INSTALLATION AND USING KIND

In the root directory create a file named install_kind.sh

vim install_kind.sh

```
#!/bin/bash
[ $(uname -m) = x86_64 ] && curl -Lo ./kind https://kind.sigs.k8s.io/dl/v0.29.0/kind-linux-amd64
chmod +x ./kind
sudo mv ./kind /usr/local/bin/kind
VERSION="v1.30.0"
URL="https://dl.k8s.io/release/${VERSION}/bin/linux/amd64/kubectl"
INSTALL_DIR="/usr/local/bin"
curl -LO "$URL"
chmod +x kubectl
sudo mv kubectl $INSTALL_DIR/
kubectl version --client
rm -f kubectl
rm -rf kind
echo "kind & kubectl installation complete."
```

chmod 777 install_kind.sh

./install_kind.sh

mkdir kind-cluster

sudo systemctl enable –now docker

vim config.yml

```
kind: Cluster
apiVersion: kind.x-k8s.io/v1alpha4
```

nodes:

- role: control-plane

  image: kindest/node:v1.31.2

- role: worker

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kubectl get nodes

If both Kubernetes contexts are installed for example “kind” and “minikube” then do not give “extraportmapping” in the config.yml file of kind

To check all the contexts installed use kubectl

kubectl config get-contexts

To select a particular context use

kubectl config use-context “context_name”

kubectl get nodes