**Assignment-Voting-App**

[root@ip-172-31-0-7 ~]# cd $home

[root@ip-172-31-0-7 ~]#

[root@ip-172-31-0-7 ~]# git clone https://github.com/ashishrpandey/example-voting-app

Cloning into 'example-voting-app'...

remote: Enumerating objects: 494, done.

remote: Total 494 (delta 0), reused 0 (delta 0), pack-reused 494

Receiving objects: 100% (494/494), 236.18 KiB | 10.74 MiB/s, done.

Resolving deltas: 100% (179/179), done.

[root@ip-172-31-0-7 ~]#

[root@ip-172-31-0-7 ~]#

[root@ip-172-31-0-7 ~]# cd /root/example-voting-app/k8s-specifications

[root@ip-172-31-0-7 k8s-specifications]# ls

db-deployment.yaml redis-service.yaml vote-deployment.yaml

db-service.yaml result-deployment.yaml vote-service.yaml

redis-deployment.yaml result-service.yaml worker-deployment.yaml

[root@ip-172-31-0-7 k8s-specifications]# ll

total 36

-rw-r--r-- 1 root root 401 Jun 12 11:56 db-deployment.yaml

-rw-r--r-- 1 root root 146 Jun 12 11:56 db-service.yaml

-rw-r--r-- 1 root root 402 Jun 12 11:56 redis-deployment.yaml

-rw-r--r-- 1 root root 152 Jun 12 11:56 redis-service.yaml

-rw-r--r-- 1 root root 299 Jun 12 11:56 result-deployment.yaml

-rw-r--r-- 1 root root 195 Jun 12 11:56 result-service.yaml

-rw-r--r-- 1 root root 289 Jun 12 11:56 vote-deployment.yaml

-rw-r--r-- 1 root root 192 Jun 12 11:56 vote-service.yaml

-rw-r--r-- 1 root root 292 Jun 12 11:56 worker-deployment.yaml

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]# kubectl apply -f .

deployment.apps/db created

service/db created

deployment.apps/redis created

service/redis created

deployment.apps/result created

service/result created

deployment.apps/vote created

service/vote created

deployment.apps/worker created

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]# kubectl get pods

NAME READY STATUS RESTARTS AGE

db-b54cd94f4-xmdbb 1/1 Running 0 23s

kubia-manual 1/1 Running 0 6d7h

nginx-katta 1/1 Running 0 7d4h

redis-868d64d78-bmvr7 1/1 Running 0 23s

result-5d57b59f4b-lqcsp 0/1 ContainerCreating 0 23s

vote-94849dc97-2wj6d 0/1 ContainerCreating 0 22s

worker-dd46d7584-879vq 0/1 ContainerCreating 0 22s

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]# kubectl get svc

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE

db ClusterIP 10.110.135.138 <none> 5432/TCP 2m37s

kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 7d7h

redis ClusterIP 10.103.247.134 <none> 6379/TCP 2m37s

result NodePort 10.104.12.232 <none> 5001:31001/TCP 2m36s

vote NodePort 10.99.55.144 <none> 5000:31000/TCP 2m36s

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]#

GUI Access for voting application-🡪 [Cats vs Dogs!](http://18.142.120.144:31000/) GUI Access for Result application 🡪 [Cats vs Dogs -- Result](http://18.142.120.144:31001/)A screenshot of a computer

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NOTE: Voting App container id vote-94849dc97-2wj6d

