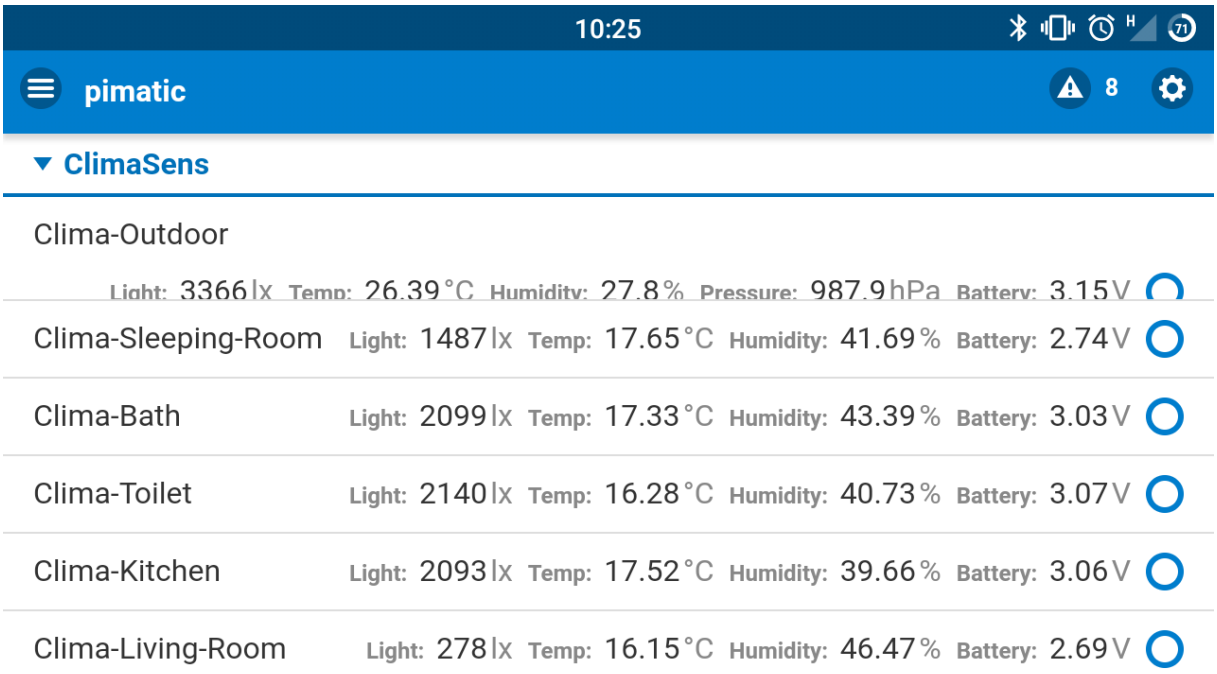
Installation
Smart-ClimaSens



1. System installation

1. Download “raspbian”

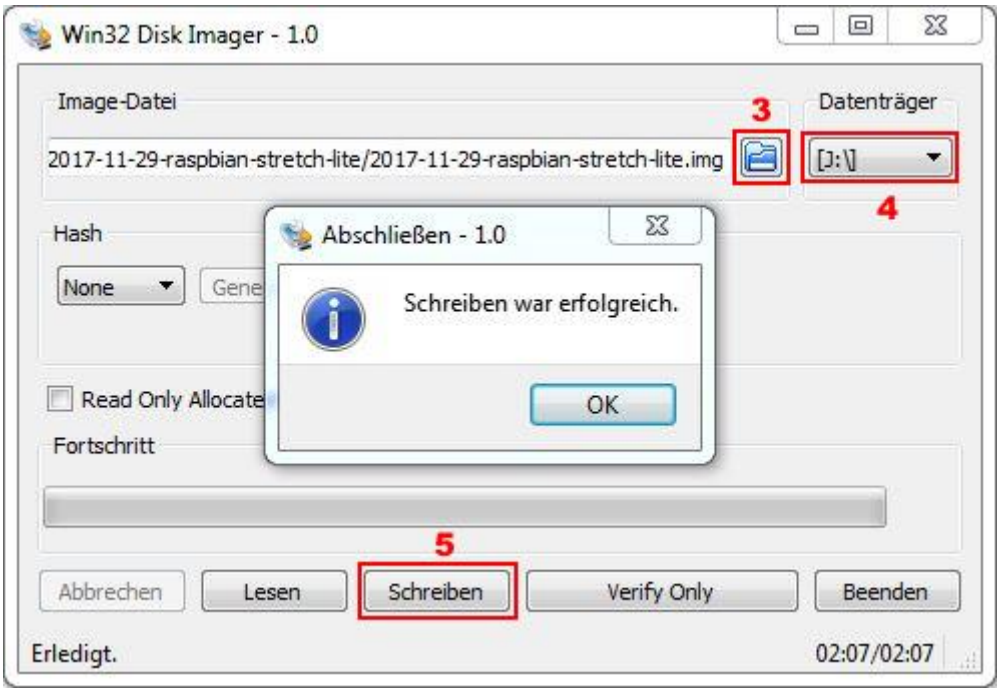
https://www.raspberrypi.org/downloads/raspbian/

