Start the powershell script in self-setup

> Marc > Dokumente > GitHub > DGTCentaur > build > self-setup

Name	Änderungsdatum	Typ	Größe
add2firstrun.txt	25.12.2021 08:47	Textdokument	1 KB
AutoDGTCentaurModsInstaller.ps1	25.12.2021 10:31	Windows PowerS...	9 KB
firstboot.service	25.12.2021 08:47	SERVICE-Datei	1 KB
firstboot.sh	25.12.2021 08:47	Shell Script	1 KB

It will download 7-Zip, Win32DiskImager and the RaspberryPi Imager tool and the same Folder.

It will not install any of those tools – It just creates portable versions in the Folders

Name	Änderungsdatum	Typ	Größe
7-Zip	25.12.2021 08:51	Dateiordner	
RaspberryPi_imager	25.12.2021 09:23	Dateiordner	
Win32DiskImager	25.12.2021 09:23	Dateiordner	
7z2106-x64.msi	25.11.2021 14:25	Windows Installer...	1.809 KB
add2firstrun.txt	25.12.2021 08:47	Textdokument	1 KB
AutoDGTCentaurModsInstaller.ps1	25.12.2021 09:19	Windows PowerS...	8 KB
DGTCentaurMods_0.1.0_armhf.deb	07.12.2021 23:00	deb Archive	25.328 KB
firstboot.service	25.12.2021 08:47	SERVICE-Datei	1 KB
firstboot.sh	25.12.2021 08:47	Shell Script	1 KB
raspberryPi_imager_latest.exe	06.05.2021 16:24	Anwendung	19.310 KB
Win32DiskImager-1.0.0-binary.zip	08.03.2017 02:56	zip Archive	16.584 KB

The script will look out for an Image file called centaur.img and ask you to create an image if the file if not found.

```
PowerShell 7.2.0-preview.10
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https://aka.ms/powershell
Type 'help' to get help.

PS F:\Marc\Documents\GitHub\DGTCentaur\build\self-setup> .\AutoDGTCentaurModsInstaller.ps1
Path F:\Marc\Documents\GitHub\DGTCentaur\build\self-setup\7-Zip exists!
Start-Process F:\Marc\Documents\GitHub\DGTCentaur\build\self-setup\7-Zip\7z.exe -Wait -ArgumentList x F:\Marc\Documents\
GitHub\DGTCentaur\build\self-setup\Win32DiskImager-1.0.0-binary.zip -oF:\Marc\Documents\GitHub\DGTCentaur\build\self-set
up\Win32DiskImager
Time taken: 10 second(s)
Start-Process F:\Marc\Documents\GitHub\DGTCentaur\build\self-setup\7-Zip\7z.exe -Wait -ArgumentList x F:\Marc\Documents\
GitHub\DGTCentaur\build\self-setup\raspberryPi_imager_latest.exe -oF:\Marc\Documents\GitHub\DGTCentaur\build\self-setup\
RaspberryPi_imager
Time taken: 9 second(s)
We need to extract centaur from your sdcard
- please place original SDCard in your Card Reader
And use Win32DiskImager to create an Image file called centaur.img !
```
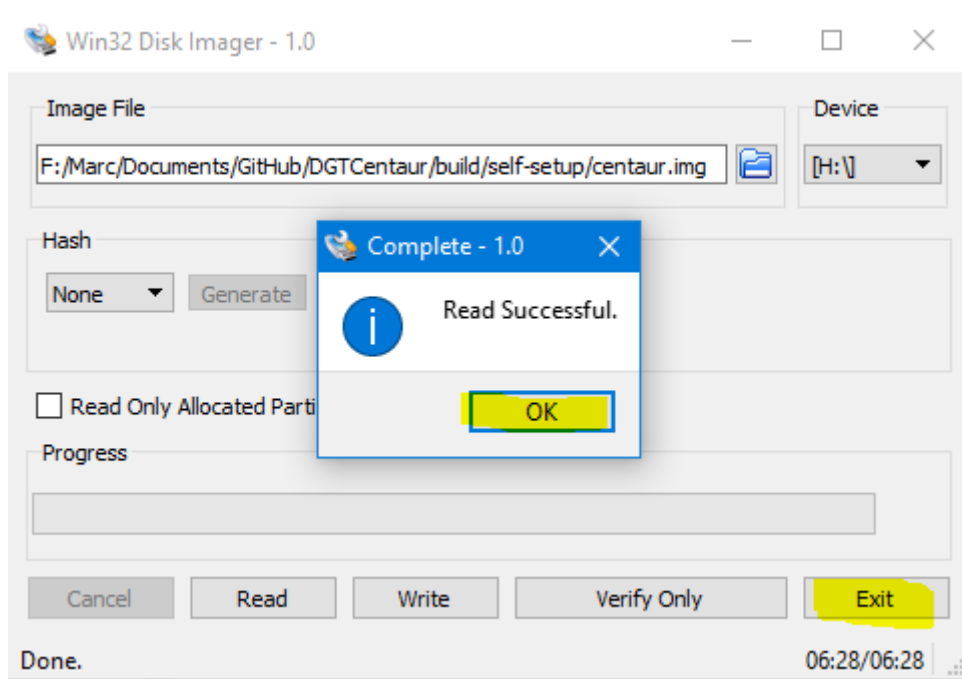
Win32DiskImager will pop up to allow you to create an Image. The Path to the image is pre-configured and most likely your SDcord is already selected.

