Application Guide

Hongdian Routing-WAN-LAN

Contents

Revision History

Updates between document versions are cumulative. Therefore, the latest document version contains all updates made to previous versions.

Doc Version	Product	Release Data	Details
V1.0	Hongdia Router	2)1 .03.27	First Release

1 Overview

Routing is a important function for router, it can be applied to various networking, especially in VPN networking. Here is the example to configure the routing in Hongdian Router.
After you having build the VPN connection between Hongdian Router and your VPN server, you may refer to this document as the next step, to make the slave machine (which connects Hongdian Router by LAN) access the VPN network.

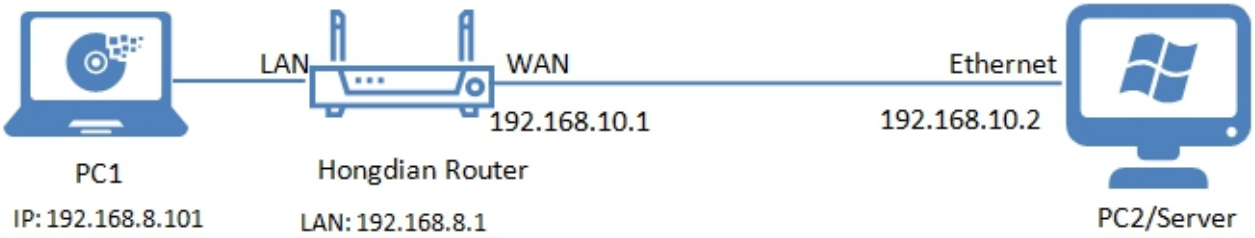
This ducument shows an example for the routing on Hongdian Router, allow the data packet can be forword from WAN to LAN.

2 Description

2.1 Topology

2.1.1 Demo diagram

In this demo, we are using 1 Hongdian Router and two PC. The diagram is as below.



PC1 is the slave machine and connect to Hongdian Router via LAN;
Hongdian Roter WAN connection can access to PC2(can be seen as Server).

The question is, how can we ping PC1 from PC2?

2.1.2 Demo diagram of WiFi Connection

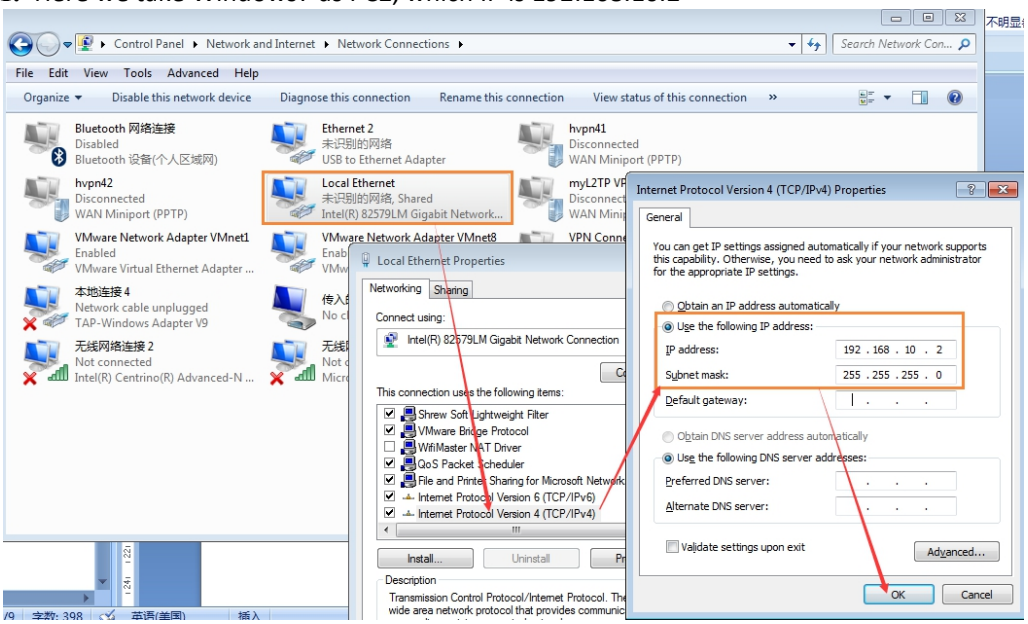
This is another similar demo diagram of WiFi connection.
The Hongdian enable WiFi station and connect to PC2's WiFi.