2. Download “Win32 Disk Imager”

http://www.chip.de/downloads/Win32-Disk-Imager_46121030.html

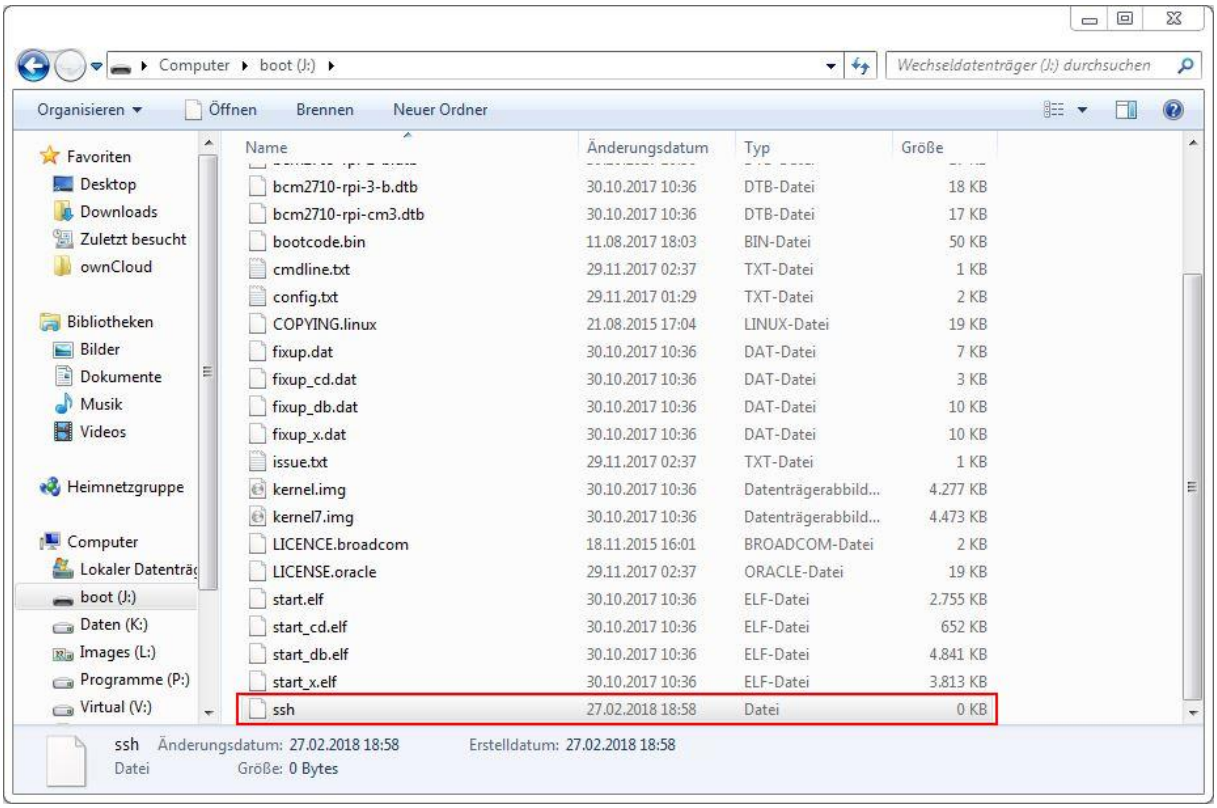
3. Flash the “raspbian“ image with “Win32 Disk Imager”

