

Application Guide

Hongdian-PPTP-Cisco-Quick Case



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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	Hongdian Router	2018.04.02	First Release

1 Overview

Hongdian Router supports PPTP function and acts as the VPN client. Here is the example to build up the PPTP VPN with Cisco Router, which shows you a quick case to build up the PPTP connection.

This document shows the both required configuration with CLI(command line) format; the PPTP connection status checking on Hongdian Router or other PPTP client(such as Android phone).

2 Description

In this demo, the Cisco router is PPTP server, and its public IP address is 121.37.24.181.

2.1 CLI Configuration

2.1.1 Hongdian Router

#Telnet/SSH to Hongdian CLI

```
router> enable
router#conf terminal
router(config)#interface vpdn test
router(config-vpdn)# username test password test
router(config-vpdn)# destination 121.37.24.181
router(config-vpdn)# protocol pptp
router(config-vpdn)#write
Configuration saved to /tmp/hdconfig/cli.conf
router(config-vpdn)#print
```

2.1.2 Cisco Router

#Telnet/SSH to Cisco

```
cisco#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
cisco(config)#vpdn enable
cisco(config)#vpdn logging
cisco(config)#vpdn session-limit 1200
cisco(config)#vpdn-group pptp-vpn-test
cisco(config-vpdn)#! Default PPTP VPDN group
cisco(config-vpdn)#accept-dialin
cisco(config-vpdn-acc-in)#protocol pptp
cisco(config-vpdn-acc-in)#virtual-template 23
cisco(config-vpdn-acc-in)#interface Virtual-Template23
cisco(config-if)#ip address 10.10.10.254 255.255.255.0
cisco(config-if)#peer default ip address pool p2tp-dsj
cisco(config-if)#ppp encrypt mppe 40
```

```

cisco(config-if)#ppp authentication ms-chap
cisco(config-if)#ip local pool p2tp-dsj 10.10.10.1 10.10.10.200
cisco(config-if)#no shutdown
cisco(config)# ip route 192.168.8.0 255.255.255.0 10.10.10.1
cisco(config)#username test password test
cisco(config)#username etest password etest
cisco(config)#exit
cisco#write
Building configuration...
[OK]
cisco#show run

```

You can add more accounts for PPTP clients as below:

```

cisco(config)#username test password test
cisco(config)#username etest password etest
cisco(config)#username etest2 password etest
cisco(config)#exit
cisco#write

```

2.2 PPTP Connection Status

2.2.1 Hongdian Router

1. Make sure your Hongdian Router's Internet connection is OK.
2. Login web UI (default IP:192.168.8.1), check VPN->VPDN, as below. You can click "Mod" to view config ,and click "View" to view connection status.

192.168.8.1/gui/vpn.cgi

宏电®
Hongdian Connecting Machine ... Control Panel

Network Applications **VPN** Forward Security System Status

VPDN Tunnel IPSec OpenVPN

Tunnel secrets Max length is 64 [Save](#)

Interface Name	Protocol	Server IP or Domain	Username	Operation
test	pptp	121.37.24.181	test	Mod Del View En Dis

[Add](#) [Refresh](#)

Note:
Based on e
number of
If a new VI
interface n
the enterce
then the pr
overwriter

3. Click "Mod" as below.

192.168.8.1/gui/vpn_change.cgi?rule=test

The screenshot displays a web-based configuration interface for a VPN service. The top navigation bar includes tabs for Network, Applications, VPN (selected), Forward, Security, System, and Status. Below this, sub-tabs for VPDN, Tunnel, IPsec, and OpenVPN are visible. The main content area is divided into sections:

- VPDN Service:** A toggle switch is currently set to "Enable".
- Basic Settings:**
 - Interface Name: text input field containing "test" with a red asterisk and "Max length is 8".
 - Protocol: dropdown menu showing "pptp".
 - Server IP or Domain: text input field containing "121.37.24.181" with a red asterisk and "Max length is 64".
 - Username: text input field containing "test" with "Max length is 64".
 - Password: text input field containing "*****" with "Max length is 64".
 - Advanced Settings: a "Hide" button.
- Authentication:** A list of authentication methods with radio buttons for "Negotiation" and "Disable":
 - CHAP: Negotiation (selected), Disable
 - PAP: Negotiation (selected), Disable
 - MS-CHAP: Negotiation (selected), Disable
 - MS2-CHAP: Negotiation (selected), Disable
 - EAP: Negotiation (selected), Disable

On the right side of the interface, there are partial text labels: "Inter", "This i", "each", "If a n", "interf", "the e", "then", "overv", "User", "The u", "for ve", "interf".

