Betriebssysteme

Windows, macOS, Unix, Virtualisierung und Tools

Tom Gries



Dokumenten URL: http://docs.tx7.de/TT-BS3

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ß Allgemein

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

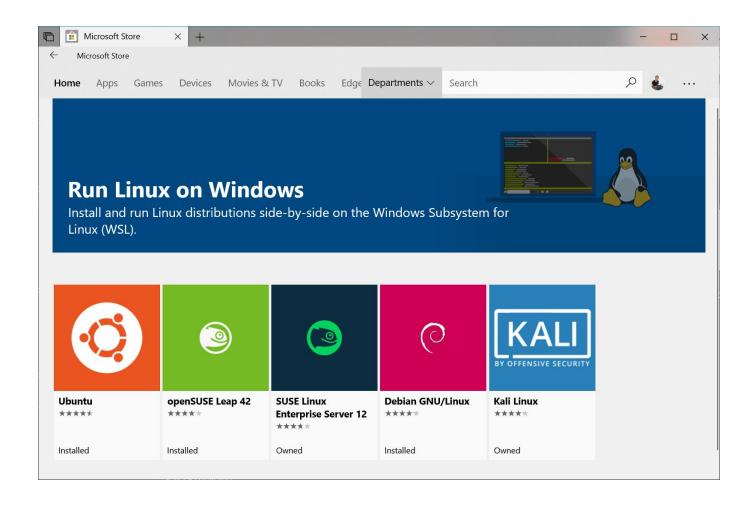
System	Jahr
UNIX	1971
DOS (Nachfolger von CP/M)	1974
Windows	1983
OS/2 Warp	1987
Linux	1991
MacOS	2001
iOS (vorher iPhone OS)	2007
Android	2008

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.



ske 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!
