VPN Server

PPTP VPN Server: Built on a Raspberry Pi

Warning, PPTP is considered unsafe. Consider using a alternate VPN solution such as OpenVPN.

Synopsis

A Virtual Private Network (VPN) is a method of adding a layer of security and privacy to both private and public networks. A VPN can allow you to securely access your home or business network even while connected to an untrusted public network like a wifi hotspot. In a VPN you can access all your private network resources as if you were on your home network. There are many options when it comes to VPN's. I am using a Raspberry Pi, so I need a solution that will utilize few resources. In this tutorial I will show you how to setup a Point-to-Point Tunneling Protocol (PPTP) VPN on a Raspberry Pi. PPTP is least secure VPN method but is simple to setup.

As always, update package lists to insure we get the latest packages. Then Upgrade. Check MPPE support. Then install the required vpn package(pptpd).

```
sudo apt-get update
sudo apt-get upgrade
sudo modprobe ppp-compress-18
sudo apt-get install pptpd
```

Now we need to edit a few files.

The first is the pptpd.conf file.

```
sudo nano /etc/pptpd.conf
```

At the end of the file, uncomment the following lines and add your information. localip is your server IP and remoteip is the range for your clients.

```
   localip 192.168.0.1
   remoteip 192.168.1.245-255
```

pptd-options file

```
sudo nano /etc/ppp/pptpd-options
```

Add the follow txt on the bottom:

```
   ms-dns 192.168.1.1
   noipx
   mtu 1490
   mru 1490
```

chap-secrets file

```
sudo nano /etc/ppp/chap-secrets
```

Add your credentials using the following syntax:

```
username[TAB]*[TAB]password[TAB]*
```

Restart the PPTP VPN Server

```
sudo service pptpd restart
```

sysctl.conf file

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

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

```
sudo sysctl -p
```

rc.local file

```
sudo nano /etc/rc.local
```

Add the following right above “exit 0”

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

IMPORTANT!! Make sure to forward port 1723 on your router and you should be good to go!!

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