2.2 Operation

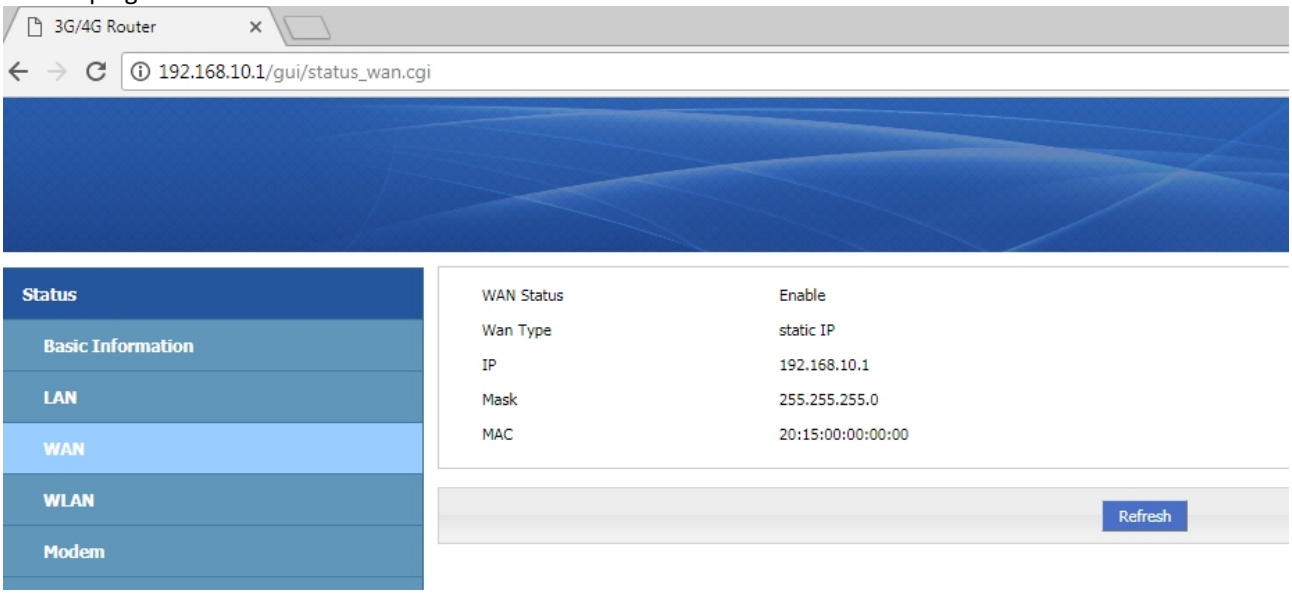
Note:
See the Hongdian Router as VPN client, and PC2 as VPN server, The routing's network shall be the subnet of the opposite end.
VPN server: Routing network is the subnet of the VPN client.
VPN client:Routing network is the subnet of the VPN server.

As we can see, the Server is no subnet in demo diagram, so we just need to add the Client's subnet in the Server.