Compress

Compression Control Protocol	<input type="radio"/> Require <input checked="" type="radio"/> Disable
Address/Control Compression	<input type="radio"/> Require <input checked="" type="radio"/> Disable
Protocol Field Compression	<input type="radio"/> Require <input checked="" type="radio"/> Disable
VJ TCP/IP Header Compress	<input type="radio"/> Require <input checked="" type="radio"/> Disable
Connection-ID Compression	<input type="radio"/> Require <input checked="" type="radio"/> Disable

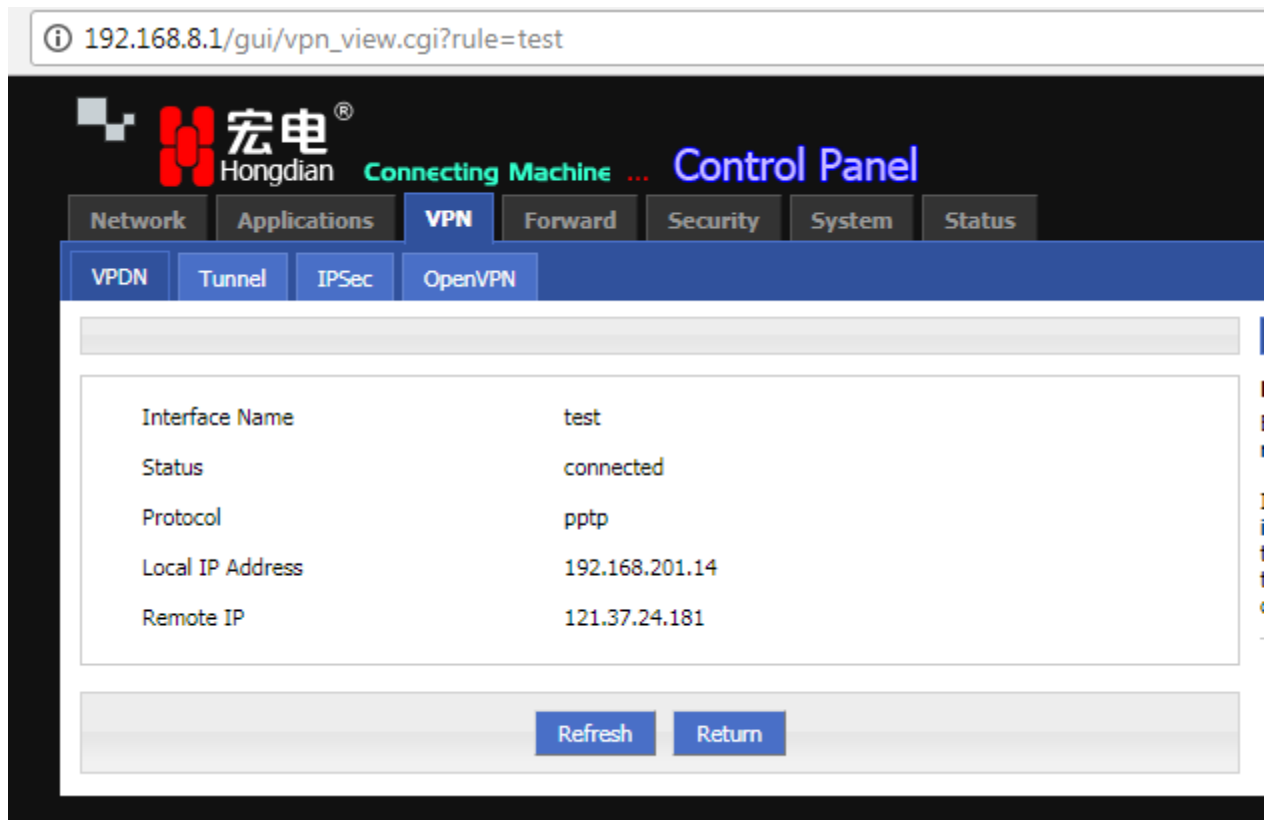
More

Debug	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Peer's DNS	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
LCP Interval	<input type="text" value="30"/> 1-512 s
LCP Retry	<input type="text" value="5"/> 1-512 times
MTU	<input type="text"/> 128-16384 B
MRU	<input type="text"/> 128-16384 B
Local IP	<input type="text"/> eg. 192.168.8.1
Remote IP	<input type="text"/> eg. 192.168.8.254

Professional

<p>nomppe: Disable Microsoft Point to Point Encryption.</p> <p>mppe required: Enable Stateful Microsoft Point to Point Encryption.</p> <p>mppe stateless: Enable Stateless Microsoft Point to Point Encryption.</p> <p>nodeflate: Disable Deflate compression entirely.</p>	<p>mppe required</p> <p>mppe stateless</p>
---	--

4. Click "View" as below, wherein we can see the PPTP status is connected.



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

j.cgi

Build Time: Sat

Connecting Machine ... Control Panel

Network Applications VPN Forward Security System Status

Local Log Remote Log Clock Account Network Test Files

Local Log Message View Clear Export

Note: Select the type of view. Then click the content of log will log display table.

