Day 81

DIY

DIY Questions:

1.How to create a replicaset with 3 replicas?

Answer:

kubectl create replicaset my-replicaset --replicas=3 --image=nginx:latest

apiVersion: apps/v1

kind: ReplicaSet

metadata:

name: frontend-app

spec:

replicas: 3

selector:

matchLabels:

tier: frontend

template:

metadata:

labels:

tier: frontend

spec:

containers:

- name: webcontainer

image: httpd:latest

cat replicas.yaml

kubectl explain replicaset

kubectl create –f replicaset.yaml

kubectl get rs

kubectl get po

2.How to create a deployment named testdeploy with 2 replicas and container image as nginx:1.17?

Answer:

Kubctl get deploy ,po

kubectl create deployment testdeploy --image=nginx:1.17 --replicas=2

3.Expose the above-created deployment using the NodePort Service, name the service as testsvc

Answer:

kubectl expose deployment testdeploy --type=NodePort --port=80 --target-port 80 --name=testsvc

kubectl get svc

4. How many total endpoints will be there for testsvc?

a)0

b)1

c) 2

d) 3

Answer:

**c) 2**

kubectl get endpoints testsvc

the number of total endpoints for "testsvc" would be 2. One endpoint for each replica of the "testdeploy" deployment.

5.How to manually Scale down the testdeploy to 1 replica?

Answer:

To manually scale down the "testdeploy" deployment to 1 replica, you can use the kubectl scale command:

kubectl scale deployment testdeploy --replicas=1

kubectl get deploy,po

6.How to upgrade the testdeploy first to image nginx:1.18 and then to nginx:1.19?

Answer:

kubectl set image deployment testdeploy nginx=nginx:1.18 --record=true

kubectl set image deployment testdeploy nginx=nginx:1.19 --record=true

7.How to rollback testdeploy from current version (nginx:1.19) to old version (nginx:1.17)?

Answer:

kubectl rollback deployment testdeploy 1

OR

Kubectl rollout undo deploy testdeploy –to-revision=1

8.How to create an autoscaler (HPA) for testdeploy with a CPU threshold of 50% and minimum pods as 1, and the maximum pod's as 3?

Answer:

kubectl autoscale deployment testdeploy --min=1 --max=3 --cpu-percent=50

--name testhpa