

Betriebssysteme

Windows, macOS, Unix, Virtualisierung und Tools

Tom Gries



Dokumenten URL:

<http://docs.tx7.de/TT-BS3>

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Lizenz:

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Ein Betriebssystem (BS) verwaltet die Hardware eines Computers und teilt die Ressourcen zu. Bekannte Betriebssysteme für PCs und mobile Endgeräte sind (in chronologischer Reihenfolge):

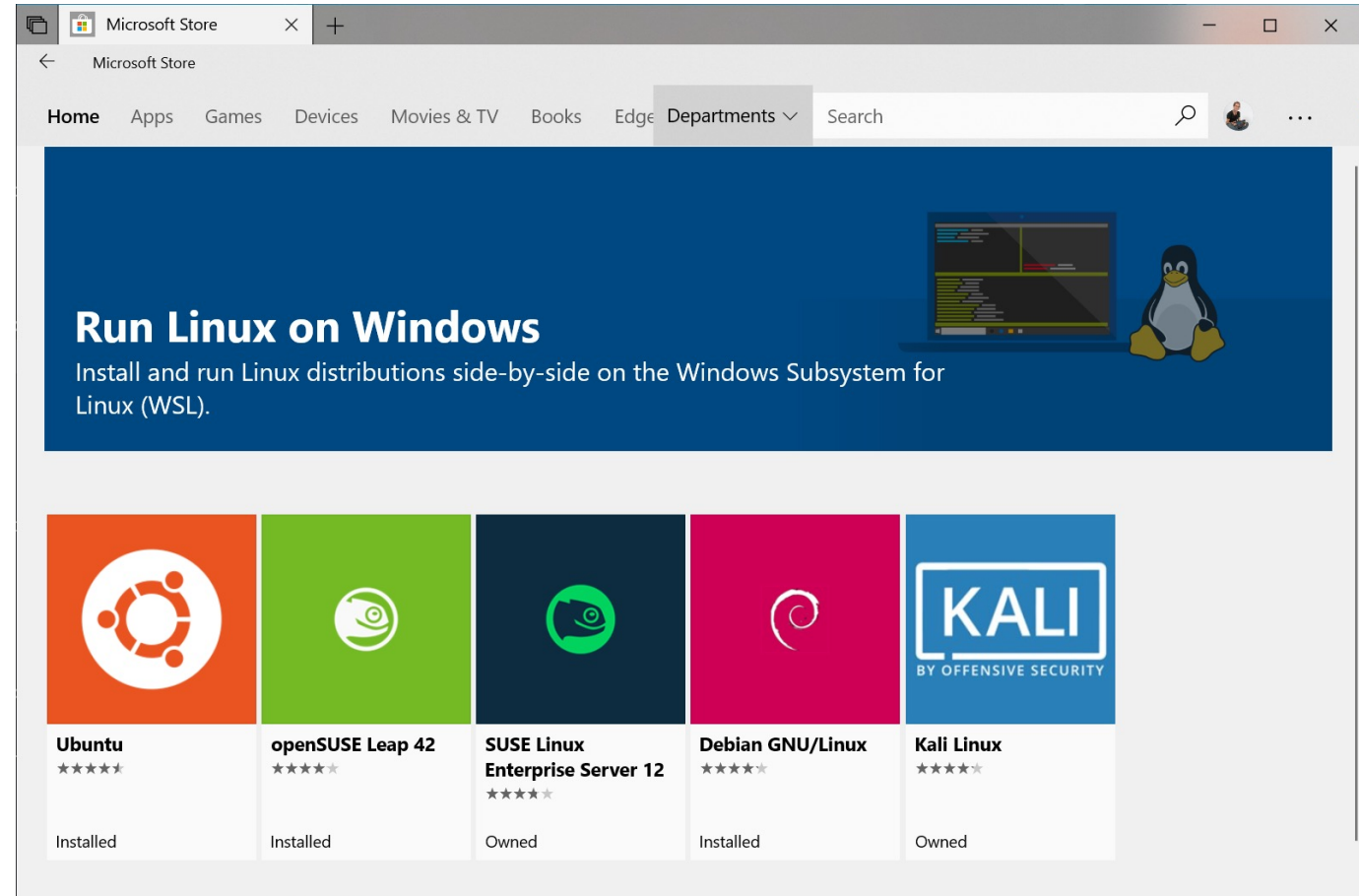
System	Jahr
UNIX	1971
DOS (Nachfolger von CP/M)	1974
Windows	1983
OS/2 Warp	1987
Linux	1991
MacOS	2001
iOS (vorher iPhone OS)	2007
Android	2008

System	2018	2023
Android	38,97 %	41,64 %
Windows	37,07 %	29,25 %
iOS	13,18 %	17,71 %
macOS	5,24 %	6,57 %
Linux	0,76 %	1,54 %
nicht identifizierte BS	2,72 %	1,93 %
andere BS	2,06 %	1,36 %



Das **Windows Subsystem for Linux**, kurz WSL, ist eine Erweiterung von Windows 10, um Linux innerhalb von Windows auszuführen.