If you havn´t plugged your SDCard this is moment you should do it!
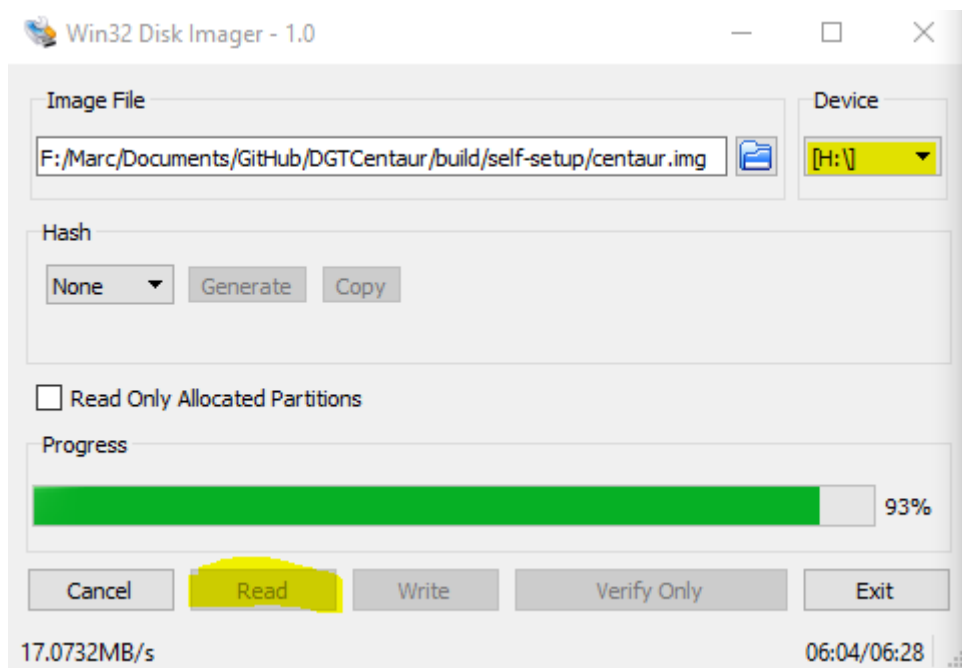
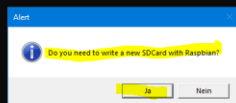Once reading the SDCard is completed click „Ok" and „Exit" to move on.

The Script will use 7zip to extract the centaur programs and setting from your SDCard image

7-Zip	25.12.2021 08:51	Dateiordner	
home	25.12.2021 09:57	Dateiordner	
RaspberryPi_imager	25.12.2021 09:23	Dateiordner	
Win32DiskImager	25.12.2021 09:57	Dateiordner	
7z2106-x64.msi	25.11.2021 14:25	Windows Installer...	1.809 KB
add2firstrun.txt	25.12.2021 08:47	Textdokument	1 KB
AutoDGTCentaurModsInstaller.ps1	25.12.2021 09:58	Windows PowerS...	9 KB
centaur.img	25.12.2021 09:30	Datenträgerimage...	7.806.976 KB
centaur.tar.gz	25.12.2021 09:59	gz Archive	23.773 KB
DGTCentaurMods_0.1.0_armhf.deb	07.12.2021 23:00	deb Archive	25.328 KB
firstboot.service	25.12.2021 08:47	SERVICE-Datei	1 KB
firstboot.sh	25.12.2021 08:47	Shell Script	1 KB
raspberryPi_imager_latest.exe	06.05.2021 16:24	Anwendung	19.310 KB
Win32DiskImager-1.0.0-binary.zip	08.03.2017 02:56	zip Archive	16.584 KB

