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# PPTP でお手軽に VPN (サーバ編)

PPTP でクライアント側は動作しましたので、サーバとしても設定してみます。  
iPhone からも簡単にセキュアな接続ができるようになり、使い道があるかもしれません。

参考:

- [いもす研 - VPN \(PPTP\) サーバの構築 \(Ubuntu 14.04\)](#)
- [Qiita - Ubuntu 14.04でpptpdサーバの構築](#)

こんな情報もありました。

- [OpenVPN使おう!DocomoのSPモードだとPPTPでVPNできないじゃん - You give me all I need.](#)

そんな場合は、OpenVPN を使う必要があります。

## 設定

### pptpd パッケージの導入

ファームウェア v2.1.10β2 から pptpd パッケージを追加しました。  
それ以前のバージョンの場合 apt-get により pptpd パッケージを導入します。

```
user1@plum:~$ sudo apt-get install pptpd
```

### pptpd の設定

設定する項目としては、下記となります。

File	項目名	内容	設定例	備考
/etc/pptpd.conf	localip	ローカル側 IP アドレス	192.168.100.1	eth0 / eth1 とバッティングしないアドレスを指定します
	remoteip	リモート側 IP アドレス	192.168.100.101-199	□

File	項目名	内容	設定例	備考
/etc/ppp/pptpd-options	ms-dns	PPTP client に通知する DNS アドレ ス	192.168.100.1	dnsmasq を 動かしてい るため、自 分自身のア ドレス
	mtu	MTU	1400	切断されて しまう場合、 調整 <sup>1)</sup>
	mru	MRU	1400	□
/etc/ppp/chap-secrets	client/server/secret/address	ユーザ / パ スワード	username pptpd password *	ユーザ数分 設定します

### /etc/pptpd.conf の設定

PPTP のローカル側、リモート側に割り当てる IP アドレスを設定します。

#### pptpd.conf

```
#####
#####
# $Id$
#
# Sample Poptop configuration file /etc/pptpd.conf
#
# Changes are effective when pptpd is restarted.
#####
#####

# TAG: ppp
# Path to the pppd program, default '/usr/sbin/pppd' on Linux
#
#ppp /usr/sbin/pppd

# TAG: option
# Specifies the location of the PPP options file.
# By default PPP looks in '/etc/ppp/options'
#
option /etc/ppp/pptpd-options

# TAG: debug
# Turns on (more) debugging to syslog
#
#debug

# TAG: stimeout
# Specifies timeout (in seconds) on starting ctrl connection
#
```

```
# stimeout 10

# TAG: noipparam
#     Suppress the passing of the client's IP address to PPP, which
#     is
#     done by default otherwise.
#
#noipparam

# TAG: logwtmp
#     Use wtmp(5) to record client connections and disconnections.
#
logwtmp

# TAG: bcrelay <if>
#     Turns on broadcast relay to clients from interface <if>
#
#bcrelay eth1

# TAG: delegate
#     Delegates the allocation of client IP addresses to pppd.
#
#     Without this option, which is the default, pptpd manages the
#     list of
#     IP addresses for clients and passes the next free address to
#     pppd.
#     With this option, pptpd does not pass an address, and so pppd
#     may use
#     radius or chap-secrets to allocate an address.
#
#delegate

# TAG: connections
#     Limits the number of client connections that may be accepted.
#
#     If pptpd is allocating IP addresses (e.g. delegate is not
#     used) then the number of connections is also limited by the
#     remoteip option.  The default is 100.
#connections 100

# TAG: localip
# TAG: remoteip
#     Specifies the local and remote IP address ranges.
#
#     These options are ignored if delegate option is set.
#
#     Any addresses work as long as the local machine takes care of
#     the
#     routing.  But if you want to use MS-Windows networking, you
#     should
#     use IP addresses out of the LAN address space and use the
```

```
proxyarp
#      option in the pppd options file, or run bcrelay.
#
#      You can specify single IP addresses seperated by commas or you can
#      specify ranges, or both. For example:
#
#      192.168.0.234,192.168.0.245-249,192.168.0.254
#
#      IMPORTANT RESTRICTIONS:
#
#      1. No spaces are permitted between commas or within addresses.
#
#      2. If you give more IP addresses than the value of connections,
#      it will start at the beginning of the list and go until it
#      gets connections IPs.  Others will be ignored.
#
#      3. No shortcuts in ranges! ie. 234-8 does not mean 234 to 238,
#      you must type 234-238 if you mean this.
#
#      4. If you give a single localIP, that's ok - all local IPs will
#      be set to the given one. You MUST still give at least one remote
#      IP for each simultaneous client.
#
# (Recommended)
#localip 192.168.0.1
#remoteip 192.168.0.234-238,192.168.0.245
# or
#localip 192.168.0.234-238,192.168.0.245
#remoteip 192.168.1.234-238,192.168.1.245

localip 192.168.100.1
remoteip 192.168.100.101-199
```