This is a minimal installation of Kali Linux, you likely
 want to install supplementary tools. Learn how:

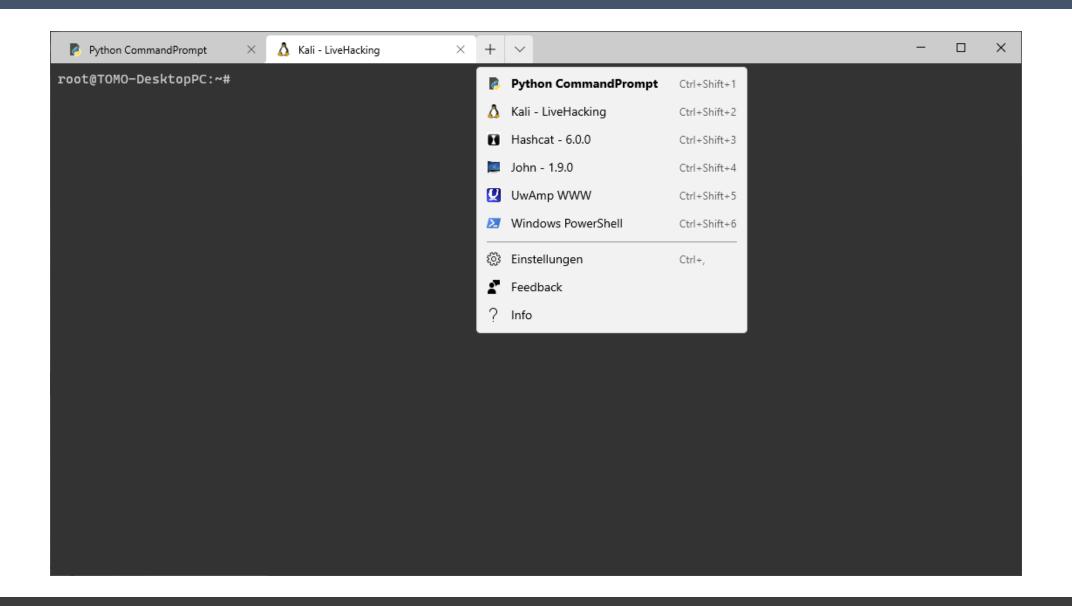
☑ https://www.kali.org/docs/troubleshooting/common-minimum-setup/

 (Run "touch ~/.hushlogin" to hide this message)
  -(tomo⊡ TOMO-DesktopPC)-[~]
```

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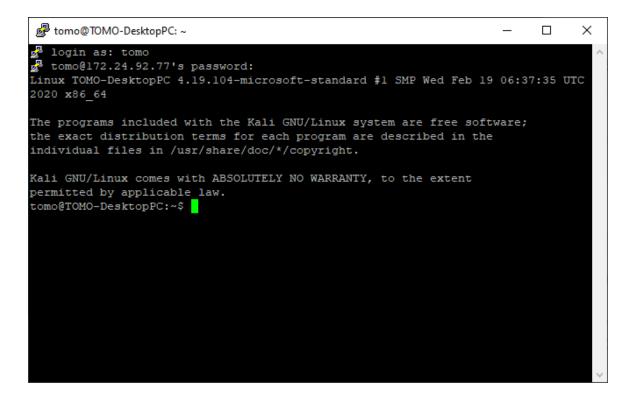


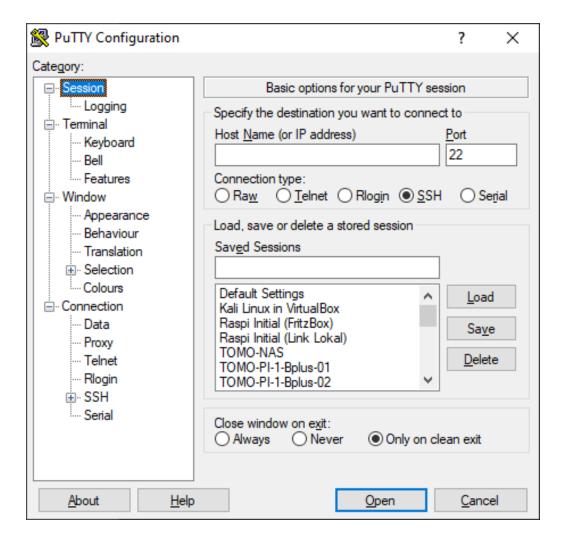
Windows Terminal



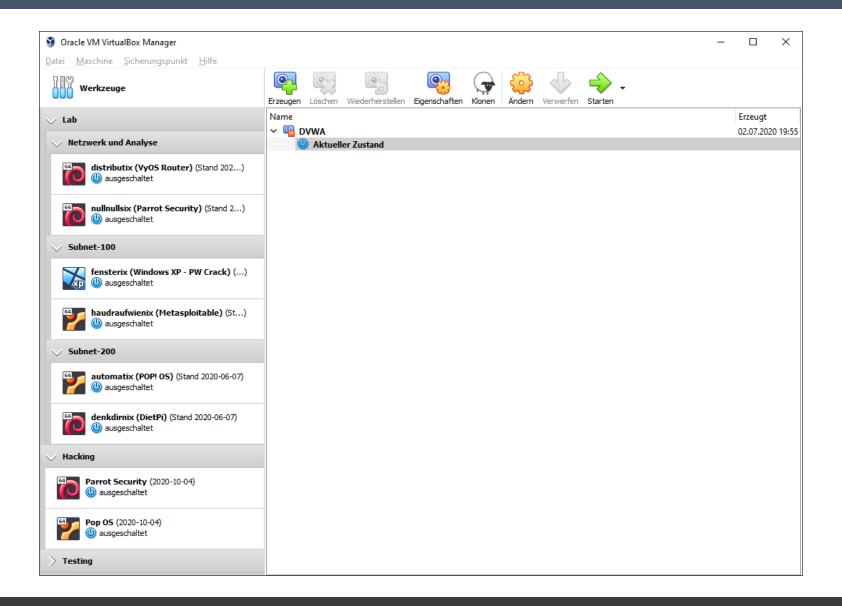


Putty war einer der meistverwendeten SSH Clients unter Windows. Putty ist kostenlos.



