

SINGLE NODE-, EDGE-, (AND HOMELAB) DEPLOYMENT



- ▶ K3s on a single node is good enough for your home-lab
- ▶ Multi-node K3s is probably enough for most use-cases!
- ▶ Use a systemd service unit to keep k3s running
- ▶ Use the K3s Ansible Playbook

```
..de/ansible/k3s-ansible +
cedi@mae ~/src/cedi/av0de/ansible/k3s-ansible master= ?1 ~1 zsh
bat roles/k3s/master/templates/k3s.service

File: roles/k3s/master/templates/k3s.service
1 [Unit]
2 Description=Lightweight Kubernetes
3 Documentation=https://k3s.io
4 After=network-online.target
5
6 [Service]
7 Type=notify
8 ExecStartPre=/sbin/modprobe br_netfilter
9 ExecStartPre=/sbin/modprobe overlay
10 ExecStart=/usr/local/bin/k3s server --data-dir /var/lib/rancher/k3s --flannel-backend=none --disable-network-policy --disable-traefik
11 KillMode=process
12 Delegate=yes
13 # Having non-zero Limit*s causes performance problems due to accounting overhead
14 # in the kernel. We recommend using cgroups to do container-local accounting.
15 LimitNOFILE=1048576
16 LimitNPROC=infinity
17 LimitCORE=infinity
18 TasksMax=infinity
19 TimeoutStartSec=0
20 Restart=always
21 RestartSec=5s
22
23 [Install]
24 WantedBy=multi-user.target
```

IF YOU REALLY WANT TO GO ALL THE WAY

- ▶ Use the Cluster API
 - ▶ Declarative Management isn't just nice for workload but for entire clusters too
- ▶ Read the documentation of clustermgr
- ▶ Since most of you deploy to hetzner anyway
 - ▶ [ccl.pw/cluster-api-hetzner](https://ccl.pw.cluster-api-hetzner)
- ▶ This isn't gonna be easy! But we warned you :)

