Ingress Setup

Client

Client Requests for

services in Kubernetes are exposed with ingress controllers for safety and security. They also allow for multiple services to be exposed on one ingress controller

K8s
infrastructure

**Control Plane Nodes**

Suzaku
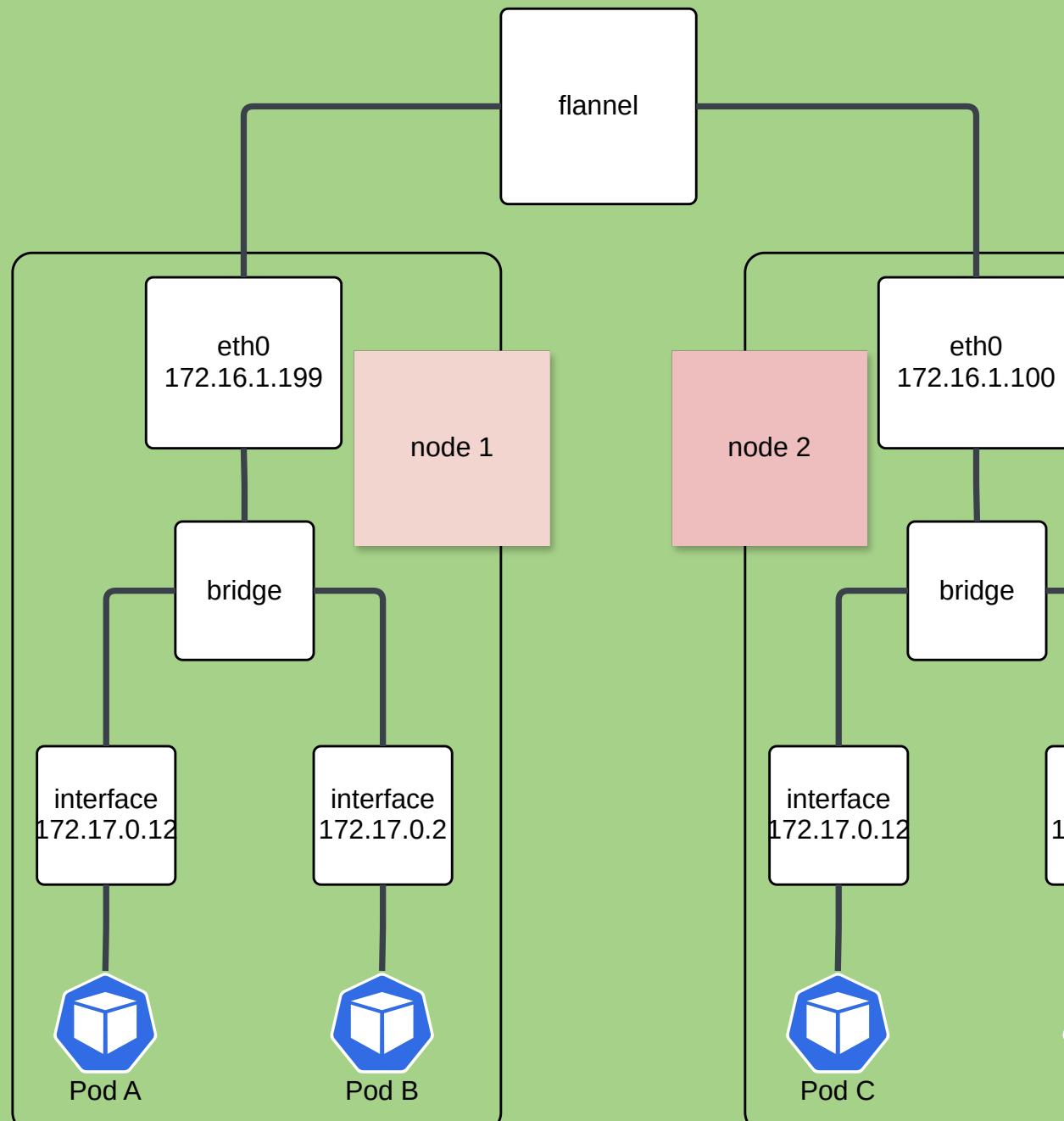
