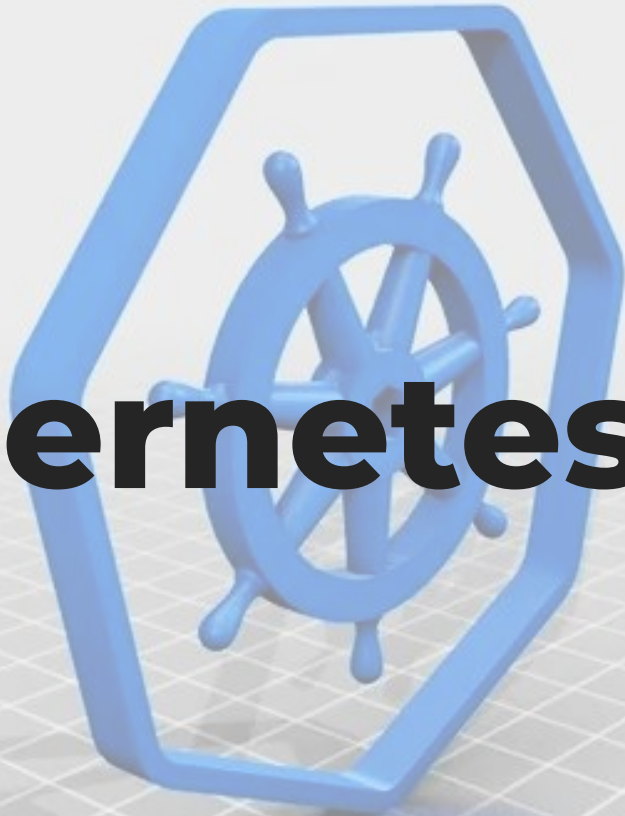
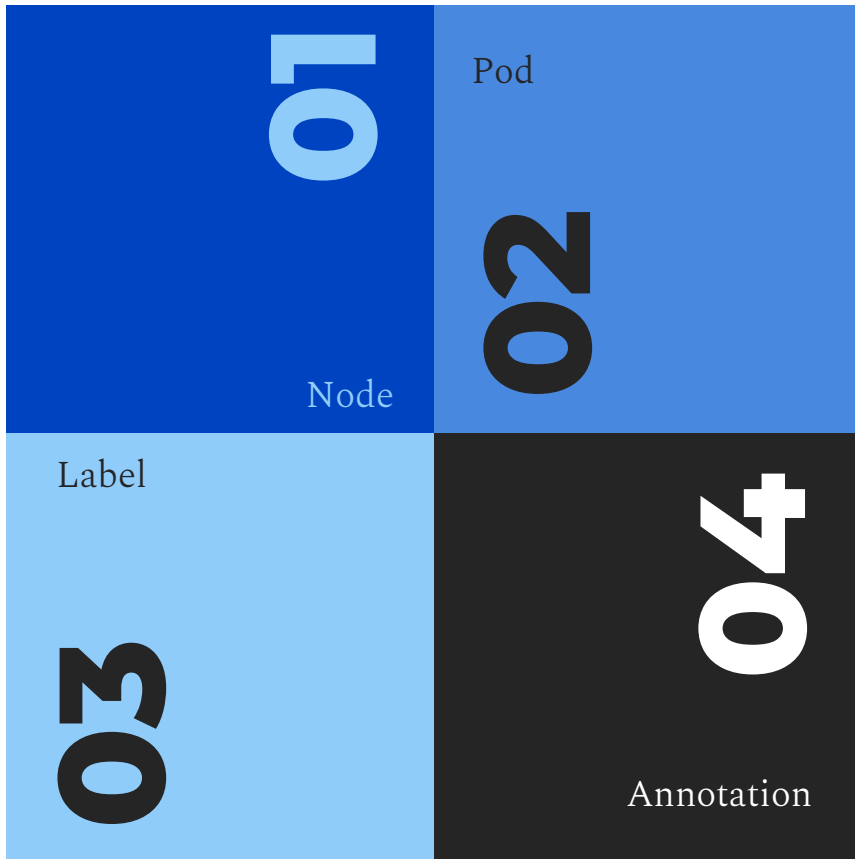


Kubernetes



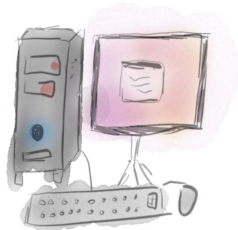


Agenda

1. Nodes

Nodes is the smallest unit of computing hardware in Kubernetes.