1. Here we take Windows7 as PC2, which IP is 192.168.10.2

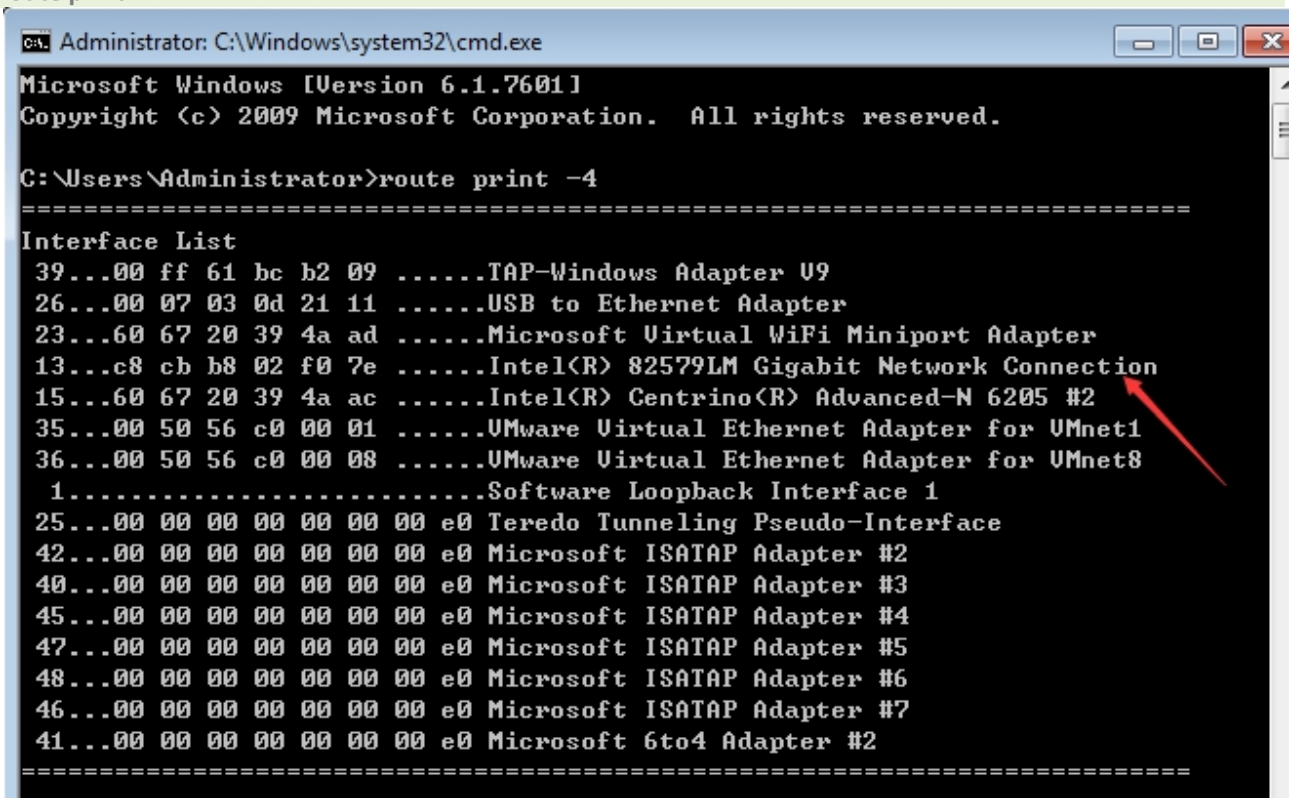


We can ping the Router's IP 192.168.10.1 via WAN as below.

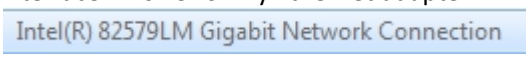


2. Open CMD and check your Ethernet Adapter's ID.

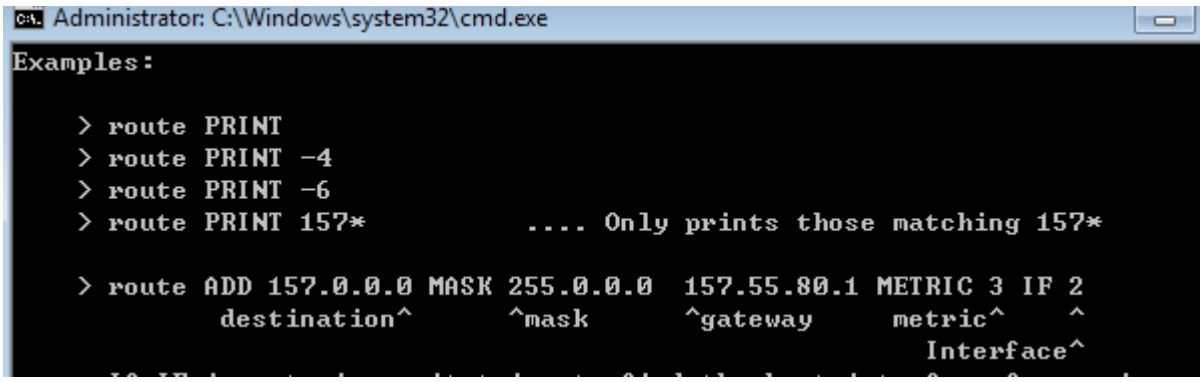
```
route print -4
```



Interface ID is 13 for my Ethernet adapter:



3. Add static routing, that is, to add the Client's subnet.



After build up the VPN
Router VPN IP: 10.0.0.3
PC2 VPN IP: 10.0.0.1

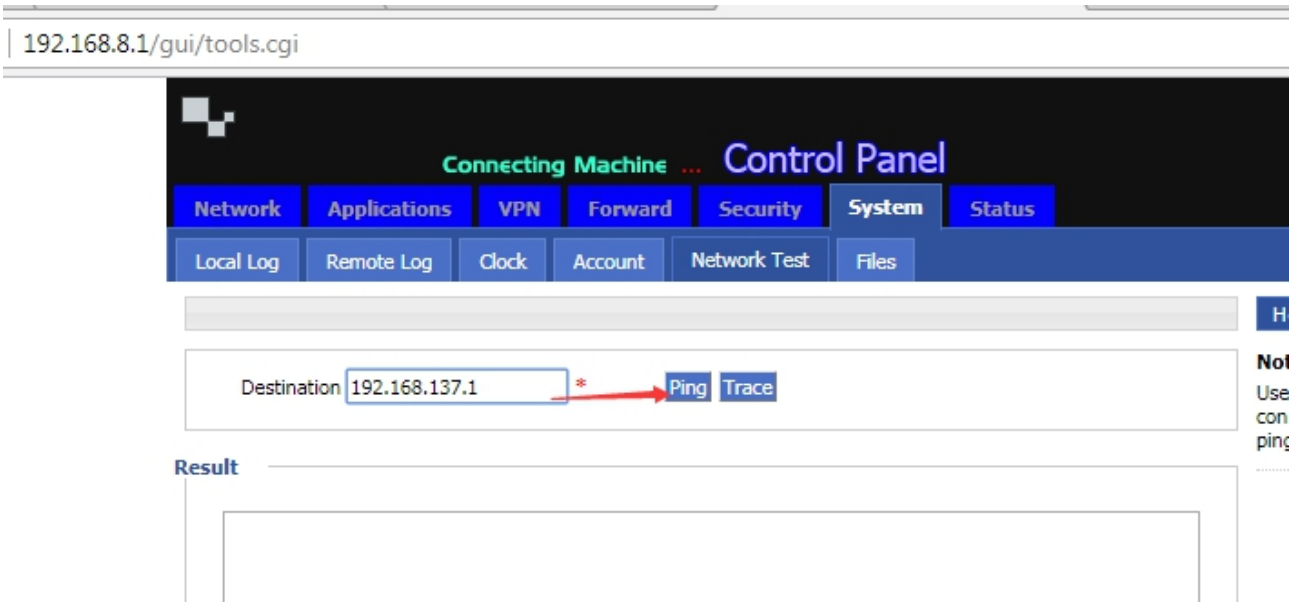
If just want to access 192.168.8.101 form 10.0.0.1,the routing is:
10.0.0.1->10.0.0.3->192.168.8.1->192.168.8.101

```
route add 192.168.8.0 mask 0.0.0.0 10.0.0.3 metric 3 if 77
route add 0.0.0.0 mask 0.0.0.0 10.0.0.3 metric 3 if 77
```