WSL nutzt Virtualisierungstechniken der CPU.



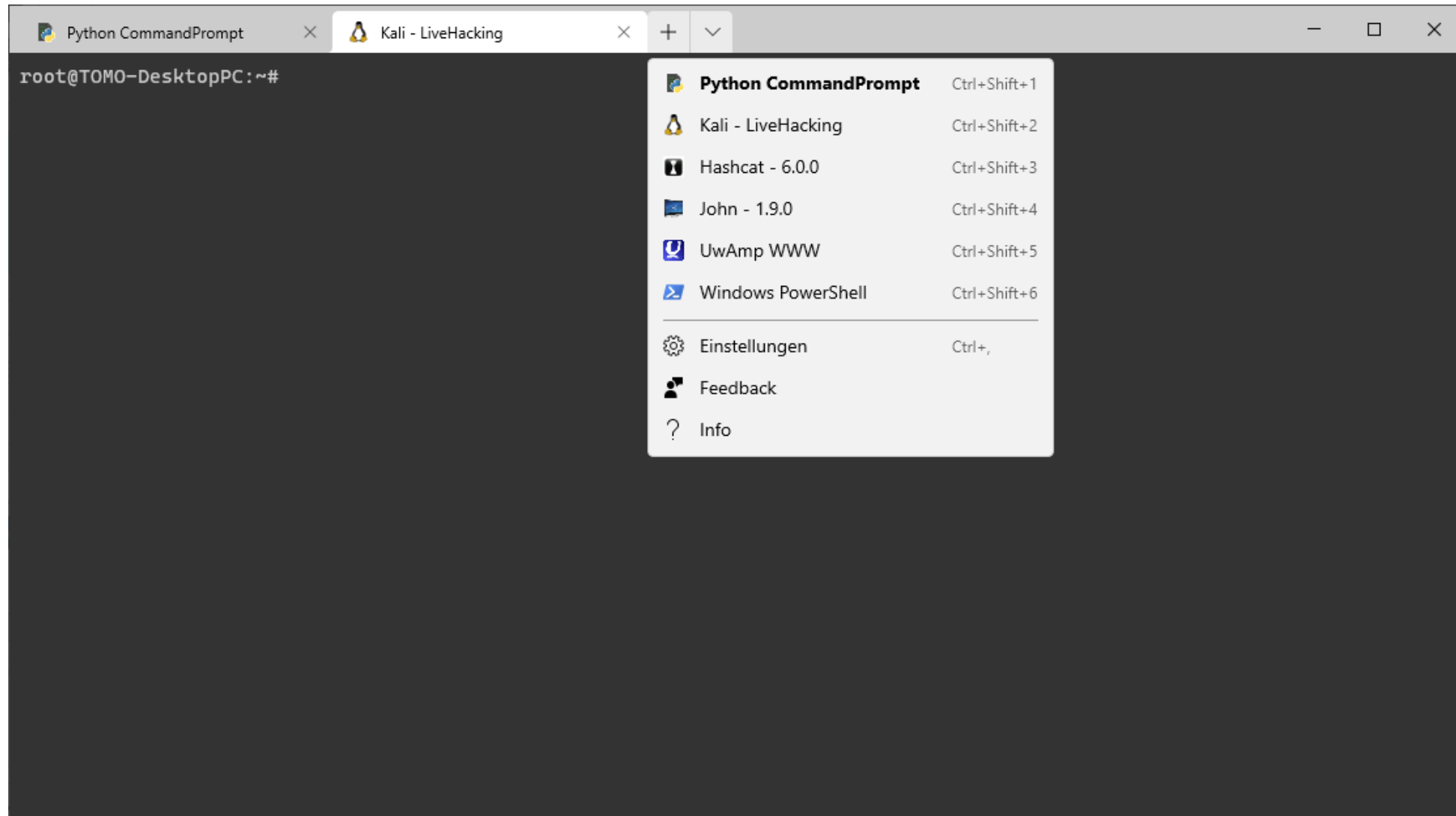


Betriebssysteme - WSL

```
tomo@TOMO-DesktopPC: ~  
Installing, this may take a few minutes...  
Please create a default UNIX user account. The username does not need to match your Windows username.  
For more information visit: https://aka.ms/wslusers  
Enter new UNIX username: tomo  
New password:  
Retype new password:  
passwd: password updated successfully  
Installation successful!  
(Message from Kali developers)  
  
This is a minimal installation of Kali Linux, you likely  
want to install supplementary tools. Learn how:  
📖 https://www.kali.org/docs/troubleshooting/common-minimum-setup/  
  
(Run "touch ~/.hushlogin" to hide this message)  
(tomo@TOMO-DesktopPC)-[~]  
$ _
```



Betriebssysteme - Windows Terminal