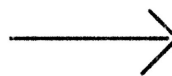




Node_001

CPU: 3000

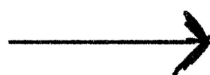
RAM: 64Gb



Node_5b

CPU: 1000

RAM: 16Gb



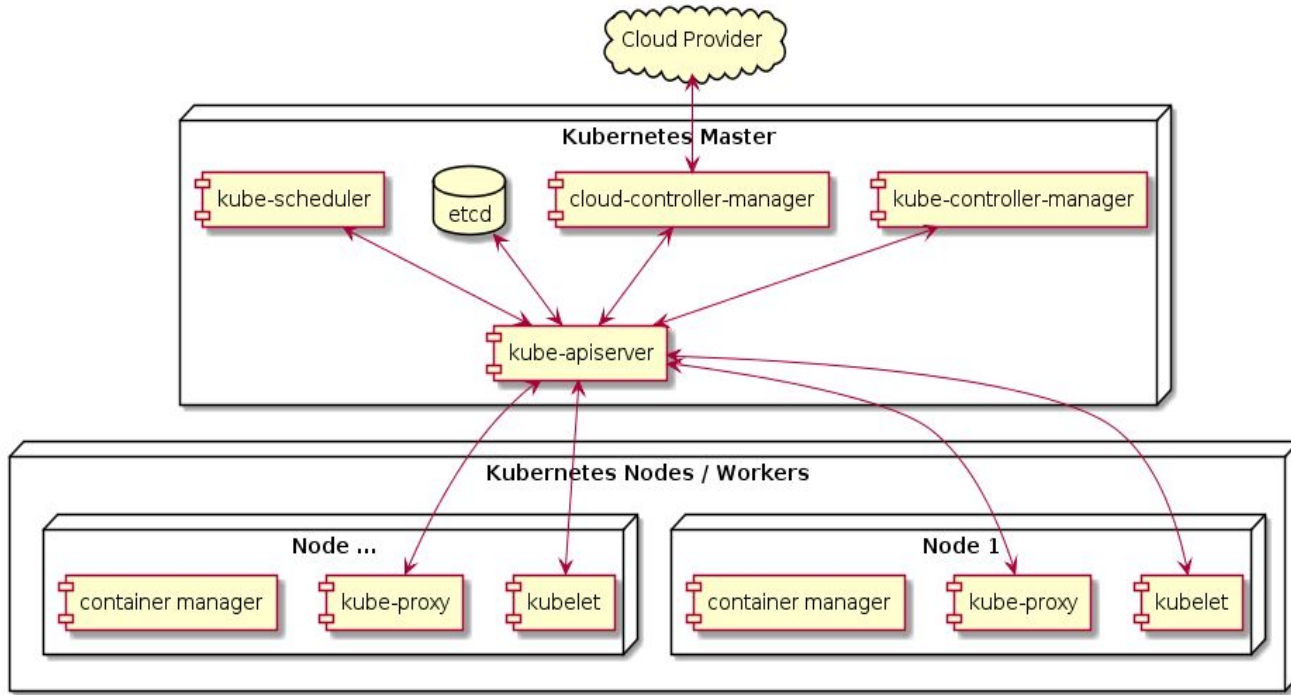
Node_mini

CPU: 100

RAM: 512Mb

Nodes is the
smallest unit
of computing
hardware in
Kubernetes.

Nodes



List Nodes

```
kubectl get node
```

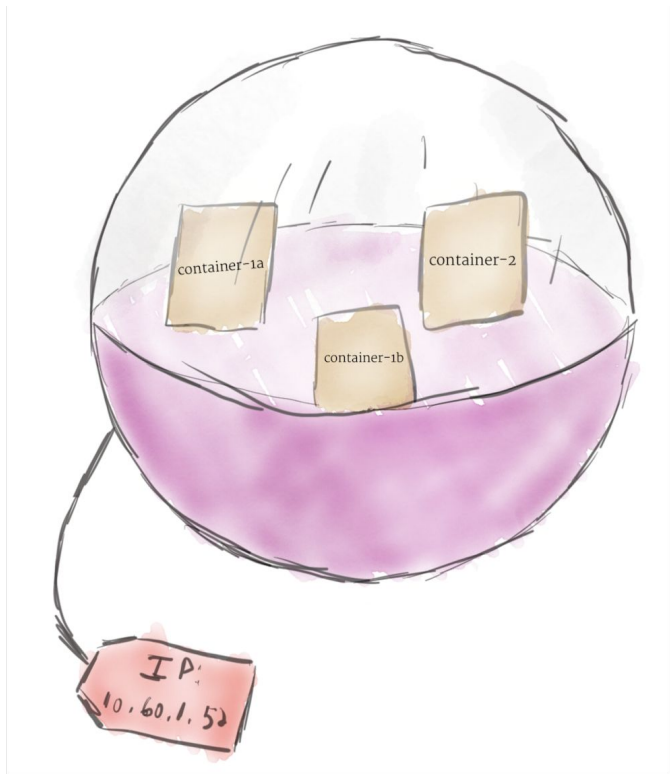
List Detail Nodes

```
kubectl describe node namanode
```

