

Raspberry Pi OS

Hoe start je de RPi op vanaf een USB device

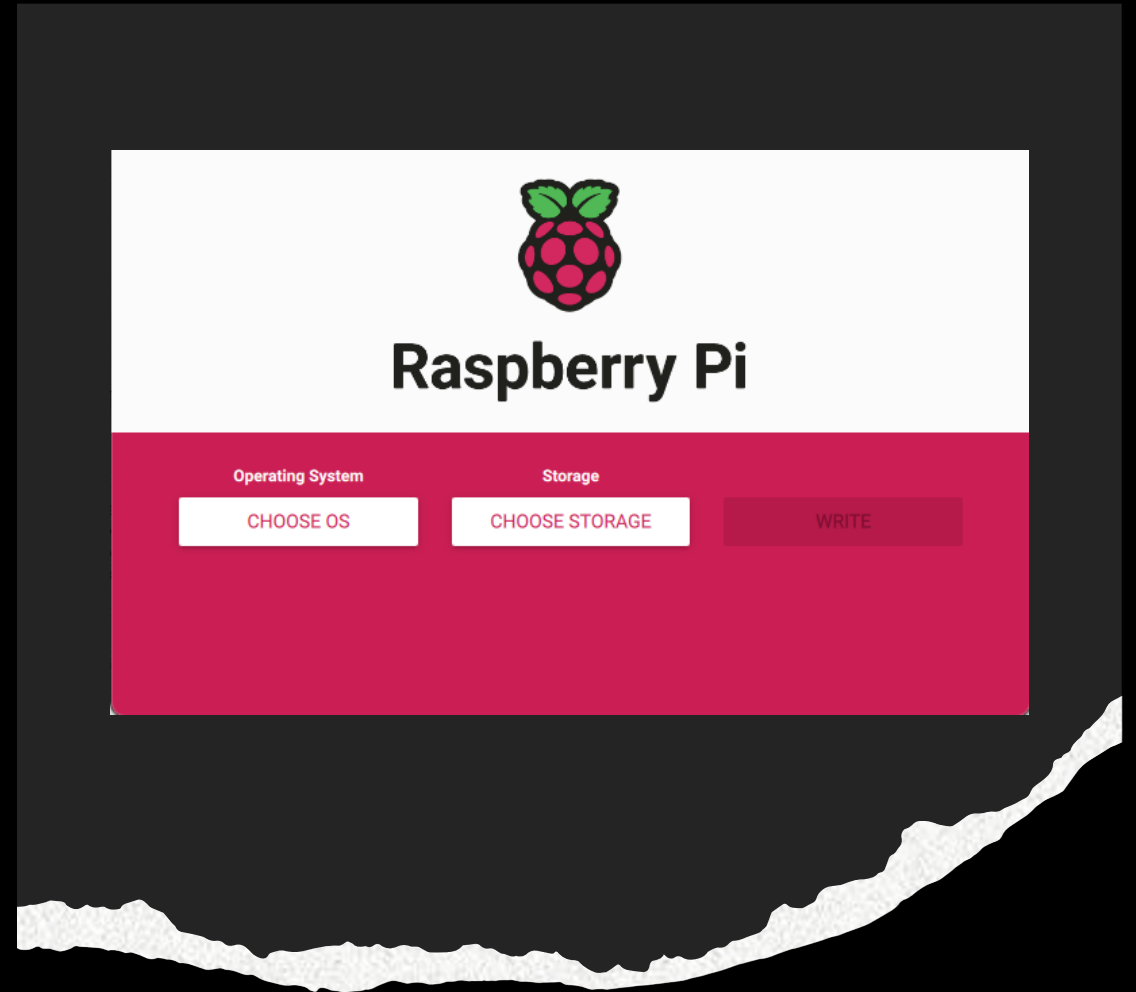


Boot Sequence

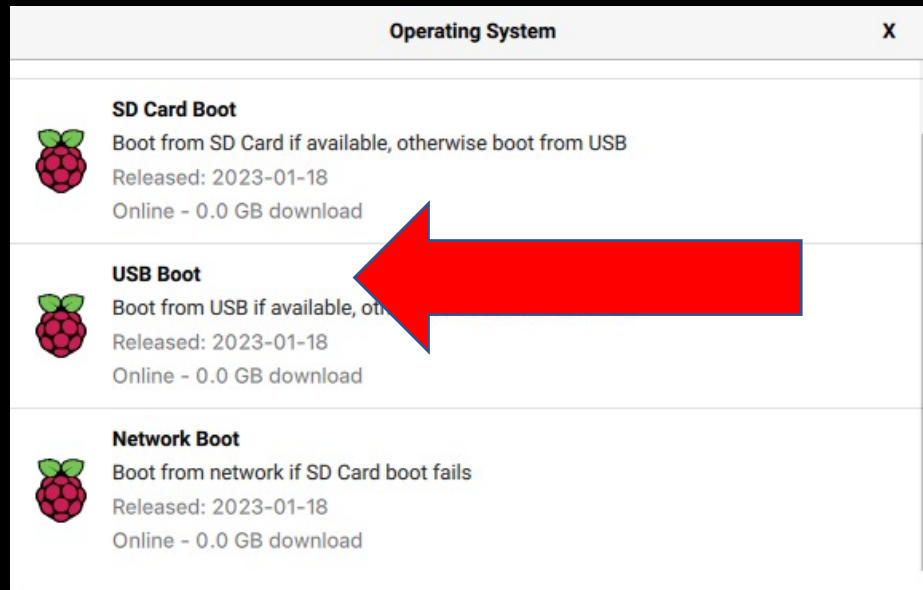
- GPU start 1e Boot Loader van ROM
- 1e Boot Loader start 2e Boot Loader van SD card in L2 Cache
 - bootcode.bin
- 2e Boot Loader enables SD RAM en laadt de 3e Boot Loader in RAM