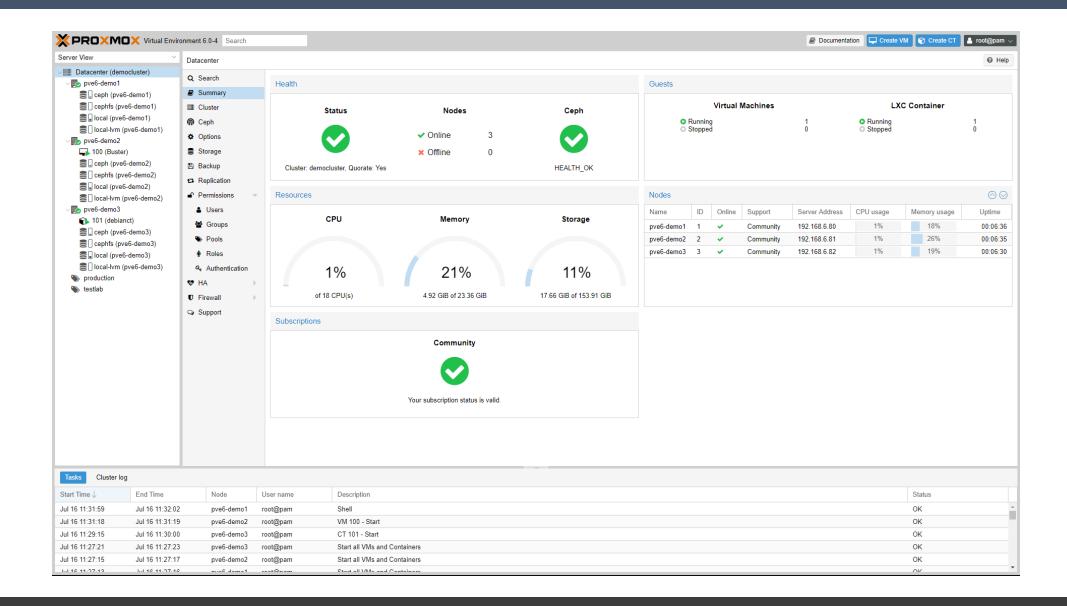


器 VirtualBox

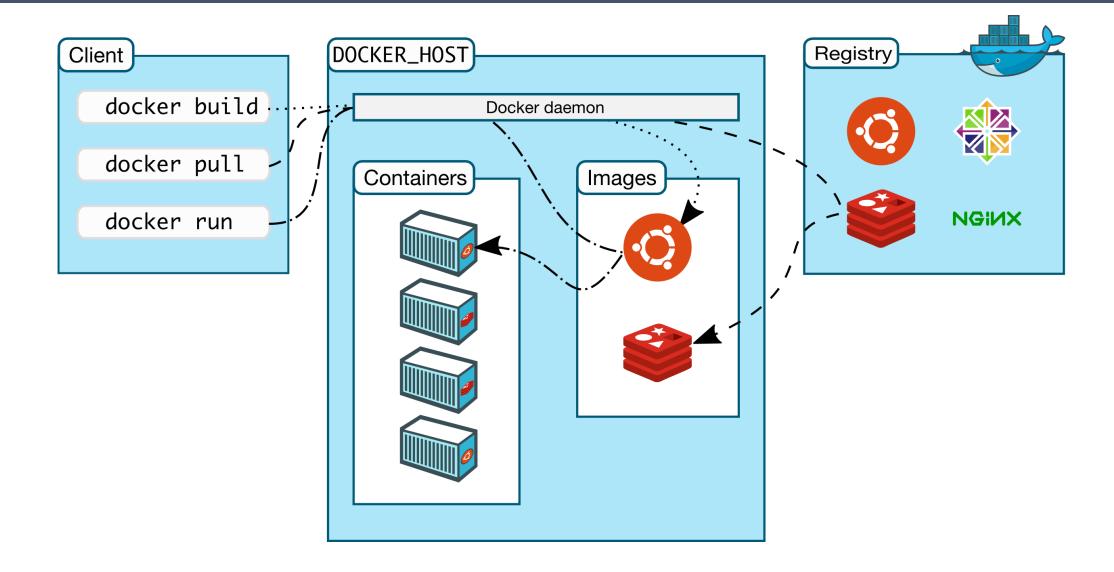


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Proxmox

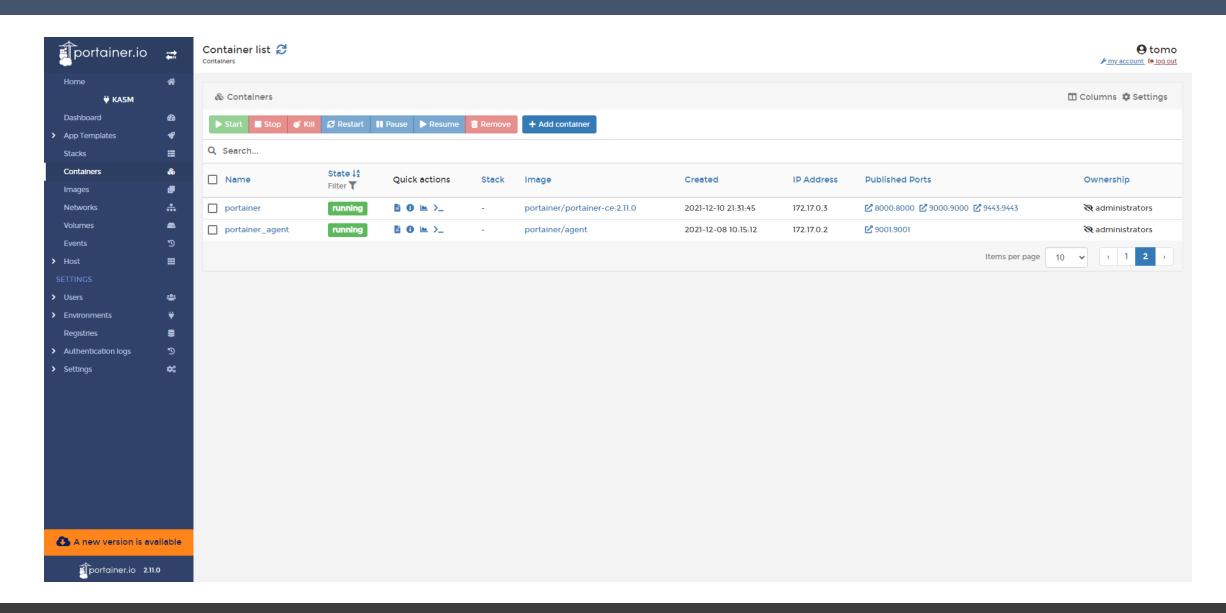


ß Docker



