High availability .

Helf healing

Rollout and roll back

ReplicaSet : make sures the desired no of pods in k8s node .

Nginx-replicaset.yaml

A screen shot of a computer program

Description automatically generated

Kubectl apply -f Nginx-replicaset.yaml

Replicaset will be created . and 3 pods will be create in the replicaset.

Try to delete one 1 pod and check .

Kubectl delete pod <podname>

Replicaset will automatically creates one new pod and there will be always 3 pod in the replicaset

Note Deployment object will automatically created replicaset .

RollOut and Roll Back

1. Create deployment spec file
2. Create deployment using kubectl apply -f <filename>
3. We can create rollout in two ways .

Changing the image in the container

kubectl set image deployment/nginx-deployment nginx-container=nginx:1.20

kubectl set image deployment/nginx-deployment nginx-container=nginx:1.20 –record

--record flag record change cause of the deployment .

We can also record the change cause in yaml file also with annotations

A screen shot of a computer screen

Description automatically generated

recreating the deployment with apply

kubectl apply -f <filename>

1. Checking the rollout history

**kubectl rollout history deployment <deplymentname>**

RollBack :

**kubectl rollout undo deployment nginx-deployment**

**kubectl rollout undo deployment nginx-deployment –to-revision=1**

**check the rollout status**

**kubectl rollout status deployment <deploymentname>**