Kubernetes + kind Command Cheatsheet

kind (Kubernetes IN Docker) Cheatsheet

Cluster Management

- Create a cluster: kind create cluster

- Create a cluster with custom name: kind create cluster --name <name>

- Delete a cluster: kind delete cluster

- Delete named cluster: kind delete cluster --name <name>

- Get cluster list: kind get clusters

- Export kubeconfig: kind get kubeconfig --name <name>

- Load Docker image into kind: kind load docker-image <image-name>

- Create with config file: kind create cluster --config <config.yaml>

kubectl (Kubernetes CLI) Cheatsheet

Basic Info

- Show cluster info: kubectl cluster-info

- List nodes: kubectl get nodes

- List all resources: kubectl get all

- List pods: kubectl get pods

- List services: kubectl get svc

- List deployments: kubectl get deployments

Work with Deployments

- Create deployment: kubectl create deployment <name> --image=<image>

- Scale deployment: kubectl scale deployment <name> --replicas=<n>

- Delete deployment: kubectl delete deployment <name>

- Expose deployment: kubectl expose deployment <name> --port=<port> --type=NodePort

Inspection

- Describe a pod: kubectl describe pod <pod-name>

- View logs of a pod: kubectl logs <pod-name>

- Exec into pod: kubectl exec -it <pod-name> -- /bin/bash

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 YAML Usage

- Apply from file: kubectl apply -f <file.yaml>

- Delete from file: kubectl delete -f <file.yaml>

- Dry run manifest: kubectl apply -f <file.yaml> --dry-run=client

- Edit running resource: kubectl edit <kind>/<name>

 Cleanup

- Delete pod: kubectl delete pod <pod-name>

- Delete service: kubectl delete service <svc-name>

- Delete all resources: kubectl delete all --all

 Port Forwarding

- Port forward a service: kubectl port-forward service/<svc-name> <local-port>:<service-port>

- Port forward a pod: kubectl port-forward pod/<pod-name> <local-port>:<pod-port>