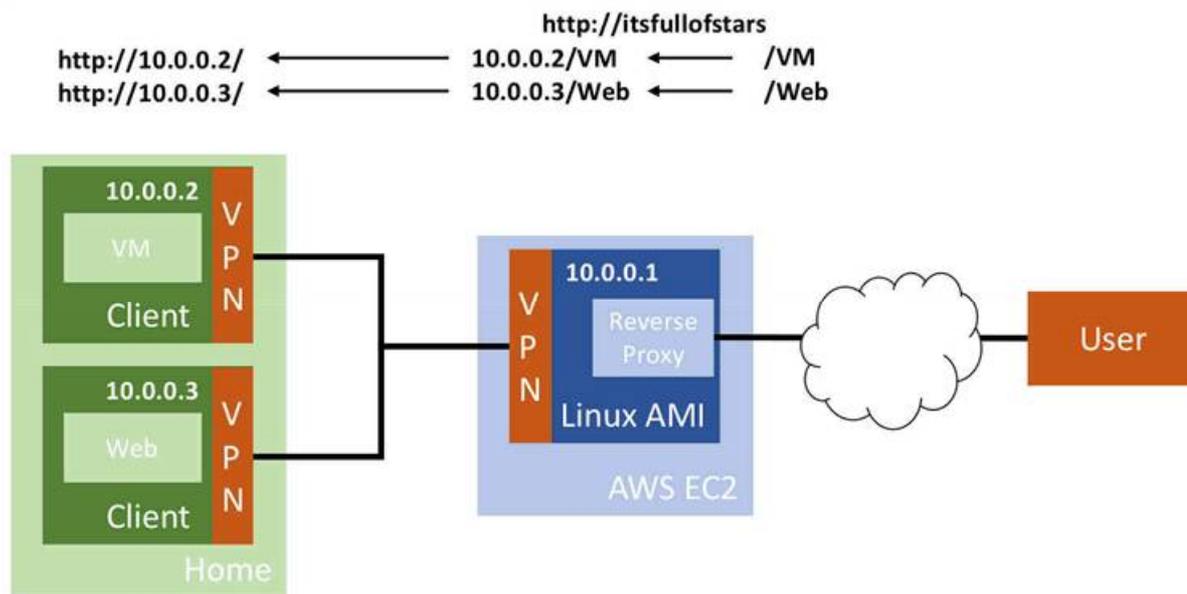


# OpenVPN Assign static IP to client

<https://www.itsfullofstars.de/2018/09/openvpn-assign-static-ip-to-client/>

After configuring the overall OpenVPN client and server infrastructure, my clients can connect to a VPN. The client can access server resources and vice versa. While the server gets normally always the same IP assigned, the client IP address is assigned dynamically from a pool of IP addresses. Meaning: there is no guarantee that the client always gets the same IP address. Normally, this is not a problem, as the client connects to consume server resources. Such like a web site, or git repository. In my case, the architecture is that the OpenVPN server acts as a proxy to internal services. The web site, git repository, etc are running on the client. Therefore, the server must be able to connect to the client using a fix address.



To make this work, each time a client connects, the same IP must be assigned to. OpenVPN allows to assign a static IP to a client.

## Configuration

1. In `/etc/openvpn` create folder `ccd`. Ccd stands for client config directory, meaning: it contains the configuration for a client.
2. Edit file `server.conf` and add line `"client-config-dir ccd"`

```
# EXAMPLE: Suppose the client
# having the certificate common name "Thelonious"
# also has a small subnet behind his connecting
# machine, such as 192.168.40.128/255.255.255.248.
# First, uncomment out these lines:
client-config-dir ccd
```

3. Create a configuration file for each client and put into directory `ccd`. As file name, use the same name for the client as used in the CN field of the client certificate.

```
ifconfig-push IP MASK
```

Example:

```
ifconfig-push 10.8.0.2 255.255.255.255
```

## CLI steps

```
sudo mkdir /etc/openvpn/ccd
```

