WireGuard Keys - Complete Information

Server Keys (Pi - MoodePi5)

Private Key (KEEP SECRET!)

```
SL0CtH2yKjsmS63SNRJXZvTsQyOnNbp6UcFycVmm4n8=
```

Public Key (Share with clients)

```
MzNJlu8jKJefsADZhgr3wzEHcilx6iHE6nbjucE2VXQ=
```

Server Configuration

Server VPN IP: 10.8.0.1/24
WireGuard Port: 51820/UDP
Status: ■ Active and running

Complete Server Config

```
[Interface]
# Pi's private key
PrivateKey = SL0CtH2yKjsmS63SNRJXZvTsQyOnNbp6UcFycVmm4n8=

# Pi's IP in VPN network
Address = 10.8.0.1/24

# Listen on port 51820 (standard WireGuard port)
ListenPort = 51820

# Forward traffic
PostUp = iptables -A FORWARD -i wg0 -j ACCEPT; iptables -A FORWARD -o wg0 -j ACCEPT; iptables -t nat
PostDown = iptables -D FORWARD -i wg0 -j ACCEPT; iptables -D FORWARD -o wg0 -j ACCEPT; iptables -t na

# Peers will be added here
# [Peer]
# PublicKey = CLIENT_PUBLIC_KEY_HERE
# AllowedIPs = 10.8.0.2/32
```

Client Configuration Template

When adding a client, they need to provide their public key, then use this template:

```
[Interface]
PrivateKey = CLIENT_PRIVATE_KEY_HERE
Address = 10.8.0.2/24

[Peer]
PublicKey = MzNJlu8jKJefsADZhgr3wzEHcilx6iHE6nbjucE2VXQ=
Endpoint = YOUR_SERVER_PUBLIC_IP:51820
AllowedIPs = 10.8.0.1/32
```

```
        PersistentKeepalive = 25
```

Replace:
• `CLIENT_PRIVATE_KEY_HERE` - Client's private key (they generate this)
• `YOUR_SERVER_PUBLIC_IP` - Your server's public IP address or domain name
• `10.8.0.2` - Client's VPN IP (can be changed if needed)

Current Status

• ■ WireGuard service: Active
• ■ Interface: wg0
• ■ Listening port: 51820
• ■■ No peers configured yet

Adding a Client

1. Client generates keys:
```
        wg genkey | tee private.key | wg pubkey > public.key
        cat public.key
```

2. Client sends you their **public key**

3. Add to server config:
```
        cd ~/moodeaudio-cursor
        ./tools/add-wireguard-peer.sh CLIENT_PUBLIC_KEY
```

4. Share client config template with them (they add their private key)

Security Notes

■■ **IMPORTANT:**
• **NEVER share the server private key**
• Only share the server **public key**
• Keep private keys secure
• Server private key is stored at: `/etc/wireguard/private.key` (root only)

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