Glossary

pod	Group of containers that are deployed together on the same host
service	Abstraction which defines a logical set of pods and a policy by which to access them
node	Worker machine in the cluster
configmap	Public configuration data in the form of a key-value pair
secret	Private configuration data
job	Creates pod(s) and ensures that a specified number successfully terminate
cronjob	Time-based job
ingress	API object that manages external access to the services in a cluster, typically HTTP.
deployment	Desired state of pods for declarative updates
daemonset	Specification that requires a particular pod to be run on some or all nodes
replicaset	Requirement that a specified number of pods are running at any given time
persistentvolume	Persistent storage in the cluster with an independent lifecycle
persistentvolumeclaim	Request for storage (for a `PersistentVolume`) by a user

Cluster Management

`kubectl proxy`	Proxy the api server API to your local machine on port 8001
`kubectl port-forward {pod_name} {local_port}: {remote_port}`	Forward the pod port to your local port
`kubectl scale --replicas=3 {resource_type}/{resource_name}`	Scale given resource

Viewing Objects

`kubectl get --all-namespaces {object_type}`	Get objects from all namespaces
`kubectl describe {object_type}`	Describes the given objects
`kubectl get services --sort-by=.metadata.name`	List services sorted by name
`kubectl get pods --field-selector=status.phase=Running`	Get list of running pods
`kubectl get events`	Show events

Modifying Objects

`kubectl apply -f ./mymanifest.yaml`	Apply a configuration to a object by filename or stdin. Also overrides the existing configuration.
`kubectl create -f ./mymanifest.yaml`	Create object(s)
`kubectl create -f ./dir`	Create object(s) in all manifest files in dir
`kubectl create -f https://git.io/vPieo`	Create from url
`kubectl run nginx --image=nginx`	Start a single instance of nginx
`kubectl replace --force -f ./pod.json`	Force replace, delete and then re-create the resource. Will cause a service outage.
`kubectl edit svc/dockerregistry`	Edit the service named docker-registry