Once finished extracting files - Please remove your „original" SDCard and connect a new SDCard to your PC because we want to write the Raspbian OS to the SDCard.
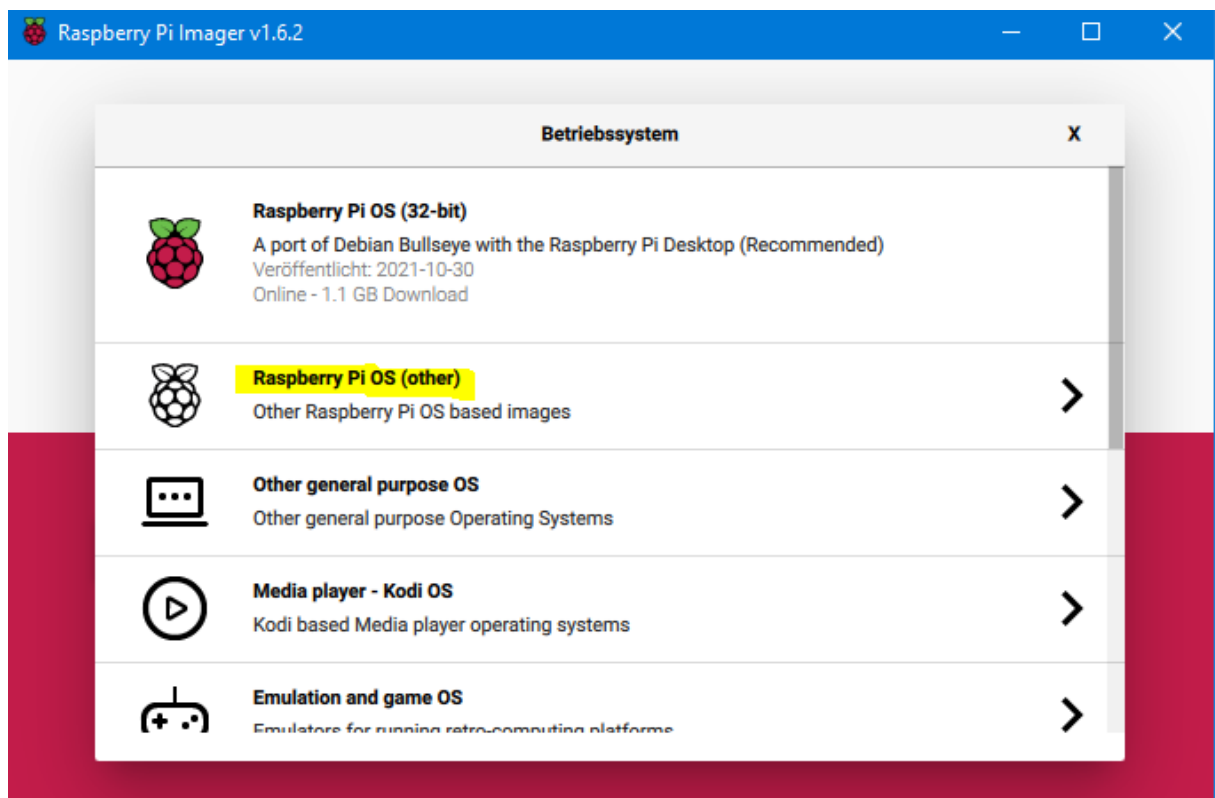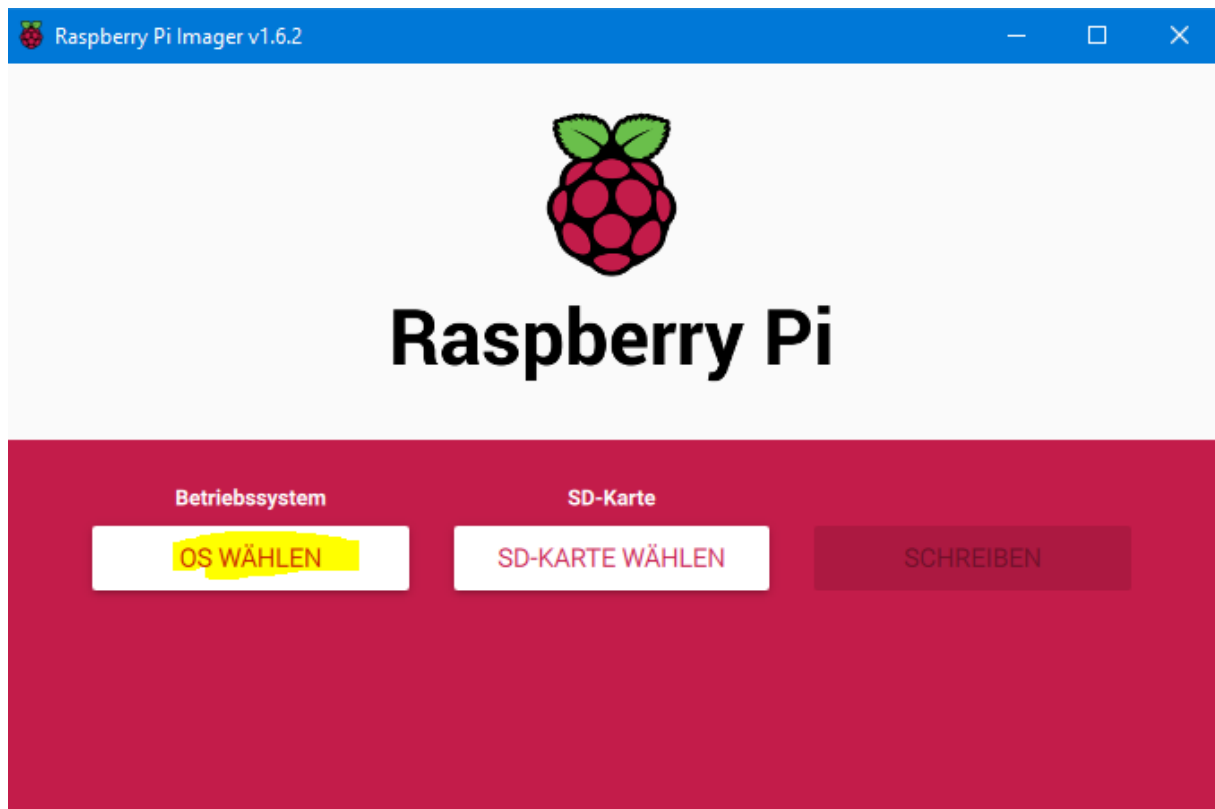

Click on Yes to Image the Raspbian OS to the Card

The Raspberry Pi Imager will pop upand we select our the Bullseye OS without GUI and our new SDCard!

Raspberry Pi Imager v1.6.2

Raspberry Pi

Betriebssystem

OS WÄHLEN

SD-Karte

SD-KARTE WÄHLEN

SCHREIBEN

Raspberry Pi Imager v1.6.2

Betriebssystem   X

Raspberry Pi OS (32-bit)
A port of Debian Bullseye with the Raspberry Pi Desktop (Recommended)
Veröffentlicht: 2021-10-30
Online - 1.1 GB Download

Raspberry Pi OS (other)
Other Raspberry Pi OS based images   >

Other general purpose OS
Other general purpose Operating Systems   >

Media player - Kodi OS
Kodi based Media player operating systems   >

Emulation and game OS
Emulators for running retro-computing platforms   >

Raspberry Pi Imager v1.6.2

Betriebssystem   X

Zurück
Zurück zum Hauptmenü

Raspberry Pi OS Lite (32-bit)
A port of Debian Bullseye with no desktop environment
Veröffentlicht: 2021-10-30
Auf Ihrem Computer zwischengespeichert

Raspberry Pi OS Full (32-bit)
A port of Debian Bullseye with desktop and recommended applications
Veröffentlicht: 2021-10-30
Online - 3.0 GB Download

Raspberry Pi OS (Legacy)
A port of Debian Buster with desktop with security updates
Veröffentlicht: 2021-12-02