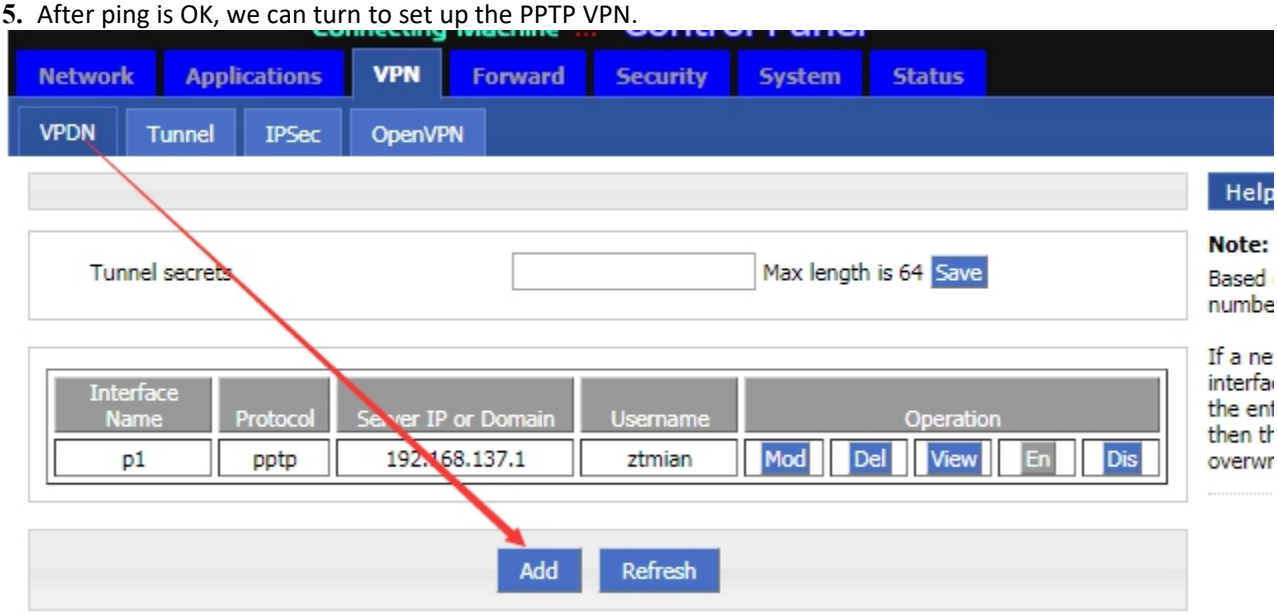
```
route add 192.168.8.101 mask 255.255.255.255 192.168.8.1 metric 3 if 13
route add 192.168.8.101 mask 255.255.255.255 192.168.10.2 metric 3 if 13
route add 192.168.8.0 mask 255.255.255.0 192.168.137.1 metric 3 if 23
ping 192.168.8.101 -S 192.168.137.1
route add 192.168.8.0 mask 0.0.0.0 192.168.137.76 metric 3 if 23
//OK
route add 192.0.0.0 mask 255.0.0.0 192.168.137.72 metric 3 if 23

route print -4
```

