Documentation

Follow the next steps to create your own Headscale VPN:

- Create an Ubuntu instance where you can deploy your server.
- Generate the private key and connect to your server using Putty.
- Run the following commands:
 - wget --output-document=headscale.deb \

https://github.com/juanfont/headscale/releases/download/v<HEADSCALE VERSION>/headscale_<HEADSCALE VERSION>_linux_<ARCH>.deb

Where you should use the latest version available of headscale. The information is available in the Headscale GitHub repository.

- 2. sudo dpkg --install headscale.deb
- 3. sudo systemctl enable headscale
- 4. nano /etc/headscale/config.yaml

Here you should make sure that nano is installed on your server. You should change the server_url variable to take the value of your server IP address. You should also select the listen_addr 0.0.0.0:8080.

- 5. sudo systemctl start headscale
- 6. systemctl status headscale
- Create a network security group which allows connections on port 8080 and make sure you select it on your ubuntu instance.
- Run: sudo nano /etc/iptables/rules.v4.

You should create a new rule which allows port 8080.

A INPUT -p tcp -m state -state NEW -m tcp -dport 8080 -j ACCEPT

- Run: sudo iptables-restore < /etc/iptables/rules.v4
- Now the setup is ready to connect devices to your VPN.
- Go to the site: <YOUR IP>:8080/windows
- Run cmd on your windows in administrator mode

- tailscale login --login-server http://130.61.190.253:8080

This command will appear on your screen. You should run it in cmd. As a result you will get a connection key.

- Run on ubuntu server the following commands:
 - 1. sudo headscale create user desktop to create a new user with the name user
 - 2. sudo headscale nodes register --user desktop -key <DESKTOP KEY>
 - 3. curl -fsSL https://tailscale.com/install.sh | sh
 - 4. sudo headscale users create linux
 - 5. sudo headscale --user linux preauthkeys create --expiration 60m
 - 6. tailscale up --login-server <YOUR URL>:8080 --authkey (result of the above key)
 - 7. sudo headscale nodes list (to see the nodes list, you should see linux and desktop nodes)
 - 8. sudo headscale routes list(to see the routes list)
 - 9. sudo tailscale set --advertise-exit-node(to run linux server as exit node)
 - 10. Run desktop as exit node from tailscale app
 - **11.** sudo headscale routes enable -r 1(id of the route when you run sudo headscale routes list. Where you have 0.0.0.0/0)
 - 12. echo 'net.ipv4.ip forward = 1' | sudo tee -a /etc/sysctl.d/99-tailscale.conf
 - 13. echo 'net.ipv6.conf.all.forwarding = 1' | sudo tee -a /etc/sysctl.d/99-tailscale.conf
 - 14. sudo sysctl -p /etc/sysctl.d/99-tailscale.conf(the last 3 commands were used to allow port forwarding on the linux server)
- There are no more steps. Now you can change your IP through your exit nodes.
 Enjoy!