Raspberry Pi Imager v1.6.2

Raspberry Pi

Betriebssystem   **SD-Karte**

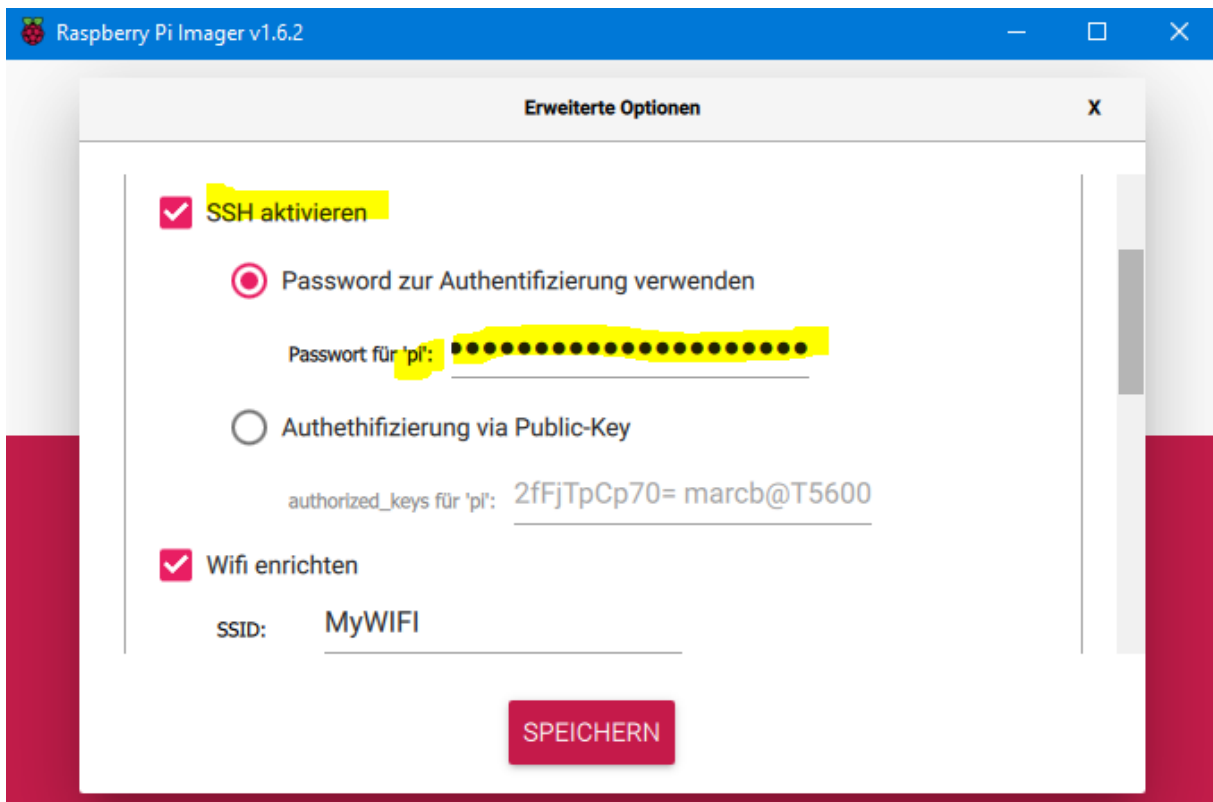RASPBERRY PI OS LITE (32-BIT)   SD-KARTE WÄHL...   SCHREIBEN

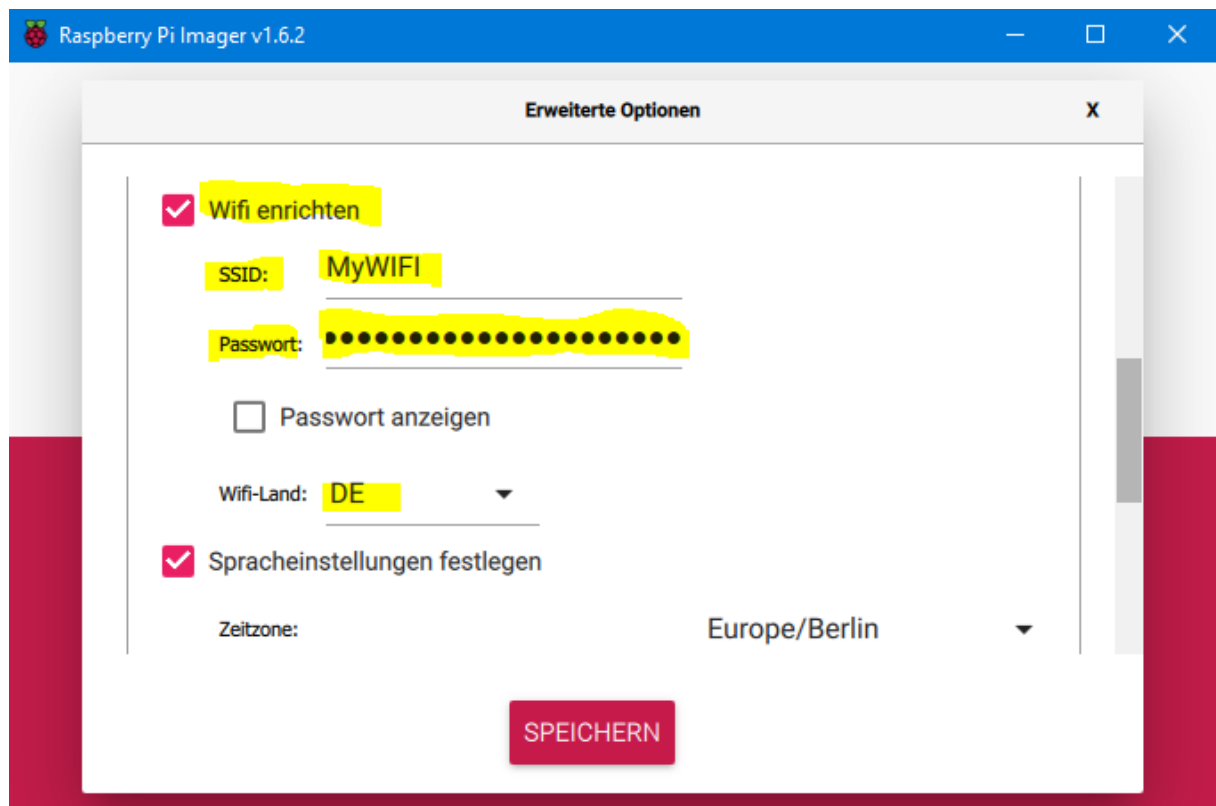Now I have to add our WIFI settings to the Image.

