



KUBERNETES FUNDAMENTALS (LFS258)

SUPPORT

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KUBERNETES ARCHITECTURE

Kubernetes Architecture

Kubelet

The kubelet systemd process is the heavy lifter for changes and configuration on worker nodes. It accepts the API calls for Pod specifications (a PodSpec is a JSON or YAML file that describes a pod). It will work to configure the local node until the specification has been met.

Should a Pod require access to storage, Secrets or ConfigMaps, the kubelet will ensure access or creation. It also sends back status to the kube-apiserver for eventual persistence.

- Uses PodSpec
- Mounts volumes to Pod
- Downloads secrets
- Passes request to local container engine
- Reports status of Pods and node to cluster.

Kubelet calls other components such as the Topology Manager, which uses hints from other components to configure topology-aware resource NUMA assignments such as for CPU and hardware accelerators. As an alpha feature, it is not enabled by default.