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DevOps Day 3 Task

https://kubernetes.io/docs/tasks/tools/install-kubectl-linux/

 curl -LO https://dl.k8s.io/release/v1.32.0/bin/linux/amd64/kubectl

sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl

chmod +x kubectl

mkdir -p ~/.local/bin

mv ./kubectl ~/.local/bin/kubectl

kubectl version --client

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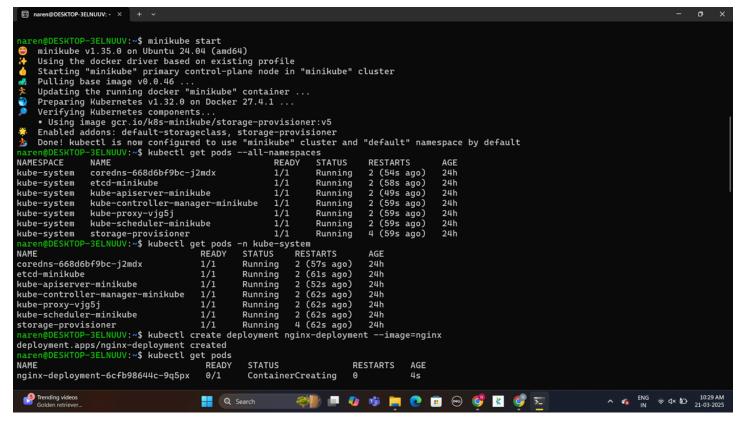
kubectl version --client

https://minikube.sigs.k8s.io/docs/start/?arch=%2Fwindows%2Fx86-64%2Fstable%2F.exe+download

https://github.com/kubernetes/minikube/releases/latest/download/minikube-linux-amd64

sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm minikube-linux-amd64

minikube start

minikube start

```
naren@DESKTOP-3ELNUUV:~$ minikube start
😄  minikube v1.35.0 on Ubuntu 24.04 (amd64)
✨  Using the docker driver based on existing profile
👍  Starting "minikube" primary control-plane node in "minikube" cluster
🚜  Pulling base image v0.0.46 ...
🏃  Updating the running docker "minikube" container ...
🐳  Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
🔎  Verifying Kubernetes components...
    ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🌟  Enabled addons: default-storageclass, storage-provisioner
🏄  Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
naren@DESKTOP-3ELNUUV:~$ kubectl get pods --all-namespaces
NAMESPACE     NAME                                READY   STATUS    RESTARTS       AGE
kube-system   coredns-668d6bf9bc-j2mdx            1/1     Running   2 (54s ago)    24h
kube-system   etcd-minikube                       1/1     Running   2 (58s ago)    24h
kube-system   kube-apiserver-minikube             1/1     Running   2 (49s ago)    24h
kube-system   kube-controller-manager-minikube    1/1     Running   2 (59s ago)    24h
kube-system   kube-proxy-vjg5j                     1/1     Running   2 (59s ago)    24h
kube-system   kube-scheduler-minikube             1/1     Running   2 (59s ago)    24h
kube-system   storage-provisioner                 1/1     Running   4 (59s ago)    24h
naren@DESKTOP-3ELNUUV:~$ kubectl get pods -n kube-system
NAME                                READY   STATUS    RESTARTS       AGE
coredns-668d6bf9bc-j2mdx            1/1     Running   2 (57s ago)    24h
etcd-minikube                       1/1     Running   2 (61s ago)    24h
kube-apiserver-minikube             1/1     Running   2 (52s ago)    24h
kube-controller-manager-minikube    1/1     Running   2 (62s ago)    24h
kube-proxy-vjg5j                     1/1     Running   2 (62s ago)    24h
kube-scheduler-minikube             1/1     Running   2 (62s ago)    24h
storage-provisioner                 1/1     Running   4 (62s ago)    24h
naren@DESKTOP-3ELNUUV:~$ kubectl create deployment nginx-deployment --image=nginx
deployment.apps/nginx-deployment created
naren@DESKTOP-3ELNUUV:~$ kubectl get pods
NAME                                READY   STATUS            RESTARTS   AGE
nginx-deployment-6cfb98644c-9q5px   0/1     ContainerCreating 0          4s
```

minikube status

kubectl get pod

kubeclt get deploy

kubectl get replica

kubectl get pod -o wide

version: '3'

services:

  web:

    image: nginx:latest

    ports:

      - 80:80

  db:

    image: mysql:latest

    environment:

      - MYSQL_ROOT_PASSWORD=secret

docker exec -it david-db-1 /bin/bash

mysql -u root -p

DevOps Day 3 Task

Tasks Completed:

- I have installed minikube and executed several commands.