Press „CNTRL" + „Shift" + „x" at the same time to open a hidden menu.

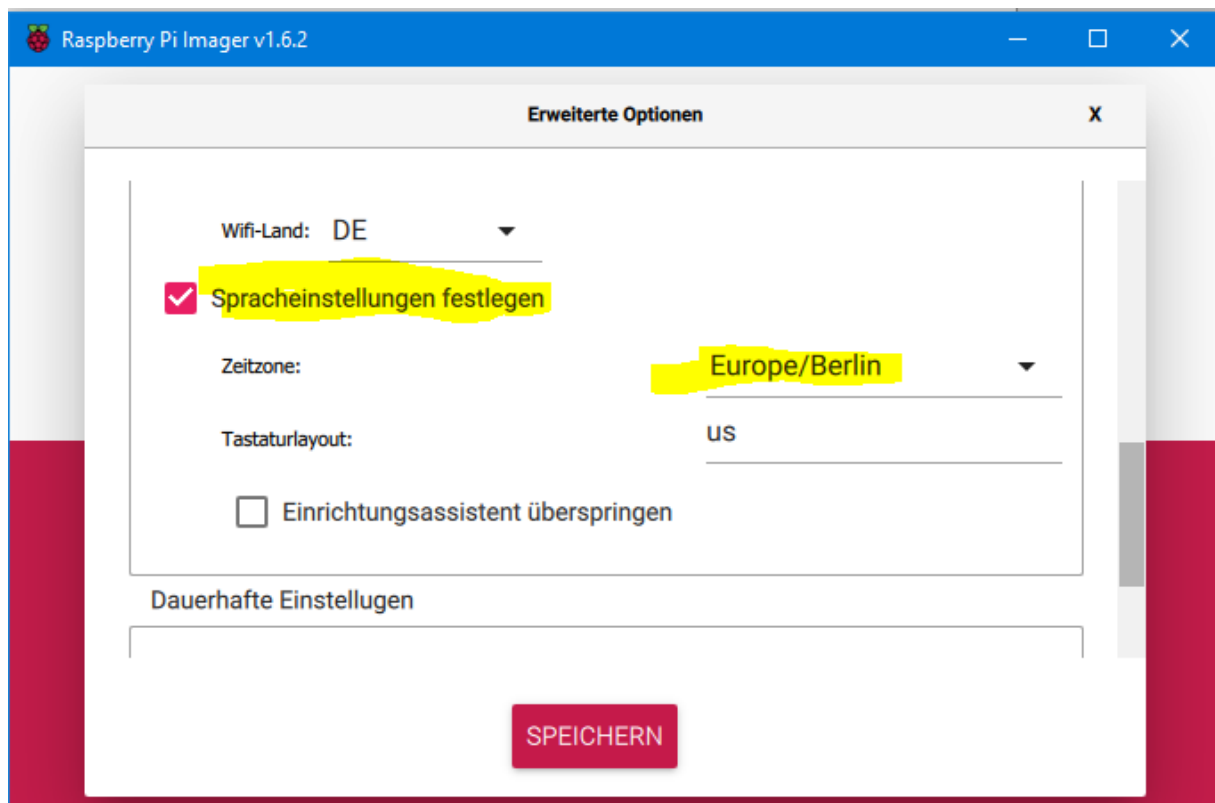Please enable ssh and change the default password for the user pi

Enable Wifi, enter your wifi SSID and your password to your Wifi so that the Pi Zero can connect to the network during setup.
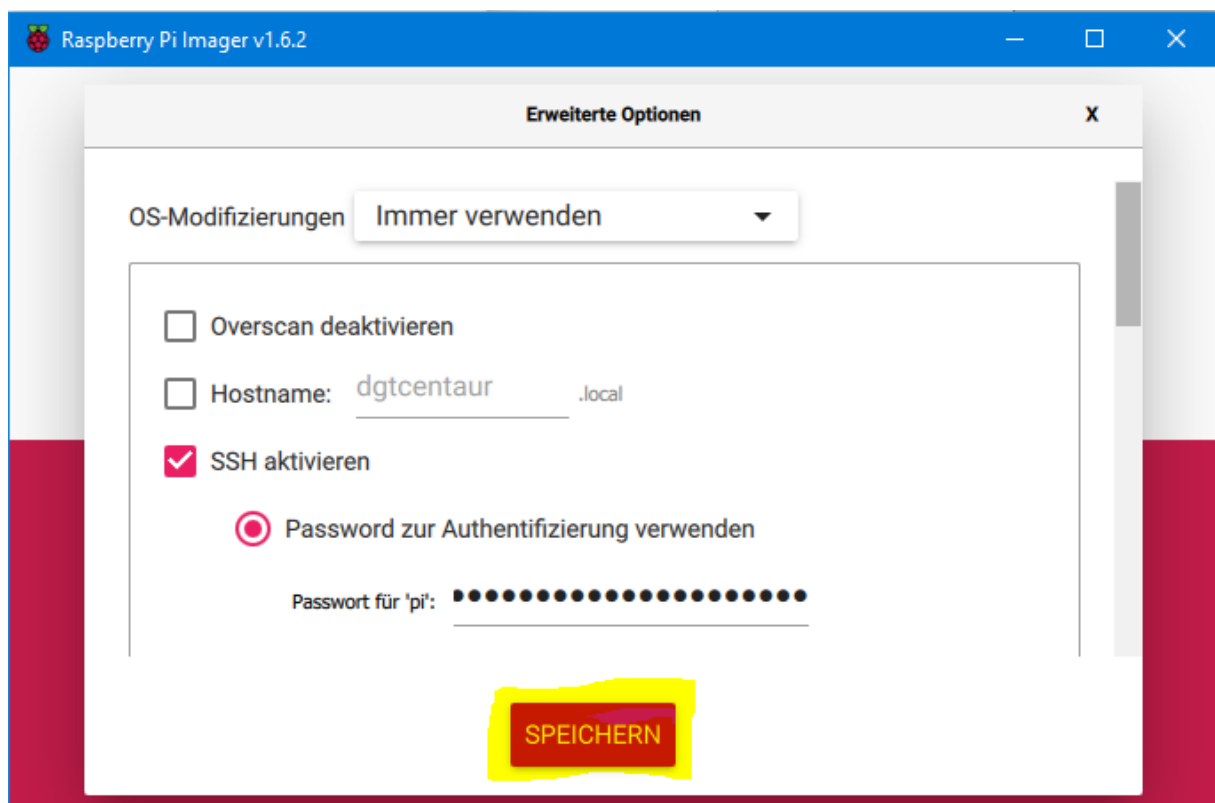
Choose your country in the select box