1. Unzip the raspbian image
2. Open Win32 Disk Imager
3. Select the image file
4. Select your SD-Card
5. “Write” to the SD-Card



4. Enable SSH

Open your SD-Card with the windows explorer and create a file called “ssh”



5. First run

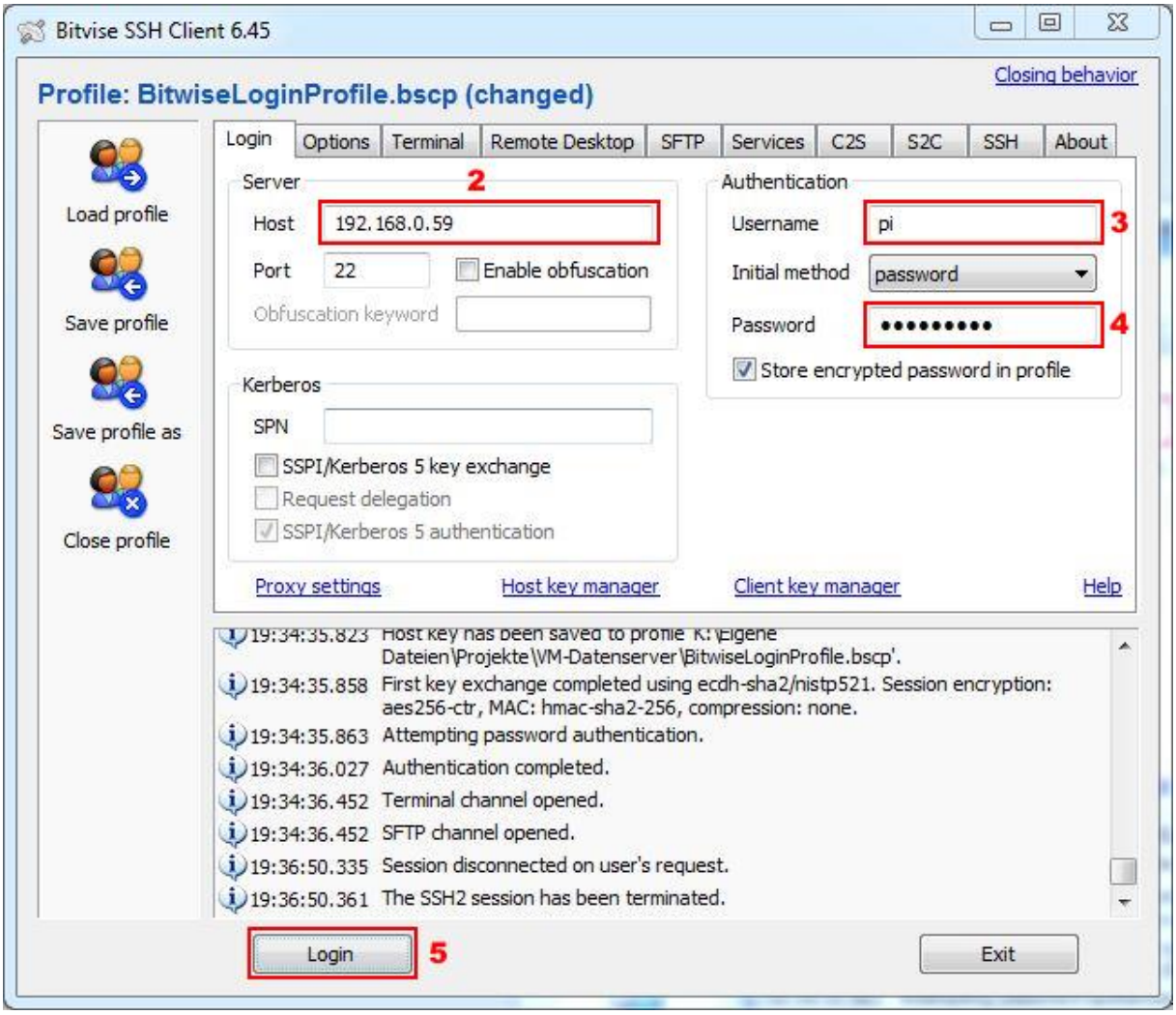
- Put the SD-Card into your raspberry
- connect the patch cable with your local network
- plug in the power supply

