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HGH @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
1081LocalSocks      socks5 proxy @1081
Privoxy 1082        http proxy   @1082
HGH @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
microsocks -p 1080   dedicated socks5 proxy
Reverse-SSH-Tunnel 1080
      @@@@@@ Client : ssh -L
SYD @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
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++++++Linux Client as Gateway
1. Insstall a proxy server
2. Create a SSH Reverse Tunnel:
    ssh -v -N -R 12345:localhost:1080 user@sshserver
+++++
Install a dedicated Proxy Server on Linux Client
sudo apt update && sudo apt install -y microsocks
microsocks -p 1080          # make it running,listening on port 1080
+++
Test Socks5: curl --proxy socks5h://localhost:1080 -I https://www.example.com
+++++
Run at boot
sudo systemctl daemon-reload
sudo systemctl enable microsocks
sudo systemctl start microsocks
```

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#####
/etc/systemd/system/microsocks.service
[Unit]
Description=Lightweight SOCKS5 Proxy
After=network.target
[Service]
ExecStart=/usr/bin/microsocks -p 1080
Restart=always
User=nobody
Group=nogroup
[Install]
WantedBy=multi-user.target
#####
Reverse-SSH-Tunnel.service
常驻自启动,Reverse to Port 1080, remote listen 12345,
[Unit]
Description=Reverse SSH Tunnel to SSH Server
After=network-online.target
Wants=network-online.target
[Service]
ExecStart=/usr/bin/ssh -o "ServerAliveInterval=60" -o "ServerAliveCountMax=3" -N
-R 12345:localhost:1080 user@server
Restart=always
RestartSec=10
User=jiang
[Install]
WantedBy=multi-user.target
#####
1081LocalSocks5.service
常驻自启动,本机上添加端口 1081 用于本地 socks5 共享
Port 1081 Firewall enable
[Unit]
Description=Port 1081 Socks5 for locals
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After=network-online.target
Wants=network-online.target
[Service]
ExecStart=/usr/bin/ssh -o "ServerAliveInterval=60" -o "ServerAliveCountMax=3" -N
-D 0.0.0.0:1081 user@server
Restart=always
RestartSec=10
User=jiang
[Install]
WantedBy=multi-user.target

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systemctl daemon-reload, enable, start 1081LocalSocks5.service
#####
Local iphone share the socks5

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[Windows Client] --> HTTP Proxy --> [Linux Local: 192.168.2.102]
      |
      | Privoxy on port 1082
      |
      | forwards to SOCKS5 localhost:1080
      |
      | SSH tunnel to Remote SSH Server

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1 install privoxy, set a port 1082 to listen and forward socks5 to 1081 which
is tunneled to remote ssh server
2 set proxy to privoxy server IP with port 1082

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Install privoxy and modify /etc/privoxy/config
listen-address 0.0.0.0:1082
forward-socks5t / localhost:1081 .
for debug add some lines more:
    logfile /var/log/privoxy.log
    debug 1
    debug 4096

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forward-socks5t => use SOCKS5 with Tor extensions
/ => match all URLs
localhost:1081 => your local SOCKS5 proxy
. => do not chain to any HTTP proxy afterward (direct via SOCKS)

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Update: ufw, daemon-reload, enable, restart privoxy
Test:

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socks5 proxy is working: curl --socks5 localhost:1080 ifconfig.me
privoxy is running: ps aux | grep privoxy
Listening to port: sudo lsof -i :1080
http proxy is working: curl --proxy localhost:1080 ifconfig.me

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On mobile:
Set http proxy to 192.168.2.102:1082
Test http proxy is working: curl --proxy 192.168.2.102:1080 ifconfig.me

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If necessary check tail -f ...../privoxy/logfile

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#####
++++++Offshore ssh server Linux
/etc/ssh/sshd_config:
AllowTcpForwarding yes
GatewayPorts yes
PermitOpen any

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```
systemctl restart sshd
+++++
ssh-copy-id -p 56789 -i id_ed25519.pub user@sshserver
to avoid password prompt
SSH keybase login
#####
++++ Windows Client, Use Reverse Tunnel
ssh -L 1080:localhost:12345 user@sshserver
firefox proxy to localhost:1080
use socks5
Test curl --socks5 localhost:1080 ifconfig.me
use proxy
Test curl --proxy localhost:1082 ifconfig.me
Both should show HGH IP
#####
SYD site
curl --socks5 localhost:12345 ifconfig.me -->HGH IP
Add a privoxy service forward to 1082
    daemon-reload, enable, start
curl --proxy localhost:1082 ifconfig.me -->HGH IP

#####
To ssh via socks5
sudo apt install connect-proxy
modify ~/.ssh/config
Host myserver
    HostName remote-server.com
    User your_username
    ProxyCommand connect -S 127.0.0.1:1080 %h %p
```