Optional – enteryour country and timezone settings:

Save your settings and write the image to your new SDCard.

Double check you have placed the correct SDCrad in your Card reader.

Confirm that all data on your SDCard will be deleted and click „Yes"

The image is written and you an follow the progress:

Please ignore any windows popping up that tell you that the drive can´t be read. This is simply because Windows can´t cope the the Linux filesystem on the SDCard.
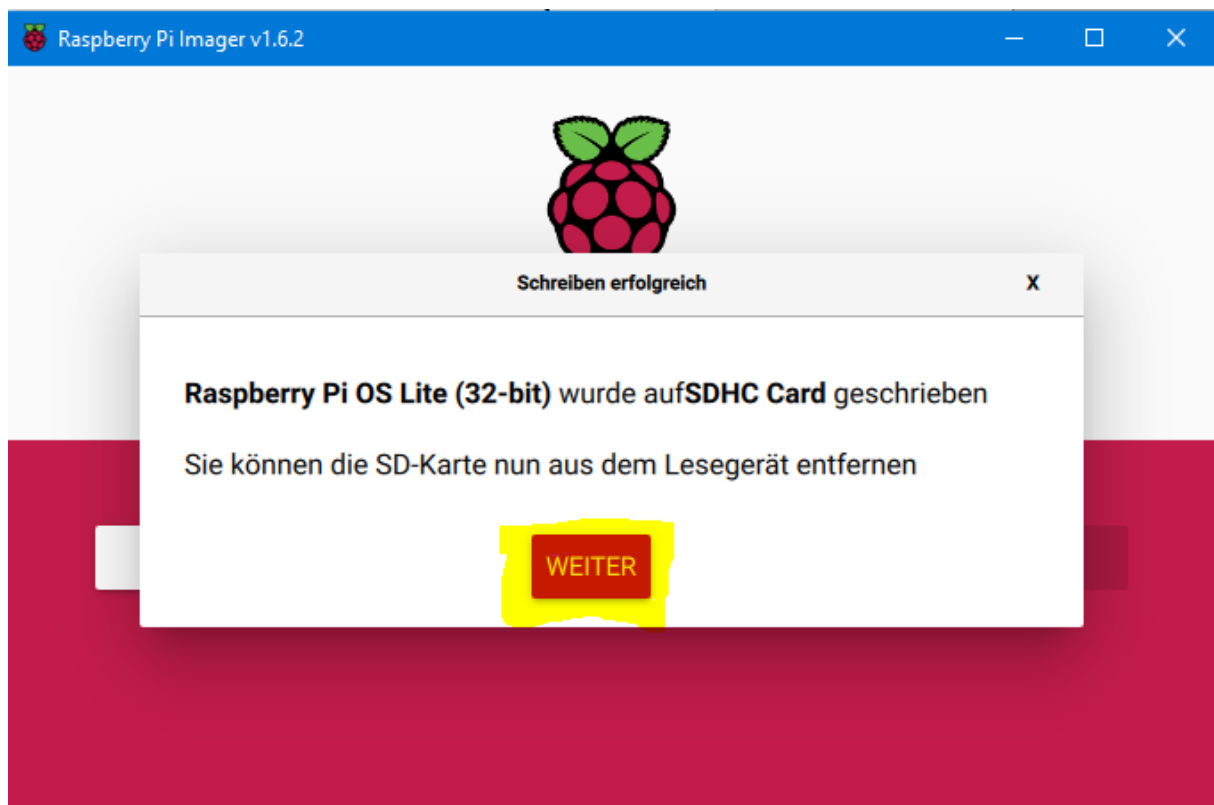
Once written it will verify
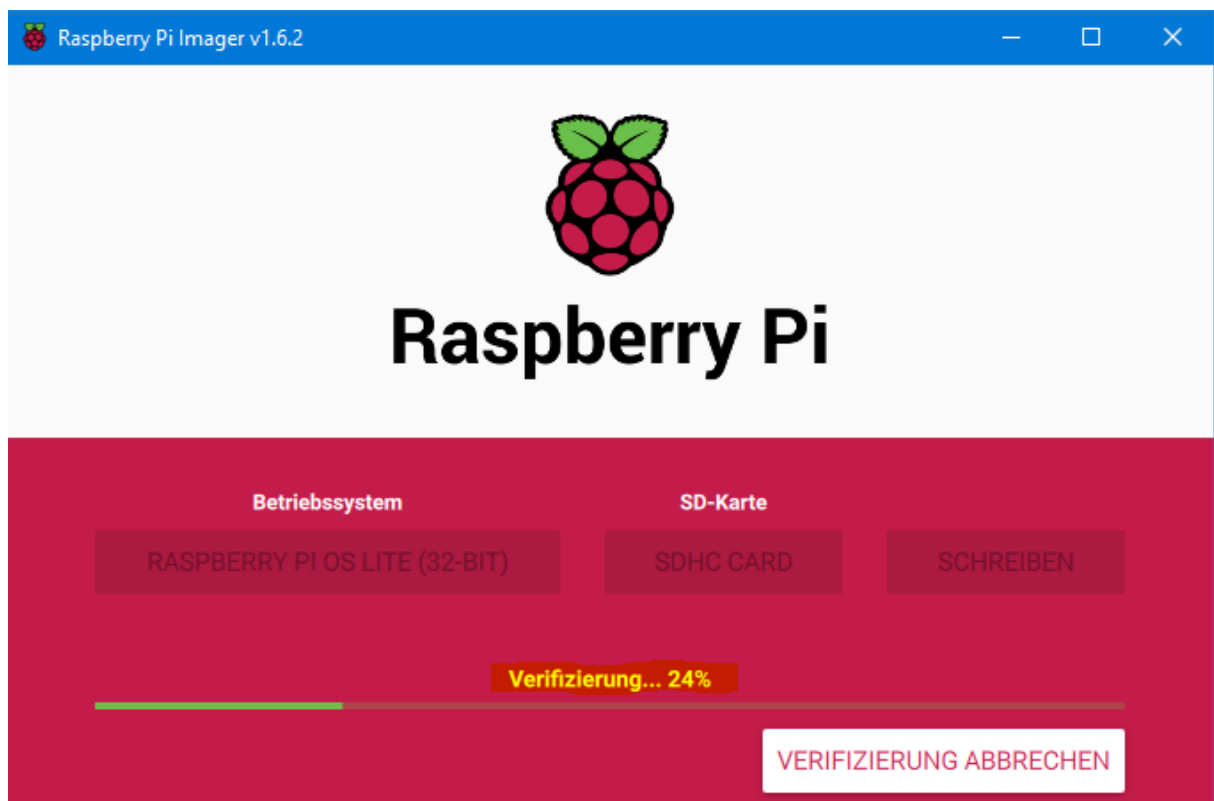
Wait will the process is fully completed.

