

Install PPTP on CentOS 5

Prerequisites

- Install CentOS 5
- Forward GRE protocol and TCP port 1723 through your firewall

Install the Server

Add the Poptop Yum Repository

rpm -Uvh <http://poptop.sourceforge.net/yum/stable/rhel5/pptp-release-current.noarch.rpm>

Configure iptables

Create iptables_set.sh, chmod +x iptables_set.sh, and run the script.

- Note: The following will work but you may wish to change the source address from 10.10.9.0/24 to the network range of your choosing based on your network.

```
#!/bin/bash
/sbin/iptables -F
/sbin/iptables -P INPUT DROP
/sbin/iptables -P OUTPUT ACCEPT
/sbin/iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
/sbin/iptables -A FORWARD -i ppp+ -o eth0 -j ACCEPT
/sbin/iptables -A FORWARD -i eth0 -o ppp+ -j ACCEPT
/sbin/iptables -A INPUT -i eth0 -p tcp --dport 1723 -j ACCEPT
/sbin/iptables -A INPUT -i eth0 -p gre -j ACCEPT
/sbin/iptables -A INPUT -p icmp -j ACCEPT
/sbin/iptables -A INPUT -i lo -j ACCEPT
/sbin/iptables -A INPUT -m state --state ESTABLISHED,RELATED -j ACCEPT
/sbin/service iptables save
/sbin/iptables -L -v
```

In order to make the live chats (**yahoo, msn, google, etc**) work as it should we need to modify the default MTU,

Edit `/etc/ppp/ip-up`:

vim /etc/ppp/ip-up

Add the following line:

`ifconfig $1 mtu 1400`

I add it before "exit 0".

Configure Kernel

Edit **vi /etc/sysctl.conf**

`net.ipv4.ip_forward = 1`

Make the changes active

- **# sysctl -p**
- **# sysctl -p /etc/sysctl.conf**

Install PPTP Server

Install ppp and pptpd

- `yum install ppp pptpd`

[RMP for centos 5]

`wget http://poptop.sourceforge.net/yum/stable/packages/pptpd-1.3.4-2.rhel5.x86_64.rpm`

`wget ftp://ftp.pbone.net/mirror/rnd.rajven.net/centos/5.5/os/i386/pptpd-1.3.4-1cnt5.5.i386.rpm`

Configure the service to start on boot

- `chkconfig --levels 345 pptpd on`

Configure Client Network Options

Modify **vi /etc/pptpd.conf**

localip 192.168.102.254

remoteip 192.168.102.1-100

Modify **vi /etc/ppp/options.pptpd**

`ms-dns 208.67.222.222` [DNS]

`ms-dns 8.8.8.8`

Configure Client Access

Edit [vi /etc/ppp/chap-secrets](#). You will need to customize the client name, secret (password), and you can either allow all IP address or limit as necessary.

Secrets for authentication using CHAP

# client	server	secret	IP addresses
world	*	123456	*

User name	passwd
-----------	--------

Start the Server

Start the pptpd service

chkconfig pptpd on

- **service pptpd start**
- **chkconfig pptpd on**
- **service pptpd restart**

Remove PPTPD

```
yum remove -y pptpd ppp
iptables --flush POSTROUTING --table nat
iptables --flush FORWARD
rm -rf /etc/pptpd.conf
rm -rf /etc/ppp
```

Configure the Client

RPM Download

For CentOS 5 32 bit:

wget <http://sourceforge.net/projects/poptop/files/pptpd/pptpd-1.4.0/pptpd-1.4.0.tar.gz/download>

Install by this command:

```
rpm -ivh pptpd-1.3.4-2.rhel5.i386.rpm
```

For CentOS 6 32Bit:

wget http://poptop.sourceforge.net/yum/stable/rhel6/x86_64/pptpd-1.4.0-1.el6.x86_64.rpm

Install it by typing the following command:

```
rpm -ivh pptpd-1.3.4-2.el6.i686.rpm
```

For CentOS 5 64Bit:

wget <http://sourceforge.net/projects/poptop/files/pptpd/pptpd-1.4.0/pptpd-1.4.0.tar.gz/download>

Install by this command:

```
rpm -ivh pptpd-1.3.4-2.rhel5.x86_64.rpm
```

For CentOS 6 64Bit:

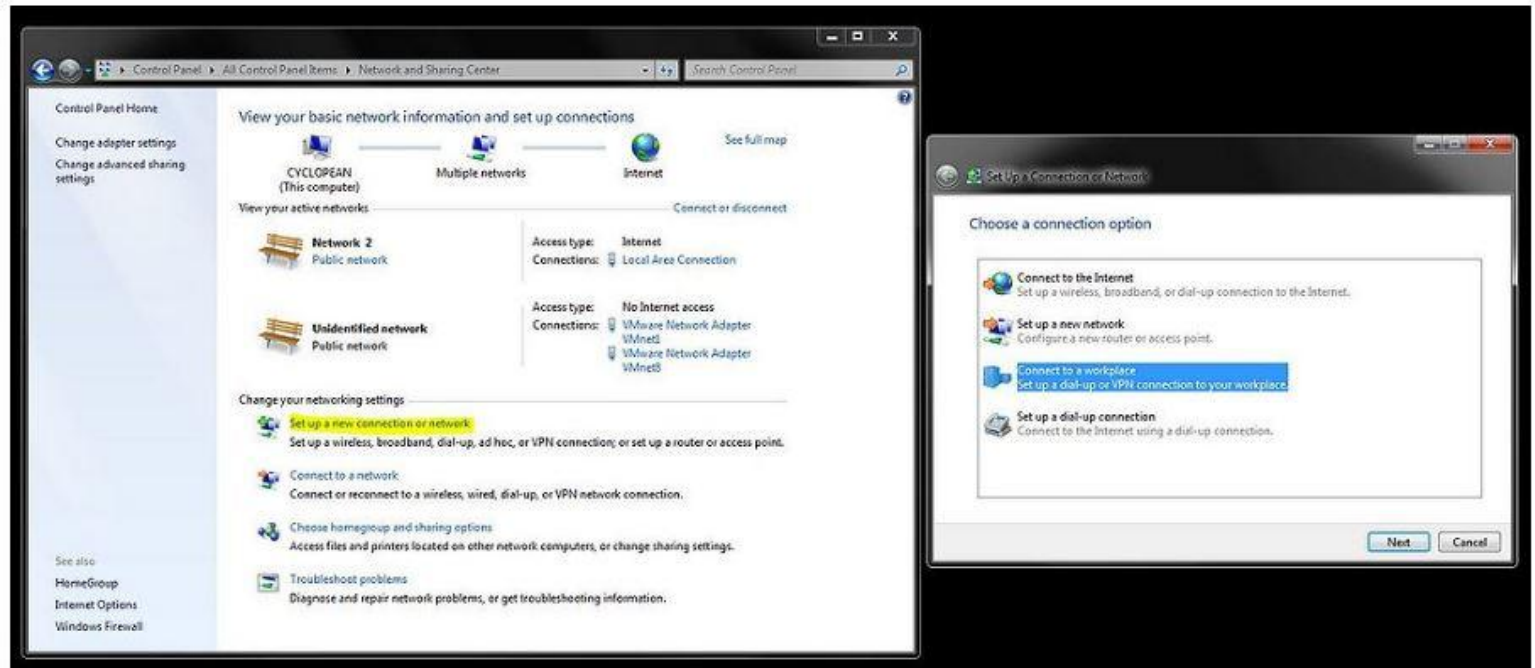
wget http://poptop.sourceforge.net/yum/stable/rhel6/x86_64/pptpd-1.4.0-1.el6.x86_64.rpm

Install by this command:

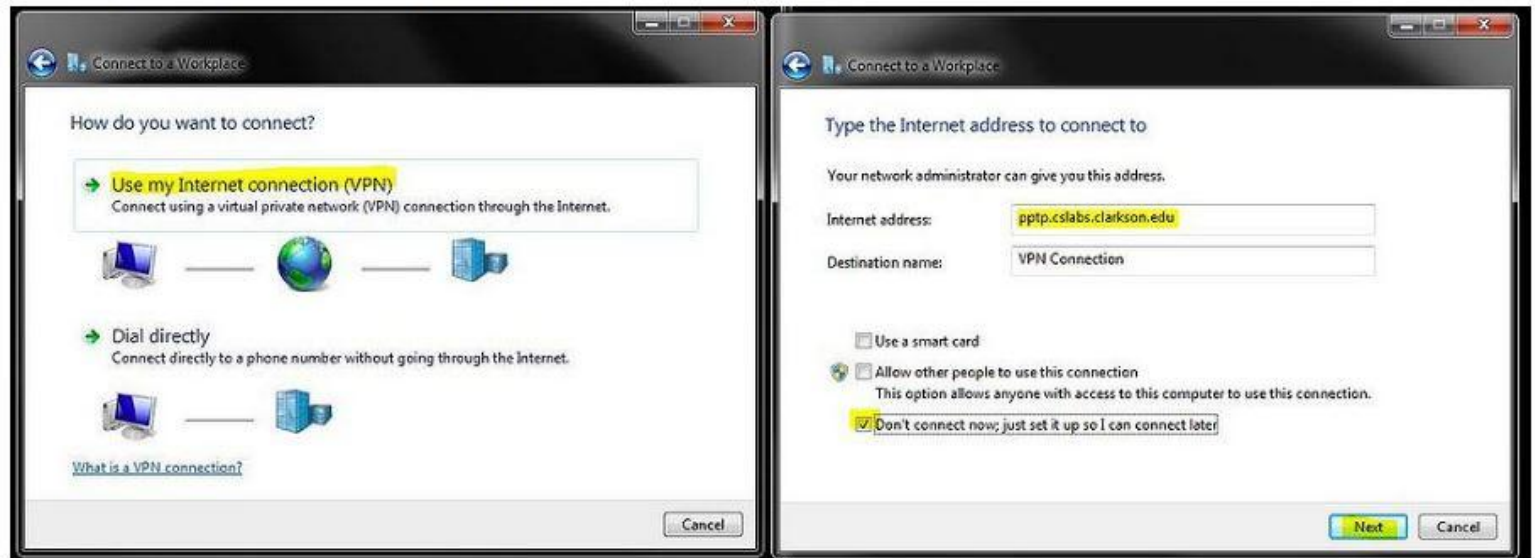
```
rpm -ivh pptpd-1.3.4-2.el6.x86_64.rpm
```

Configure the Client

Open up Network and Sharing Center, choose Set up a new connection or network, and select Connect to a workplace.



Choose Use my Internet connection (VPN) and enter in the Internet address of the PPTP server. Select Don't connect now.

