

# 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=	0r5f7b6myu8FfYU0GG9aqCxj6L38bKlzinszbT6tHhY=
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 = 10.0.0.1/24
PrivateKey = YFgaDQBWzcfCE25q8bUocKRqz5LT1GS6eGrX6SldT3s=
ListenPort = 51820
PostUp = iptables -A FORWARD -i wg0 -o wg0 -j ACCEPT
PostUp = iptables -A FORWARD -i wg0 -j ACCEPT
PostUp = echo "200 wgexit" >> /etc/iproute2/rt_tables
PostUp = ip rule add from 10.0.0.3 table 200
PostUp = ip route add default via 10.0.0.2 dev wg0 table 200
PostDown = iptables -D FORWARD -i wg0 -o wg0 -j ACCEPT
PostDown = iptables -D FORWARD -i wg0 -j ACCEPT
PostDown = ip rule del from 10.0.0.3 table 200
PostDown = ip route del default via 10.0.0.2 dev wg0 table 200

[Peer] # NAS
PublicKey = 4X0nKh1ZZs6cNVjyFEjTz3njPUYTta30SPTY4bsCLCs=
AllowedIPs = 10.0.0.2/32, 192.168.30.0/24
PersistentKeepalive = 25

[Peer] # Handy
PublicKey = 0r5f7b6myu8FfYU0GG9aqCxj6L38bKlzinszbT6tHhY=
AllowedIPs = 10.0.0.3/32
PersistentKeepalive = 25
```

## NAS

### [NAS.conf](#)

```
[Interface]
Address = 10.0.0.2/24
PrivateKey = EGPMX6pxjh86u0M+YaNUK21suG7iFI0l2jgkvVcfIng=
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 = mFFQAlQt3yMFpG6DbCtN61XXL379epc4MoL0mGM7H30=
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 = mFFQAlQt3yMFpG6DbCtN6lXXL379epc4MoL0mGM7H30=
Endpoint = 217.160.11.95:51820
AllowedIPs = 0.0.0.0/0
PersistentKeepalive = 25
```

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