Amun
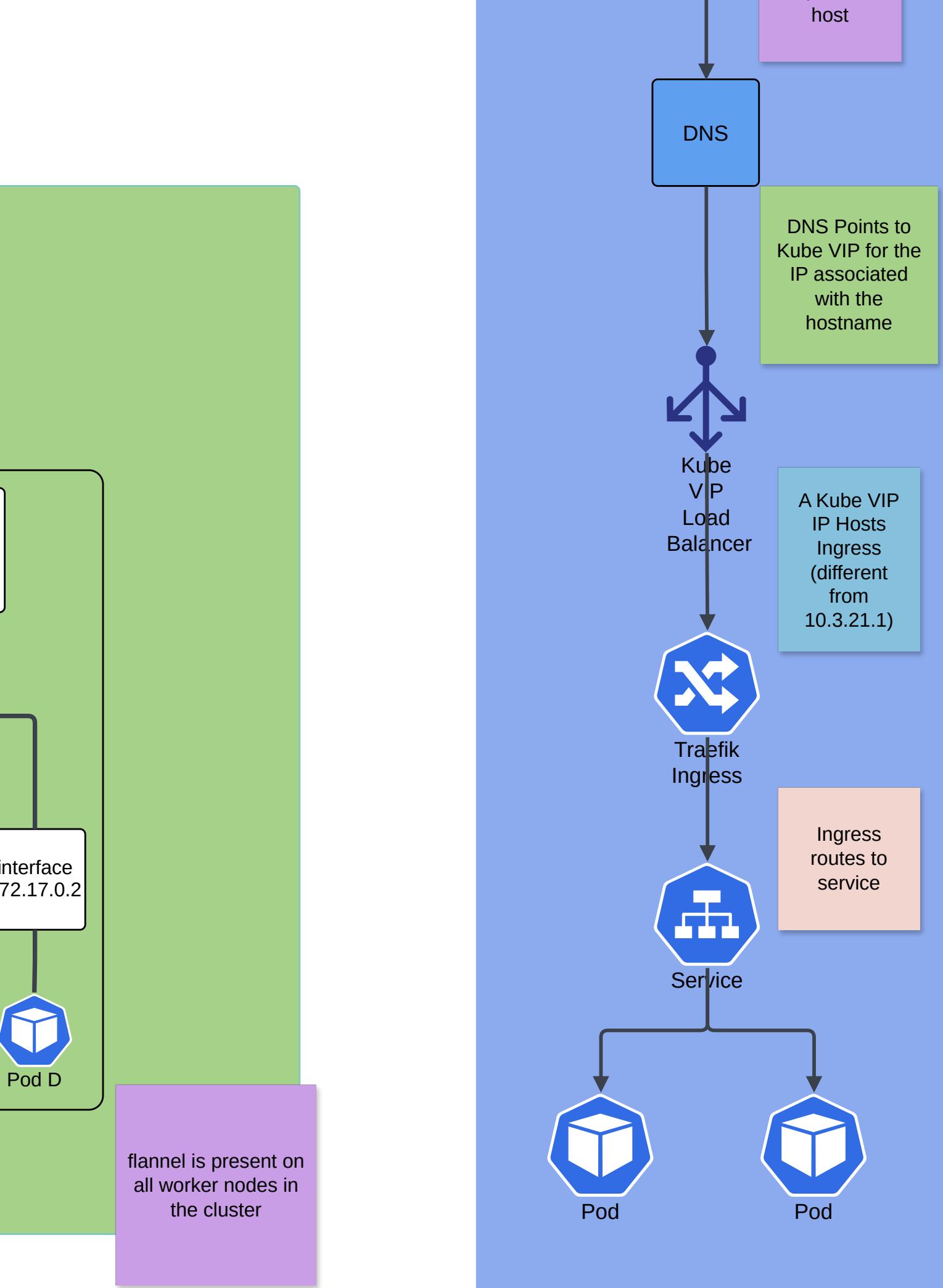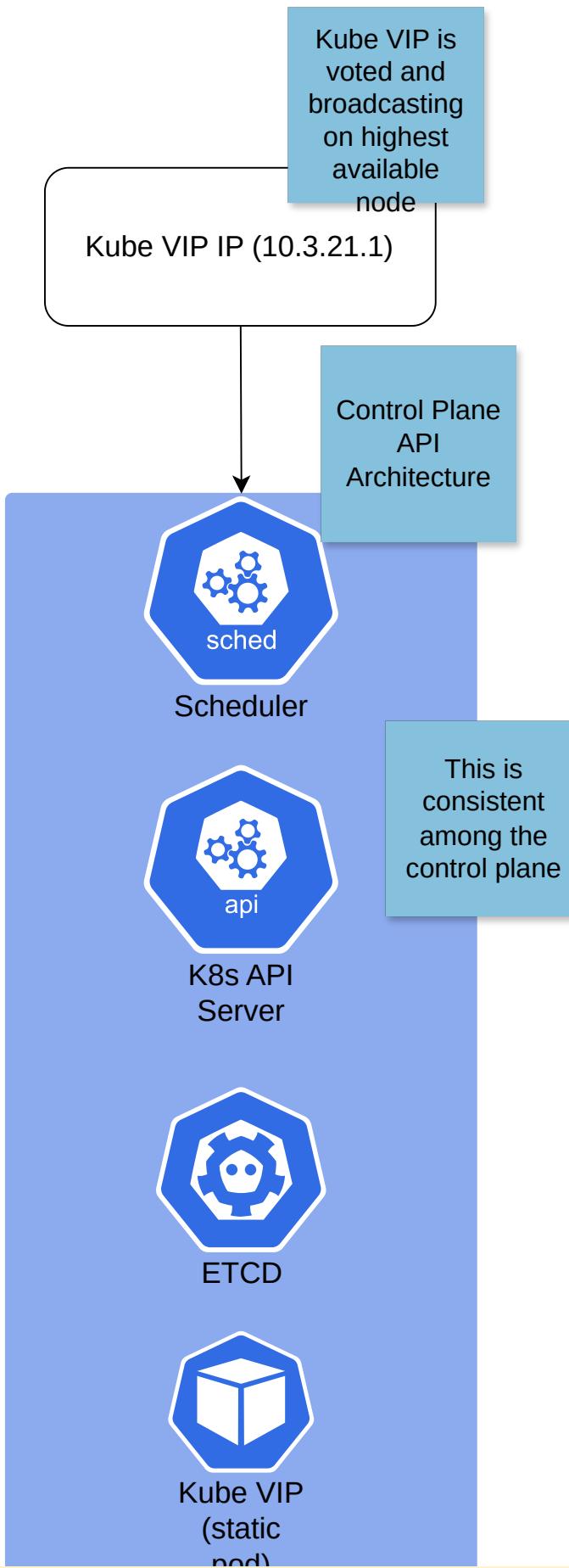
Cyberman
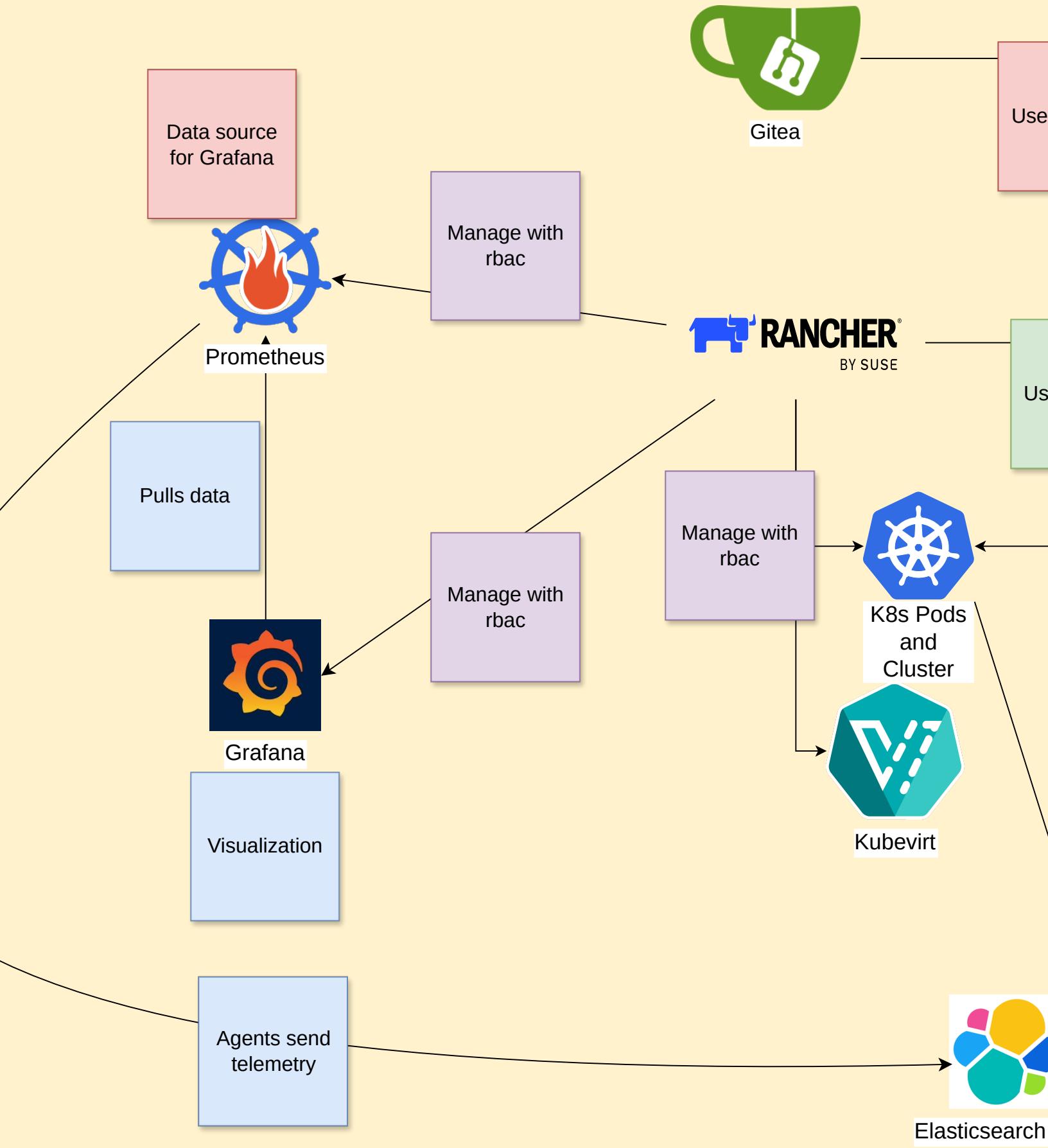
All control nodes are currently also worker and etcd nodes
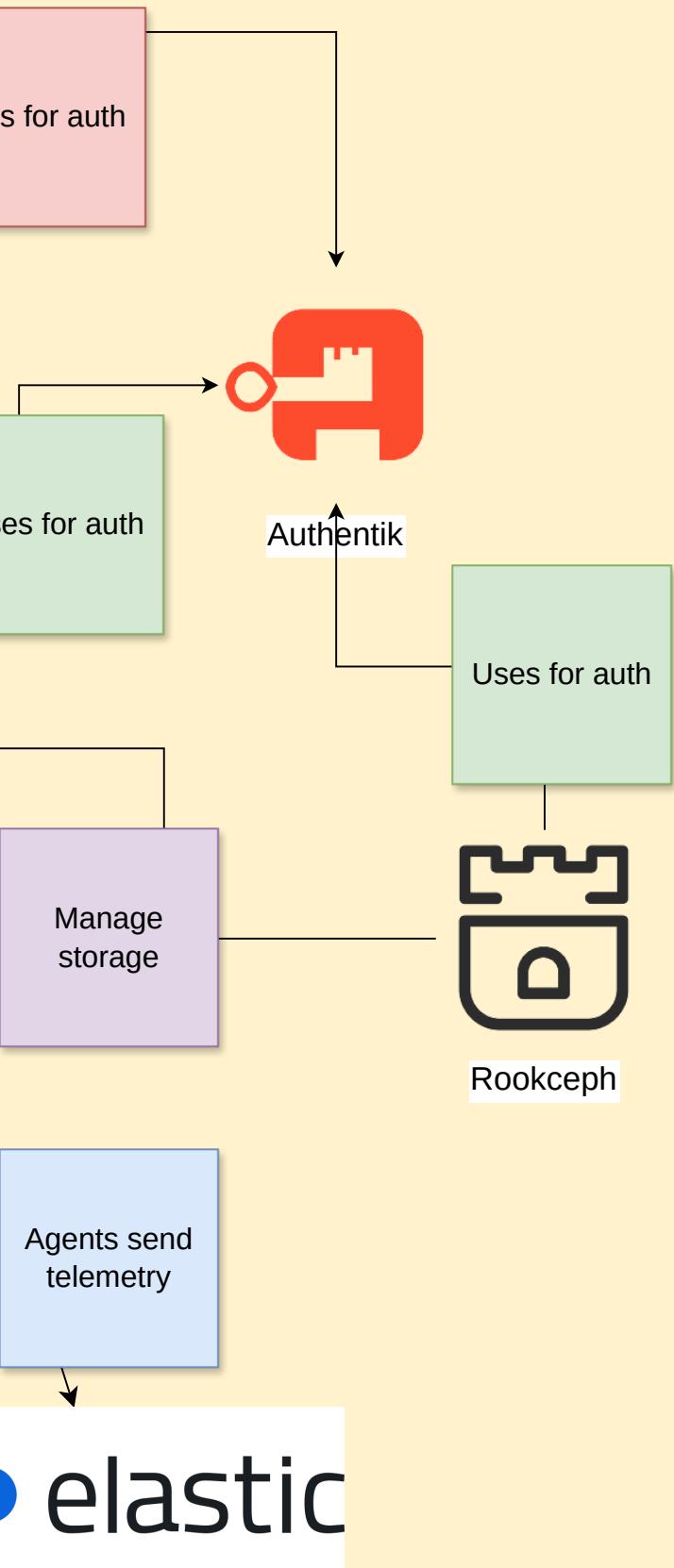
Flannel Networking with VETH

flannel

node 1

eth0
172.16.1.199

bridge

interface
172.17.0.12

interface
172.17.0.2

Pod A

Pod B

node 2

eth0
172.16.1.100

bridge

interface
172.17.0.12

Pod C

host

DNS

DNS Points to
Kube VIP for the
IP associated
with the
hostname

Kube
VIP
Load
Balancer

A Kube VIP
IP Hosts
Ingress
(different
from
10.3.21.1)

Traefik
Ingress

Ingress
routes to
service

Service

interface
72.17.0.2

Pod D

flannel is present on
all worker nodes in
the cluster

Pod

Pod

Kube VIP IP (10.3.21.1)

sched

Scheduler

api

K8s API Server

ETCD

Kube VIP (static pod)

Data source
for Grafana

Gitea

Use

Manage with
rbac

Prometheus

RANCHER
BY SUSE

Us

Pulls data

Manage with
rbac

Manage with
rbac

K8s Pods
and
Cluster

Grafana

Visualization

Kubevirt

Agents send
telemetry

Elasticsearch

s for auth

Uses for auth

Authentik

Uses for auth

Manage
storage

Rookceph

Agents send
telemetry

elastic

Cluster (not in Kubernetes)

pod)