

Kubernetes Installation

Manuelle Installation der Kubernetes-Binaries

Kernel-Module in die /etc/modules eintragen:

```
br_netfilter
overlay
```

Kernel-Module laden:

```
modprobe br_netfilter
modprobe overlay
```

System-Konfiguration anpassen (/etc/sysctl.conf):

```
net.ipv4.ip_forward=1
net.bridge.bridge-nf-call-iptables=1
net.bridge.bridge-nf-call-ip6tables=1
```

System-Konfiguration laden:

```
sysctl -p /etc/sysctl.conf
```

Docker-Repository-Schlüssel vertrauen:

```
apt install gpg
curl -fsSL https://download.docker.com/linux/debian/gpg | gpg --dearmor --
output /etc/apt/trusted.gpg.d/docker-keyring.gpg
```

Docker-Repository hinzufügen (/etc/apt/sources.list.d/docker.list):

```
deb https://download.docker.com/linux/debian/ bullseye stable
```

Repositories aktualisieren:

```
apt update
```

containerd installieren:

```
apt install 'containerd.io'
```

containerd-Standard-Konfiguration speichern: `<code bash> containerd config default > /etc/containerd/config.toml </code>`

containerd-Konfiguration /etc/containerd/config.toml anpassen:

```
[plugins."io.containerd.grpc.v1.cri".containerd.runtimes.runc.options]  
SystemdCgroup = true
```

Bei einer eigenen Registry muss dies noch zusätzlich als Mirror eingetragen werden.

```
[plugins."io.containerd.grpc.v1.cri".registry.mirrors."docker.io"]  
endpoint = ["https://registry.training.lab:5000"]
```

containerd neustarten:

```
systemctl restart containerd.service
```

/etc/crictl.yaml anpassen: `bash> runtime-endpoint: unix:/run/containerd/containerd.sock
image-endpoint: unix:/run/containerd/containerd.sock </code>`

Kubernetes-Repository-Schlüssel vertrauen:

```
wget -O /etc/apt/trusted.gpg.d/kubernetes-keyring.gpg  
https://packages.cloud.google.com/apt/doc/apt-key.gpg
```

Kubernetes-Repository hinzufügen (/etc/apt/sources.list.d/kubernetes.list):

```
deb https://apt.kubernetes.io/ kubernetes-xenial main
```

Repositories aktualisieren:

```
apt update
```

Kubernetes-Binaries installieren:

```
apt install kubeadm=1.25.4-00 kubectl=1.25.4-00 kubelet=1.25.4-00
```

Automatische Upgrades verhindern:

```
apt-mark hold kubeadm kubectl kubelet
```

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Last update: 2023/03/09 18:31