Log Display Table

```

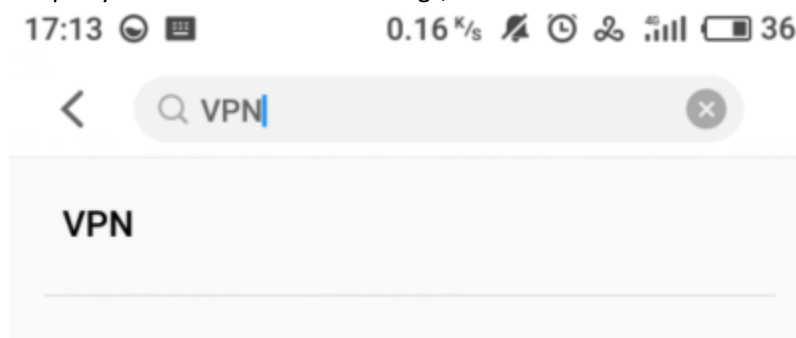
Jan 20 01:50:39 20:15:01:01:00:00 daemon.info modem[6472]: change_modem_parameter(interface
modem 0){modem.c->1453}
Jan 20 01:50:39 20:15:01:01:00:00 daemon.info modem[6472]: simcard(1),status.simcard(1){modem.c-
>1471}
Jan 20 01:50:39 20:15:01:01:00:00 daemon.info modem[6472]: killall modem{modem.c->4877}
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}

```

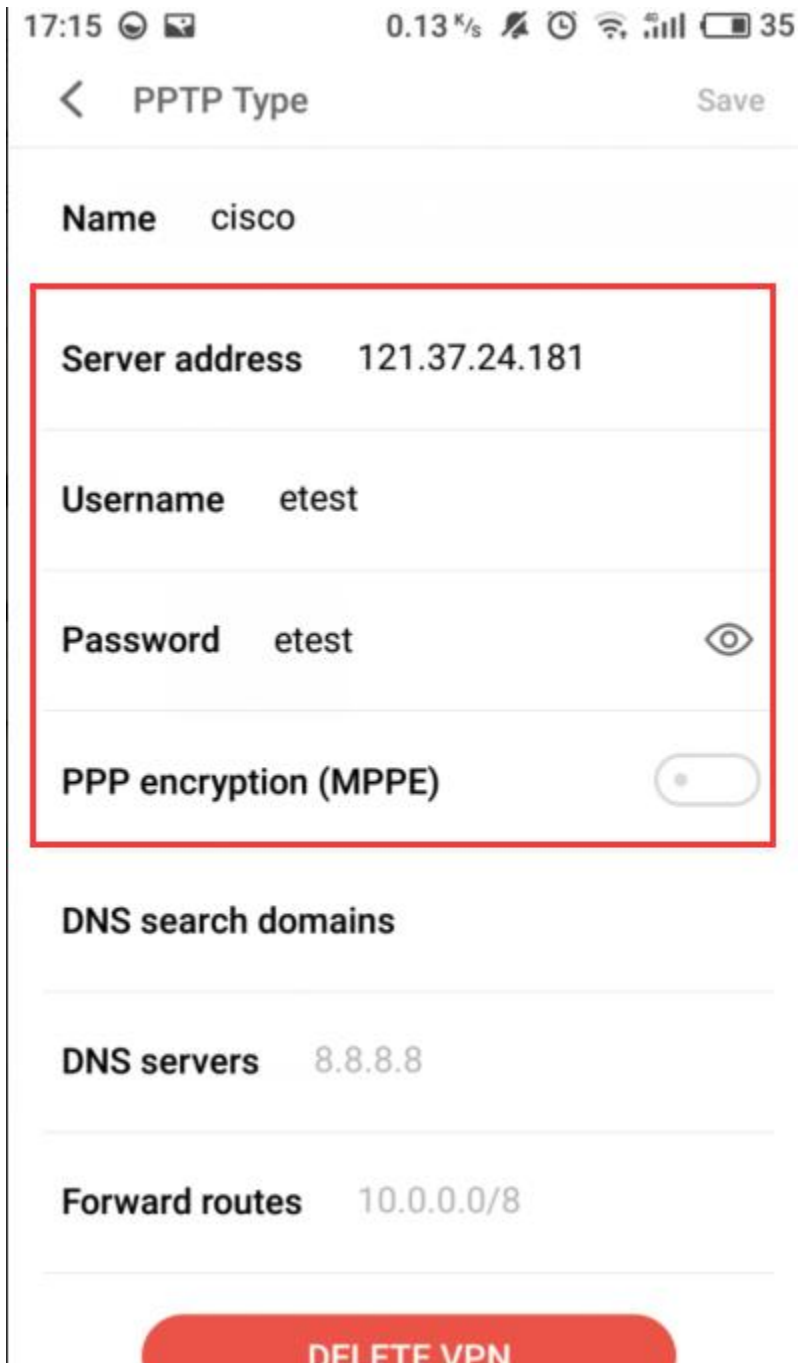
2.2.2 Android phone

We can also use the Android Phone to verify if the Cisco PPTP is available.

1. Open your Android Phone's settings, enter VPN->Add PPTP.



2. The PPTP configuration for Cisco PPTP as below. Wherein, "etest" is another account we have added in Cisco.



3. We can see the PPTP is connected as below.

17:20 0.12 K/s 35

< VPN

VPN



VPN list

cisco

Connected



So these mean the PPTP Server is OK.



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