## /etc/ppp/pptpd-options の設定

PPTP client に通知する DNS アドレス、MTU/MRU を設定します。

### pptpd-options

```
#####
#####
# $Id$
#
# Sample Poptop PPP options file /etc/ppp/pptpd-options
# Options used by PPP when a connection arrives from a client.
# This file is pointed to by /etc/pptpd.conf option keyword.
```

```
# Changes are effective on the next connection.  See "man pppd".
#
# You are expected to change this file to suit your system.  As
# packaged, it requires PPP 2.4.2 and the kernel MPPE module.
#####
#####

# Authentication

# Name of the local system for authentication purposes
# (must match the second field in /etc/ppp/chap-secrets entries)
name pptpd

# Optional: domain name to use for authentication
# domain mydomain.net

# Strip the domain prefix from the username before authentication.
# (applies if you use pppd with chapms-strip-domain patch)
#chapms-strip-domain

# Encryption
# (There have been multiple versions of PPP with encryption support,
# choose with of the following sections you will use.)

# BSD licensed ppp-2.4.2 upstream with MPPE only, kernel module
ppp_mppe.o
# {{{
refuse-pap
refuse-chap
refuse-mschap
# Require the peer to authenticate itself using MS-CHAPv2 [Microsoft
# Challenge Handshake Authentication Protocol, Version 2]
authentication.
require-mschap-v2
# Require MPPE 128-bit encryption
# (note that MPPE requires the use of MSCHAP-V2 during authentication)
require-mppe-128
# }}}

# Network and Routing

# If pppd is acting as a server for Microsoft Windows clients, this
# option allows pppd to supply one or two DNS (Domain Name Server)
# addresses to the clients.  The first instance of this option
# specifies the primary DNS address; the second instance (if given)
# specifies the secondary DNS address.
# Attention! This information may not be taken into account by a
Windows
```

```
# client. See KB311218 in Microsoft's knowledge base for more
information.
#ms-dns 10.0.0.1
#ms-dns 10.0.0.2
ms-dns 192.168.100.1

# If pppd is acting as a server for Microsoft Windows or "Samba"
# clients, this option allows pppd to supply one or two WINS (Windows
# Internet Name Services) server addresses to the clients. The first
# instance of this option specifies the primary WINS address; the
# second instance (if given) specifies the secondary WINS address.
#ms-wins 10.0.0.3
#ms-wins 10.0.0.4

# Add an entry to this system's ARP [Address Resolution Protocol]
# table with the IP address of the peer and the Ethernet address of
this
# system. This will have the effect of making the peer appear to other
# systems to be on the local ethernet.
# (you do not need this if your PPTP server is responsible for routing
# packets to the clients -- James Cameron)
proxyarp

# Normally pptpd passes the IP address to pppd, but if pptpd has been
# given the delegate option in pptpd.conf or the --delegate command
line
# option, then pppd will use chap-secrets or radius to allocate the
# client IP address. The default local IP address used at the server
# end is often the same as the address of the server. To override
this,
# specify the local IP address here.
# (you must not use this unless you have used the delegate option)
#10.8.0.100

# Debian: do not replace the default route
nodefaultroute

# Logging

# Enable connection debugging facilities.
# (see your syslog configuration for where pppd sends to)
#debug

# Print out all the option values which have been set.
# (often requested by mailing list to verify options)
#dump

# Miscellaneous
```



```
# Create a UUCP-style lock file for the pseudo-tty to ensure exclusive
# access.
lock

# Disable BSD-Compress compression
nobsdcomp

# Disable Van Jacobson compression
# (needed on some networks with Windows 9x/ME/XP clients, see posting
# to
# poptop-server on 14th April 2005 by Paweł Pokrywka and followups,
# http://marc.theaimsgroup.com/?t=111343175400006&r=1&w=2 )
novj
novjccomp

# turn off logging to stderr, since this may be redirected to pptpd,
# which may trigger a loopback
nologfd

# put plugins here
# (putting them higher up may cause them to sent messages to the pty)

mtu 1400
mru 1400
```

## **/etc/ppp/chap-secrets の設定**

Client 用のアカウント・パスワードを設定します。

### [chap-secrets](#)

```
# Secrets for authentication using CHAP
# client      server      secret          IP addresses
"mopera" *    "mopera"
username pptpd password *
```

## **Firewall の設定**

## pptpd の起動

### 接続確認

1)

[モバイルWiMAX接続経由でPPTP接続をする際の注意点 - 気まぐれメモランダム](#) でたらめフィードバック

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