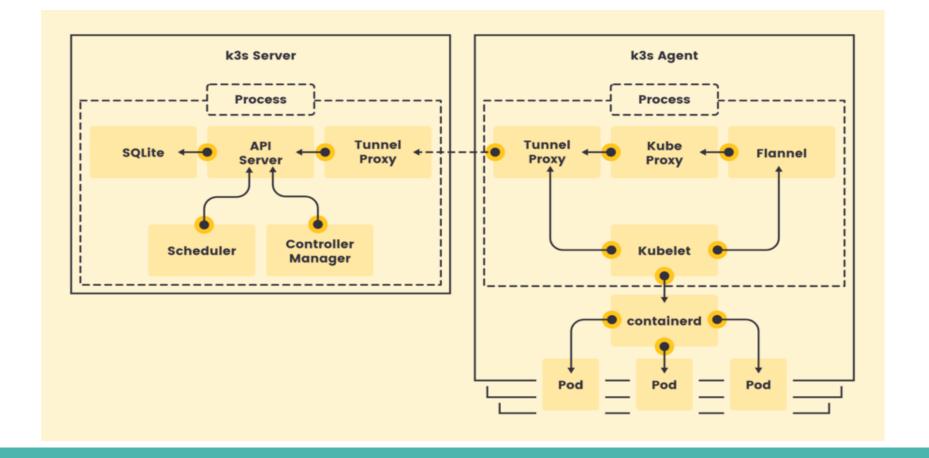
k3s – Lightweight Kubernetes

Architecture



K3s - Lightweight Kubernetes

v0.0.1 Out of the Box

- Low Memory/CPU footprint
 - < 512 MB
 - k8s components in single binary
- Multi-Arch distribution
 - x86_64
 - Arm7
 - Arm8
- Ingress controller

- Remove dependency on docker
- Remove dependency on etcd
- Remove 3M lines
 - In-tree storage providers
 - In-tree cloud providers
 - Alpha features
 - Legacy and non-default features

K3s GA - Lightweight Kubernetes

v1.0.0 Out of the Box

- Low Memory/CPU footprint
 - < 512 MB</p>
 - k8s components in single binary
- Multi-Arch distribution
 - · x86_64
 - Arm7
 - Arm8
- Ingress controller
- Helm Controller
- Service Load Balancer
- Local Storage Provider

- Expanded data store options
 - Embedded SQLite
 - External DB
 - 。 MySQL
 - PostgresQL
 - Embedded Dqlite
- Air-gap installation

K3s HA Requirements

- Unique Hostnames
 - --node-name
 - \$K3S_NODE_NAME
- Linux (tested on)
 - Ubuntu 16.04 (amd64)
 - Ubuntu 18.04 (amd64)
 - Raspbian Buster (armhf)

K3s HA Requirements

(Continued)

Hardware

- RAM: 512MB Minimum
- CPU: 1 Minimum
- Disks SSD recommended

Networking

- 6443 (api server)
- 8472 (flannel)
- 10250 (metrics-api)

K3s HA – Separate Masters

Master nodes have data plane and control plane. Workers are independent.