2. Pod

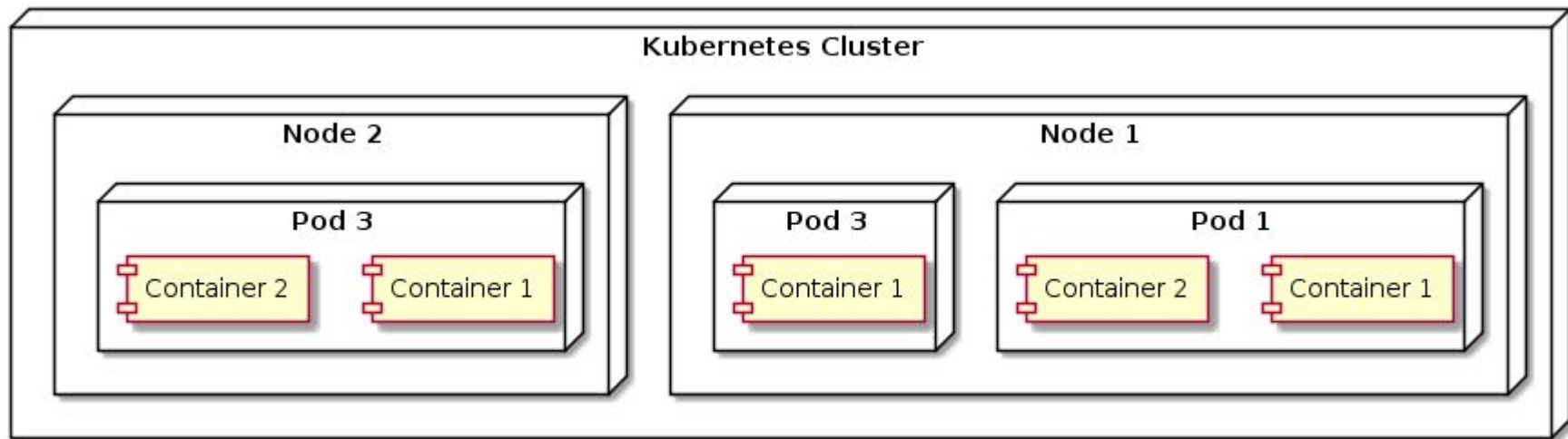
Instead it wraps one or more containers into a higher-level structure called a pod.





**Kubernetes doesn't
run containers
directly; instead it
wraps one or more
containers into a
higher-level structure
called a **pod**.**

Pod



List Pod

```
kubectl get pod
```

List Detail Pod

```
kubectl describe pod namapod
```

Create Pod - pod.yaml

```
apiVersion: v1
kind: Pod
metadata:
  name: pod-name
spec:
  containers:
    - name: container-name
      image: image-name
      ports:
        - containerPort: 80
```

List Pod

```
kubectl get pod  
kubectl get pod -o wide  
kubectl describe pod namapod
```

Access Pod

```
kubectl port-forward namapod  
portAkses:portPod  
kubectl port-forward namapod 8888:8080
```

3. Label

Labels are key/value pairs that are attached to objects, such as pods.



Label in Pod

```
kubectl create -f namafile.yaml  
kubectl get pods --show-labels
```

Add or Rename Pod

```
kubectl label pod namapod key=value  
kubectl label pod namapod key=value  
--overwrite
```

Search Pod use Label

```
kubectl get pods -l key
kubectl get pods -l key=value
kubectl get pods -l '!key'
kubectl get pods -l key!=value
kubectl get pods -l 'key in
(value1,value2)'
kubectl get pods -l 'key notin
(value1,value2)'
```

Search Pod use any Label

```
kubectl get pods key,key2=value  
kubectl get pods key=value,key2=value
```

4. Annotation

Kubernetes annotations to attach arbitrary non-identifying metadata to objects.



Add Annotation to Pod

```
kubectl annotate pod namapod key=value  
kubectl annotate pod namapod key=value  
--overwrite
```

Thanks!

