

Commands			Resource Types	
Operation	Description	Syntax	Options	Description
annotate	Add or update the annotations of one or more resources.	kubectl annotate (-f FILENAME   TYPE NAME   TYPE/NAME) KEY_1=VAL_1 ... KEY_N=VAL_N [--overwrite] [--all] [--resource-version=version] [flags]	certificatesigningrequests	csr
api-versions	List the API versions that are available.	kubectl api-versions [flags]	clusters	
apply	Apply a configuration change to a resource from a file or stdin.	kubectl apply -f FILENAME [flags]	clusterrolebindings	
attach	Attach to a running container either to view the output stream or interact with the container (stdin).	kubectl attach POD -c CONTAINER [-i] [-t] [flags]	clusterroles	
autoscale	Automatically scale the set of pods that are managed by a replication controller.	kubectl autoscale (-f FILENAME   TYPE NAME   TYPE/NAME) [--min=MINPODS] --max=MAXPODS [--cpu-percent=CPU] [flags]	componentstatuses	cs
cluster-info	Display endpoint information about the master and services in the cluster.	kubectl cluster-info [flags]	configmaps	cm
config	Modifies kubeconfig files. See the individual subcommands for details.	kubectl config SUBCOMMAND [flags]	cronjobs	
create	Create one or more resources from a file or stdin.	kubectl create -f FILENAME [flags]	daemonsets	ds
delete	Delete resources either from a file, stdin, or specifying label selectors, names, resource selectors, or resources.	kubectl delete (-f FILENAME   TYPE [NAME   /NAME   -l label   --all]) [flags]	deployments	deploy
describe	Display the detailed state of one or more resources.	kubectl describe (-f FILENAME   TYPE [NAME_PREFIX   /NAME   -l label]) [flags]	endpoints	ep
edit	Edit and update the definition of one or more resources on the server by using the default editor.	kubectl edit (-f FILENAME   TYPE NAME   TYPE/NAME) [flags]	events	ev
exec	Execute a command against a container in a pod.	kubectl exec POD [-c CONTAINER] [-i] [-t] [flags] [-- COMMAND [args...]]	horizontalpodautoscalers	hpa
explain	Get documentation of various resources. For instance pods, nodes, services, etc.	kubectl explain [--include-extended-apis=true] [--recursive=false] [flags]	ingresses	ing
expose	Expose a replication controller, service, or pod as a new Kubernetes service.	kubectl expose (-f FILENAME   TYPE NAME   TYPE/NAME) [--port=port] [--protocol=TCP/UDP] [--target-port=number-or-name] [--name=name] [--- external-ip=external-ip-of-service] [--type=type] [flags]	jobs	
get	List one or more resources.	kubectl get (-f FILENAME   TYPE [NAME   /NAME   -l label]) [--watch] [--sort-by=FIELD] [--l-o   --output]=OUTPUT_FORMAT [flags]	limitranges	limits
label	Add or update the labels of one or more resources.	kubectl label (-f FILENAME   TYPE NAME   TYPE/NAME) KEY_1=VAL_1 ... KEY_N=VAL_N [--overwrite] [--all] [--resource-version=version] [flags]	namespaces	ns
logs	Print the logs for a container in a pod.	kubectl logs POD [-c CONTAINER] [--follow] [flags]	networkpolicies	
patch	Update one or more fields of a resource by using the strategic merge patch process.	kubectl patch (-f FILENAME   TYPE NAME   TYPE/NAME) --patch PATCH [flags]	nodes	no
port-forward	Forward one or more local ports to a pod.	kubectl port-forward POD [LOCAL_PORT:]REMOTE_PORT [...[LOCAL_PORT_N:]REMOTE_PORT_N] [flags]	persistentvolumeclaims	pvc
proxy	Run a proxy to the Kubernetes API server.	kubectl proxy [--port=PORT] [--www=static-dir] [--www-prefix=prefix] [--api-prefix=prefix] [flags]	persistentvolumes	pv
replace	Replace a resource from a file or stdin.	kubectl replace -f FILENAME	poddisruptionbudget	pdb
rolling-update	Perform a rolling update by gradually replacing the specified replication controller and its pods.	kubectl rolling-update OLD_CONTROLLER_NAME ([NEW_CONTROLLER_NAME] --image=NEW_CONTAINER_IMAGE   -f NEW_CONTROLLER_SPEC) [flags]	pods	po
run	Run a specified image on the cluster.	kubectl run NAME --image=image [--env="key=value"] [--port=port] [--replicas=replicas] [--dry-run=bool] [--overrides=inline-json] [flags]	podsecuritypolicies	psp
scale	Update the size of the specified replication controller.	kubectl scale (-f FILENAME   TYPE NAME   TYPE/NAME) --replicas=COUNT [--resource-version=version] [--current-replicas=count] [flags]	podtemplates	
stop	Deprecated: Instead, seekubectl delete.	kubectl stop	replicasets	rs
version	Display the Kubernetes version running on the client and server.	kubectl version [--client] [flags]	replicationcontrollers	rc
Command Options			Output Options	
Options	Description	Option	Description	
--alsologtostderr	log to standard error as well as files	-o=custom-columns=<spec>	Print a table using a comma separated list of custom columns.	
