Kubernetes Installation

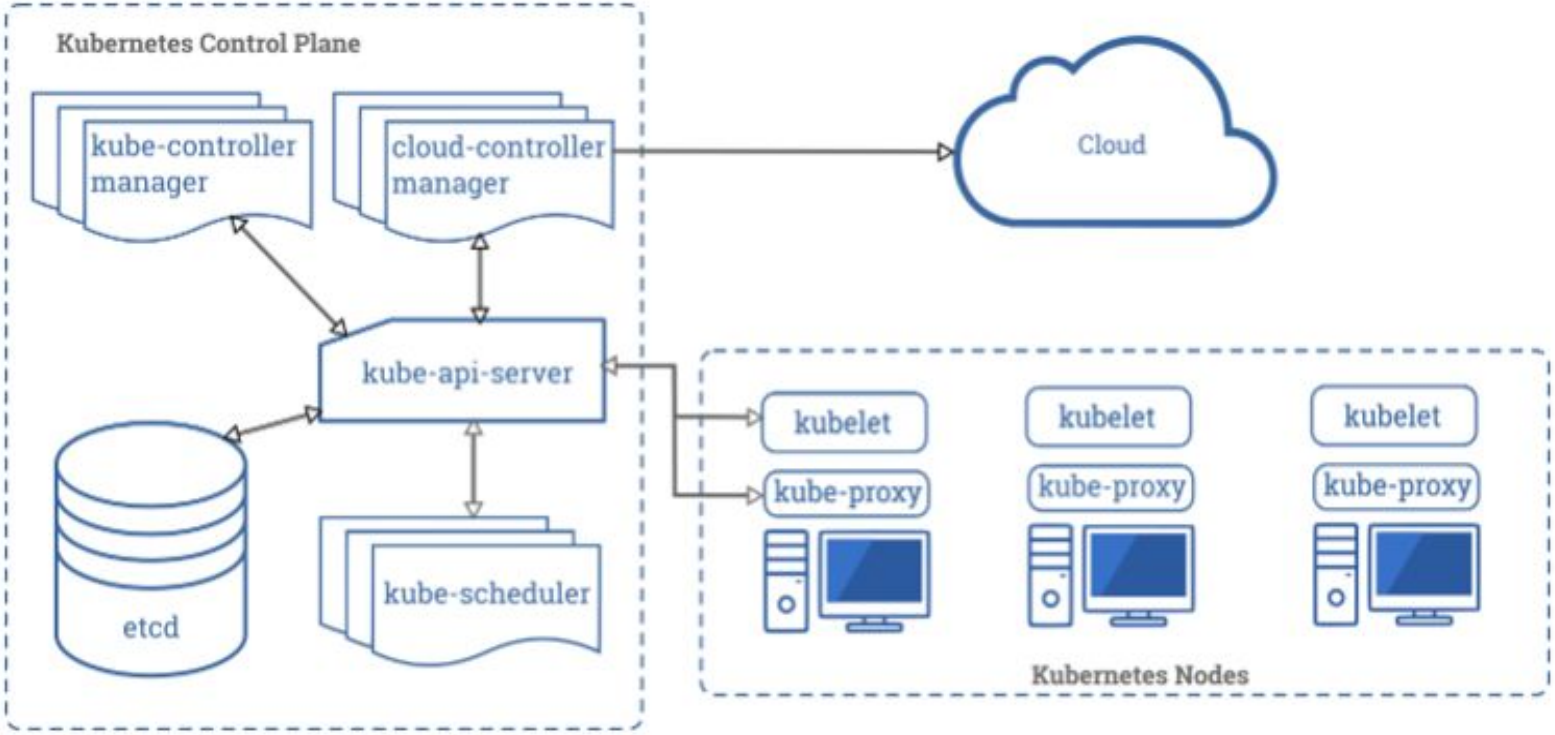
Kubernetes Installation

minikube

kubeadm

Google Cloud

Control Plane Components



Networking

flannel

cilium