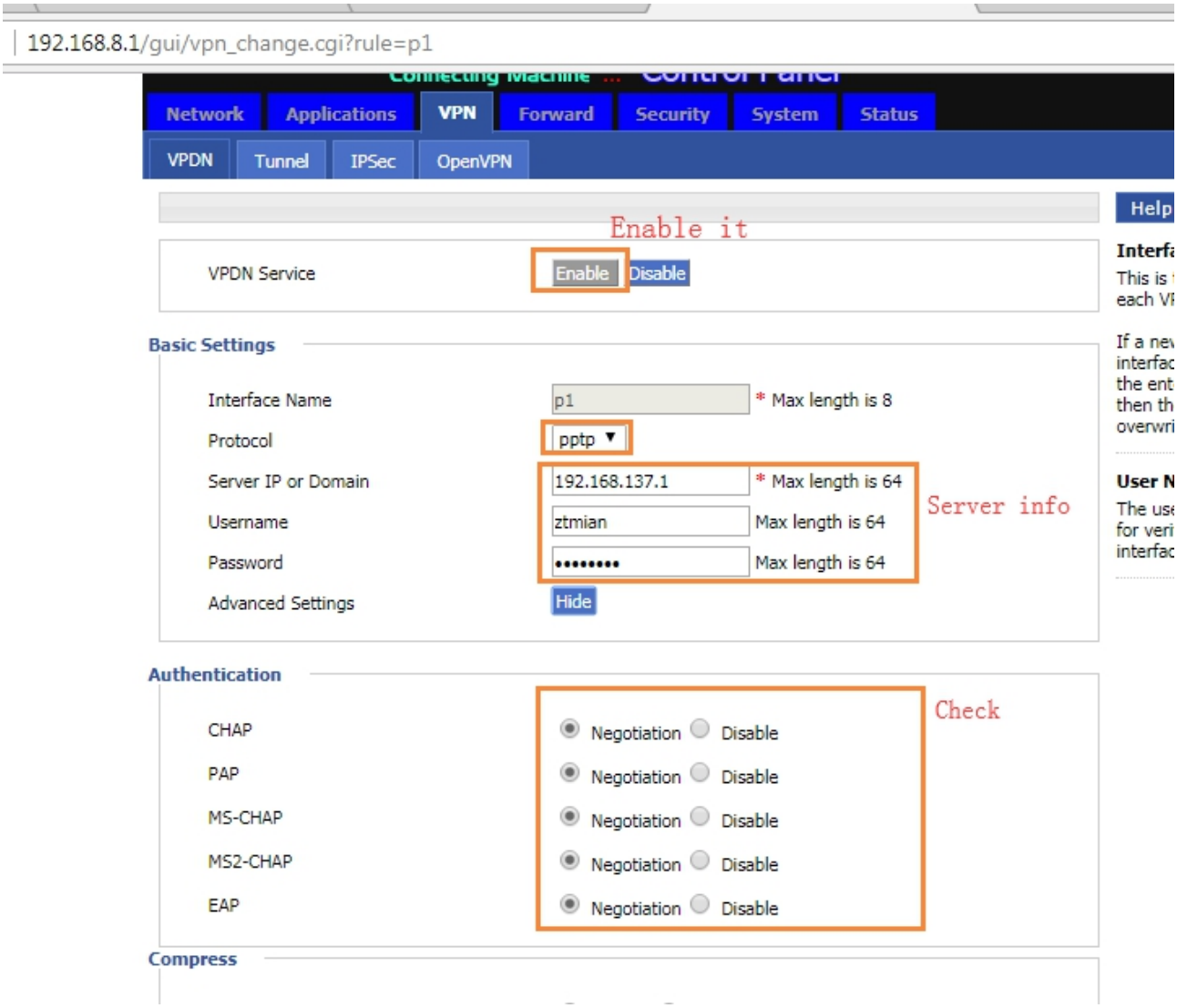
4. Visit Hongdian Router's web GUI, make sure router can ping the Windows's IP(such as 192.168.137.1), you can use Network Test to ping, as below.