Find out the ip address of your raspberry:

- Using the client list of your router
- Or an app on your smartphone like “Fing”: https://play.google.com/store/apps/details?id=com.overlook.android.fing&hl=de

Connect to your raspberry:

1. Get a SSH-Client like “Bitwise-SSH”
2. Type in the IP-Address of your pi
3. Type in the username “pi”
4. Type in the password “raspberry”
5. Login to the raspberry

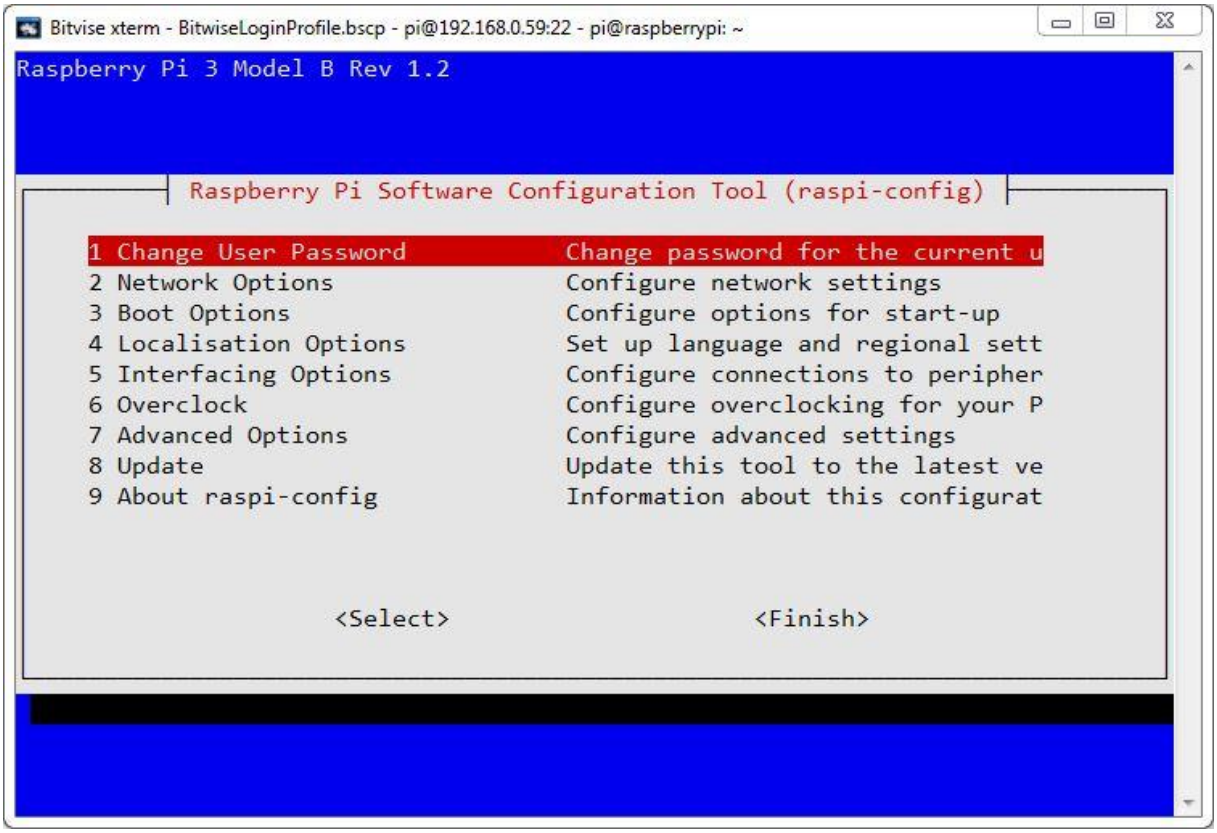


2. System configuration

1. Change default settings

Use raspi-config to change the default system settings

```
sudo raspi-config
```



Some useful changes:

- User password
- Network-Settings -> Wifi
- Internationalization Options
- Update

3. Pimatic installation

1. Prepare for installation

Download “nodejs”

```
wget https://nodejs.org/dist/v4.6.2/node-v4.6.2-linux-armv7l.tar.gz -P /tmp
```

Move to local directory

```
cd /usr/local
```

Unpack the folder

```
sudo tar xzvf /tmp/node-v4.6.2-linux-armv7l.tar.gz --strip=1
```

