## Docker Installieren

Da ich für opsi einen Docker Container nutzen möchte, installiere ich zuerst Docker. Dazu muss ich zuerst Docker dem apt hinzufügen.

apt-get update

apt-get install ca-certificates curl

install -m 0755 -d /etc/apt/keyrings

curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc sudo chmod a+r /etc/apt/keyrings/docker.asc echo \

"deb [arch=\$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \

\$(. /etc/os-release && echo "\${UBUNTU\_CODENAME:-\$VERSION\_CODENAME}") stable" | \ tee /etc/apt/sources.list.d/docker.list > /dev/null

apt-get update

```
root@Yukikaze:-# apt-get update
apt-get install carcertificates curl
install = m 0755 - d /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
sudo chmod atr /etc/apt/keyrings/docker.asc
echo \
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \
$(. /etc/os-release && echo "$(UBUNTU_CODENAME:-$VERSION_CODENAME]") stable" | \
tee /etc/apt/sources.list.d/docker.list > /dev/null
apt-get update
Hit:1 http://archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://archive.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Reading package lists... Done
Reading state information... Done
Reading state information... Done
Ca-certificates is already the newest version (20240203-22.04.1).
curl is already the newest version (7.81.0-1ubuntu1.20).
0 upgraded, 0 newly installed, 0 to remove and 5 not upgraded.
Hit:1 http://archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:2 http://archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://archive.ubuntu.com/ubuntu jammy-security InRelease
Get:4 https://download.docker.com/linux/ubuntu jammy/stable amd64 Packages [48.8 kB]
Fetched 97.6 kB in 1s (191 kB/s)
Reading package lists... Done
root8Yukikaze:-#
```

## Docker selbst installieren

apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

```
root@Yukikaze:-f apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Read to get state information... Read path information... Read path information... Read pat
```

Nun teste ich, ob Docker einwandfrei läuft, dazu versuche ich Alpine zu starten docker run --rm -it alpine

```
root@Yukikare...f docker run --tm -it elpine
troot@Yukikare...f docker run --tm -it elpine
troot.
trook ind image 'splaneelatest' locally
latest: Pulling from library/lapine/latest'
lapine/latest'
lapi
```

Damit ich Alpine erfolgreich installieren kann, muss ich noch die Konfigurationsdatei des Containers ändern. Also füge ich der folgenden Datei auf dem Host folgendes hinzu und starte den Container neu /etc/pve/lxc/<ID>.conf

lxc.cgroup.devices.allow: a lxc.cap.drop:

lxc.apparmor.profile: unconfined features: nesting=1,keyctl=1

```
GNU nano 7.2

arch: amd64

cores: 2

features: nesting=1,keyctl=1

hostname: Yukikaze

memory: 2048

nameserver: 192.168.2.7

net0: name=eth0,bridge=vmbr0,firewall=1,hwaddr=BC:24:11:F2:A4:7D,ip=dhcp,ip6=dhcp,type=veth

ostype: ubuntu

rootfs: local:101/vm-101-disk-1.raw,size=30G

searchdomain: sotoba.de

swap: 2048

lxc.cgroup.devices.allow: a

lxc.cap.drop:
lxc.apparmor.profile: unconfined
```

Nach dem Neustart des Containers kann ich nun Alpine ausführen

```
root@Yukikaze:~# docker run --rm -it alpine
Unable to find image 'alpine:latest' locally
latest: Pulling from library/alpine
f18232174bc9: Pull complete
Digest: sha256:a8560b36e8b8210634f77d9f7f9efd7ffa463e380b75e2e74aff4511df3ef88c
Status: Downloaded newer image for alpine:latest
/ #
```