

Setup of an OpenVPN Server using Docker

- Create the /docker directory and create a docker-compose file.

```
$ sudo su root
$ mkdir /docker && cd /docker
$ touch docker-compose.yml
$ nano docker-compose.yml
```

- Fill the docker-compose file:

```
version: "3"
services:
  openvpn-solar:
    cap_add:
      - NET_ADMIN
    image: kylemanna/openvpn:latest
    ports:
      - "1200:1194/udp"
    restart: unless-stopped
    volumes:
      - /docker/openvpn-solar:/etc/openvpn
```

- Generate the configuration for OpenVPN:

```
$ docker run -v /docker/openvpn-solar:/etc/openvpn --log-driver=none --rm kylemann
a/openvpn ovpn_genconfig -u udp://[Your Server IP]:1200 -b -c -D -d
```

- Generate a private key:

```
$ docker run -v /docker/openvpn-solar:/etc/openvpn --log-driver=none --rm -it kyle
manna/openvpn ovpn_initpki
```

- Generate a client configuration (without a passphrase):

```
$ docker run -v /docker/openvpn-solar:/etc/openvpn --log-driver=none --rm -it kyle
manna/openvpn easyrsa build-client-full CLIENTNAME nopass
```

- Retrieve the client configuration with embedded certificates:

```
$ docker run -v /docker/openvpn-solar:/etc/openvpn --log-driver=none --rm kylemann
a/openvpn ovpn_getclient CLIENTNAME > CLIENTNAME.ovpn
```

- Generate a client configuration for every VPN client and export them to the client

- When you are done generating clients, start the server with docker-compose

```
$ docker-compose up -d
```

Information on Flags Used

- u SERVER_PUBLIC_URL
- n DNS_SERVER ...
- p PUSH ...
- r ROUTE ...
- s SERVER_SUBNET (192.168.255.0/24)
- b Disable 'push block-outside-dns'
- c Enable client-to-client option
- d Disable default route
- D Do not push dns servers
- N Configure NAT to access external server network