Install “git”

```
sudo apt-get install build-essential git
```

Move to user directory

```
cd ~
```

Create a directory for pimatic

```
mkdir pimatic-app
```

2. Install pimatic

Run the installation of pimatic

```
npm install pimatic --prefix pimatic-app --production
```

This will take a while

Move to the installation directory

```
cd pimatic-app
```

Copy default configuration

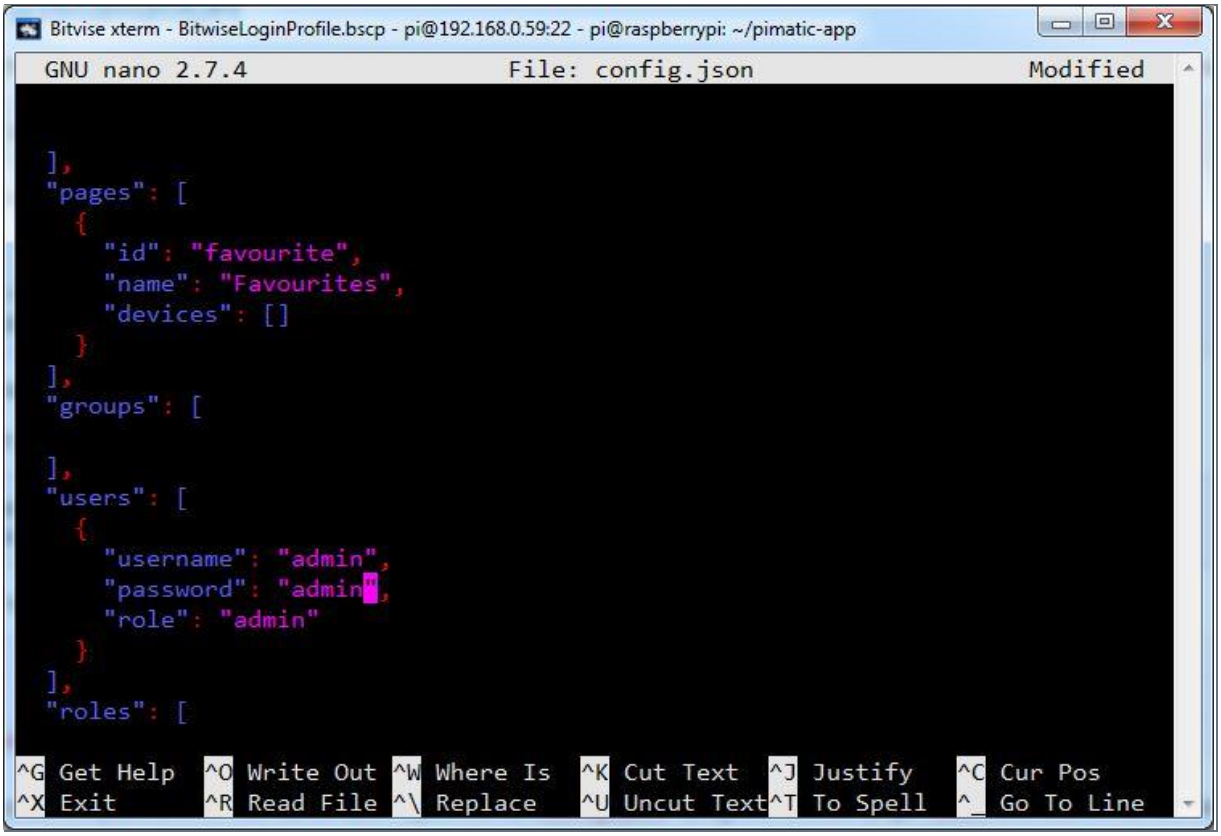
```
cp ./node_modules/pimatic/config_default.json ./config.json
```

3. Setup user

Open the configuration file

```
nano config.json
```

Set a password for the admin user



Save and close the file by entering “Strg” + “C” and confirm with “y” followed by “Return”

Start pimatic

```
sudo node_modules/pimatic/pimatic.js start
```

4. Configure auto start

Move to the pimatic directory

```
cd node_modules/pimatic
```

Make pimatic globally available

```
sudo npm link
```

This will take a while

Download “pimatic-init-d” file

```
wget https://raw.githubusercontent.com/pimatic/pimatic/v0.9.x/install/pimatic-init-d
```

