

### 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 <code>PersistentVolume</code> ) by a user

### Cluster Management

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

### Viewing Objects

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

### Modifying Objects

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



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