Kubernetes Deployment using Minikube

Prerequisites

- Minikube installed
- Kubectl installed
- Docker installed

Step 1: Start Minikube

minikube start

Step 2: Verify Minikube Status

minikube status

Step 3: Pull Docker Image

Ensure the Docker image is available locally.

docker pull saran006/test1

Step 4: Create a Kubernetes Deployment

kubectl create deployment test --image=saran006/test1

Step 5: Check Deployment Status

kubectl get pods

Step 6: Expose the Deployment as a Service

kubectl expose deployment test --type=NodePort --port=80

Step 7: Get the Minikube Service URL

minikube service test --url

Step 8: Access the Application

Copy the URL from the previous command and open it in a web browser.

Step 9: Verify Running Services

kubectl get services

Step 10: Cleanup Resources

To delete the deployment and service, run:

kubectl delete deployment test kubectl delete service test

Your application should now be deployed on Minikube and accessible via the provided service URL.

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