Creating a k8s cluster

Locally (Make sure you have docker)

1. minukube

2. kind - https://kind.sigs.k8s.io/docs/user/quick-start/

On cloud

1. GKE

2. AWS K8s

3. vultr

Using kind

- Install kind - https://kind.sigs.k8s.io/docs/user/quick-start/#installation

Single node setup

- Create a 1 node cluster

```
kind create cluster --name local
```
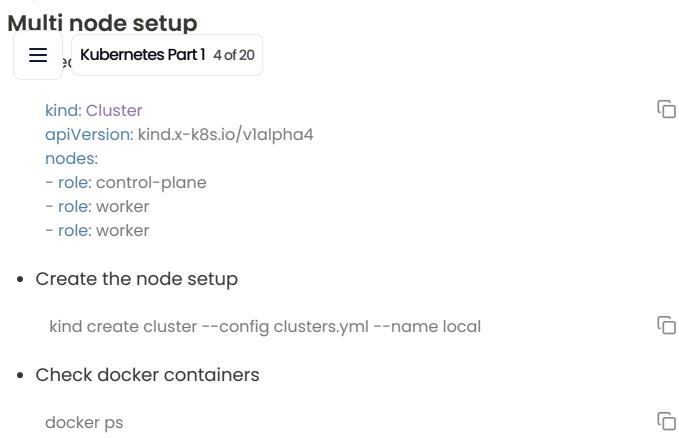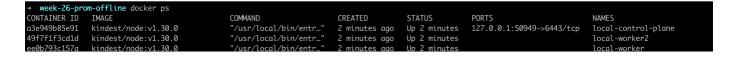
- Check the docker containers you have running

```
docker ps
```

- You will notice a single container running (control-pane)

- Delete the cluster

Multi node setup

```
kind: Cluster
apiVersion: kind.x-k8s.io/v1alpha4
nodes:
- role: control-plane
- role: worker
- role: worker
```

- Create the node setup

```
kind create cluster --config clusters.yml --name local
```

- Check docker containers

```
docker ps
```


Now you have a node cluster running locally

Using minikube

- Install minikube - https://minikube.sigs.k8s.io/docs/start/?arch=%2Fmacos%2Fx86-64%2Fstable%2Fbinary+download

- Start a k8s cluster locally

```
minikube start
```

- Run docker ps to see the single node setup

💡 A single node setup works but is not ideal. You don't want your
                                          as a worker.

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