Kubernetes Cheat Sheet

by Nilesh (niparkhe) via cheatography.com/129317/cs/26377/

Pod Commands

kubectl get nodes	Get list of all nodes
kubectl get pods --all-namespaces	Get list of all pods in all namespaces
kubectl apply -f calico.yaml	Apply a Calico Container Networking Configuration
kubectl init --apiserver-advertise-addres<pvt_ip_addr> --pod-network-cidr=192.1-68.0.0/16	Initialise current node as Manager with Calico Container N/w soln
kubectl get pods --all-namespaces -o wide	List pods and their nodes (ip addrs)

Service Commands

Create Service	kubectl create service nodeport nginx --tcp=80:80
List services	kubectl get svc

Nodeport is the type of service endpoint being created. It allows an external client to access the service (One out of 3 types).

Administration Commands

kubectl get all	Get all resources in a namespace
kubectl get all -A	Get all resources in ALL Namespaces
kubectl config view	Show Kubectl context.

Deployment Commands

kubectl get deployments	Get deployments

Kubectl Commands

kubectl config	Context and Configuration. view, get-contexts, current-context, use-context, set-cluster, set-credentials, set-context, use-context, unset
kubectl apply	Create and Update Resources. -f ./my1.yaml -f ./my2.yaml
kubectl create	Create a single instance. deployment nginx --image=nginx cronjob job

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Kubectl Commands (cont)

kubectl explain	Get documentation, Schema Definition Pod Pod.spec.containers
kubectl get	Viewing & Finding Resources services pods --all-namespaces pods -o wide deployment my-dep pod my-pod-o yaml
kubectl describe	Obtain real-time info abt resources nodes my-node pods my-pod
kubectl set	
kubectl rollout	
kubectl replace	
kubectl expose	
kubectl label	
kubectl annotate	
kubectl patch	
kubectl edit	
kubectl scale	
kubectl delete	
kubectl logs	
kubectl run	
kubectl attach	
kubectl port-forward	
kubectl exec	
kubectl debug	
kubectl top	
kubectl cp	
kubectl cordon	
kubectl drain	
kubectl uncordon	
kubectl cluster-info	
kubectl taint	

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Google Cloud	
Create a K8s Cluster	gcloud container clusters create [CLUSTER-NAME]
Authenticate Cluster to interact with it i.e Update kubeconfig	gcloud container clusters get-credentials [CLUSTER-NAME]
Create a deployment on created cluster	kubectl create deployment [DEPL_NAME] --image=gcr.io/[PATH]/[IMG_NAM-E]:[TAG]
Expose created deployment to external network i.e Create Service	kubectl expose deployment [DEPL_NAME] --type=LoadBalancer --port [PORT]
Inspect created Service	kubectl get service
Delete Cluster	gcloud container clusters delete [CLUSTER-NAME]

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Not published yet.
Last updated 30th July, 2024.

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