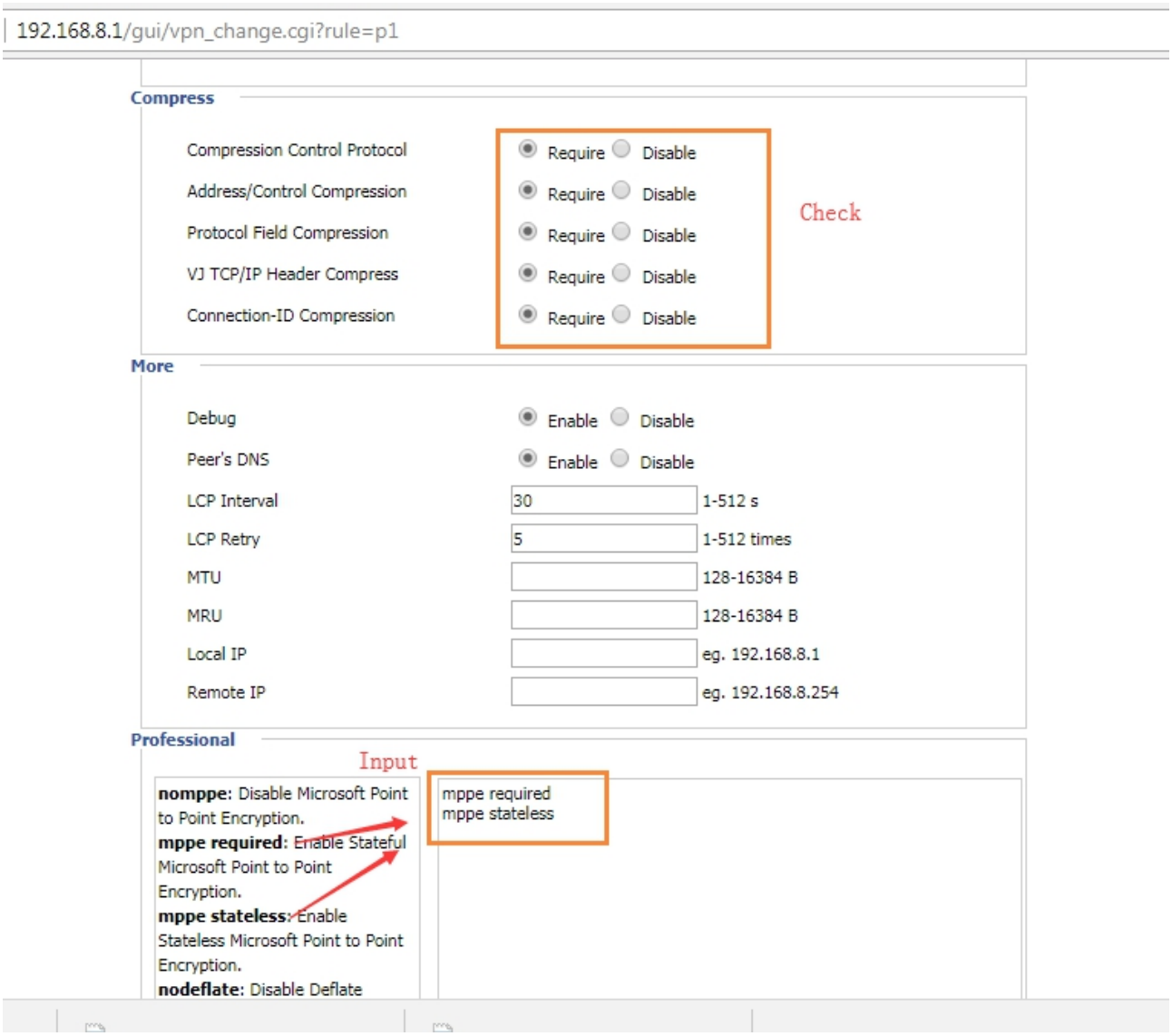


5. After ping is OK, we can turn to set up the PPTP VPN.

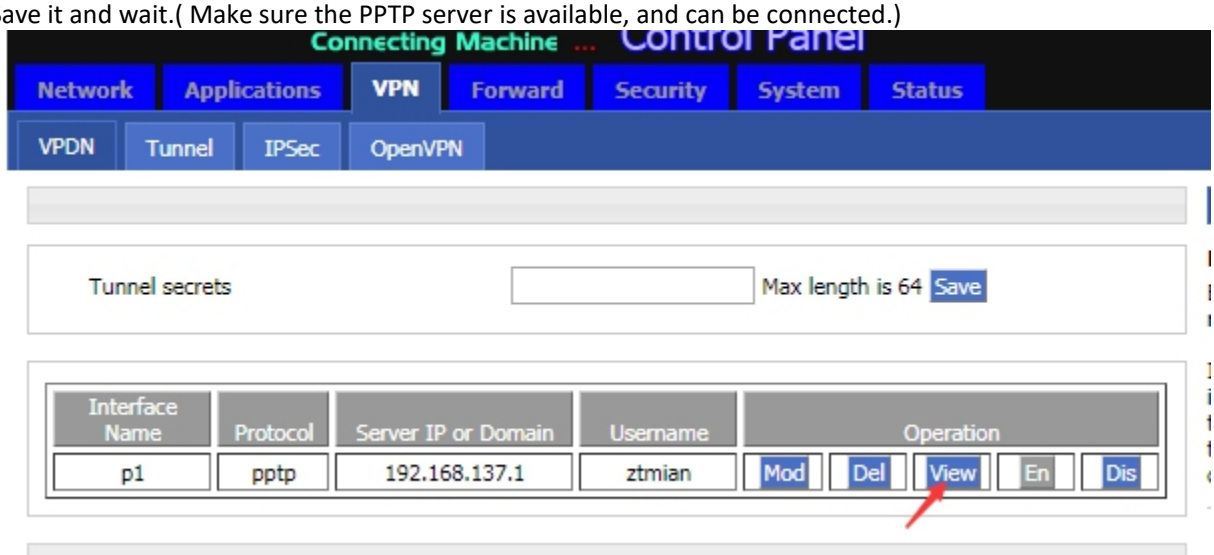


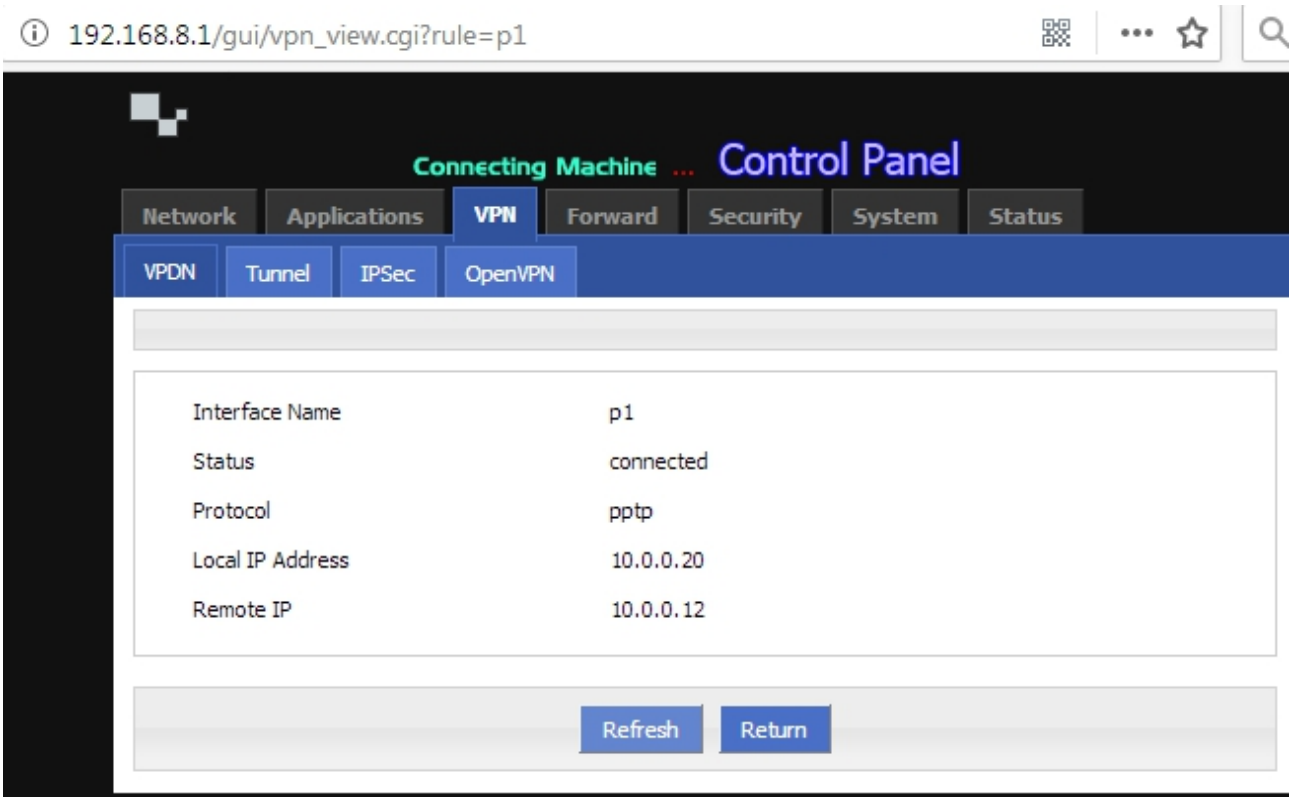
6. Edit info, wherein , server info may be different with your PC.


192.168.8.1/gui/vpn_change.cgi?rule=p1
Network
Applications
VPN
Forward
Security
System
Status
VPDN
Tunnel
IPSec
OpenVPN
Enable it
VPDN Service
Enable
Disable
Basic Settings
Interface Name
p1
* Max length is 8
Protocol
pptp
Server IP or Domain
192.168.137.1
* Max length is 64
Username
ztmian
Max length is 64
Password
Max length is 64
Server info
Advanced Settings
Hide
Authentication
Check
CHAP
PAP
MS-CHAP
MS2-CHAP
EAP
Negotiation
Disable
Compress
Help