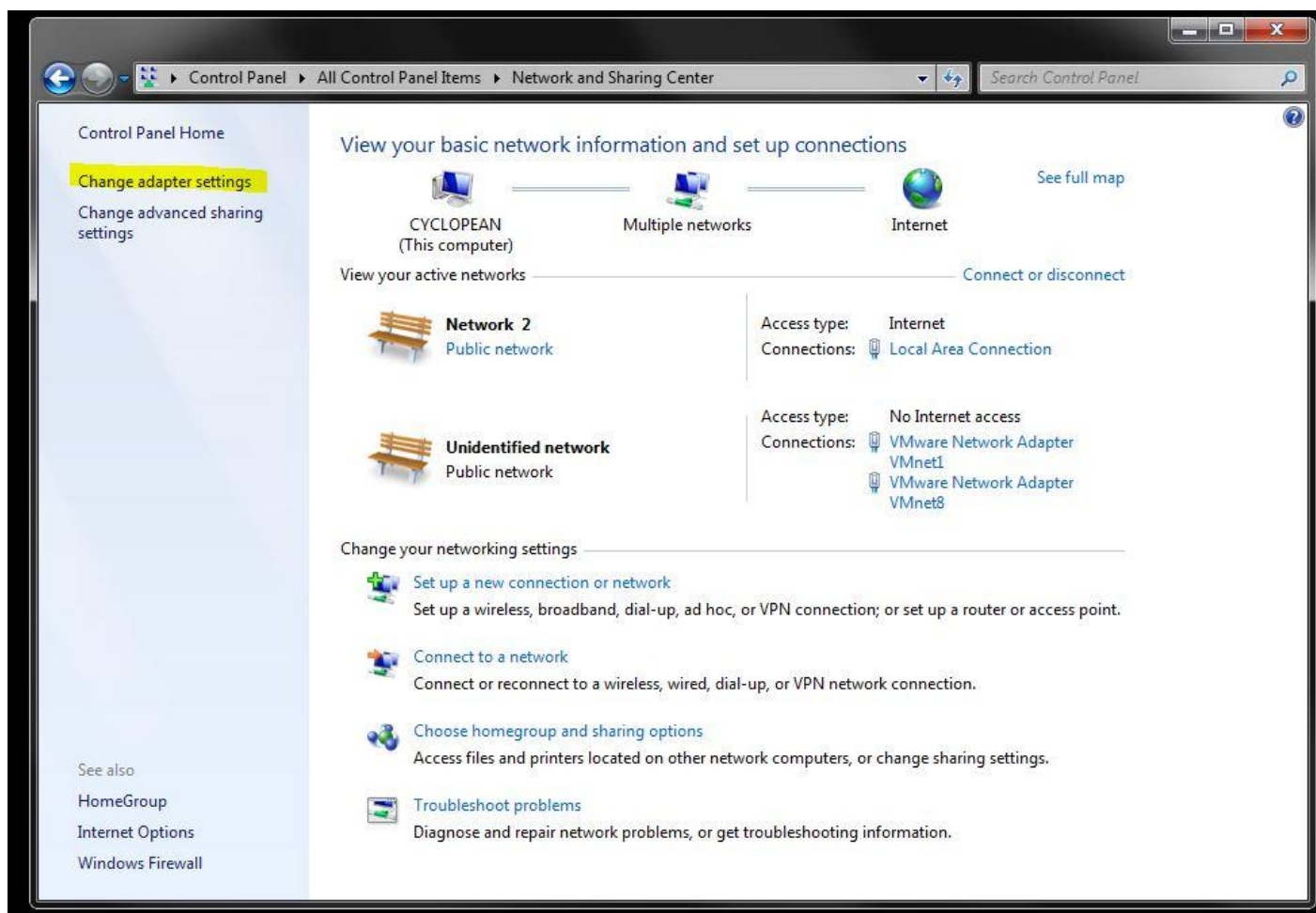


Enter in the user name and password (chap secret), click Create, and click Close.

Choose Use my Internet connection (VPN) and enter in the Internet address of the PPTP server. Select Don't connect now.

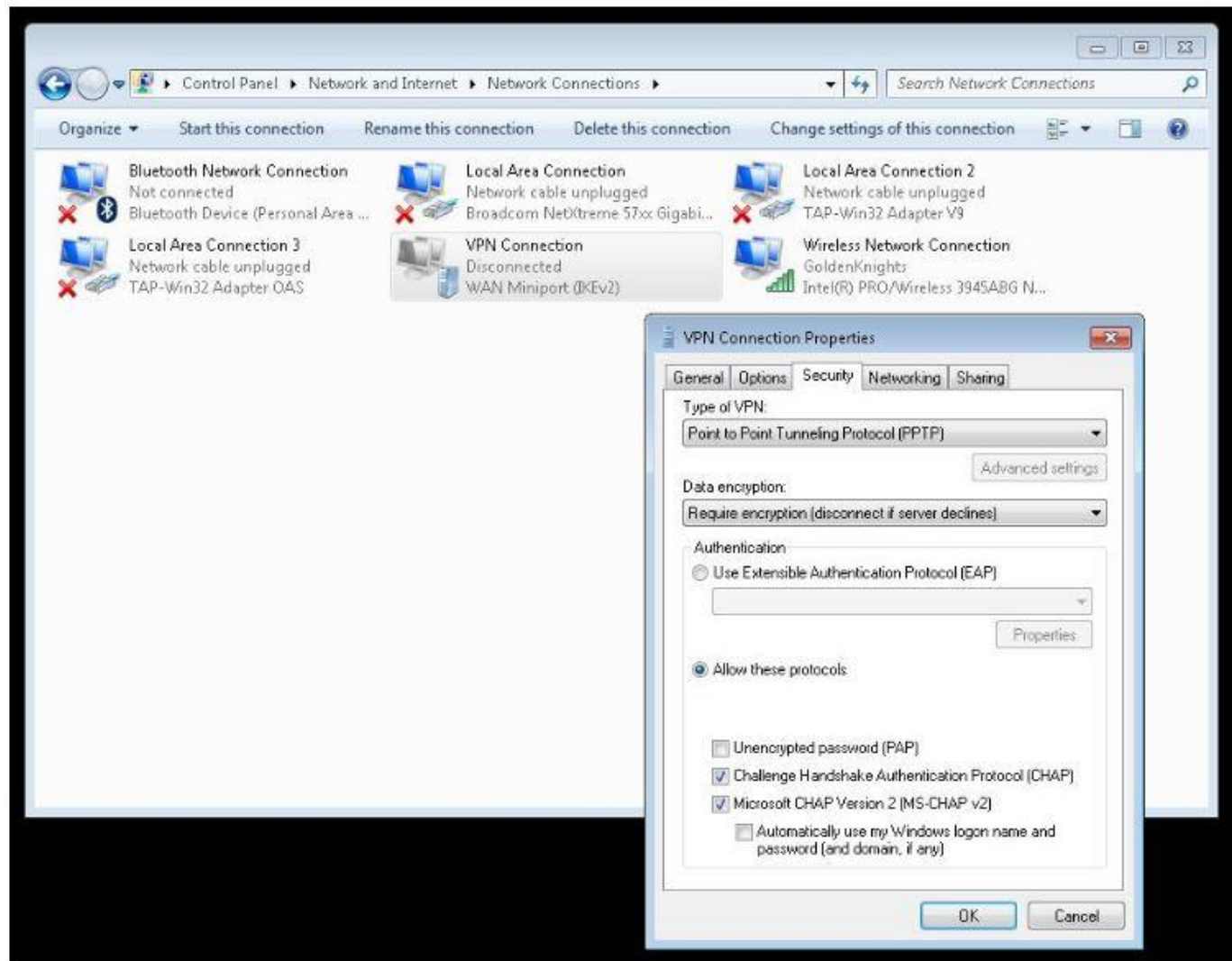
Enter in the user name and password (chap secret), click Create, and click Close.

