

# 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 and Scaling 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 create 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

kubectl autoscale deployment DEPLOYMENT \
--min=# --max=# --cpu-percent=#

# 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
- # Create an autoscaler for a deployment

### **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 isonpath={.spec.containers[\*].name} # Lists all the containers in the

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

containers in the pod ].name} # Lists all the container

same pod
# Executes into container and

# Prints logs from stdout

produced by pod-name

# When you have multiple

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

# Allows you to shell into a specific container within a pod

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

## Deleting Any Unwanted Kubernetes Objects or Resources

kubectl delete pods pod-name

kubectl delete deployment deployment-name

kubectl delete

deployment,service,ingress,networkpolicy,configmap,secret --selector run=nginx

### **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

### **Describe Commands with Verbose Output**

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

### **Cluster Events**

kubectl get events

# **CONTINO**

## 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')