Betriebssysteme - Putty

Putty - einer der meistverwendeten SSH Clients unter Windows. Putty ist kostenlos.

```
tomo@TOMO-DesktopPC: ~  
login as: tomo  
tomo@172.24.92.77's password:  
Linux TOMO-DesktopPC 4.19.104-microsoft-standard #1 SMP Wed Feb 19 06:37:35 UTC  
2020 x86_64  
  
The programs included with the Kali GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
tomo@TOMO-DesktopPC:~$
```

PuTTY Configuration

Category: **Session**

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address) Port

Connection type:
☐ Raw ☐ Telnet ☐ Rlogin ☒ SSH ☐ Serial

Load, save or delete a stored session

Saved Sessions

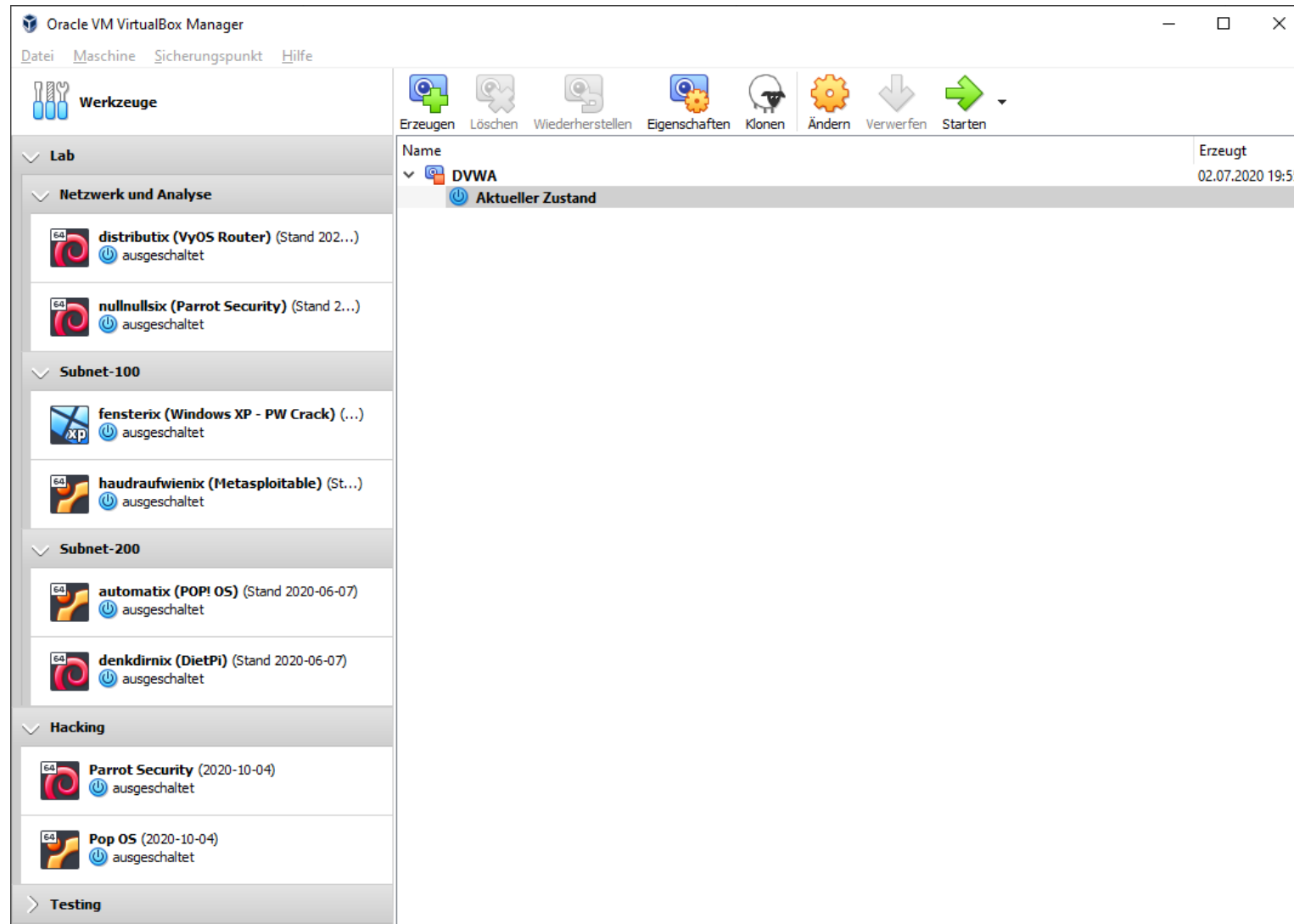
Default Settings
Kali Linux in VirtualBox
Raspi Initial (FritzBox)
Raspi Initial (Link Lokal)
TOMO-NAS
TOMO-PI-1-Bplus-01
TOMO-PI-1-Bplus-02

