



KUBERNETES FUNDAMENTALS (LFS258)

SUPPORT

SIGN OUT

KUBERNETES ARCHITECTURE

Kubernetes Architecture

Main Components

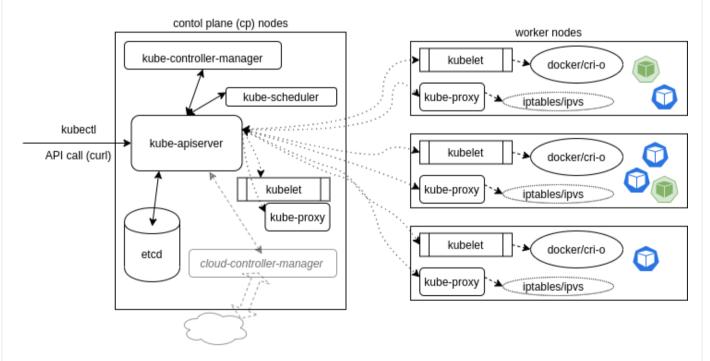
Kubernetes has the following main components:

- Control plane(s) and worker node(s)
- Operators
- Services
- Pods of containers
- Namespaces and quotas
- · Network and policies
- Storage.

A Kubernetes cluster is made of one or more cp node and a set of worker nodes. The cluster is all driven via API calls to operators. A network plugin helps handle both interior as well as exterior traffic. We will take a closer look at these components next.

Most of the processes are executed inside a container. There are some differences, depending on the vendor and the tool used to build the cluster.

When upgrading a cluster, be aware that each of these components are developed to work together by multiple teams. Care should be taken to ensure a proper match of versions. The kubeadm **upgrade plan** command is useful to discover this information.



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