 - loader.bin
- 3e Boot Loader leest de GPU firmware
 - start.elf
- start.elf leest de systeem configuratie en laadt kernel.arm
 - config.txt, Kernel.img, Cmdline.txt

Raspberry Pi Imager

<https://www.raspberrypi.com/software/>



Raspberry Pi 4 of 400



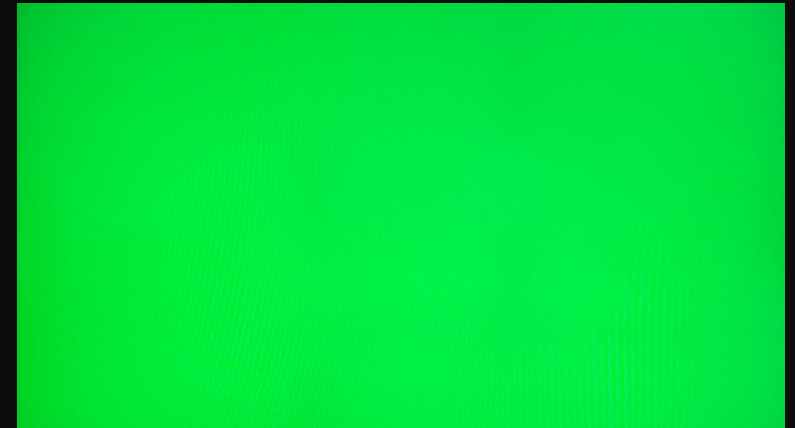
Schrijf de bootloader voor USB naar een SD-Card

