

CONTINO

Kubernetes Command Cheat Sheet

Context Configuration

kubectl config view kubectl config current-context

kubectl config use-context "contextname"

Kubectl config set-context "context_name" -n "namespace"

Display kubeconfig

Display current context

Switch context

Set new context

Creating Objects

kubectl apply -f ./my-manifest.yaml

kubectl apply -f ./my1.yaml -f ./my2.yaml

kubectl apply -f ./dir

kubectl apply -f https://git.io/vPieo

kubectl apply deployment nginx --image=nginx

kubectl explain pods

kubectl run nginx --image=nginx --replicas=5
kubectl run --generator=run-pod/v1 --image=nginx \

--drv-run POD NAME

kubectl expose pod pod-name \

--port=444 --name=frontend

Create resource(s)

Create from multiple files

Create resource(s) in all manifest files in dir

Create resource(s) from url

Start a single instance of nginx

Get the documentation for pod and svc manifests

Creates a deployment with 5 replicas

Prints the corresponding apis without creating the Objects

Creates a service for the pod and exposes port 444 on the pod and gives it a name frontend

Viewing Resources

kubectl get services

kubectl get pods --all-namespaces

kubectl get pods -o wide

kubectl get deployment my-dep

kubectl get pods --include-uninitialized

List all services in the namespace

List all pods in all namespaces

List all pods in the namespace, with more details

List a particular deployment

List all pods in the namespace, including uninitialized ones

Updating Resources

kubectl set image deployment/nginx nginx=nginx:1.9.2

kubectl rollout undo deployment/frontend kubectl rollout status -w deployment/frontend

kubectl rollout history deployment/nginx kubectl expose rc nginx --port=80 --target-port=8000

kubectl label pods my-pod new-label=awesome kubectl annotate pods my-pod icon-url=http://goo.gl/abc kubectl autoscale deployment foo --min=2 --max=10 # Rolling update of the deployment nginx, updating the image from nginx to nginx:1.9.2

Rollback to the previous deployment

Watch rolling update status of "frontend" deployment until completion

See previous rollouts of deployment

Create a service for a replicated nginx, which serves on port 80 and connects to the containers on port 8000

Add a label

Add an annotation

Auto scale a deployment "foo"

View Logs, Exec Into Container and Troubleshooting

kubectl logs pod-name

kubectl logs pod-name -c container-name

kubectl get pods pod-name -o jsonpath={.spec.containers[*].name} # Lists all the containers in the

kubectl exec -it "podname"-- /bin/bash

kubectl exec -it "podname" -c "containername" -- /bin/bash

Prints logs from stdout produced by pod-name

When you have multiple containers in the pod

‡ Lists all the containers in the same pod

Executes into container and opens the shell, mainly used for troubleshooting the container

Allows you to shell into a specific container within a pod

Describe Commands with Verbose Output

kubectl describe nodes my-node kubectl describe pods my-pod

Cluster Events

kubectl get events

Deleting Any Unwanted Kubernetes Objects or Resources

kubectl delete pods pod-name

kubectl delete deployment deployment-name

kuboctl dolote

deployment, service, ingress, network policy, configmap, secret -- selector run=nginx

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Resources

- * certificatesigningrequests (aka 'csr')
- * clusterrolebindings
- * clusterroles
- * componentstatuses (aka 'cs')
- * configmaps (aka 'cm')
- * controllerrevisions
- * cronjobs
- * customresourcedefinition (aka 'crd')
- * daemonsets (aka 'ds')
- * deployments (aka 'deploy')
- * endpoints (aka 'ep')
- * events (aka 'ev')
- * horizontalpodautoscalers (aka 'hpa')
- * ingresses (aka 'ing')
- * jobs
- * limitranges (aka 'limits')
- * namespaces (aka 'ns')
- * networkpolicies (aka 'netpol')
- * nodes (aka 'no')

- * persistentvolumeclaims (aka 'pvc')
- * persistentvolumes (aka 'pv')
- * poddisruptionbudgets (aka 'pdb')
- * podpreset
- * pods (aka 'po')
- * podsecuritypolicies (aka 'psp')
- * podtemplates
- * replicasets (aka 'rs')
- * replicationcontrollers (aka 'rc')
- * resourcequotas (aka 'quota')
- * rolebindings
- * roles
- * secrets
- * serviceaccounts (aka 'sa')
- * services (aka 'svc')
- * statefulsets (aka 'sts')
- * storageclasses (aka 'sc')