

# WireGuard

## Voraussetzungen

- IONOS VPS Server mit externe IPv4
- NAS im Heimnetz

## Installation WG

- Auf der NAS und dem VPS Wireguard installieren  
`apt update -y && apt install wireguard -y`
- Auf dem Handy WG Tunnel

Recher	IP	Tunnel IP	User	Passwort	Notes
IONOS VPS	217.160.11.95	10.30.250.1	root	xJ#p9\$*DfT	
NAS		10.30.250.2	root	romdz6!	
Handy		10.30.250.3			
X250 Laptop		10.30.250.4			
Firma Linux		10.30.250.5			
Doro		10.30.250.6			

## Pub/Priv Key erstellen

- Auf jedem Peer folgendes ausführen  
`wg genkey | tee server_private.key | wg pubkey > server_public.key`

## Keys

Rechner	Private	Public
IONOS VPS	YFgaDQBWzcfCE25q8bUocKRqz5LT1GS6eGrX6SldT3s=	mFFQA1Qt3yMFpG6DbCtN61XXL379epc4MoL0mGM7H30=
NAS	EGPMX6pxjh86u0M+YaNUk21suG7iFI0l2jgkvVcf1ng=	4X0nKh1ZZs6cNVjyFEjTz3njPUYTta30SPTY4bsCLCs=
Handy	mJkKiZR0oUm0PtT15kF8b3xmNVMGKUHV7dP6SxEyDEs=	0r5f7b6myu8FfYU0GG9aqCxxj6L38bKlzinszbT6tHhY=
X250 Notebook	wMXaNqJ5tSzinf+XaxK95sH5RHE0ThpR/qX0kKC5/3U=	UKHXpioh9pLZpdDGwLa+8CuxZ9mLYR3LftEbnf8cUHu=
Firma Linux	mPGz8a10B5X0x2BtisIeVPGb+NBiXqhWWZax/4WTrXs=	zUTHdHlfc99dx0pfr09i5qEVKTRFkoUkg5+JPEr6uCo=
Doro	YH5eJ8H7VilrltgpIr2J9jGPXARuCWsbxggV0+2MRXQ=	HUTtUWCQ1lfZkXJxzY1iL48ZFVqTQzFagr5rhcMa8VQ=

## Konfigs

### IONOS VPS

[VPS.conf](#)

```
[Interface]
Address = 10.30.250.1/24
PrivateKey = YFgaDQBWzcfCE25q8bUocKRqz5LT1GS6eGrX6SldT3s=
ListenPort = 51820
MTU = 1360
Table = off

# 1. Lokales Routing auf dem VPS, damit er weiß, wo deine Heimnetze
liegen
PostUp = ip route add 10.30.1.0/24 dev wg0
PostUp = ip route add 10.30.10.0/24 dev wg0
PostUp = ip route add 10.30.20.0/24 dev wg0
PostUp = ip route add 10.30.30.0/24 dev wg0
PostUp = ip route add 10.30.40.0/24 dev wg0

# 2. Policy Routing: Zwingt den Internet-Traffic der Clients (z.B.
Handy) in den Tunnel zur UDM
PostUp = ip rule add iif wg0 lookup 200
PostUp = ip route add default dev wg0 table 200

# 3. Erlaubt Linux, die Pakete innerhalb des Tunnels (Handy -> UDM)
weiterzuleiten
PostUp = iptables -I FORWARD -i wg0 -o wg0 -j ACCEPT
PreDown = iptables -D FORWARD -i wg0 -o wg0 -j ACCEPT

# Cleanup beim Beenden des Tunnels
PreDown = ip rule del iif wg0 lookup 200
PreDown = ip route flush table 200
PreDown = ip route del 10.30.40.0/24 dev wg0
PreDown = ip route del 10.30.30.0/24 dev wg0
PreDown = ip route del 10.30.20.0/24 dev wg0
PreDown = ip route del 10.30.10.0/24 dev wg0
PreDown = ip route del 10.30.1.0/24 dev wg0

# Peer 1: UDM Max (Dein neues Gateway ins Heimnetz und ins Internet)
[Peer]
PublicKey = 4X0nKh1ZZs6cNVjyFEjTz3njPUYTta30SPTY4bsCLCs=
# Die 0.0.0.0/0 ist hier essenziell, damit der VPS Anfragen ins
Internet an die UDM abgibt
AllowedIPs = 10.30.1.0/24, 10.30.10.0/24, 10.30.20.0/24, 10.30.30.0/24,
10.30.40.0/24, 0.0.0.0/0

# Peer 2: Handy
[Peer]
PublicKey = 0r5f7b6myu8FfyU0GG9aqCxj6L38bKlzinszbT6tHhY=
AllowedIPs = 10.30.250.3/32

# Peer 3: Notebook X250
[Peer]
PublicKey = UkHXpioh9plZpdDGwLa+8CuxZ9mLYR3LftEbnf8cUhU=
```

```
AllowedIPs = 10.30.250.4/32

# Peer 4: Firma Linux
[Peer]
PublicKey = zUTHdHlfc99dx0pfr09i5qEVKTRFkoUkg5+JPEr6uCo=
AllowedIPs = 10.30.250.5/32

# Peer 5: Doro
[Peer]
PublicKey = HUTtUWCQ1lfZkXJxzY1iL48ZfVqTQzFagr5rhcMa8VQ=
AllowedIPs = 10.30.250.6/32
```

## NAS

### NAS.conf

```
[Interface]
Address = 10.0.0.2/24
PrivateKey = EGPMX6pxjh86u0M+YaNUK21suG7iFI0l2jgkvVcf1ng=
DNS = 192.168.30.20
PostUp = iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
PostUp = iptables -A FORWARD -i wg0 -o eno1 -j ACCEPT
PostUp = iptables -A FORWARD -i eno1 -o wg0 -j ACCEPT # eno1 -> LAN-
Interface
PostDown = iptables -t nat -D POSTROUTING -o eno1 -j MASQUERADE
PostDown = iptables -D FORWARD -i wg0 -o eno1 -j ACCEPT
PostDown = iptables -D FORWARD -i eno1 -o wg0 -j ACCEPT

# VPS Server
[Peer]
PublicKey = mFFQAlQt3yMFpG6DbCtN6lXXL379epc4MoL0mGM7H30=
Endpoint = 217.160.11.95:51820
AllowedIPs = 0.0.0.0/0
PersistentKeepalive = 25
```

## Handy

### Client.conf

```
[Interface]
# HIER den jeweiligen privaten Schlüssel des Geräts eintragen (Laptop,
Arbeit oder Frau)
PrivateKey = <JEWEILIGER_PRIVATE_KEY>

# IP anpassen: Laptop (.4), Arbeit (.5), Frau (.6)
```

```
Address = 10.30.250.X/32
```

```
DNS = 10.30.1.111
```

```
MTU = 1360
```

```
[Peer]
```

```
# Das ist und bleibt der Public Key deines IONOS Servers
```

```
PublicKey = mFFQAlQt3yMFpG6DbCtN61XXL379epc4MoL0mGM7H30=
```

```
Endpoint = 217.160.11.95:51820
```

```
AllowedIPs = 0.0.0.0/0
```

```
PersistentKeepalive = 25
```

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