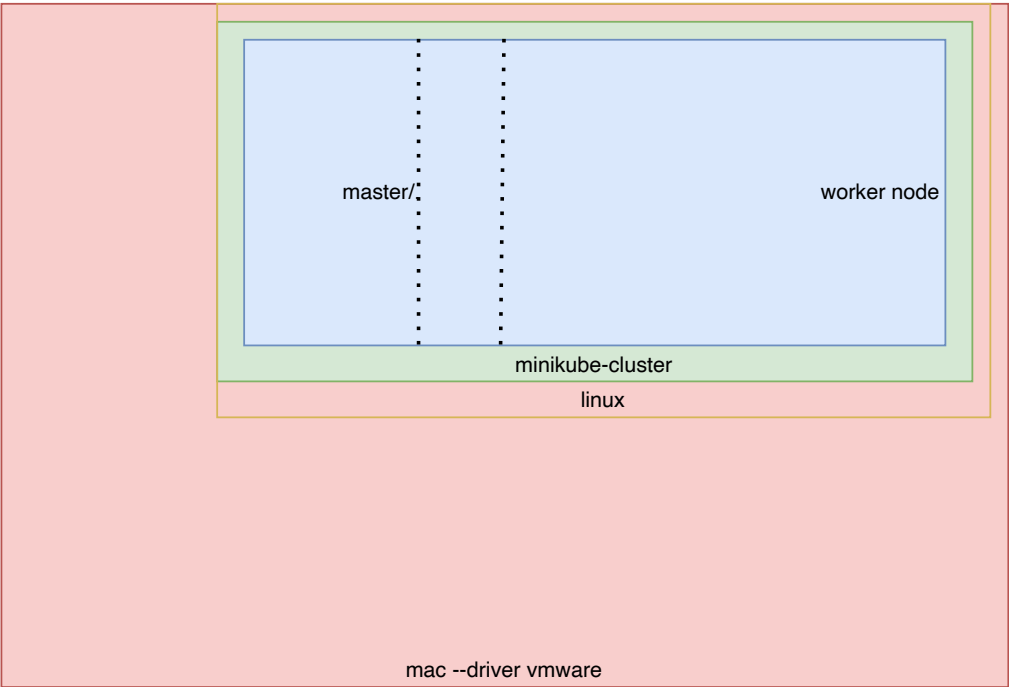


kubectl

minikube



kubernetes objects

imperatively

Declarative

docker run --name -p -it -e

config yaml files

Pods

Deployments

services

configmap

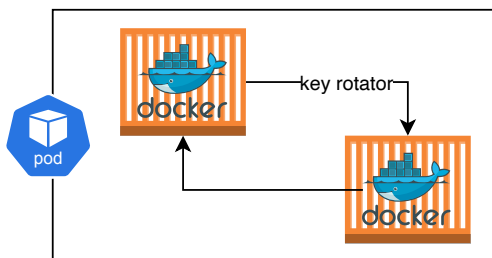
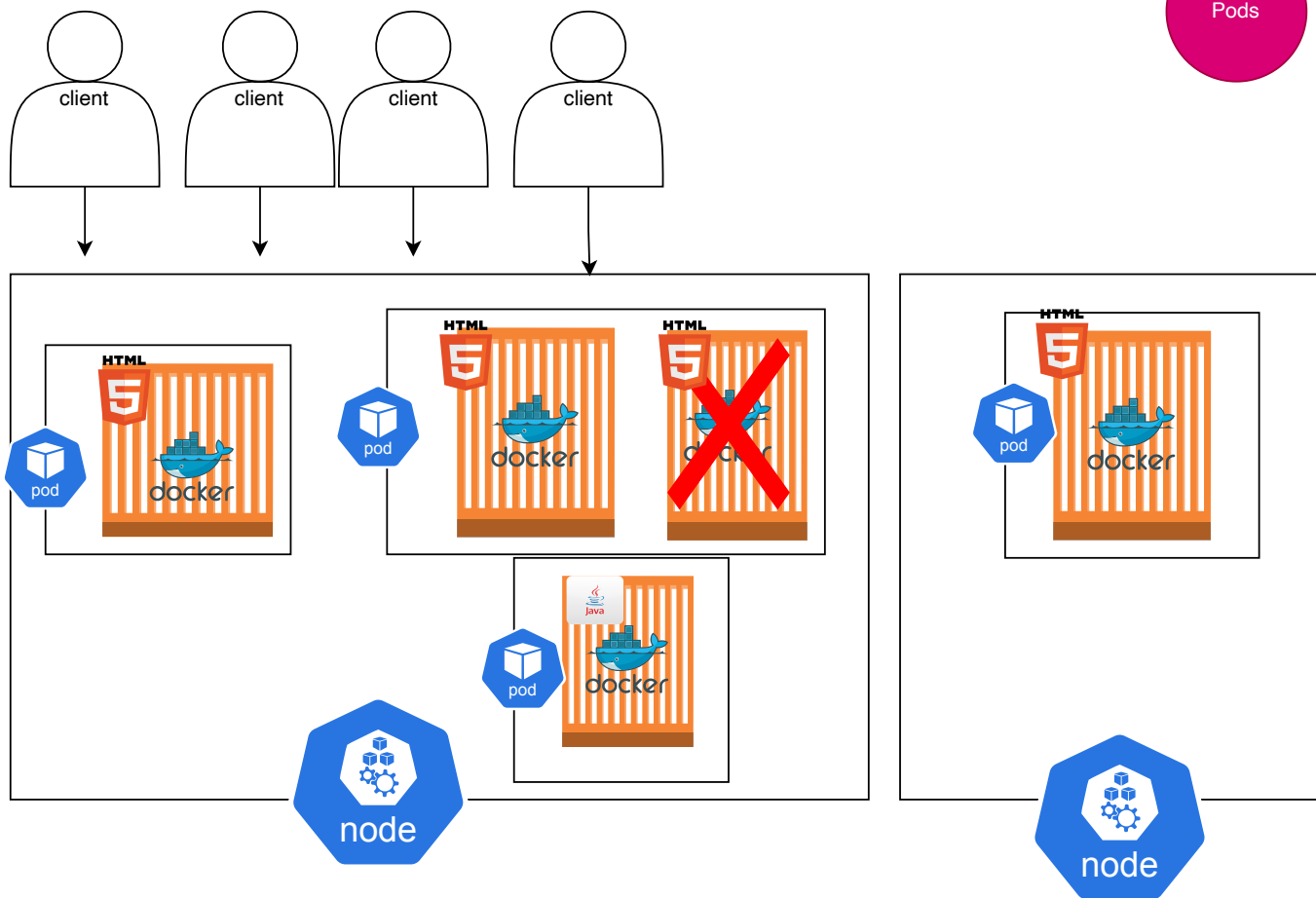
statfulset

deamonset

secrets

volume

replicaset



how to create a pod ?

~~kubect! run nginx --image nginx --port 80 --name blah blah~~

to create the pod use

kubectl apply -f file.yml

list all pods

kubectl get pods

describe the pod

kubectl describe pod/<podname>

pod.yml

```
apiVersion: v1 String
kind: Pod String
metadata: dict
  name: nginx-pod
  labels: dict
    app: app1
    type: front-end
spec: dict
  containers: list
    - name: nginx-container
      image: nginx
```

replicaset

```
apiVersion: apps/v1
kind: ReplicaSet
metadata:
  name: nginx-replica-set
  labels:
    app: nginx-rs
spec:
  replicas: 2
  template:
    metadata:
      name: nginx-pod
      labels:
        app: app1
        type: front-end
    spec:
      containers:
        - name: nginx-container
          image: nginx
  selector:
    matchLabels:
      type: front-end
```

to create the pod use

kubectl apply -f file.yml

list all rs

kubectl get rs

describe the rs

kubectl describe rs/<podname>

scaling

pod.yml

label matching

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
  labels:
    app: nginx-rs
spec:
  replicas: 2
  template:
    metadata:
      name: nginx-pod
      labels:
        app: app1
        type: front-end
    spec:
      containers:
        - name: nginx-container
          image: nginx
  selector:
    matchLabels:
      type: front-end
```

to create the pod use

kubectl apply -f file.yml

list all deployments

kubectl get deployments

describe the pod

kubectl describe deployments/<podname>

