Installing and setting up Kubernetes Minikube

Update system packages and Install dependencies

sudo apt update && sudo apt upgrade -y

sudo apt install -y curl wget apt-transport-https conntrack socat

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Install Docker, Kubectl and Minikube

Install Docker

sudo apt install -y docker.io sudo systemctl start docker

sudo systemctl enable docker

docker --version

Install Kubectl

curl -LO "https://dl.k8s.io/release/\$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl" chmod +x kubectl sudo mv kubectl /usr/local/bin/

kubectl version --client

Install Minikube

curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64 sudo install minikube-linux-amd64 /usr/local/bin/minikube minikube version

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Fix Docker setup

sudo usermod -aG docker \$USER

reboot

Verify Installation after reboot

docker run hello-world

Start and open Minikube

minikube dashboard

minikube start --driver=docker

Deployinig the docker image from dockerhub

mkdir docker

nano Dockerfile

npm init -y

npm init -y // again if the previous command installed npm

cd ..

docker pull sanjai4334/docker:latest . // replace with your docker uid/repo:image_tag

cd docker

docker build -t sanjai4334/docker/latest

docker ps -a

sudo nano nginx-deployment.yaml

kubectl apply -f nginx-deployment.yaml

sudo nano service.yaml

kubectl apply -f service.yaml

kubectl get pods

minikube get svc my-app

minikube service my-app --url

• open the url in browser

curl <url>