

# Deploy and Manage a VPN for your Docker Containers via CasaOS!

- [VPN Setup for CasaOS](#)

# VPN Setup for CasaOS

In this video we're going to take a look at how to run the traffic of Docker containers through a VPN container for better online security and anonymity.

I've made a video like this in the past, but it was done in Portainer and Dockge, but the process of doing it in CasaOS is a bit different.

If you want more details on how to use CasaOS for your homelab, you can check out my other video on the topic or do a search for CasaOS on YouTube.

Here are the docker-compose setups I used in the video:

## **Gluetun VPN Container:**

```
version: "3"
services:
  gluetun:
    image: qmcgaw/gluetun
    container_name: gluetun
    restart: unless-stopped
    cap_add:
      - NET_ADMIN
    devices:
      - /dev/net/tun: /dev/net/tun
    ports:
      - 8888: 8888/tcp # HTTP proxy
      - 8388: 8388/tcp # Shadowsocks
      - 8388: 8388/udp # Shadowsocks
      - 8080: 8080 # qbt
      - 8999: 8999 # qbt
      - 5000: 5000 # whoogle
    volumes:
      - /DATA/AppData/Gluetun: /gluetun
    environment:
      # See https://github.com/qdm12/gluetun-wiki/tree/main/setup#setup
      - VPN_SERVICE_PROVIDER=private internet access
      - VPN_TYPE=openvpn
      # OpenVPN:
```

```
- OPENVPN_USER=username
- OPENVPN_PASSWORD=password
# Timezone for accurate log times
- TZ=America/Denver
# Server list updater
# See https://github.com/qdm12/gluetun/wiki/blob/main/setup/servers.md#update-the-vpn-servers-list
- UPDATER_PERIOD=24h
```

## Whoogle Container:

```
services:
  whoogle:
    image: benbusby/whoogle-search:latest
    #container_name: whoogle # can't use container name with network_mode on CasaOS
    restart: unless-stopped
    network_mode: container:gluetun
```

## QBT Container:

```
services:
  qbittorrentvpn:
    privileged: true
    volumes:
      - /DATA/AppData/qbittorrent/config: /config
      - /DATA/AppData/qbittorrent/downloads: /downloads
    environment:
      - VPN_ENABLED=no
    image: markusmcnugen/qbittorrentvpn
    network_mode: container:gluetun
```

## Resource Links

Gluetun: <https://github.com/qdm12/gluetun>

Gluetun Wiki: <https://github.com/qdm12/gluetun/wiki>

Gluetun Docker: <https://hub.docker.com/r/qmcgaw/gluetun>

Gluetun Proxmox: <https://github.com/qdm12/gluetun/wiki/blob/main/errors/tun.md>

Whoogle Resource: <https://hub.docker.com/r/benbusby/whoogle-search>

QBT Resource (I wouldn't use this for anything other than testing):

<https://hub.docker.com/r/markusmcnugen/qbittorrentvpn>

Private Internet Access (PIA) VPN: <https://dbte.ch/piavpn> (Affiliate Link)