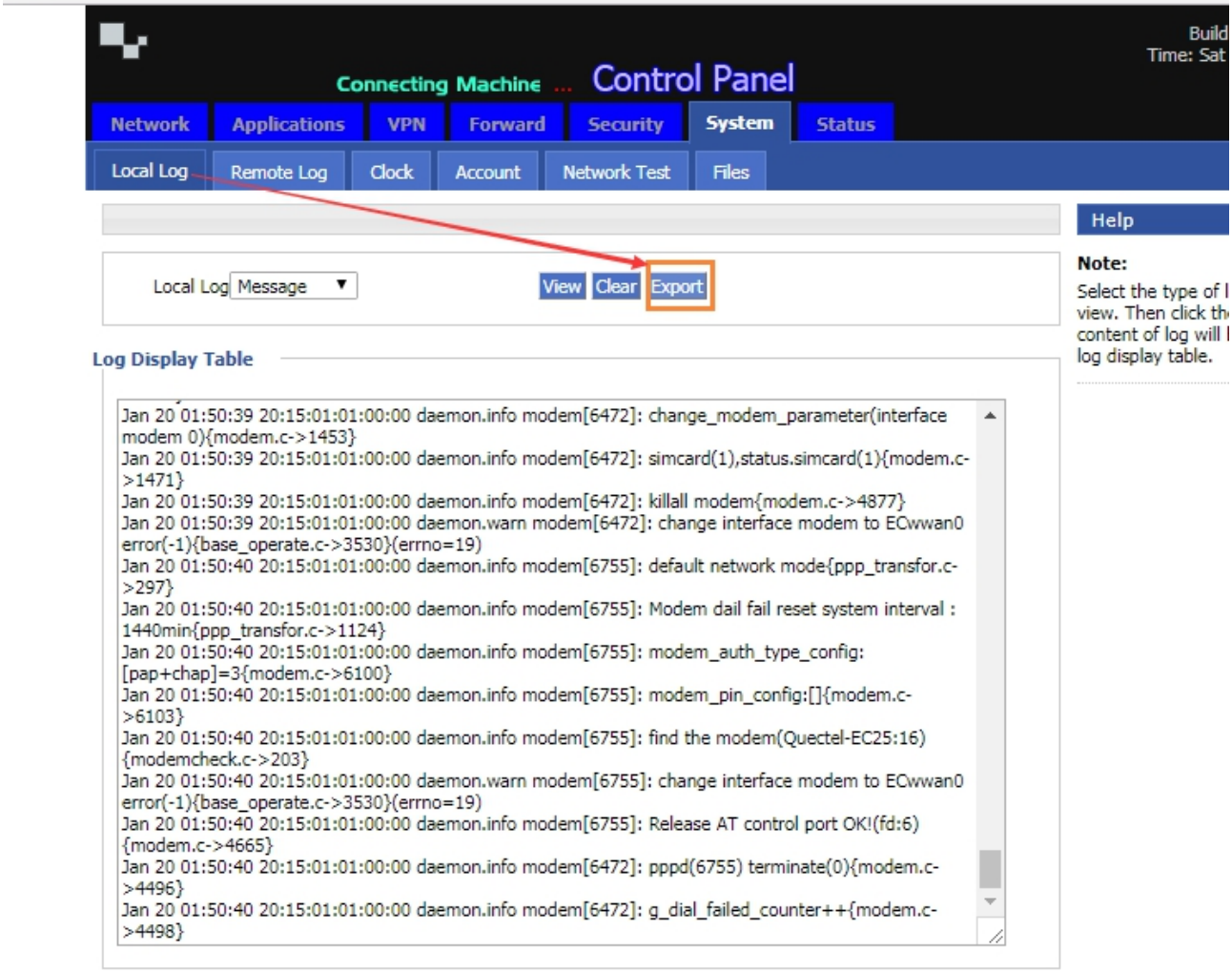
Save it and wait.(Make sure the PPTP server is available, and can be connected.)





7. You can also view the log, if connect fail, you can export the message.txt log and send to us.

g.cgi


Connecting Machine ... Control Panel
Build Time: Sat
Network
Applications
VPN
Forward
Security
System
Status
Local Log
Remote Log
Clock
Account
Network Test
Files
Help
Note:
Select the type of l
view. Then click th
content of log will
log display table.
Local Log Message
View
Clear
Export
Log Display Table
Jan 20 01:50:39 20:15:01:01:00:00 daemon.info modem[6472]: change_modem_parameter(interface modem 0){modem.c->1453}
Jan 20 01:50:39 20:15:01:01:00:00 daemon.info modem[6472]: simcard(1),status.simcard(1){modem.c->1471}
Jan 20 01:50:39 20:15:01:01:00:00 daemon.info modem[6472]: killall modem{modem.c->4877}
Jan 20 01:50:39 20:15:01:01:00:00 daemon.warn modem[6472]: change interface modem to ECwwan0 error(-1){base_operate.c->3530}(errno=19)
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6755]: default network mode{ppp_transfor.c->297}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6755]: Modem dail fail reset system interval : 1440min{ppp_transfor.c->1124}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6755]: modem_auth_type_config: [pap+chap]=3{modem.c->6100}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6755]: modem_pin_config:[]{modem.c->6103}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6755]: find the modem(Quectel-EC25:16){modemcheck.c->203}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.warn modem[6755]: change interface modem to ECwwan0 error(-1){base_operate.c->3530}(errno=19)
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6755]: Release AT control port OK!(fd:6){modem.c->4665}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6472]: pppd(6755) terminate(0){modem.c->4496}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6472]: g_dial_failed_counter++{modem.c->4498}

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