

# home.bksp

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# Network

## Configuration

| Vlan | Network       | Comment     | Conf           |
|------|---------------|-------------|----------------|
| 2    | 10.21.0.0/24  | Admin / Lan | DHCP           |
| -    | 10.21.1.0/24  | VPN         | Auto (openvpn) |
| 10   | 10.21.10.0/24 | Servers     | Static         |
| 20   | 10.21.20.0/24 | Work        | DHCP           |

- Router

| Port | VLAN               |
|------|--------------------|
| 1    | 2, 10, 20 (tagged) |
| 2    | 2 (untagged)       |
| 3    | 2 (untagged)       |
| 4    | 20 (untagged)      |

- Switch

| Port | VLAN               |
|------|--------------------|
| 1    | 3 (untagged)       |
| 2    | 2, 10, 20 (tagged) |
| 3    | 2 (untagged)       |
| 4-7  | 10 (untagged)      |
| 8    | 20 (untagged)      |

## Branchements

- Router

| Port | Équipement |
|------|------------|
| 1    | Switch     |

| Port | Équipement   |
|------|--------------|
| 2    | Laptop perso |
| 3    |              |
| 4    | Laptop pro   |

- Switch

| Port | Équipement         |
|------|--------------------|
| 2    | Router             |
| 3    | -                  |
| 4    | Rasp (Mio)         |
| 5    | Rasp (Ritsu)       |
| 6    | NAS (Senjougahara) |
| 8    | Gateway Lora       |

# Adresses

| Équipement              | Adresse      | Net    |
|-------------------------|--------------|--------|
| Router (gw1.home)       | 10.21.0.1    | Admin  |
| Switch (sw1.home)       | 10.21.0.2    | Admin  |
| Rasp (mio.home)         | 10.21.10.101 | Server |
| Rasp (ritsu.home)       | 10.21.10.102 | Server |
| NAS (senjougahara.home) | 10.21.10.32  | Server |
| Gateway Lora            | 10.21.20.10  | Work   |
| smallbell.vpn           | 10.21.1.2    | VPN    |

# Installation Rasp

## Installation Centos8 Stream

1. Graver l'image de disque ([Lien de l'image](#))

```
dd if=CentOS-Userland-8-stream-aarch64-RaspberryPI-Minimal-4-sda.raw of=/dev/mmcblk0  
bs=64k status=progress
```

2. Démarrer la rasp (par défaut en dhcp) sur le réseau admin et trouver l'ip en regardant sur <http://10.21.0.1/cgi-bin/luci/admin/status/overview>
3. SSH avec les identifiants root / centos
4. Redimensionner la partition root

```
dnf install cloud-utils-growpart e2fsprogs  
growpart /dev/mmcblk0 3  
resize2fs /dev/mmcblk0p3
```

5. Configurer le réseau

```
dnf install vim  
vim /etc/sysconfig/network-scripts/ifcfg-eth0
```

```
DEVICE=eth0  
BOOTPROTO=none  
ONBOOT=yes  
PREFIX=24  
IPADDR=10.21.10.101  
GATEWAY=10.21.10.1  
DNS1=10.21.10.53 # todo
```

6. Redémarrer la rasp sur le réseau des servers
7. Migrer à Centos Stream

```
rpm -i https://vault.centos.org/centos/8/extras/aarch64/os/Packages/centos-release-  
stream-8.1-1.1911.0.7.el8.aarch64.rpm  
dnf --allowerase --disablerepo '*' --enablerepo=extras swap centos-linux-repos  
centos-stream-repos  
dnf distro-sync
```

## 8. Redémarrer la rasp

Sources :

- [https://sigs.centos.org/automotive/building/centos\\_stream\\_pi4/](https://sigs.centos.org/automotive/building/centos_stream_pi4/)
- <http://reallyappreciate.com/raspberry-pi-4-8gb-model-with-centos-8/>