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Portainer



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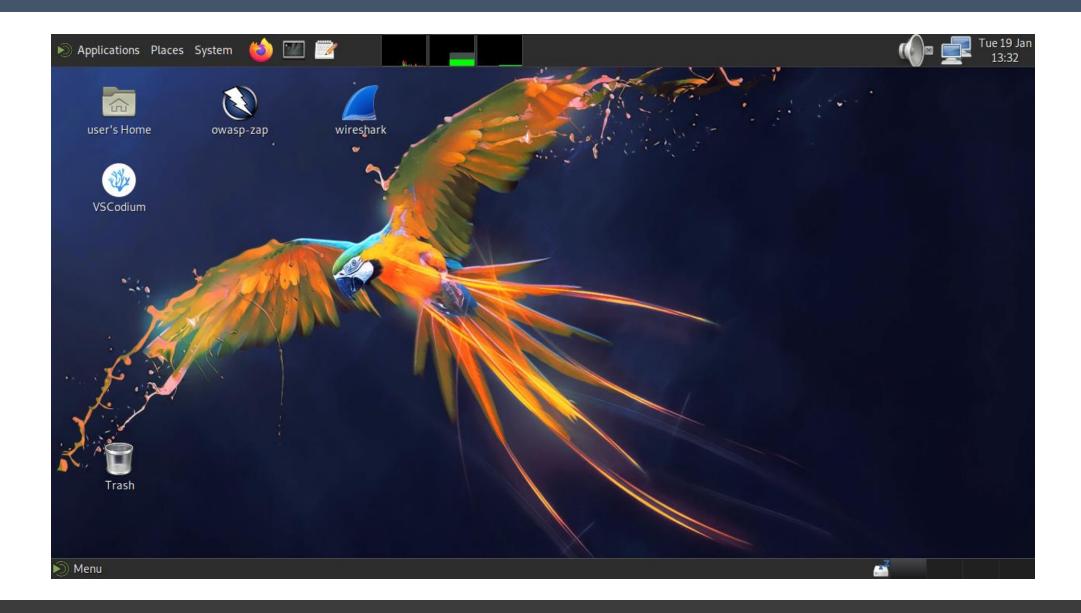
器 Kali-Linux



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