At the End Raspberry Pi Imager will eject your SDCard from the system – Therefore we need to remove the SDcard and plug it back into your Card Reader.
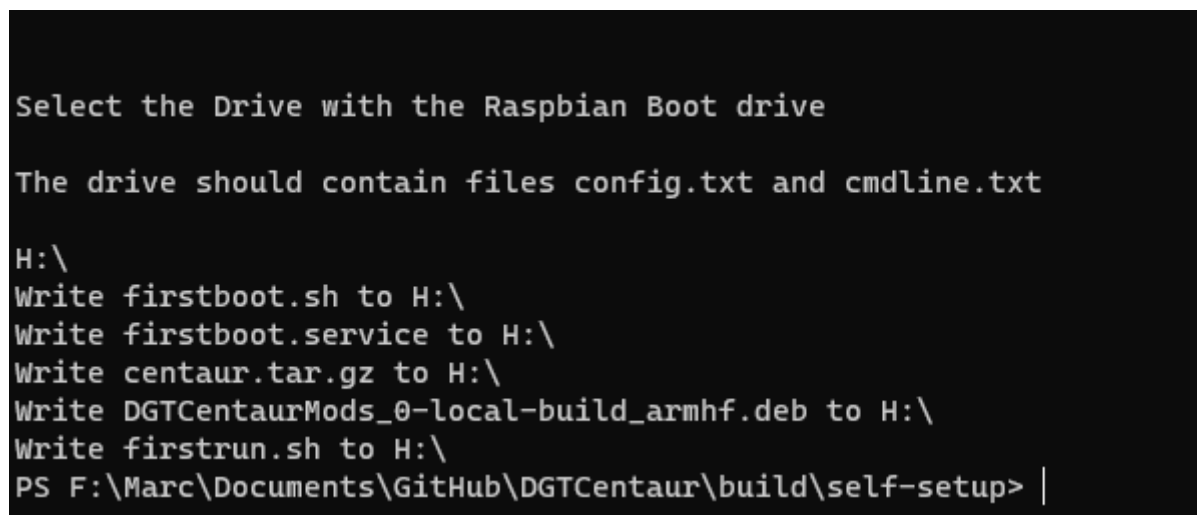
Click continue and close the RaspBerry Pi Imager program.

