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slober - October 27, 2013, 4:28 pm

PPTP server

what is a PPTP server?

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PPTP on the rasp.

Enjoy

what is a PPTP server?

PPTP stands for Point to Point Tunneling Protocol it's a method for implementing virtual private networking

]Security on a PPTP server

PPTP has security flaws but it's easier to setup and is generally faster and better supported on mobile devices

the encryption used is 40, 56 or 128 bit MPPE Microsoft Protocol stands for Microsoft Point-to-Point Encryption. It uses the RSA RC4 encryption algorithm

Quote:Wikipedia:

PPTP has been the subject of many security analyses and serious security vulnerabilities have been found in the protocol. The known vulnerabilities relate to the underlying PPP authentication protocols used, the design of the MPPE protocol as well as the integration between MPPE and PPP authentication for session key establishment. PPTP is (as of Oct 2012) considered cryptographically broken and its use is no longer recommended by Microsoft.

so it can be cracked but it's still better than nothing right?

PPTP vs OpenVPN

PPTP

Advantages:

- 1.) Works better on Mobile Devices (PPTP & L2TP)
- 2.) Speed PPTP is usually faster because it has a weaker encryption key

Disadvantages:

- 1.) when a PPTP server can't connect with the client it drops the connection This will expose your computer to the Internet off the VPN. For some people this is unacceptable
- 2.) Stability problems on DD-WRT firmware
- 3.) Fixed Ports

OpenVPN

Advantages:

- 1.) Works good on DD-WRT routers
- 2.) Stronger Encryption
- 3.) more stable
- 5.) Port Modification and Protocol Modification Ability

Disadvantages:

- 1.) Requires Software
- 2.) Some consider it complex
- 3.) slower (i could really tell the difference between PPTP and Open VPN on my pi)

PPTP Usage

it can do the same things as your VPN only a bit less secure so.. don't do stupid things PPTP can be cracked but it's great for accessing your home network, and your basic security needs everything is better then nothing

PPTP on the rasp.

Step 1

make sure you're pi is running and everything is nice and up-to-date
if not use the following commands

Code `sudo raspi-config` for expanding your file system, overclocking,...

Code `sudo apt-get update -y`

`sudo apt-get upgrade -y` for upating everything

Step 2

Code `modprobe ppp-compress-18 && echo success`

`apt-get install pptpd -y` first line will test the MPPE support if it don't say success update your files
second line will install the PPTP server

Step 3

Code `vi /etc/pptpd.conf` Code `nano /etc/pptpd.conf` edit the pptpd.conf file with your fav. texteditor

At the end of the file uncomment the following lines. Replace RPI_IP with the IP of your Raspberry Pi. The remoteip param is for the addresses that will be handed out to VPN clients.

Code `localip RPI_IP`

`remoteip 192.168.2.234-238,192.168.2.245`

Make a backup file before you alter stuff
save your changes!

Step 4

Code `nano /etc/ppp/pptpd-options` Code `vi /etc/ppp/pptpd-options` let's edit the Options

Append the following to the end of the file. The ms-dns param is the IP of the internal DNS server. In most cases this will be the router.

Code `ms-dns 192.168.1.1`

`noipx`

`mtu 1490`

`mru 1490`

Make a backup file before you alter stuff
save your changes!

Step 5

Edit chap-secrets

Code vi /etc/ppp/chap-secrets

nano /etc/ppp/chap-secrets

this will make the login for the PPTP

Code LAYOUT:

username * password *

Step 6

restart the server

Code service pptpd restart

final step

forward the adress 1723 in your router and your done ^^

Code netstat -ntlpCode netstat -lcheck if the pi is running it

Trouble shouting:

if the comands won't work try putting sudo before it

Enjoy

so enjoy it ? you now have you're ow raspberry PPTP server

Sources used:

Spoiler [\(Click to View\)](#)http://nl.wikipedia.org/wiki/Point-to-Point_Tunneling_Protocol

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