

KUBERNETES CHEATSHEET



Cluster Management



1. Display endpoint details for the cluster's master and services.

\$ kubectl cluster-info

2. Show the Kubernetes version that is active on the server and client

\$ kubectl version

3. Get the cluster's configuration

\$ kubectl config view

Cluster Management



- 4. List the available API resources
- \$ kubectl api-resources
- 5. List everything
- \$ kubectl get all --all-namespaces

Node Management



- 1. List the nodes
- \$ kubectl get node
- 2. Update the taints on nodes
- \$ kubectl taint node <node_name>
- 3. Delete a node
- \$ kubectl delete node <node_name>

Pod Management



- 1. List pods
- \$ kubectl get pod
- 2. Delete a pod
- \$ kubectl delete pod <pod_name>
- 3. See detailed state of a pods
- \$ kubectl describe pod <pod_name>
- 4. Create a pod
- \$ kubectl create pod <pod_name>

Pod Management



- 5. Run a command for a container inside a pod
- \$ kubectl exec <pod_name> -c <container_name>
 <command>
- 6. Get interactive shell on a pod
- \$ kubectl exec -it <pod_name> /bin/sh
- 7. See resource usage (CPU/Memory/Storage) for pods
- \$ kubectl top pod

Pod Management



- 8. Add/update the annotations of a pod
- \$ kubectl annotate pod <pod_name> <annotation>
- 9. Add/update the label of a pod
- \$ kubectl label pod <pod_name>

Replication Controllers



- 1. View the list of replication controllers
- \$ kubectl get rc
- 2. View the list of replication controllers by namespace
- \$ kubectl get rc --namespace="<namespace_name>"
- 3. Scale a ReplicaSet
- \$ kubectl scale --replicas=<expected_replica_num>
 replicaset <name>

Deployment Management



- 1. List the deployments
- \$ kubectl get deployment
- 2. Show the precise status of single or multiple deployments.
- \$ kubectl describe deployment <deployment_name>
- 3. Edit and update the deployment.
- \$ kubectl edit deployment <deployment_name>
- 4. Create a new deployment
- \$ kubectl create deployment <deployment_name>

Deployment Management



- 5. Delete a deployment
- \$ kubectl delete deployment <deployment_name>
- 6.Check the rollout status of a deployment
- \$ kubectl rollout status deployment
 <deployment_name>
- 7. Display Resource usage (CPU/Memory/Storage)
 for nodes
- \$ kubectl top node
- 8. See resource allocation per node
- \$ kubectl describe nodes | grep Allocated -A 5

Deployment Management



- 9.List the pods running on a node
- \$ kubectl get pods -o wide | grep <node_name>
- 10. To annotate a node
- \$ kubectl annotate node <node_name>
- 11. Add or update the labels of a node
- \$ kubectl label nodes <your-node-name> <label>
- 12. Scale a Deployment
- \$ kubectl scale deployment <deployment-name> -replicas=<number-of-replicas>

Secrets



- 1. Create a secret
- \$ kubectl create secret <name>
- 2. List secrets
- \$ kubectl get secrets
- 3. View details about secrets
- \$ kubectl describe secrets <name>
- 4. Delete a secret
- \$ kubectl delete secret <secret_name>

Services



- 1. List the services
- \$ kubectl get services
- 2. View the detailed state of a service
- \$ kubectl describe services <name>
- 3. Expose a replication controller, deployment or pod as a new Kubernetes service
- \$ kubectl expose deployment [deployment_name]
- 4. Edit/update the definition of a service
- \$ kubectl edit service <name>

Common Options



Commands in Kubectl can include optional flags. Here are a few examples of the most popular and helpful ones.

1. -o Format of output. (Suppose you wanted to list all of the pods in ps output format with additional information.)

\$ kubectl get pods -o wide

Create any resource(pod/replicaset/deployment, etc) using a yaml/json file.

\$ kubectl apply -f <xyz.yaml>