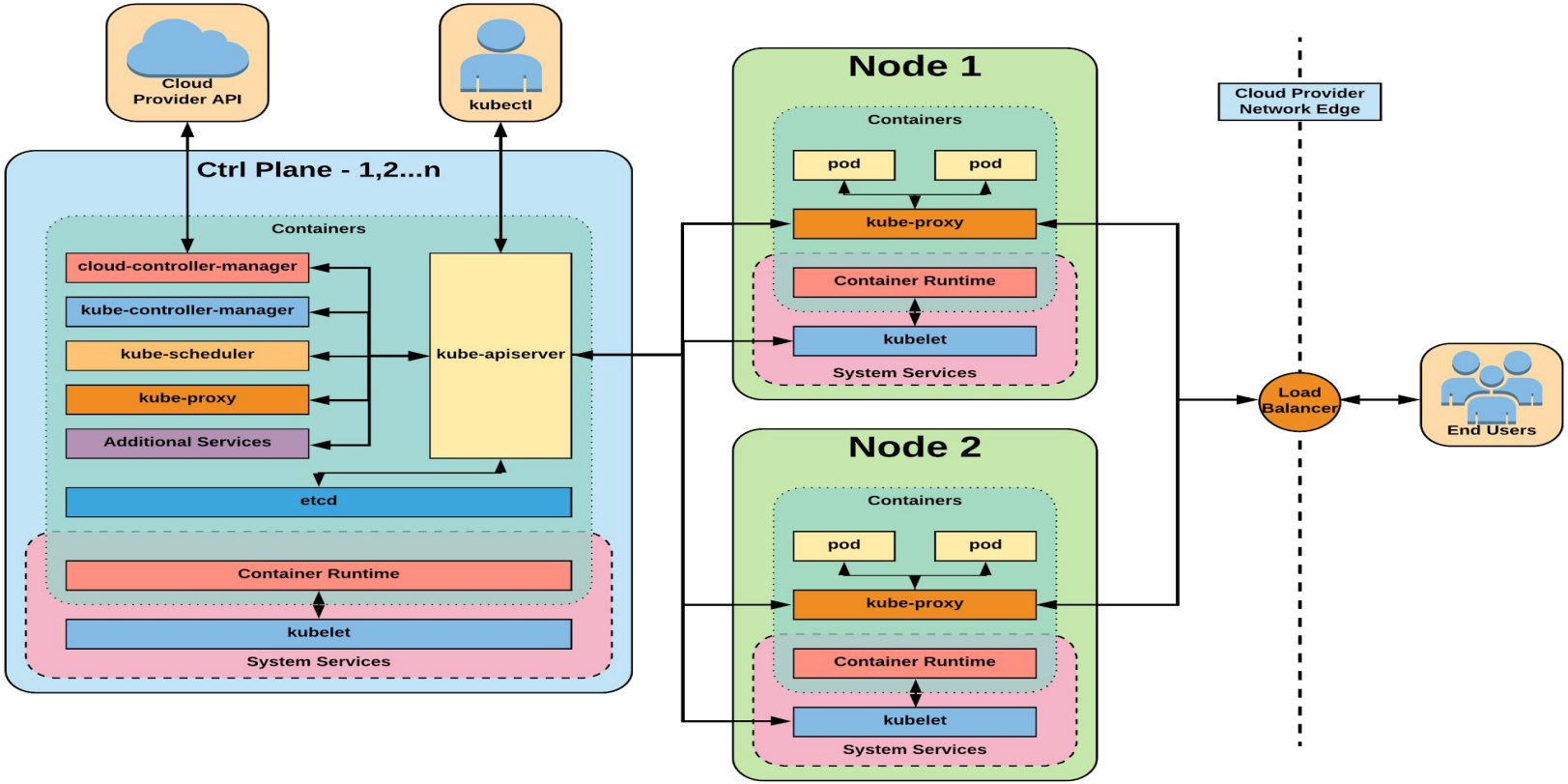
vmware NSX

When a kubernetes cluster is setup, kubernetes does not automatically setup any kind of networking to handle network issues.