Close window on exit:
☐ Always ☐ Never ☒ Only on clean exit

Buttons: About Help Open Cancel

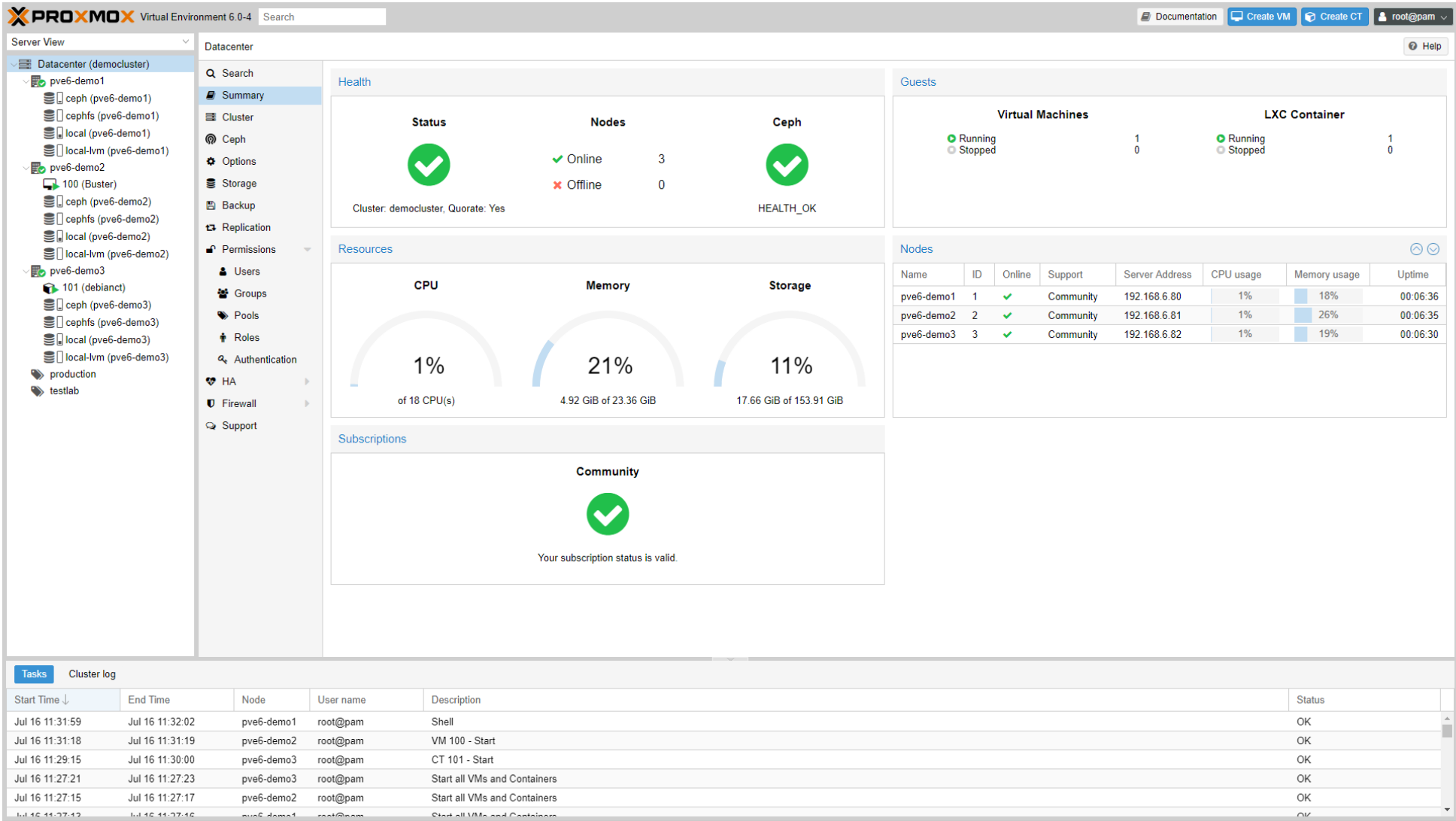


Betriebssysteme - VirtualBox



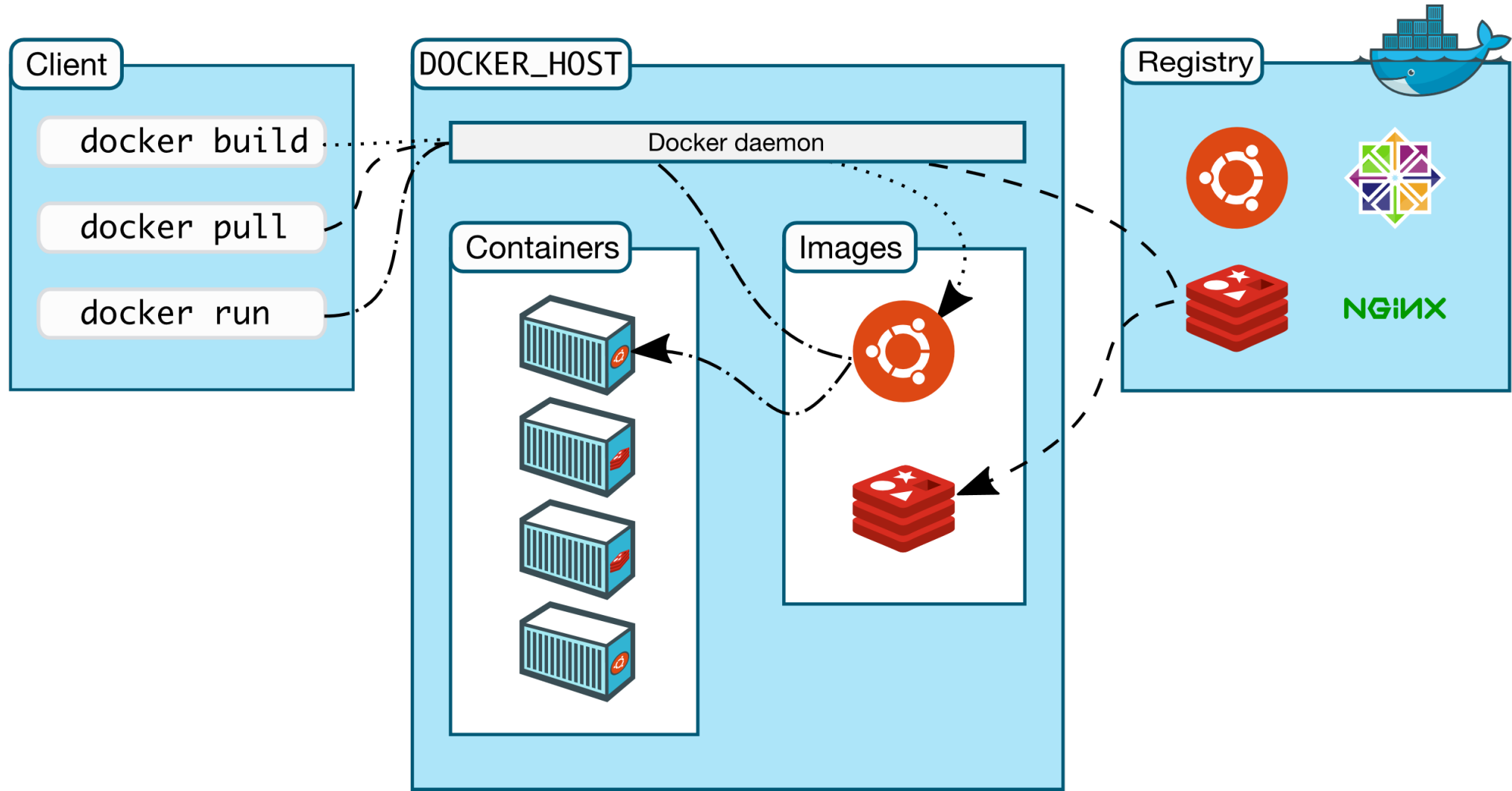


Betriebssysteme - Proxmox





Betriebssysteme - Docker





Betriebssysteme - Portainer

portainer.io

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Settings

A new version is available

portainer.io 2.11.0

Container list

Containers

Containers

Columns Settings

Start Stop Kill Restart Pause Resume Remove Add container

Search...

Name	State	Quick actions	Stack	Image	Created	IP Address	Published Ports	Ownership
portainer	running		-	portainer/portainer-ce:2.11.0	2021-12-10 21:31:45	172.17.0.3	8000:8000 9000:9000 9443:9443	administrators
portainer_agent	running		-	portainer/agent	2021-12-08 10:15:12	172.17.0.2	9001:9001	administrators

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Betriebssysteme - Kali-Linux