[root@ip-172-31-0-7 k8s-specifications]# kubectl get pods

NAME READY STATUS RESTARTS AGE

db-b54cd94f4-xmdbb 1/1 Running 0 6m22s

kubia-manual 1/1 Running 0 6d7h

nginx-katta 1/1 Running 0 7d4h

redis-868d64d78-bmvr7 1/1 Running 0 6m22s

result-5d57b59f4b-lqcsp 1/1 Running 0 6m22s

vote-94849dc97-2wj6d 1/1 Running 0 6m21s

worker-dd46d7584-879vq 1/1 Running 0 6m21s

[root@ip-172-31-0-7 k8s-specifications]#

**Deleting the Vote pod:**

[root@ip-172-31-0-7 k8s-specifications]# kubectl delete po vote-94849dc97-2wj6d

pod "vote-94849dc97-2wj6d" deleted

[root@ip-172-31-0-7 k8s-specifications]# kubectl get pods

NAME READY STATUS RESTARTS AGE

db-b54cd94f4-xmdbb 1/1 Running 0 8m45s

kubia-manual 1/1 Running 0 6d7h

nginx-katta 1/1 Running 0 7d4h

redis-868d64d78-bmvr7 1/1 Running 0 8m45s

result-5d57b59f4b-lqcsp 1/1 Running 0 8m45s

vote-94849dc97-cb2tn 1/1 Running 0 98s

worker-dd46d7584-879vq 1/1 Running 0 8m44s

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]#

NOTE: After deleting the vote pod, a new pod was created, and the app was still working on the GUI, but now it's responding with a new container ID, as shown below.

Container id: vote-94849dc97-cb2tn

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**Deleting the Worker pod:**

[root@ip-172-31-0-7 k8s-specifications]# kubectl delete po worker-dd46d7584-879vq

pod "worker-dd46d7584-879vq" deleted

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]# kubectl get pods

NAME READY STATUS RESTARTS AGE

db-b54cd94f4-xmdbb 1/1 Running 0 9m26s

kubia-manual 1/1 Running 0 6d7h

nginx-katta 1/1 Running 0 7d4h

redis-868d64d78-bmvr7 1/1 Running 0 9m26s

result-5d57b59f4b-lqcsp 1/1 Running 0 9m26s

vote-94849dc97-cb2tn 1/1 Running 0 2m19s

worker-dd46d7584-hsqtk 1/1 Running 0 23s

[root@ip-172-31-0-7 k8s-specifications]# kubectl logs worker-dd46d7584-879v

Error from server (NotFound): pods "worker-dd46d7584-879v" not found

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]# kubectl get logs worker-dd46d7584-hsqtk

error: the server doesn't have a resource type "logs"

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]# kubectl logs worker-dd46d7584-hsqtk

Connected to db

Found redis at 10.103.247.134

Connecting to redis

NOTE: After deleting the worker pod, it didn’t impact the vote, and in the Result app, a new pod has also been created. It's showing connected to the database by using the logs command as shown above. And with the old pod name, no logs have been printed.

[root@ip-172-31-0-7 k8s-specifications]# kubectl delete po db-b54cd94f4-xmdbb

pod "db-b54cd94f4-xmdbb" deleted

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]# kubectl get pods

NAME READY STATUS RESTARTS AGE

db-b54cd94f4-6tbtd 1/1 Running 0 4m24s

kubia-manual 1/1 Running 0 6d7h

nginx-katta 1/1 Running 0 7d4h

redis-868d64d78-bmvr7 1/1 Running 0 14m

result-5d57b59f4b-lqcsp 1/1 Running 1 14m

vote-94849dc97-cb2tn 1/1 Running 0 6m55s

worker-dd46d7584-hsqtk 1/1 Running 1 4m59s

[root@ip-172-31-0-7 k8s-specifications]#

[root@ip-172-31-0-7 k8s-specifications]#

NOTE: After deleting the DB pod, I observed both the result and worker apps get restarted, and the result app stopped working.

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NOTE: Previous data is not present in the result app GUI, due to which the result app stopped working. I have voted again, and the data came from the vote app. After that, the result app starts showing the result as per the new input (dog). As shown below:

GUI Access for the voting application 🡪 [Cats vs Dogs!](http://18.142.120.144:31000/)

A screenshot of a computer

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GUI Access for the result application 🡪 [Cats vs Dogs -- Result](http://18.142.120.144:31001/)

A screenshot of a computer

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