Return to Network and Sharing Center and click Change adapter settings.



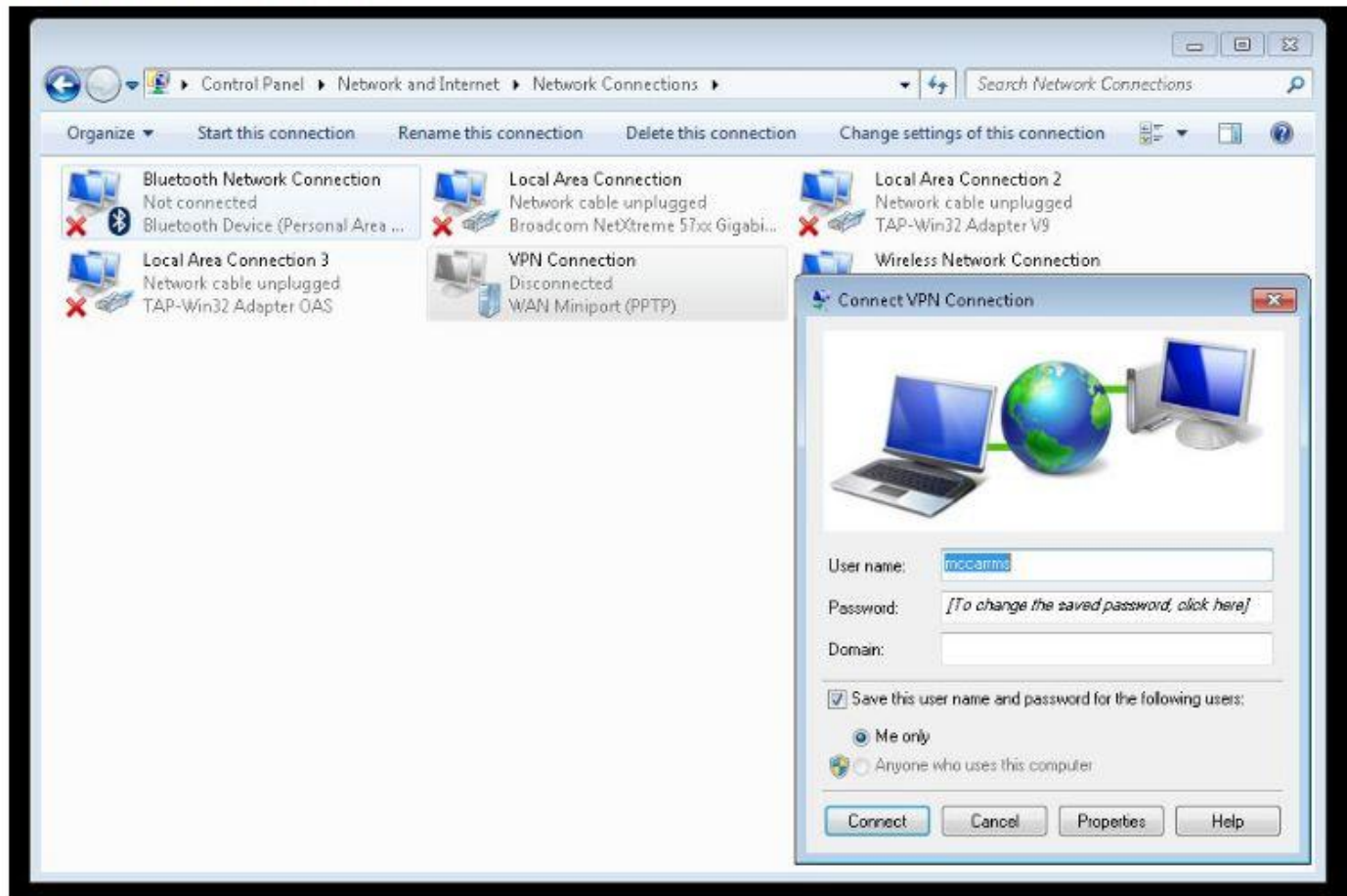
Right click VPN Connection and choose Properties.