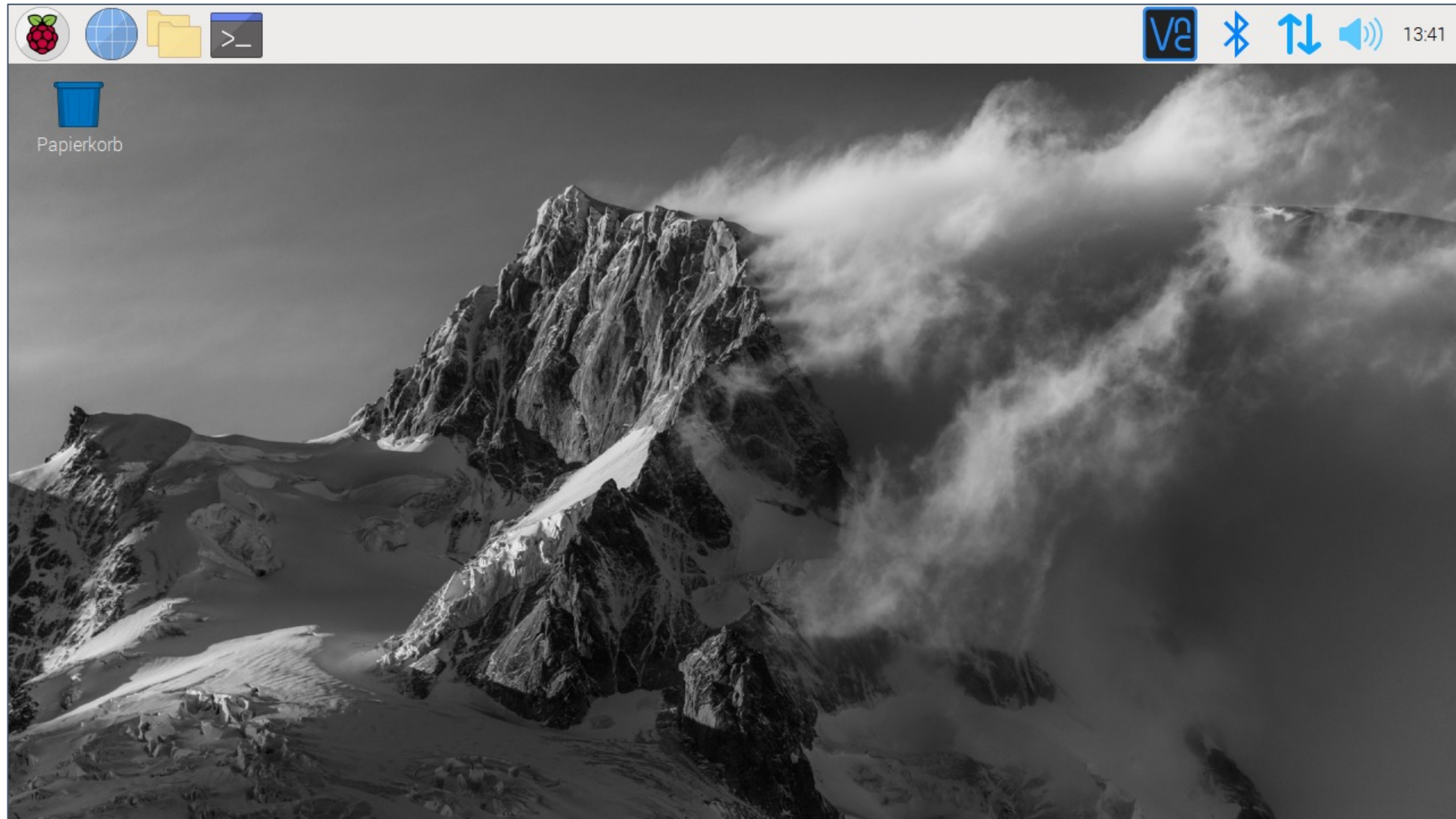


Betriebssysteme - Parrot Security



