

# RaspberryPi VPN Client

sudo apt-get install pptp-linux -y

```
hyunsu@zero2:~ $ sudo apt-get install pptp-linux -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libfuse2
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
  pptp-linux
0 upgraded, 1 newly installed, 0 to remove and 3 not upgraded.
Need to get 51.2 kB of archives.
After this operation, 108 kB of additional disk space will be used.
Get:1 http://ftp.kaist.ac.kr/raspbian/raspbian bullseye/main armhf pptp-linux armhf
1.10.0-1 [51.2 kB]
Fetched 51.2 kB in 5s (9,683 B/s)
Selecting previously unselected package pptp-linux.
(Reading database ... 108666 files and directories currently installed.)
Preparing to unpack .../pptp-linux_1.10.0-1_armhf.deb ...
Unpacking pptp-linux (1.10.0-1) ...
Setting up pptp-linux (1.10.0-1) ...
Processing triggers for man-db (2.9.4-2) ...
hyunsu@zero2:~ $
hyunsu@zero2:~ $
```

iptime vpn 설정

lte 계정을 만들고 연결한다.

**VPN 서버설정**

PPTP 서버  실행  중단  암호화(MPPE) 사용

L2TP 서버  실행  중단 비밀번호   보기  비밀번호 없이 접속 허용

**VPN 접속 계정 관리**

VPN 접속 계정	IP 주소	연결 상태	<input type="checkbox"/> 연결끊기	<input type="checkbox"/> 삭제
hyunsu	192.168.0.███	접속됨(PPTP)	<input type="checkbox"/>	<input type="checkbox"/>
lte	192.168.0.███	접속됨(PPTP)	<input type="checkbox"/>	<input type="checkbox"/>

**VPN 접속 계정 추가**

VPN 접속 계정

VPN 접속 암호   보기

IP 주소  .  .  .   자동

```
hyunsu@zero2:~ $ sudo pptpsetup --create joang --server web.joang.com --username lte
--password 비밀번호 --encrypt --start
Using interface ppp0
Connect: ppp0 <--> /dev/pts/2
CHAP authentication succeeded
MPPE 128-bit stateless compression enabled
```

## 결과

```
hyunsu@zero2:~ $ ifconfig
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 50120 bytes 1032645911 (984.8 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 50120 bytes 1032645911 (984.8 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

ppp0: flags=4305<UP,POINTOPOINT,RUNNING,NOARP,MULTICAST> mtu 1496
    inet 192.168.0.254 netmask 255.255.255.255 destination 192.168.0.1
    ppp txqueuelen 3 (Point-to-Point Protocol)
    RX packets 17 bytes 989 (989.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 17 bytes 450 (450.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
```

```
inet 192.168.0.23 netmask 255.255.255.0 broadcast 192.168.0.255
inet6 fe80::bec4:4f25:e298:a23d prefixlen 64 scopeid 0x20<link>
ether d8:3a:dd:89:90:4e txqueuelen 1000 (Ethernet)
RX packets 6451585 bytes 372770121 (355.5 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 34853176 bytes 529084637 (504.5 MiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
hyunsu@zero2:~ $
```

**연결 : sudo pon joang**

**끊기 : sudo poff joang**

**접속로그 확인**

**sudo pon joang debug dump logfd 2 nodetach**

**VPN 바꾸기**

sudo route add default dev ppp1 ppp1을 우선 라우트 한다.

마지막으로 지속적으로 VPN접속을 확인하고 , 재부팅 시에도 일정 시간 후 실행하게 만든다.

**\* /30 \* \* \* \* /root/startVPN.sh > /home/hyunsu/vpn.log**

```
#!/bin/bash

export _SDATE=$(date +"%Y%m%d%H")

echo
echo '##### START VPN #####'
echo

PSID=`ps -ef | grep 'pptp web.joang.com' | grep -v grep | awk '{print($2)}'`
PSIDLENG=${#PSID}

if [[ $PSIDLENG -gt 0 ]]
then
    echo "[$_SDATE] $PSIDLENG process starting !"
else
    echo "[$_SDATE] Need Start VPN"
```

```
sudo pptpsetup --create joang --server web.joang.com --username lte --password 비  
밀번호 --encrypt --start  
sleep 10  
PSID=`ps -ef | grep 'pptp web.joang.com' | grep -v grep | awk '{print($2)}'`  
echo "[$_SDATE] Processes = $PSID"  
sudo route add default dev ppp1  
echo "[$_SDATE] Defalut route is ppp1"  
fi  
  
echo  
echo '##### STOP VPN #####'  
echo
```

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