Select the Security tab, set the Type of VPN to Point to Point Tunneling Protocol (PPTP), and click OK.



Double click the VPN Connection and choose Connect

Double click the VPN Connection and choose Connect.



Select the Security tab, set the Type of VPN to Point to Point Tunneling Protocol (PPTP), and click OK. Double click the VPN Connection and choose Connect.

**PPTP VPN Installation, configuration and setup.
CentOS 5 and 6 for 32 and 64bit and OpenVZ / XEN /
KVM**

Posted on [January 16, 2013](#) by [John Williams](#)

1. Install ppp via yum:

```
$ yum install ppp -y
```

2. Download and install [pptpd](#) (the daemon for point-to-point tunneling). You can find the correct package at this [website http://poptop.sourceforge.net/yum/stable/packages/](http://poptop.sourceforge.net/yum/stable/packages/) :

```
$ cd /usr/local/src
```

```
$ wget http://poptop.sourceforge.net/yum/stable/packages/pptpd-1.3.4-2.el6.x86_64.rpm
```

```
$ rpm -Uhv pptpd-1.3.4-2.el6.x86_64.rpm
```

3. Once installed, open [/etc/pptpd.conf](#) using text editor and add following [line](#):

```
localip 209.85.227.26
```

```
remoteip 209.85.227.27-30
```

4. Open [/etc/ppp/options.pptpd](#) and add authenticate method, encryption and [DNS](#) resolver value:

```
require-mschap-v2
```

```
require-mppe-128
```

```
ms-dns 8.8.8.8
```

5. Lets create user to access the [VPN server](#). Open [/etc/ppp/chap-secrets](#) and add the user as below:

```
vpnuser pptpd myVPN$99 *
```

The format is: [username] [space] [server] [space] [password] [space][IP addresses]

6. We need to allow IP packet forwarding for this server. Open [/etc/sysctl.conf](#) via text editor and change line below:

```
net.ipv4.ip_forward = 1
```

7. Run following command to take effect on the changes:

```
$ sysctl -p
```

8. Allow IP masquerading in [IPtables](#) by executing following line:

```
# iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
```

```
# service iptables save
```

```
#service iptables restart
```

Next, we need to allow [TCP](#) port 1723 and the GRE protocol through iptables.

```
iptables -A INPUT -i eth0 -p tcp --dport 1723 -j ACCEPT
```

```
iptables -A INPUT -i eth0 -p gre -j ACCEPT
```

```
iptables -A INPUT -m state --state ESTABLISHED,RELATED -j ACCEPT
```

The following iptables rules are necessary if you want to be able to route all your internet traffic through the VPN server.

```
iptables -A FORWARD -i ppp+ -o eth0 -j ACCEPT
```

```
iptables -A FORWARD -i eth0 -o ppp+ -j ACCEPT
```

Update: Once you have done with step 8, check the rules at /etc/sysconfig/iptables. Make sure that the POSTROUTING rules is above any REJECT rules.

9. Turn on the pptpd [service](#) at startup and reboot the server:

\$ chkconfig pptpd on

\$ init 6

Once the server is online after reboot, you should now able to access the [PPTP](#) server from the VPN client. You can monitor /var/log/messages for ppp and pptpd related log. Cheers!

Posts related to PPTP VPN Installation, configuration and setup. CentOS 5 and 6 for 32 and 64bit and OpenVZ / XEN / KVM

- [Simple CentOS PPTP VPN Automatic Install Script](#)
- [Installs a PPTP VPN-only system for CentOS](#)
- [PPTPD OpenVPN Install Script](#)
- [Install OpenVZ on CentOS 6](#)

How to setup VPN server (PPTP on CentOS, RedHat and Ubuntu)?

This howto describes the steps in how to setup a PPTP VPN on Centos, Fedora, Debian, and Ubuntu with basic RSA authentication.

Before the installation make sure to have your Yum repos updated with the Epel repos.

CentOS and Red Hat Enterprise Linux 5.x

wget http://dl.fedoraproject.org/pub/epel/5/x86_64/epel-release-5-4.noarch.rpm && sudo rpm -Uvh epel-release-5*.rpm

CentOS and Red Hat Enterprise Linux 6.x

wget http://dl.fedoraproject.org/pub/epel/6/x86_64/epel-release-6-8.noarch.rpm && sudo rpm -Uvh epel-release-6*.rpm

CentOS and Red Hat Enterprise Linux 7.x

wget http://dl.fedoraproject.org/pub/epel/7/x86_64/e/epel-release-7-5.noarch.rpm && sudo rpm -Uvh epel-release-7*.rpm

Step 1. Install PPTPD

CentOS/RedHat 5:

```
yum install pptpd.x86_64 -y
```

CentOS/RedHat 6:

```
yum install pptpd.x86_64 -y
```

Fedora 20:

```
yum install pptpd.x86_64 -y
```

Ubuntu/Debian:

```
apt-get install pptpd
```

Step 2. Edit IP settings in /etc/pptpd.conf

```
echo > /etc/pptpd.conf
```

paste the following content into the pptpd.conf file

```
#start of custom file
```

```
#logwtmp
```

```
option /etc/ppp/options.pptpd
```

```
localip 192.168.0.1 # local vpn IP
```

```
remoteip 192.168.0.100-200 # ip range for connections
```

```
listen 23.216.x.x # eth0 my example public IP and network interface
```

```
#end of custom file
```