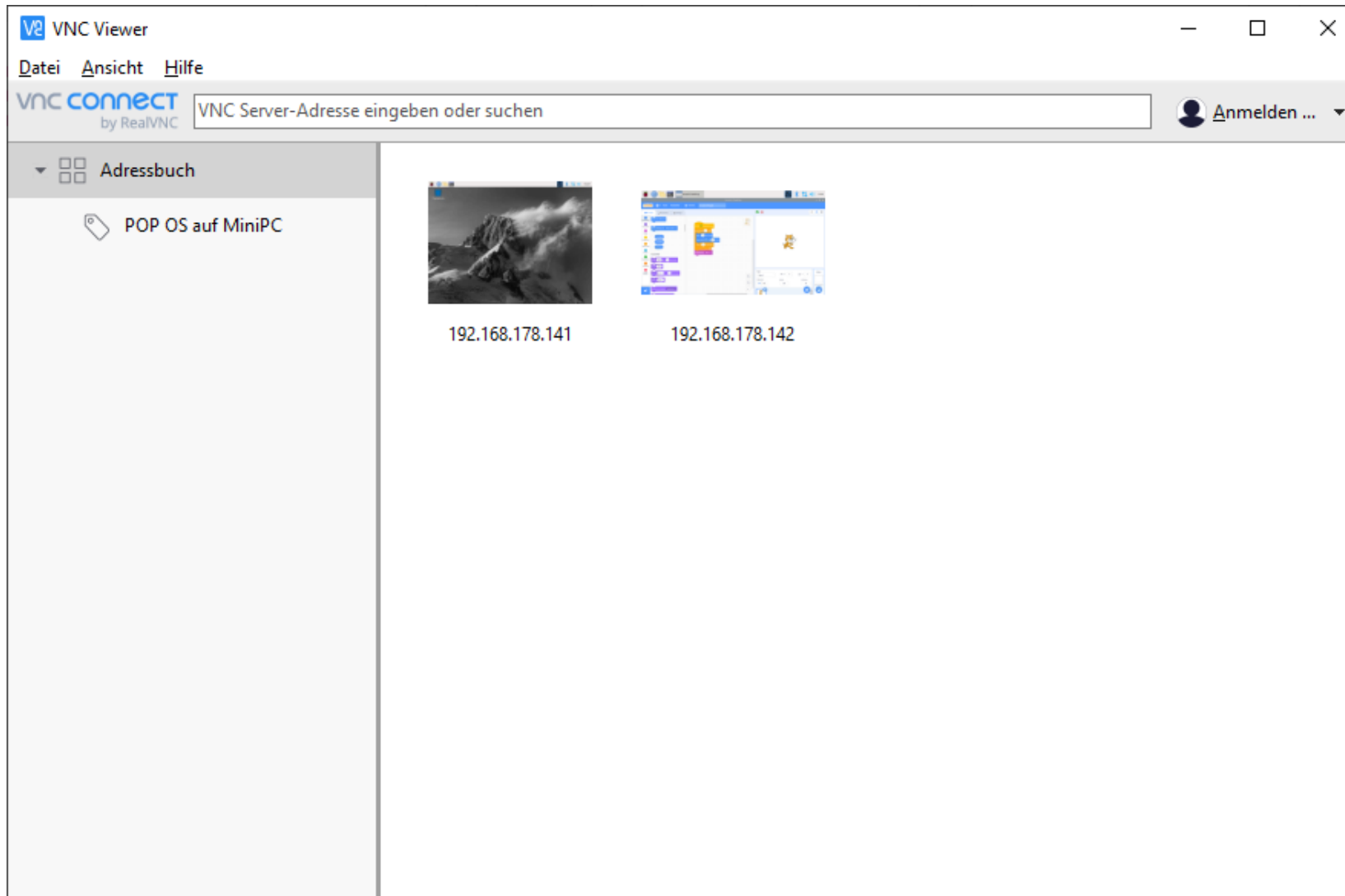


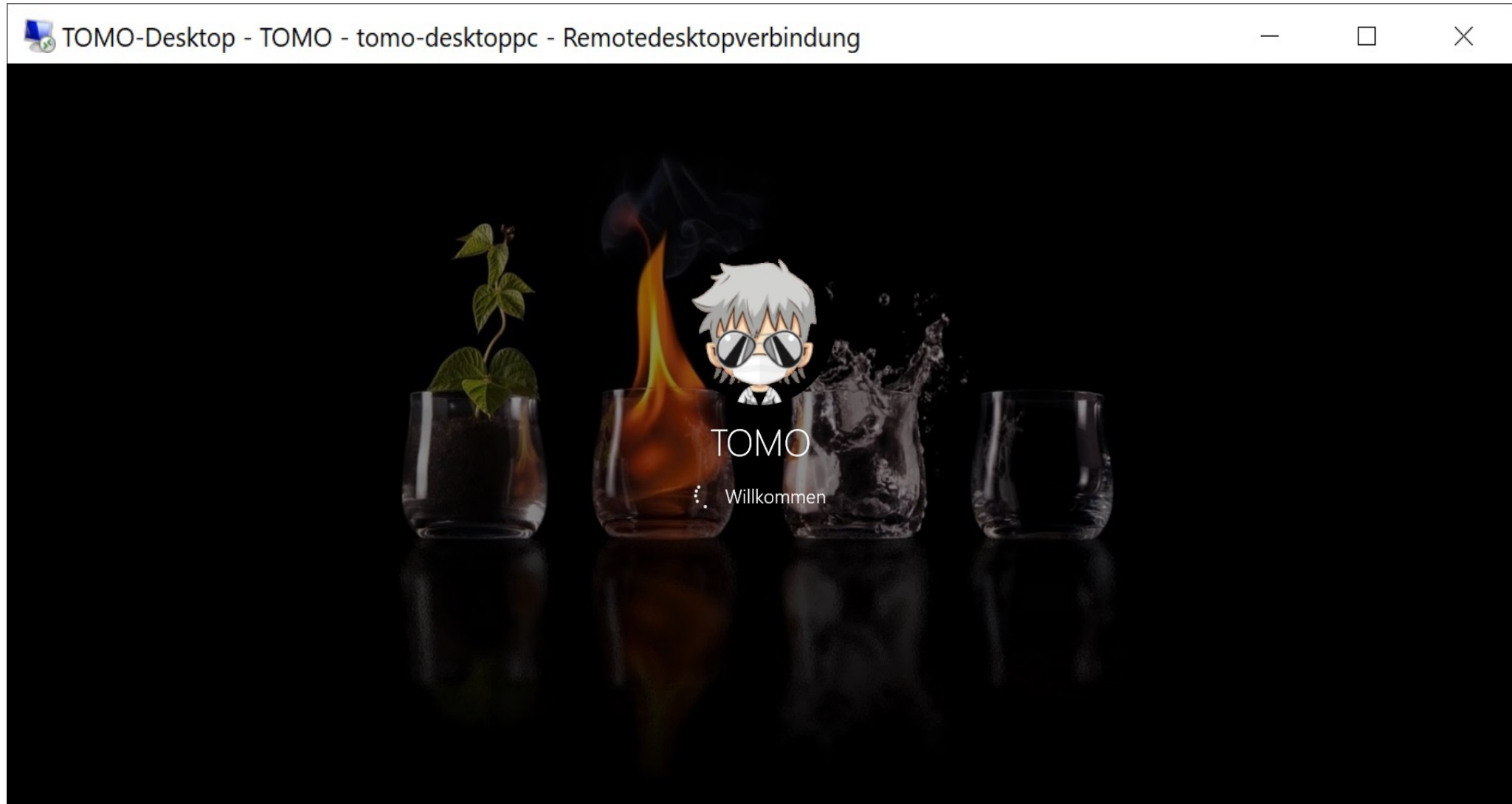
Betriebssysteme - Raspberry Pi OS





Betriebssysteme - VNC Viewer





Anmerkungen oder Fragen?