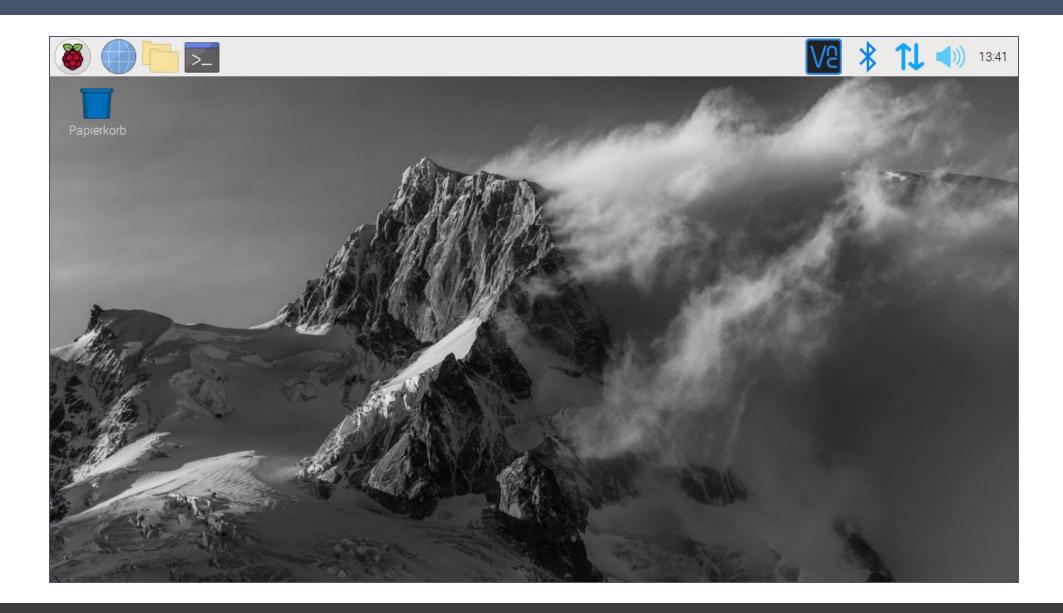
Parrot Security



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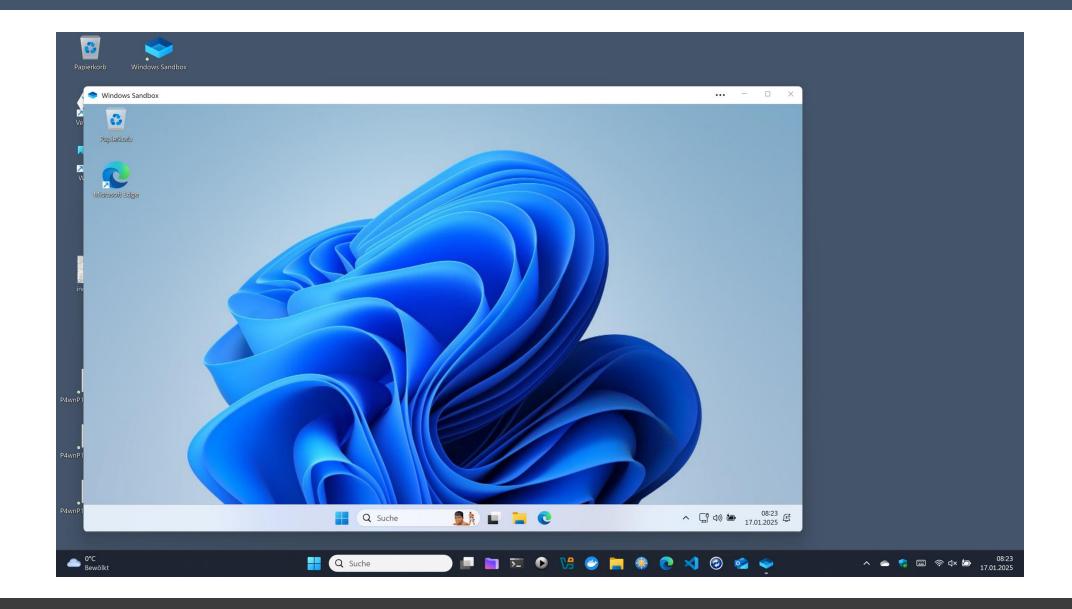
Raspberry Pi OS



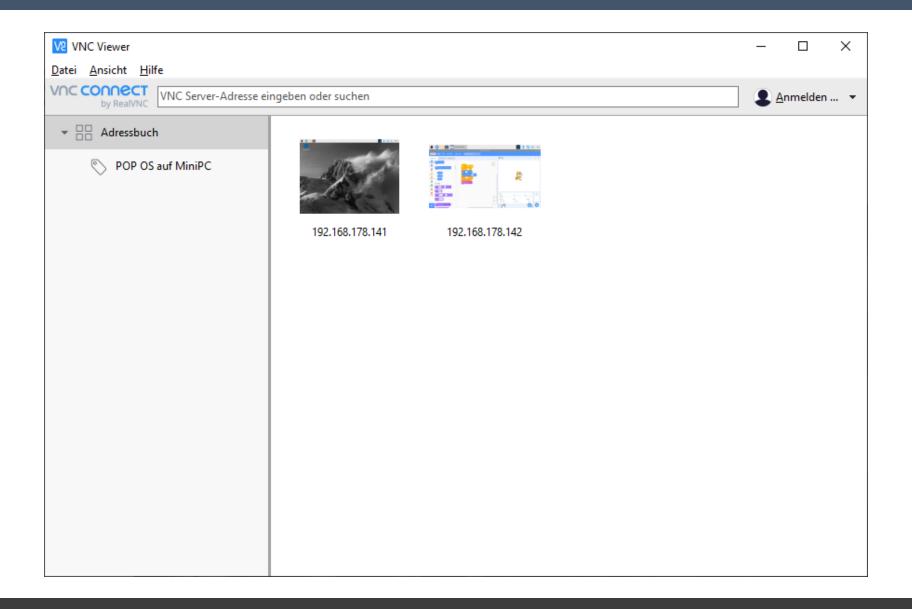