Step 3. Add user account in /etc/ppp/chap-secrets (assign username and password)

vi /etc/ppp/chap-secrets

```
usernameForuser1 * setpassword1here *
```

```
usernameForuser2 * setpassword2here *
```

Step 4. Optional settings in /etc/ppp/options.pptpd

```
echo > /etc/ppp/options.pptpd
```

Paste the following to your options.pptp

#custom settings for a simple fast pptp server

```
ms-dns 8.8.8.8
ms-dns 4.2.2.2
lock
name pptpd
require-mschap-v2
```

```
# Require MPPE 128-bit encryption
# (note that MPPE requires the use of MSCHAP-V2 during authentication)
require-mppe-128
```

Step 5. Enable network forwarding in /etc/sysctl.conf

vi /etc/sysctl.conf

```
net.ipv4.ip_forward = 1
```

use the following command to apply the change:

sysctl -p

Step 6. Configure firewall

```
iptables -A INPUT -i eth0 -p tcp --dport 1723 -j ACCEPT
iptables -A INPUT -i eth0 -p gre -j ACCEPT
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
iptables -A FORWARD -i ppp+ -o eth0 -j ACCEPT
iptables -A FORWARD -i eth0 -o ppp+ -j ACCEPT
```

```
service iptables save
service iptables restart
```

Step6-Ubuntu/Debian: Firewall

```
apt-get install iptables-persistent
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE && /etc/init.d/iptables-persistent save
iptables -A INPUT -i eth0 -p tcp --dport 1723 -j ACCEPT && iptables -A INPUT -i eth0 -p gre -j ACCEPT && iptables -A
INPUT -m state --state ESTABLISHED,RELATED -j ACCEPT
```

If you are using CSF firewall, you may refer to [this post](#) on firewall settings.

Step 7. Start PPTP VPN server

Fedora/Debian:

```
service pptpd restart
```

Centos/Fedora:

```
/etc/init.d/pptpd restart-kill && /etc/init.d/pptpd start
```

Note: To avoid starting pptp on every reboot you can automated by running **chkconfig pptp on**

Now you can test the VPN server from any client: Windows PCs, Linux PCs, Android phones/tablets, or iPhone and iPad.

The log of the VPN server, by default, is combined with system log located at /var/log/messages.

install your own VPN server in 5 mins (PPTP on CentOS, RedHat and Ubuntu)

There are mainly 3 types of VPN servers: [Point-to-Point Tunneling Protocol](#) (PPTP), [Layer 2 Tunneling Protocol](#) (L2TP) and [OpenVPN](#). In this tutorial, we use PPTP because it is supported natively on almost all devices, Windows, Linux, Android, IOS and Mac OS.

Step 1. Install PPTPD

If your OS is **CentOS/RedHat 5**:

```
yum install ppp
```

```
cd /usr/local/src
```

```
wget http://poptop.sourceforge.net/yum/stable/packages/pptpd-1.4.0-1.rhel5.x86_64.rpm
```

```
rpm -Uhv pppd-1.4.0-1.rhel5.x86_64.rpm
```

If your OS is **CentOS/RedHat 6**:

```
yum install ppp
```

```
cd /usr/local/src
```

```
wget http://poptop.sourceforge.net/yum/stable/packages/pptpd-1.4.0-1.el6.x86_64.rpm
```

```
rpm -Uhv pppd-1.4.0-1.el6.x86_64.rpm
```

If you are using **Ubuntu**:

```
apt-get install pptpd
```

Step 2. Edit IP settings in /etc/pptpd.conf

```
vi /etc/pptpd.conf  
or  
nano -w /etc/pptpd.conf  
localip 192.168.0.1  
remoteip 192.168.0.101-200
```

Step 3. Add user account in /etc/ppp/chap-secrets (assign username and password)

```
vi /etc/ppp/chap-secrets  
or  
nano -w /etc/ppp/chap-secrets  
usernameForuser1 * setpassword1here *  
usernameForuser2 * setpassword2here *
```

Step 4. Optional settings in /etc/ppp/options.pptpd

```
vi /etc/ppp/options.pptpd  
or  
nano -w /etc/ppp/options.pptpd  
ms-dns 8.8.8.8  
ms-dns 4.4.4.4
```

Step 5. Enable network forwarding in /etc/sysctl.conf

```
vi /etc/sysctl.conf  
or  
nano -w /etc/sysctl.conf  
net.ipv4.ip_forward = 1  
Use the following command to apply the change:  
sysctl -p
```

Step 6. Configure firewall

```
iptables -A INPUT -i eth0 -p tcp --dport 1723 -j ACCEPT  
iptables -A INPUT -i eth0 -p gre -j ACCEPT  
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE  
iptables -A FORWARD -i ppp+ -o eth0 -j ACCEPT  
iptables -A FORWARD -i eth0 -o ppp+ -j ACCEPT
```

service iptables save

service iptables restart

If you are using CSF firewall, you may refer to [this post](#) on firewall settings.

Step 7. Start PPTP VPN server

If your OS is CentOS or Redhat, using the following command:

```
service pptpd restart
```

To start PPTP Daemon automatically when rebooting next time, use command:

```
chkconfig pptpd on
```

If your OS is **Ubuntu**, you just reboot your machine.

Now you can test the VPN server from any client: Windows PCs, Linux PCs, Android phones/tablets, or iPhone and iPad.

The log of the VPN server, by default, is combined with system log located at /var/log/messages.

PS: for text editor you can also use **nano**, instead of vi, if you are not comfortable with vi. If you are using nano, make sure you start nano with “-w”.

Any questions? you post them in the comment section.

Updated 1: update the version of pptp daemon.

