OpenWRT Netbird

version 1

This is a WIP and just some poorly redacted personal notes, I am working to make a real install guide

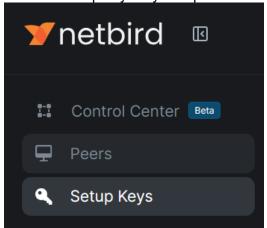
https://docs.netbird.io/

https://docs.netbird.io/how-to/getting-started

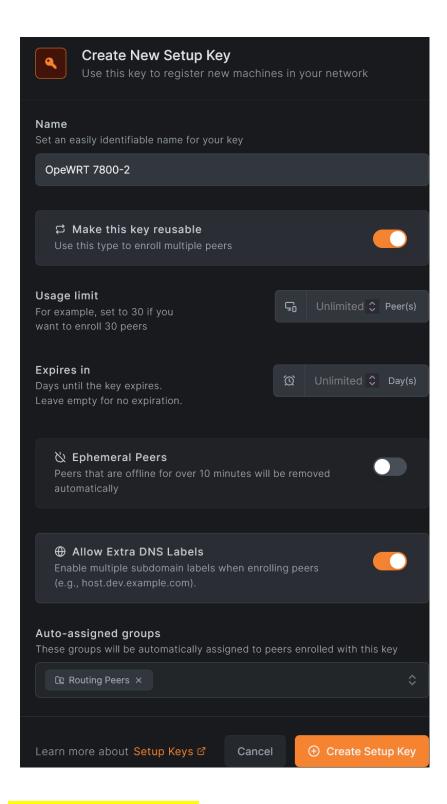
Make a free account on Netbird

Login to your dashboard:

Create a setup key for your openwrt router:



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Copy and store the setup key

On the OpenWRT router install netbird

opkg update opkg install netbird

or for apk: apk update apk add netbird

Netbird is a rather large package around 21 MB written in Go so make sure your storage is sufficient

The netbird executable is stored in /usr/share/netbird.

The service is called from /etc/init.d/netbird

When installed you can setup with:

netbird up -setup-key <key from previous step>

After some time you will see:

root@R7800-2:~# netbird up --setup-key E20033F4-0C99-470E-A27A-5F066D8590EA

Connected

root@R7800-2:~#

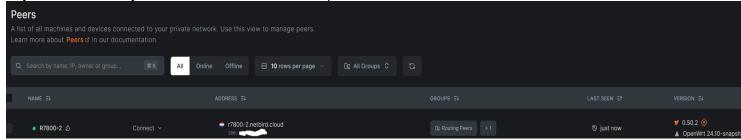
You can use netbird help to see the available commands e,g,:

netbird up/down/status etc

but using e.g.:

service netbird status/stop/start etc. will also work (for complete list: service netbird)

In your Dashboard you can now see the installed peer



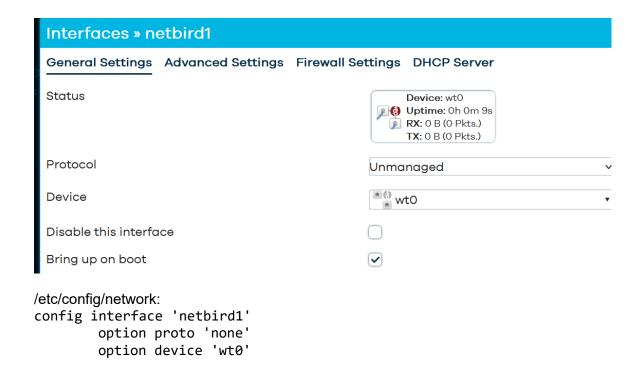
with ifconfig or ip address show you should see the new interface (device) wt0

Next Firewall setup:

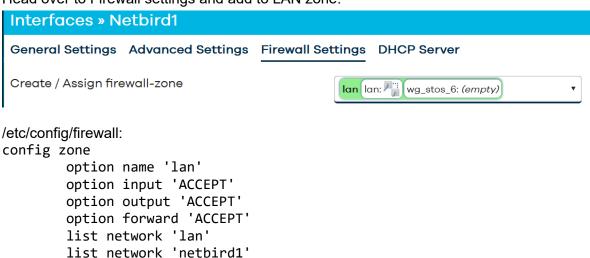
Luci > Network > scroll down and Add new interface:

Name e.g.: netbird1 Protocol: Unmanaged

Device: scroll down and choose wt0



Head over to Firewall settings and add to LAN zone:



In the end reboot the router or do service network restart, service firewall restart and service netbird restart.

Check with ifconfig (ip a) and ip route that the interface (wt0) and route ar present:

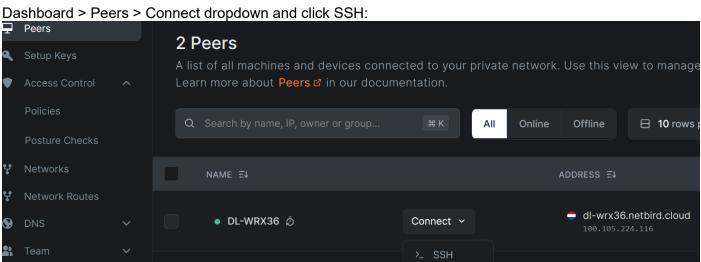
```
root@DL-WRX36:~# ip address show wt0
31: wt0: <POINTOPOINT,NOARP,UP,LOWER_UP> mtu 1280 qdisc noqueue state UNKNOWN group default qlen 1000
    link/none
    inet 100.105.224.116/16 brd 100.105.255.255 scope global wt0
    valid_lft forever preferred_lft forever

root@DL-WRX36:~# ip route
default via 192.168.0.1 dev wan proto static src 192.168.0.9
100.105.0.0/16 dev wt0 proto kernel scope link src 100.105.224.116
```

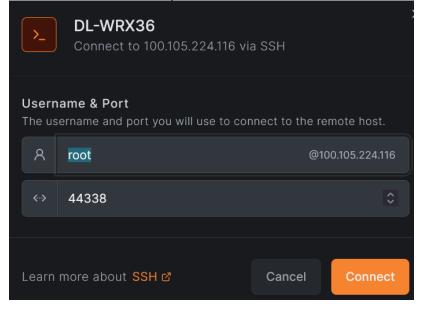
Showing netbird log: cat /tmp/log/netbird/client.log

Allow SSH access from Dashboard:

Make sure SSH is allowed on the peer (https://github.com/netbirdio/netbird/issues/2632): netbird down netbird up --allow-server-ssh



Connect with the default port 44338 to the in netbird included SSH server:



netbird up will register the openwrt router as peer on the netbird dashboard bas the router is using the same IP address as you it can reigster in your own dashboard