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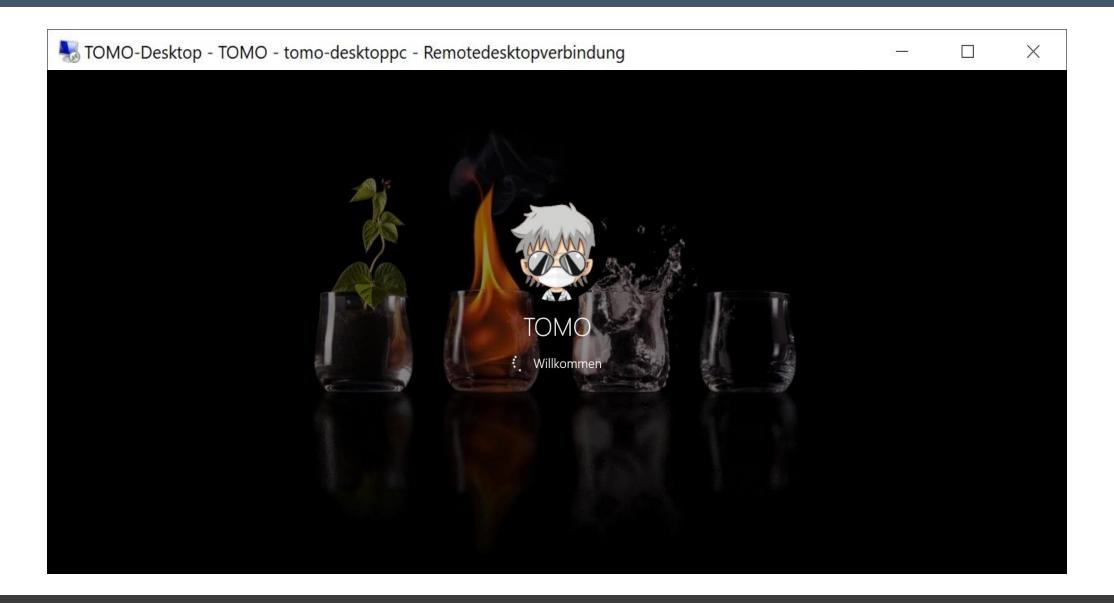
Windows Sandbox



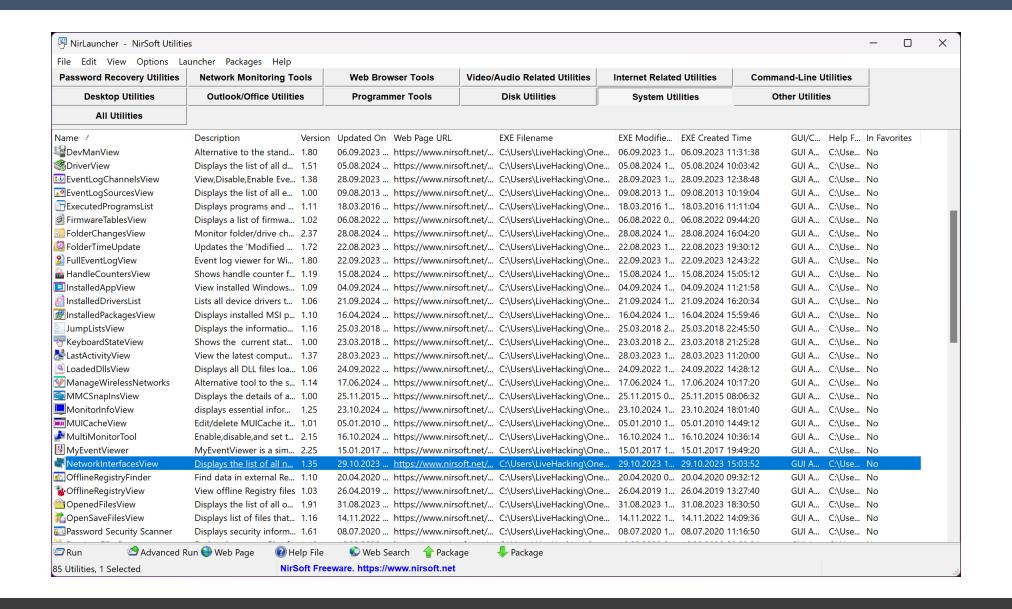
tage VNC Viewer



ska RDP