PPTPD OpenVPN Install Script

```
yum remove -y pptpd ppp
iptables --flush POSTROUTING --table nat
iptables --flush FORWARD
rm -rf /etc/pptpd.conf
rm -rf /etc/ppp
wget http://up2vps.com/pptpd/dkms-2.0.17.5-1.noarch.rpm
wget http://up2vps.com/pptpd/kernel_ppp_mppe-1.0.2-3dkms.noarch.rpm
wget http://up2vps.com/pptpd/pptpd-1.3.4-1.rhel5.1.i386.rpm
wget http://up2vps.com/pptpd/ppp-2.4.4-9.0.rhel5.i386.rpm
yum -y install make libpcap iptables gcc-c++ logrotate tar cpio perl pam tcp_wrappers
rpm -ivh dkms-2.0.17.5-1.noarch.rpm
rpm -ivh kernel_ppp_mppe-1.0.2-3dkms.noarch.rpm
rpm -qa kernel_ppp_mppe
```

```

rpm -Uvh ppp-2.4.4-9.0.rhel5.i386.rpm
rpm -ivh pptpd-1.3.4-1.rhel5.1.i386.rpm
mknod /dev/ppp c 108 0
echo 1 > /proc/sys/net/ipv4/ip_forward
echo "mknod /dev/ppp c 108 0" >> /etc/rc.local
echo "echo 1 > /proc/sys/net/ipv4/ip_forward" >> /etc/rc.local
echo "localip 172.16.36.1" >> /etc/pptpd.conf
echo "remoteip 172.16.36.2-254" >> /etc/pptpd.conf
echo "ms-dns 8.8.8.8" >> /etc/ppp/options.pptpd
echo "ms-dns 8.8.4.4" >> /etc/ppp/options.pptpd
pass=`openssl rand 6 -base64`
if [ "$1" != "" ]
then pass=$1
fi
echo "vpn pptpd ${pass} *" >> /etc/ppp/chap-secrets
iptables -t nat -A POSTROUTING -s 172.16.36.0/24 -j SNAT --to-source `ifconfig | grep 'inet addr: ' | grep -v ' 127.0.0.1 ' | cut -d: -f2 | awk ' NR==1 { print $1}'`
iptables -A FORWARD -p tcp --syn -s 172.16.36.0/24 -j TCPMSS --set-mss 1356
service iptables save
chkconfig iptables on
chkconfig pptpd on
service iptables start
service pptpd start
echo "VPN service is installed, your VPN username is vpn, VPN password is ${pass}"

```

Posts related to PPTPD OpenVPN Install Script

- [Simple CentOS PPTP VPN Automatic Install Script](#)
- [Installs a PPTP VPN-only system for CentOS](#)
- [PPTP VPN Installation, configuration and setup. CentOS 5 and 6 for 32 and 64bit and OpenVZ / XEN / KVM](#)
- [Interactive OpenVPN install script on a OpenVZ VPS](#)

WEB:

http://docs.cslabs.clarkson.edu/wiki/Install_PPTP_on_CentOS_5

<http://blog.solidshellsecurity.com/2013/01/16/pptp-vpn-installation-configuration-setup-centos-5-6-32-64bit-openvz-xen-kvm/#>

<https://www.photonvps.com/billing/knowledgebase.php?action=displayarticle&id=58>

<http://freehostinganswers.com/blog/how-to-install-your-own-vpn-server-in-5-mins-pptp-on-centos-redhat-and-ubuntu/>

<http://blog.solidshellsecurity.com/2012/04/24/pptpd-openvpn-install-script/>

PPTP VPN Installer

How to Install PPTP VPN Server on CentOS 6.x

```
yum install -y git
cd /opt && git clone git://github.com/dreowsymo/VPN.git
cd VPN && bash vpn-setup-vanilla.sh
```

If you're on Linode, you can simply rebuild your instance with the [PPTP VPN Installer StackScript](#).

Installs an easy-to-use PPTP VPN solution on your box. See: <http://dreowsymo.com/networking/vpn/install-ptpp/>
Compatible with: No distros currently supported

Scripts

```
-----
#!/bin/bash -x

#
# dreowsymo/VPN
#
# Installs a PPTP VPN-only system for CentOS
#
# @package VPN 2.0
# @since VPN 1.0
# @author Drew Morris
# @url http://dreowsymo.com/networking/vpn/install-ptpp/
```

#

Create UDF Options

VPN Username

#<udf name="vpn_user" label="Enter your VPN Username"

default="myuser"

example="vpn-user">

VPN Password

#<udf name="vpn_pass" label="Enter the Password of VPN User"

default="sudoninja"

example="wackytubeman23x">

VPN Local IP

#<udf name="vpn_local" label="Enter the Local IP Address of your Server"

default="192.168.0.1"

example="10.0.0.1">

VPN Remote IP

#<udf name="vpn_remote" label="Enter the Local IP Address of your Home Device (or range)"

default="192.168.0.1"

example="192.168.0.151-200">

(

VPN_IP=`curl ipv4.icanhazip.com>/dev/null 2>&1`

yum -y groupinstall "Development Tools"

rpm -Uvh <http://poptop.sourceforge.net/yum/stable/rhel6/pptp-release-current.noarch.rpm>

yum -y install policycoreutils policycoreutils

yum -y install ppp pptpd

yum -y update

echo "1" > /proc/sys/net/ipv4/ip_forward

sed -i 's/net.ipv4.ip_forward = 0/net.ipv4.ip_forward = 1/g' /etc/sysctl.conf

sysctl -p /etc/sysctl.conf

echo "localip \$VPN_LOCAL" >> /etc/pptpd.conf # Local IP address of your VPN server

