

PPTP Command line setup on CentOS 7

CentOS provides an PPTP solutions in the repository,

STEP 1. Install PPTP

```
sudo yum update
sudo yum -y install pptp
sudo modprobe nf_conntrack_pptp
sudo modprobe ppp_mppe
```

STEP 2. Run **sudo vi /etc/ppp/chap-secrets** to edit the chap-secret file as shown below:

```
# Secrets for authentication using CHAP
# client      server  secret          IP addresses
vpnusername PPTP vpnpassword *
```

Note that you should put space or tab between elements listed above.

STEP 3. Run **sudo vi /etc/ppp/peers/linuxconfig** and enter the following information. You can create your own name whatever instead of linuxconfig.

```
pty "pptp us-ded-6.dns2use.com -nolaunchpppd"
name yourVPNusername
remotename PPTP
require-mppe-128
file /etc/ppp/options.pptp
ipparam linuxconfig
```

STEP 4. Run **sudo vi /etc/ppp/options.pptp** to be sure there is no # sign before these lines.

```
lock
noauth
refuse-pap
refuse-eap
refuse-chap
nobsdcomp
nodeflate
require-mppe-128
```

STEP 5. Run **sudo vi /etc/ppp/ip-up.local** and add the following line. By doing so, it will set the default to ppp0.

```
/sbin/route add default ppp0
```

In order to execute the file, run

```
sudo chmod 755 /etc/ppp/ip-up.local
```

STEP 6. Allow pptp to your firewall policy

```
firewall-cmd --permanent --zone=public --add-port=1723/tcp
firewall-cmd --permanent --zone=public --add-port=1723/udp
firewall-cmd --reload
```

STEP 6. Connect to the VPN by running

```
sudo pppd call linuxconfig
```

STEP 7. How do I check the accuracy of your VPN IP and location?

```
curl ipinfo.io
```

If there is no change, please check your network interface by **ifconfig** - for example) ppp0 with the assigned IP address

STEP 8. How to disconnect the VPN

```
sudo pkill pppd
```

STEP 9. Trouble shooting

If you are unable to connect, please check your connection logs by running

```
sudo cat /var/log/messages | grep pppd
```

If you use firewalld with pptp, you will need to call following commands to add rules to firewalld

```
sudo firewall-cmd --permanent --zone=public --direct --add-rule ipv4 filter INPUT 0 -p gre -j ACCEPT
sudo firewall-cmd --permanent --zone=public --direct --add-rule ipv6 filter INPUT 0 -p gre -j ACCEPT
sudo firewall-cmd --permanent --zone=public --add-masquerade
sudo firewall-cmd --reload
```

<https://www.lightning-ashe.com/develop/setup-pptp-server-on-centos/>

<https://linuxconfig.org/how-to-establish-pptp-vpn-client-connection-on-centos-rhel-7-linux>