Linux OpenVPN Server ??

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```
wget https://git.io/vpn -O openvpn-install.sh
```

openvpn-install.sh

```
bash ./openvpn-install.sh
```

依照選項建立 **vpn server**

建立好後 **client**端檔案的位置 **(/root/pve.ovpn)**

```
Finished!

The client configuration is available in: /root/pve.ovpn
New clients can be added by running this script again.
```

Tap??????

```
apt-get install -y bridge-utils
```

將本身網卡註解, 並加入 **bridge(br0)**, 編輯 `/etc/network/interfaces`

```
auto lo
iface lo inet loopback
#auto eth0
#iface eth0 inet dhcp
auto br0
iface br0 inet static
address 192.168.x.x
netmask 255.255.255.0
gateway 192.168.x.x
network 192.168.x.0
broadcast 192.168.x.255
bridge_ports eth0
#auto eth0
```

```
#iface eth0 inet static
#        address 192.168.x.x/24
#        gateway 192.168.x.x
```

```
service networking restart
```

????????

編輯 `/etc/openvpn/server/server.conf`

```
local 192.168.x.x
port 1195
proto tcp
dev tap0
ca ca.crt
cert server.crt
key server.key
dh dh.pem
auth SHA512
tls-crypt tc.key
server-bridge
push "route 192.168.x.0 255.255.255.0"
route-gateway 192.168.x.x
keepalive 10 120
user nobody
group nogroup
cipher AES-256-CBC
persist-key
persist-tun
verb 3
explicit-exit-notify 1
script-security 2
up "openvpn_up br0"
down "openvpn_down br0"
cipher AES-256-CBC
comp-lzo
status /var/log/openvpn/status.log
duplicate-cn  <<<允許多個連線，共享證書和金鑰
```

```
service openvpn-server@server restart
```

編輯 `/etc/openvpn/server/openvpn_up`

```
#!/bin/sh
BR=$1
DEV=$2
MTU=$3
/sbin/ifconfig $DEV mtu $MTU promisc up
/sbin/brctl addif $BR $DEV
/sbin/ifconfig tap0 up
```

編輯 `/etc/openvpn/server/openvpn_down`

```
#!/bin/sh
BR=$1
DEV=$2
/sbin/brctl delif $BR $DEV
/sbin/ifconfig $DEV down
```

????????

```
加入comp-lzo壓縮參數
```

Tun??????

```
local 10.0.0.5
push "route 10.0.0.0 255.255.255.0" (推送路由)
push "route 10.8.0.0 255.255.255.0" (推送路由)
port 1194
proto udp
dev tun
ca ca.crt
cert server.crt
key server.key
dh dh.pem
auth SHA512
tls-crypt tc.key
```

```
server 10.8.0.0 255.255.255.0 (配發網段)
keepalive 10 120
user nobody
group nogroup
persist-key
persist-tun
verb 3
crl-verify crl.pem
explicit-exit-notify
comp-lzo (壓縮參數)
log-append /var/log/openvpn/op_server.log (寫入log)
status /var/log/openvpn/status.log (寫入狀態)
duplicate-cn  <<<允許多個連線，共享證書和金鑰
```

```
service openvpn-server@server restart
```

> 告警訊息修正參數

```
DEPRECATED OPTION: --cipher set to 'AES-256-CBC' but missing in --data-ciphers (AES-256-GCM:AES-128-GCM). Future OpenVPN version will ignore --cipher for cipher negotiations. Add 'AES-256-CBC' to --data-ciphers or change --cipher 'AES-256-CBC' to --data-ciphers-fallback 'AES-256-CBC' to silence this warning.
WARNING: 'link-mtu' is used inconsistently, local='link-mtu 1602', remote='link-mtu 1586'
WARNING: 'keysize' is used inconsistently, local='keysize 256', remote='keysize 128'
WARNING: this configuration may cache passwords in memory -- use the auth-nocache option to prevent this
```

Server設定檔新增

```
cipher AES-256-CBC
```

Client設定檔修改

```
cipher AES-256-CBC
修改
data-ciphers-fallback AES-256-CBC

auth-nocache
```

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