Networking

PROJECT CALICO

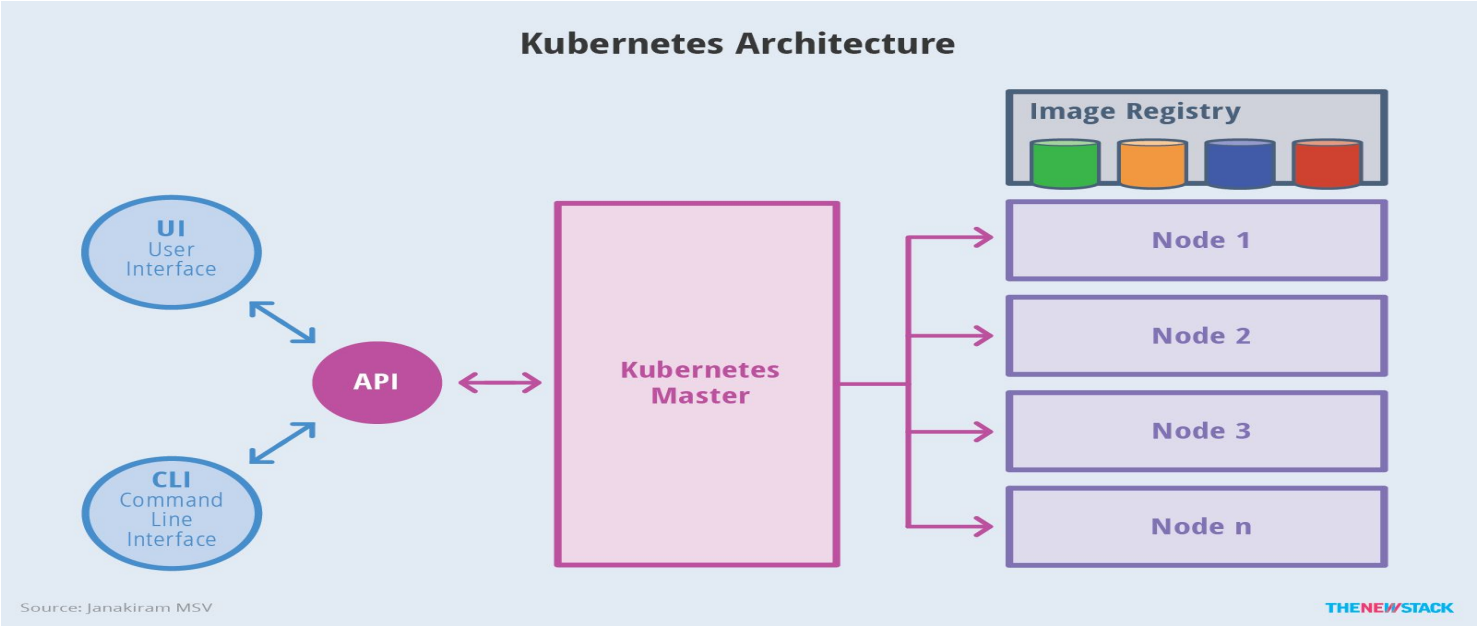
Calico is an open source networking and network security solution for containers, virtual machines, and native host-based workloads.


Cloud Provider API
kubectl
Ctrl Plane - 1,2...n
Containers
cloud-controller-manager
kube-controller-manager
kube-scheduler
kube-proxy
Additional Services
kube-apiserver
etcd
Container Runtime
kubelet
System Services
Node 1
Containers
pod
pod
kube-proxy
Container Runtime
kubelet
System Services
Node 2
Containers
pod
pod
kube-proxy
Container Runtime
kubelet
System Services
Cloud Provider Network Edge
Load Balancer
End Users

Kubernetes Components

Kubernetes has the following main components:

- One or more master nodes
- One or more worker nodes.



THANKS!

Any questions?

You can find me at:

- james@clarusway.com