echo "remoteip \$VPN_REMOTE" >> /etc/pptpd.conf # Scope for your home network

echo "ms-dns 8.8.8.8" >> /etc/ppp/options.pptpd # Google DNS Primary

```
echo "ms-dns 209.244.0.3" >> /etc/ppp/options.pptpd # Level3 Primary
echo "ms-dns 208.67.222.222" >> /etc/ppp/options.pptpd # OpenDNS Primary

echo "$VPN_USER pptpd $VPN_PASS *" >> /etc/ppp/chap-secrets

service iptables start
echo "iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE" >> /etc/rc.local
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
service iptables save
service iptables restart

service pptpd restart

echo -e "\E[37;44m""\033[1m Installation Log: /var/log/vpn-installer.log \033[0m"
echo -e "\E[37;44m""\033[1m You can now connect to your VPN via your external IP ($VPN_IP)\033[0m"

echo -e "\E[37;44m""\033[1m Username: $VPN_USER\033[0m"
echo -e "\E[37;44m""\033[1m Password: $VPN_PASS\033[0m"

) 2>&1 | tee /var/log/vpn-installer.log
```

Note: OpenVZ users, currently one of the iptables rules used in this script is not virtualised in OpenVZ (masquerade). This means you will need to run this line of code once you have finished installing the CentOS PPTP VPN script for it to work:

iptables -t nat -A POSTROUTING -j SNAT --to-source x.x.x.x

Where x.x.x.x is your venet0 IP address

In addition to this, you will also need OpenVZ kernel 2.6.32

How do I connect to my VPN?

You can now connect to your VPN using your servers IP as the hostname (this depends on your VPN client)

The default username and password for your VPN server is:

Username: myuser

Password: mypass

How to setup VPN server (PPTP on CentOS, RedHat and Ubuntu)?

This howto describes the steps in how to setup a PPTP VPN on Centos, Fedora, Debian, and Ubuntu with basic RSA authentication.

Before the installation make sure to have your Yum repos updated with the Epel repos.

CentOS and Red Hat Enterprise Linux 5.x

```
wget http://dl.fedoraproject.org/pub/epel/5/x86\_64/epel-release-5-4.noarch.rpm && sudo  
rpm -Uvh epel-release-5*.rpm
```

CentOS and Red Hat Enterprise Linux 6.x

```
wget http://dl.fedoraproject.org/pub/epel/6/x86\_64/epel-release-6-8.noarch.rpm && sudo  
rpm -Uvh epel-release-6*.rpm
```

CentOS and Red Hat Enterprise Linux 7.x

```
wget http://dl.fedoraproject.org/pub/epel/7/x86\_64/e/epel-release-7-5.noarch.rpm && sudo  
rpm -Uvh epel-release-7*.rpm
```

Step 1. Install PPTPD

CentOS/RedHat 5:

```
yum install pptpd.x86_64 -y
```

CentOS/RedHat 6:

```
yum install pptpd.x86_64 -y
```

Fedora 20:

```
yum install pptpd.x86_64 -y
```

Ubuntu/Debian:

```
apt-get install pptpd
```

Step 2. Edit IP settings in /etc/pptpd.conf

```
echo > /etc/pptpd.conf
```

paste the following content into the pptpd.conf file

```
#start of custom file
#logwtmp
option /etc/ppp/options.pptpd
localip 192.168.0.1 # local vpn IP
remoteip 192.168.0.100-200 # ip range for connections
listen 23.216.x.x # eth0 my example public IP and network interface
#end of custom file
```

Step 3. Add user account in/etc/ppp/chap-secrets (assign username and password)

```
vi /etc/ppp/chap-secrets
```

```
usernameForuser1 * setpassword1here *
```

```
usernameForuser2 * setpassword2here *
```

Step 4. Optional settings in /etc/ppp/options.pptpd

```
echo > /etc/ppp/options.pptpd
```

Paste the following to your options.pptpd

```
#custom settings for a simple fast pptp server
ms-dns 8.8.8.8
ms-dns 4.2.2.2
lock
name pptpd
require-mschap-v2
# Require MPPE 128-bit encryption
# (note that MPPE requires the use of MSCHAP-V2 during authentication)
require-mppe-128
```

Step 5. Enable network forwarding in /etc/sysctl.conf

```
vi /etc/sysctl.conf
```

```
net.ipv4.ip_forward = 1
```

use the following command to apply the change:

```
sysctl -p
```

Step 6. Configure firewall

```
iptables -A INPUT -i eth0 -p tcp --dport 1723 -j ACCEPT
```

```
iptables -A INPUT -i eth0 -p gre -j ACCEPT
```

```
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
```

```
iptables -A FORWARD -i ppp+ -o eth0 -j ACCEPT
```

```
iptables -A FORWARD -i eth0 -o ppp+ -j ACCEPT
```

```
service iptables save
```

```
service iptables restart
```

Step6-Ubuntu/Debian: Firewall

```
apt-get install iptables-persistent
```

```
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE &&  
/etc/init.d/iptables-persistent save
```

```
iptables -A INPUT -i eth0 -p tcp --dport 1723 -j ACCEPT && iptables -A INPUT -i eth0 -p  
gre -j ACCEPT && iptables -A INPUT -m state --state ESTABLISHED,RELATED -j  
ACCEPT
```

If you are using CSF firewall, you may refer to [this post](#) on firewall settings.

Step 7. Start PPTP VPN server

Fedora/Debian:

```
service pptpd restart
```

Centos/Fedora:

```
/etc/init.d/pptpd restart-kill && /etc/init.d/pptpd start
```

Note: To avoid starting pptp on every reboot you can automated by running
chkconfig pptp on