Raspberry Pi 4 of 400

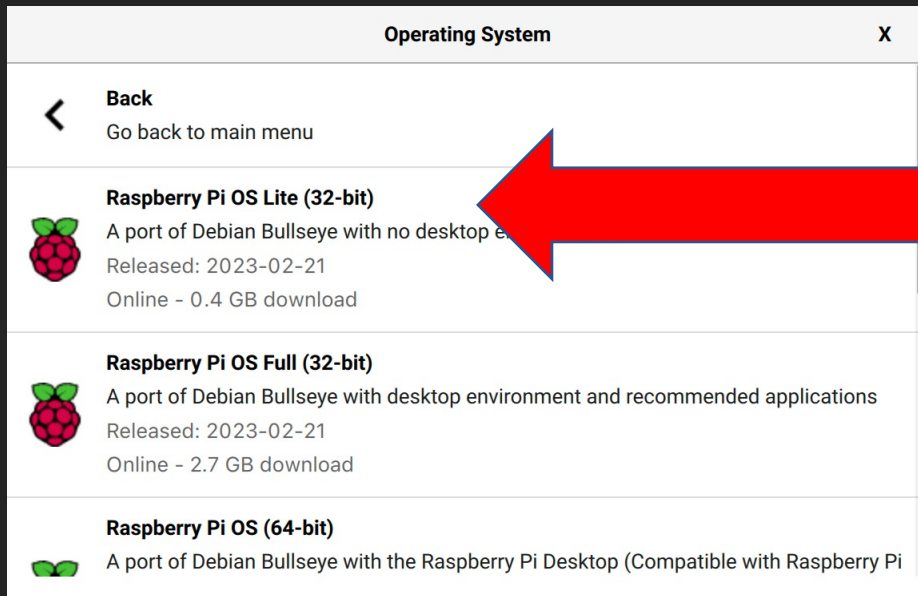
Opstarten
Raspberry Pi

1. Start op met de USB bootlader (SD-Card)
 - Wacht op het groene bevestigings scherm

2. Verwijder de CD-Card



Raspberry Pi 3 of Zero



Schrijf Raspberry
Pi OS naar een
SD-Card

Advanced Settings

Advanced options X

Image customization options for this session only ▼

Set hostname: raspberrypi.local

Enable SSH

Use password authentication

Allow public-key authentication only

Set authorized_keys for 'nicoo': ⌘@Nicos-MacBook-Pro.local

Set username and password

SAVE


Opstarten Raspberry Pi 3 of Zero


Start op met de SD-Card


Na opstarten, login en geef de volgende commando's:

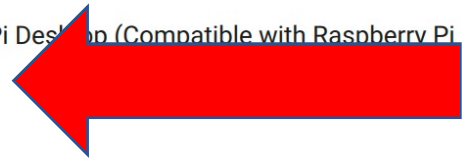
- `sudo apt update && sudo apt upgrade -y`
- `echo program_usb_boot_mode=1 | sudo tee -a /boot/config.txt`
- `sudo reboot`

Operating System X

 **Raspberry Pi OS (64-bit)**
A port of Debian Bullseye with the Raspberry Pi Desktop environment (Compatible with Raspberry Pi 3/4/400)
Released: 2023-05-03
Cached on your computer

 **Raspberry Pi OS Lite (64-bit)**
A port of Debian Bullseye with no desktop environment (Compatible with Raspberry Pi 3/4/400)
Released: 2023-05-03
Online - 0.3 GB download

 **Raspberry Pi OS (Legacy)**
A port of Debian Buster with security updates and desktop environment
Released: 2023-05-03
Online - 0.3 GB download



Raspberry Pi OS op
een USB device
voorbereiden

Advanced Settings

Advanced options X

Image customization options for this session only ▼

Set hostname: raspberrypi.local

Enable SSH

Use password authentication

Allow public-key authentication only

Set authorized_keys for 'nicoo': ⌘@Nicos-MacBook-Pro.local

Set username and password

SAVE

Geen advanced options gebruikt?

Dan gelden de volgende 5 slides

Reboot RPi van USB

Configureer gebruiker/wachtwoord

Monitor en toetsenbord noodzakelijk!



Login op de
terminal

raspi- config

- Zet netwerk instellingen op NetworkManager
- Zet SSH aan
- Zet keyboard juist (English US)

```
Raspberry Pi Software Configuration Tool (raspi-config)

1 System Options      Configure system settings
2 Display Options     Configure display settings
3 Interface Options   Configure connections to peripherals
4 Performance Options Configure performance settings
5 Localisation Options Configure language and regional settings
6 Advanced Options    Configure advanced settings
8 Update              Update this tool to the latest version
9 About raspi-config  Information about this configuration tool

<Select>                                <Finish>
```

Configureer Wireless Network

- `nmcli dev wifi con "SSID" -ask`
- `ip address show wlan0`

Diagnostics