--as string	Username to impersonate for the operation	-o=custom-columns-file=<filename>	Print a table using the custom columns template in the <filename> file.	
--certificate-authority string	Path to a cert file for the certificate authority	-o=json	Output a JSON formatted API object.	
--client-certificate string	Path to a client certificate file for TLS	-o=jsonpath=<template>	Print the fields defined in a jsonpath expression.	
--client-key string	Path to a client key file for TLS	-o=jsonpath-file=<filename>	Print the fields defined by the jsonpath expression in the <filename> file.	
--cluster string	The name of the kubeconfig cluster to use	-o=name	Print only the resource name and nothing else.	
--context string	The name of the kubeconfig context to use	-o=wide	Output in the plain-text format with any additional information. For pods, the node name is included.	
--insecure-skip-tls-verify	If true, the server's certificate will not be checked for validity. HTTPS connections insecure	-o=yaml	Output a YAML formatted API object.	
--kubeconfig string	Path to the kubeconfig file to use for CLI requests.	Common Operation Examples		
--log-backtrace-at traceLocation	when logging hits line file:N, emit a stack trace (default :0)	Command	Description	
--log-dir string	If non-empty, write log files in this directory	\$ kubectl create -f example-service.yaml	// Create a service using the definition in example-service.yaml.	
--logtostderr	log to standard error instead of files	\$ kubectl create -f example-controller.yaml	// Create a replication controller using the definition in example-controller.yaml.	
--match-server-version	Require server version to match client version	\$ kubectl create -f <directory>	// Create the objects that are defined in any .yaml, .yml, or .json file within the <directory> directory.	
-n, --namespace string	If present, the namespace scope for this CLI request	\$ kubectl get pods	// List all pods in plain-text output format.	
--password string	Password for basic authentication to the API server	\$ kubectl get pods -o wide	// List all pods in plain-text output format and includes additional information (such as node name).	
--request-timeout string	The length of time to wait before giving up on a single server request. Non-zero values should contain a corresponding time unit (e.g. 1s, 2m, 3h). A value of zero means don't timeout requests. (default "0")	\$ kubectl get replicationcontroller <rc-name>	// List the replication controller with the specified name in plain-text output format. Tip: You can shorten and replace the 'replicationcontroller' resource type with the alias 'rc'.	
-s, --server string	The address and port of the Kubernetes API server	\$ kubectl get rc,services	// List all replication controllers and services together in plain-text output format.	
--stderrthreshold severity	logs at or above this threshold go to stderr (default 2)	\$ kubectl describe nodes <node-name>	// Display the details of the node with name <node-name>.	
--token string	Bearer token for authentication to the API server	\$ kubectl describe pods<pod-name>	// Display the details of the pod with name <pod-name>.	
--user string	The name of the kubeconfig user to use	\$ kubectl describe pods <rc-name>	// Display the details of all the pods that are managed by the replication controller named <rc-name>.	
--username string	Username for basic authentication to the API server	\$ kubectl delete -f pod.yaml	// Remember: Any pods that are created by the replication controller get prefixed with the name of the replication controller.	
-v, --v Level	log level for V logs	\$ kubectl delete pods,services -l name=<label-name>	// Delete a pod using the type and name specified in the pod.yaml file.	
--vmodule moduleSpec	comma-separated list of pattern=N settings for file-filtered logging	\$ kubectl delete pods<pod-name>	// Delete all the pods and services that have the label name=<label-name>.	
		\$ kubectl delete pods --all	// Delete all pods.	
		\$ kubectl exec <pod-name> date	// Get output from running 'date' from pod <pod-name>. By default, output is from the first container.	
		\$ kubectl exec <pod-name> -c <container-name> date	// Get output from running 'date' in container <container-name> of pod <pod-name>.	
		\$ kubectl exec -ti <pod-name> /bin/bash	// Get an interactive TTY and run /bin/bash from pod <pod-name>. By default, output is from the first container.	
		\$ kubectl logs <pod-name>	// Return a snapshot of the logs from pod <pod-name>.	
		\$ kubectl logs -f <pod-name>	// Start streaming the logs from pod <pod-name>. This is similar to the 'tail -f' Linux command.	

Kubernetes Cheatsheet