt	2018/1/25 12:02	文本文档

6. Double-click OpenVPN GUI to run this client.



client is now connected.
Assigned IP: 172.16.0.6
openvpn-gui-1.0.3.exe