Copy the file to pimatic

```
sudo cp pimatic-init-d /etc/init.d/pimatic
```

Make the file executable

```
sudo chmod +x /etc/init.d/pimatic
```

Change the owner of the file to “root”

```
sudo chown root:root /etc/init.d/pimatic
```

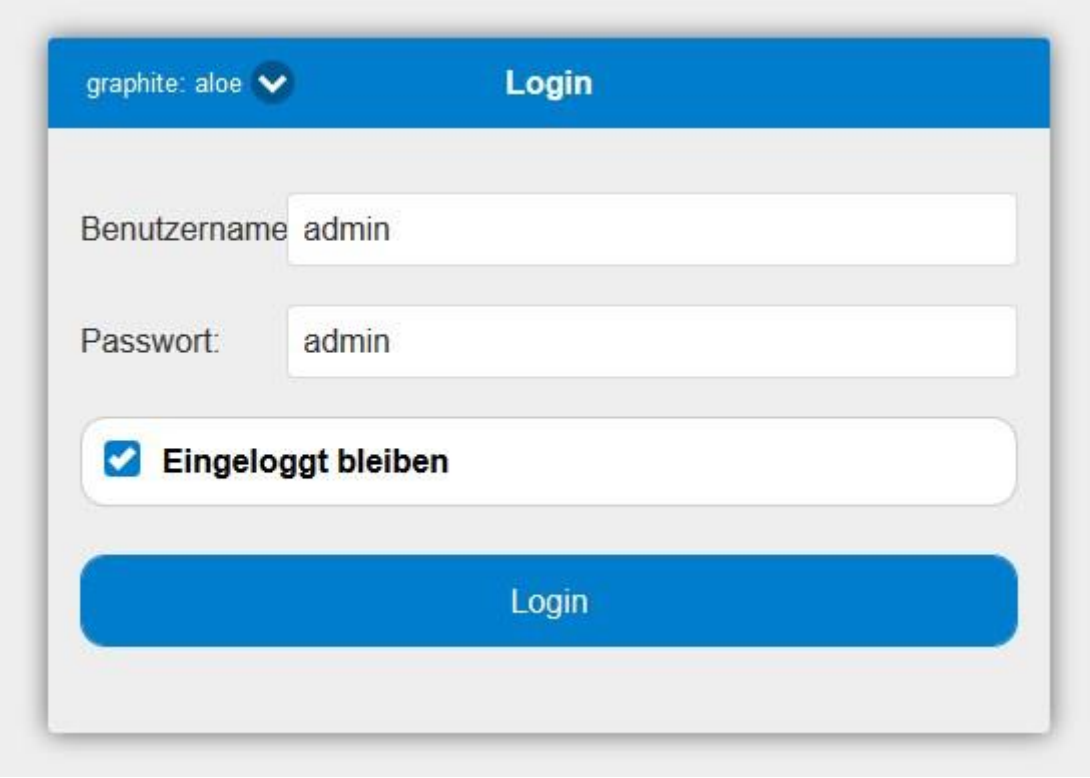
Call the system to auto start the file

```
sudo update-rc.d pimatic defaults
```

5. Access pimatic

Pimatic is still processing its first start this can take about 10min.

Open your internet browser and type in the IP-Address of your raspberry pi.
The login screen should show up.



Enter the user name “admin” and the password you have set.

6. Install plugin

- Go to “Plugins”, select the Rider “Browse Plugins” and install the Plugin called “Smart-ClimaSens”.

- Wait until the installation is completely done and restart the system.

- Go to “Plugins” and activate the “Smart-ClimaSens” plugin.

7. Adding devices

- Go to “Devices” and press “Discover Devices” once.

- After 20s the system stops discovering and you should see your device in the list.

- The closest device to your raspberry will have the highest “RSSI”.
  Once a device is added, it will not show up in the list anymore.

- Select the device you will add and change the name to whatever you want.

- Press “Save” and the device is successfully added.

8. Display devices

- Press the gear-wheel button on the right top.

- Press “Add a new item…”

- Select the device you will add.

- Go “Back” and change the order of your devices.

- Finish it by pressing the check mark on the right top.