



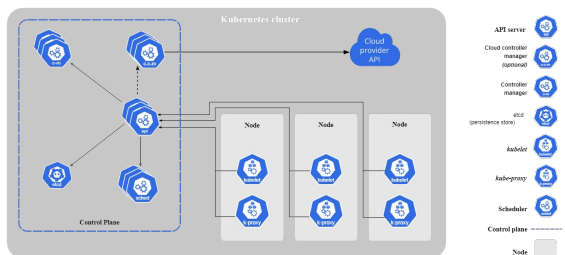
Kubernetes Cheat Sheet

Deleting resources	
Command	What does it do?
<code>kubectl delete -f /pod.json</code>	Delete a pod using the type and name specified in pod.json
<code>kubectl delete pod unwanted --now</code>	Delete a pod with no grace period
<code>kubectl delete pod,service baz foo</code>	Delete pods and services with same names "baz" and "foo"
<code>kubectl delete pods,services -l name=myLabel</code>	Delete pods and services with label name=myLabel
<code>kubectl -n my-ns delete pod,svc --all</code>	Delete all pods and services in namespace my-ns
<code>kubectl get pods -n mynamespace --no-headers=true awk '/pattern pattern2/{print \$1}' xargs kubectl delete -n mynamespace pod</code>	Delete all pods matching the awk pattern or pattern2

Interacting with resources	
Command	What does it do?
<code>kubectl logs -l name=myLabel</code>	dump pod logs, with label name=myLabel (stdout)
<code>kubectl logs my-pod --previous</code>	dump pod logs (stdout) for a previous instantiation of a container
<code>kubectl logs my-pod -c my-container</code>	dump pod container logs (stdout, multi-container case)
<code>kubectl logs -l name=myLabel -c my-container</code>	dump pod logs, with label name=myLabel (stdout)
<code>kubectl logs my-pod -c my-container --previous</code>	dump pod container logs (stdout, multi-container case) for a previous instantiation of a container
<code>kubectl logs -f my-pod</code>	stream pod logs (stdout)
<code>kubectl logs -f my-pod -c my-container</code>	stream pod container logs (stdout, multi-container case)
<code>kubectl logs -f -l name=myLabel --all-containers</code>	stream all pods logs with label name=myLabel (stdout)
<code>kubectl run -i --tty busybox --image=busybox:1.28 -- sh</code>	Run pod as interactive shell
<code>kubectl run nginx --image=nginx -n mynamespace</code>	Start a single instance of nginx pod in the namespace of mynamespace
<code>kubectl run nginx --image=nginx</code>	Run pod nginx and write its spec into a file called pod.yaml
<code>kubectl top pod POD_NAME --containers</code>	Show metrics for a given pod and its containers
<code>kubectl attach my-pod -i</code>	Attach to Running Container

Updating resources	
Command	What does it do?
<code>kubectl set image deployment/frontend www=image:v2</code>	Rolling update "www" containers of "frontend" deployment, updating the image
<code>kubectl rollout history deployment/frontend</code>	Check the history of deployments including the revision
<code>kubectl rollout undo deployment/frontend --to-revision=2</code>	Rollback to a specific revision
<code>kubectl rollout status -w deployment/frontend</code>	Watch rolling update status of "frontend" deployment until completion
<code>kubectl rollout restart deployment/frontend</code>	Rolling restart of the "frontend" deployment
<code>cat pod.json kubectl replace -f -</code>	Replace a pod based on the JSON passed into stdin
<code>kubectl replace --force -f /pod.json</code>	Force replace, delete and then re-create the resource. Will cause a service outage
<code>kubectl expose rc nginx --port=80 --target-port=8000</code>	Create a service for a replicated nginx, which serves on port 80 and connects to the containers on port 8000
<code>kubectl get pod mypod -o yaml sed 's/\(image: myimage\):\$/\1:v4/' kubectl replace -f -</code>	Update a single-container pod's image version (tag) to v4

Formatting output	
Command	What does it do?
<code>-o=custom-columns=<spec></code>	Print a table using a comma separated list of custom columns
<code>-o=custom-columns-file=<filename></code>	Print a table using the custom columns template in the <filename> file
<code>-o=json</code>	Output a JSON formatted API object
<code>-o=jsonpath=<template></code>	Print the fields defined in a jsonpath expression
<code>-o=jsonpath-file=<filename></code>	Print the fields defined by the jsonpath expression in the <filename> file
<code>cat pod.json kubectl replace -f -</code>	Replace a pod based on the JSON passed into stdin



Creating objects	
Command	What does it do?
<code>kubectl apply -f /my-manifest.yaml</code>	create resource(s)
<code>kubectl apply -f /my1.yaml -f /my2.yaml</code>	create from multiple files
<code>kubectl apply -f /dir</code>	create resource(s) in all manifest files in dir
<code>kubectl apply -f https://git.io/vPieo</code>	create resource(s) from url
<code>kubectl create deployment nginx --image=nginx</code>	start a single instance of nginx
<code>kubectl explain pods</code>	get the documentation for pod manifests

Viewing, finding resources	
Command	What does it do?
<code>kubectl get services</code>	List all services in the namespace
<code>kubectl get pods --all-namespaces</code>	List all pods in all namespaces
<code>kubectl get pods -o wide</code>	List all pods in the current namespace, with more details
<code>kubectl get deployment my-dep</code>	List a particular deployment
<code>kubectl get pods</code>	List all pods in the namespace
<code>kubectl get pod my-pod -o yaml</code>	Get a pod's YAML
<code>kubectl describe nodes my-node</code> <code>kubectl describe pods my-pod</code>	Describe commands with verbose output
<code>kubectl get services --sort-by=metadata.name</code>	List Services Sorted by Name

Patching & Scaling resources	
Command	What does it do?
<code>kubectl patch node k8s-node-1 -p '{"spec":{"unschedulable":true}}'</code>	Partially update a node
<code>kubectl patch pod valid-pod -p '{"spec":{"containers":[{"name":"kubernetes-serve-hostna me","image":"new image"}]}'</code>	Update a container's image; spec.containers[] name is required because it's a merge key
<code>kubectl patch pod valid-pod --type=json -p='[{"op": "replace", "path": "/spec/containers/0/image", "value": "new image"}]'</code>	Update a container's image using a json patch with positional arrays
<code>kubectl patch deployment valid-deployment --type json -p='[{"op": "remove", "path": "/spec/template/spec/containers/0/livenessProbe"}]'</code>	Disable a deployment livenessProbe using a json patch with positional arrays
<code>kubectl patch sa default --type=json -p='[{"op": "add", "path": "/secrets/1", "value": {"name": "whatever"} }]'</code>	Add a new element to a positional array
<code>kubectl scale --replicas=3 rs/foo</code>	Scale a replicaset named 'foo' to 3
<code>kubectl scale --replicas=3 -f fooyaml</code>	Scale a resource specified in "fooyaml" to 3
<code>kubectl scale --current-replicas=2 --replicas=3 deployment/mysql</code>	If the deployment named mysql's current size is 2, scale mysql to 3