The Powershell script will download the latest Release Version from Github and ask you to select the boot Drive on the SDCard:

Select the Drive with the Raspbian Boot drive

The drive should contain files config.txt and cmdline.txt
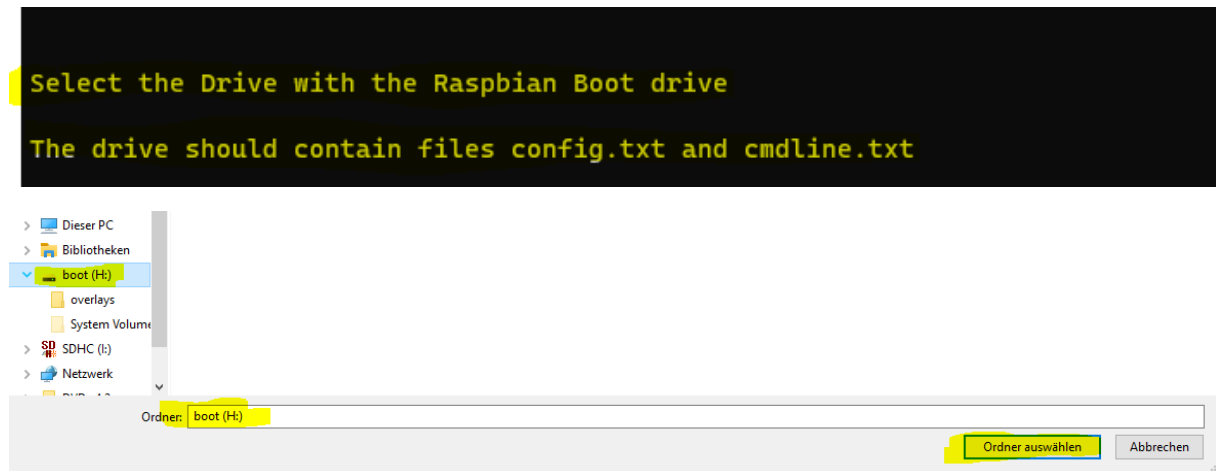
Select the correct Drive in the new window that opens up.and continue.

The powershell script will copy files to the SDCard and complete the Process.

```
Select the Drive with the Raspbian Boot drive

The drive should contain files config.txt and cmdline.txt

H:\
Write firstboot.sh to H:\
Write firstboot.service to H:\
Write centaur.tar.gz to H:\
Write DGTCentaurMods_0-local-build_armhf.deb to H:\
Write firstrun.sh to H:\
PS F:\Marc\Documents\GitHub\DGTCentaur\build\self-setup>
```

Once finished eject sdcard – mount into PiZero and power on the Centaur.

Wait long enough until you hear 2 beeps when the centaurMods service starts up.

If you are quick enough to connect once the piZero has started up first time you could see the fistrun.service running and installing the deb packet:

```
       Active: active (running) since Sat 2021-10-30 13:30:10 CEST; 1 months 22 days ago
     Main PID: 337 (firstboot.sh)
        Tasks: 5 (limit: 409)
          CPU: 2min 14.424s
       CGroup: /system.slice/firstboot.service
               ├─ 337 /bin/bash /home/pi/firstboot.sh
               ├─ 443 apt -y install /boot/DGTCentaurMods_0-build_armhf.deb
               ├─1154 /usr/bin/dpkg --status-fd 18 --configure --pending
               ├─1333 /usr/bin/bash /var/lib/dpkg/info/dgtcentaurmods.postinst configure
               └─1553 sed -i s/dgtcentaur/dgtcentaur/g /etc/hosts

Dec 22 18:45:57 dgtcentaur firstboot.sh[443]: [1.8K blob data]
Dec 22 18:46:00 dgtcentaur firstboot.sh[443]: [905B blob data]
Dec 22 18:46:02 dgtcentaur firstboot.sh[443]: Cloning into '/home/pi/DGTCentaurMods/tmp/rodent-iv'...
Dec 22 18:46:03 dgtcentaur firstboot.sh[443]: remote: Enumerating objects: 155, done.
Dec 22 18:46:03 dgtcentaur firstboot.sh[443]: [4.8K blob data]
Dec 22 18:46:03 dgtcentaur firstboot.sh[443]: [5.1K blob data]
Dec 22 18:46:11 dgtcentaur firstboot.sh[443]: [5.1K blob data]
Dec 22 18:46:11 dgtcentaur firstboot.sh[443]: [702B blob data]
Dec 22 18:46:11 dgtcentaur firstboot.sh[443]: [1.5K blob data]
Dec 22 18:46:15 dgtcentaur firstboot.sh[443]: [2.2K blob data]
pi@dgtcentaur:~ $
pi@dgtcentaur:~ $
pi@dgtcentaur:~ $
pi@dgtcentaur:~ $ cd DGTCentaurMods/
pi@dgtcentaur:~/DGTCentaurMods $ cd engines/
pi@dgtcentaur:~/DGTCentaurMods/engines $ ls
books  ct800  ct800.uci  maia  maia.uci  maia_weights  personalities  rodentIV  rodentIV.uci  zahak  zahak.uci
pi@dgtcentaur:~/DGTCentaurMods/engines $ ls -la
total 6636
drwxrwxrwx  5 pi pi    4096 Dec 22 18:46 .
drwxr-xr-x 14 pi pi    4096 Dec 22 18:45 ..
drwxr-xr-x  6 pi pi    4096 Dec 22 18:46 books
-rwxr-xr-x  1 pi pi  288848 Dec 22 09:52 ct800
-rw-r--r--  1 pi pi     548 Dec 22 09:52 ct800.uci
-rwxr-xr-x  1 pi pi 1277748 Dec 22 09:52 maia
-rw-r--r--  1 pi pi     953 Dec 22 18:46 maia.uci
drwxr-xr-x  2 pi pi    4096 Dec 22 18:46 maia_weights
drwxr-xr-x  2 pi pi    4096 Dec 22 18:46 personalities
-rwxr--r--  1 pi pi  219052 Dec 22 09:52 rodentIV
-rw-r--r--  1 pi pi     571 Dec 22 18:46 rodentIV.uci
-rwxr-xr-x  1 pi pi 4964820 Dec 22 09:52 zahak
-rw-r--r--  1 pi pi     760 Dec 22 18:46 zahak.uci
pi@dgtcentaur:~/DGTCentaurMods/engines $ Connection to 192.168.9.27 closed by remote host.
Connection to 192.168.9.27 closed.
```

For me it took like 5:45 min to complete but this will definitely vary with the bandwidth of your internet connection.