

vim deployment.yml

kubectl create -f deployment.yml
(for creating deployment)

kubectl get all

(It shows the all info. about ^{objects} how many pods are created, how many deployments are done and how many replica sets are there)

kubectl describe deployment mynginx | less

kubectl set image deploy mynginx c1=nginx:1.9.1
(It updates the version of the image which is deployed)

kubectl get all

kubectl describe pod mynginx <name of pod>
(It shows the version has change)


* Logging at the node level -

- Everything a containerized application writes to stdout and stderr is handled and redirected somewhere by a container engine.
- By default, if a container restarts, the kubelet keeps one terminated container with its logs.
- If a pod is evicted from the node, all corresponding containers are also evicted, along with their logs.

* Kubernetes Controller and Services -

Controllers :-

K8S controllers are control loops that watch the state of your cluster, then make or request changes where needed. Each controller tries to move the current cluster state closer to the desired state.

-  Monitor everything which is happening in the system. Watches the entire state of your cluster and does requests for changing if required.

Types of Controllers

① Replica Set -

A ReplicaSet's purpose is to maintain a stable set of replica pods running at any given time. As such, it is often used to guarantee the availability of a specific number of identical pods.

② Deployment -

You describe a desired state in a deployment, and the deployment controller changes the actual state to

the desired state at a controlled rate.

③ Stateful set -

Is the workload API object used to manage stateful applications. This manages the deployment and scaling of a set of pods, and provides guarantees about the ordering and uniqueness of these pods.

④ Daemon sets -

A daemon sets ensures that all (or some) nodes run a copy of a pod. As nodes are added to the cluster, pods are added to them. As nodes are removed from the cluster, those pods are garbage collected.