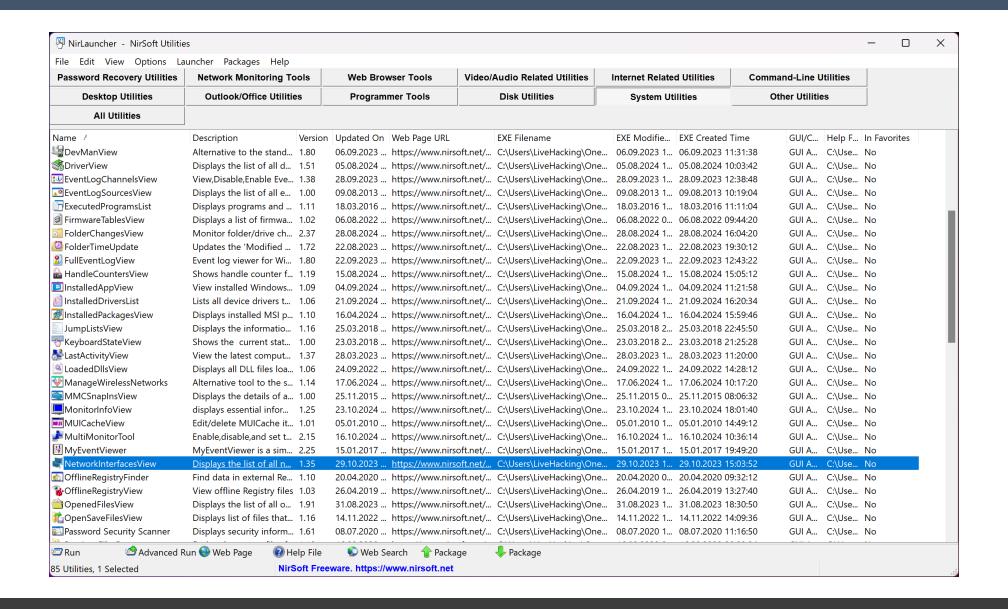


NirSoft und SysInternals



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NirSoft und SysInternals



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Anmerkungen oder Fragen?