**Operations**

The following table includes short descriptions and the general syntax for all of the kubectl operations:

| **Operation** | **Syntax** | **Description** |
| --- | --- | --- |
| annotate | kubectl annotate (-f FILENAME \| TYPE NAME \| TYPE/NAME) KEY\_1=VAL\_1 ... KEY\_N=VAL\_N [--overwrite] [--all] [--resource-version=version] [flags] | Add or update the annotations of one or more resources. |
| api-versions | kubectl api-versions [flags] | List the API versions that are available. |
| apply | kubectl apply -f FILENAME [flags] | Apply a configuration change to a resource from a file or stdin. |
| attach | kubectl attach POD -c CONTAINER [-i] [-t] [flags] | Attach to a running container either to view the output stream or interact with the container (stdin). |
| autoscale | kubectl autoscale (-f FILENAME \| TYPE NAME \| TYPE/NAME) [--min=MINPODS] --max=MAXPODS [--cpu-percent=CPU] [flags] | Automatically scale the set of pods that are managed by a replication controller. |
| cluster-info | kubectl cluster-info [flags] | Display endpoint information about the master and services in the cluster. |
| config | kubectl config SUBCOMMAND [flags] | Modifies kubeconfig files. See the individual subcommands for details. |
| create | kubectl create -f FILENAME [flags] | Create one or more resources from a file or stdin. |
| delete | kubectl delete (-f FILENAME \| TYPE [NAME \| /NAME \| -l label \| --all]) [flags] | Delete resources either from a file, stdin, or specifying label selectors, names, resource selectors, or resources. |
| describe | kubectl describe (-f FILENAME \| TYPE [NAME\_PREFIX \| /NAME \| -l label]) [flags] | Display the detailed state of one or more resources. |
| diff | kubectl diff -f FILENAME [flags] | Diff file or stdin against live configuration (**BETA**) |
| edit | kubectl edit (-f FILENAME \| TYPE NAME \| TYPE/NAME) [flags] | Edit and update the definition of one or more resources on the server by using the default editor. |
| exec | kubectl exec POD [-c CONTAINER] [-i] [-t] [flags] [-- COMMAND [args...]] | Execute a command against a container in a pod. |
| explain | kubectl explain [--recursive=false] [flags] | Get documentation of various resources. For instance pods, nodes, services, etc. |
| expose | 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] | Expose a replication controller, service, or pod as a new Kubernetes service. |
| get | kubectl get (-f FILENAME \| TYPE [NAME \| /NAME \| -l label]) [--watch] [--sort-by=FIELD] [[-o \| --output]=OUTPUT\_FORMAT] [flags] | List one or more resources. |
| label | kubectl label (-f FILENAME \| TYPE NAME \| TYPE/NAME) KEY\_1=VAL\_1 ... KEY\_N=VAL\_N [--overwrite] [--all] [--resource-version=version] [flags] | Add or update the labels of one or more resources. |
| logs | kubectl logs POD [-c CONTAINER] [--follow] [flags] | Print the logs for a container in a pod. |
| patch | kubectl patch (-f FILENAME \| TYPE NAME \| TYPE/NAME) --patch PATCH [flags] | Update one or more fields of a resource by using the strategic merge patch process. |
| port-forward | kubectl port-forward POD [LOCAL\_PORT:]REMOTE\_PORT [...[LOCAL\_PORT\_N:]REMOTE\_PORT\_N] [flags] | Forward one or more local ports to a pod. |
| proxy | kubectl proxy [--port=PORT] [--www=static-dir] [--www-prefix=prefix] [--api-prefix=prefix] [flags] | Run a proxy to the Kubernetes API server. |
| replace | kubectl replace -f FILENAME | Replace a resource from a file or stdin. |
| rolling-update | kubectl rolling-update OLD\_CONTROLLER\_NAME ([NEW\_CONTROLLER\_NAME] --image=NEW\_CONTAINER\_IMAGE \| -f NEW\_CONTROLLER\_SPEC) [flags] | Perform a rolling update by gradually replacing the specified replication controller and its pods. |
| run | kubectl run NAME --image=image [--env="key=value"] [--port=port] [--replicas=replicas] [--dry-run=bool] [--overrides=inline-json] [flags] | Run a specified image on the cluster. |
| scale | kubectl scale (-f FILENAME \| TYPE NAME \| TYPE/NAME) --replicas=COUNT [--resource-version=version] [--current-replicas=count] [flags] | Update the size of the specified replication controller. |
| stop | kubectl stop | Deprecated: Instead, see kubectl delete. |
| version | kubectl version [--client] [flags] | Display the Kubernetes version running on the client and server. |