

Assignment-Voting APP

Master -1

```
[ec2-user@ip-172-31-8-147 ~]$ cd $home
[ec2-user@ip-172-31-8-147 ~]$ 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 | 10.27 MiB/s, done.
Resolving deltas: 100% (179/179), done.
[ec2-user@ip-172-31-8-147 ~]$ sudo -i
[root@ip-172-31-8-147 ~]#
[root@ip-172-31-8-147 ~]# cd /root/example-voting-app/k8s-specifications
[root@ip-172-31-8-147 k8s-specifications]#
[root@ip-172-31-8-147 k8s-specifications]# ls -lrt
total 36
-rw-r--r-- 1 root root 146 Jun  8 15:06 db-service.yaml
-rw-r--r-- 1 root root 401 Jun  8 15:06 db-deployment.yaml
-rw-r--r-- 1 root root 292 Jun  8 15:06 worker-deployment.yaml
-rw-r--r-- 1 root root 192 Jun  8 15:06 vote-service.yaml
-rw-r--r-- 1 root root 289 Jun  8 15:06 vote-deployment.yaml
-rw-r--r-- 1 root root 195 Jun  8 15:06 result-service.yaml
-rw-r--r-- 1 root root 299 Jun  8 15:06 result-deployment.yaml
-rw-r--r-- 1 root root 152 Jun  8 15:06 redis-service.yaml
-rw-r--r-- 1 root root 402 Jun  8 15:06 redis-deployment.yaml
[root@ip-172-31-8-147 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-172-31-8-147 k8s-specifications]# kubectl get pod
NAME                                READY STATUS  RESTARTS  AGE
db-b54cd94f4-tnrmz                 1/1   Running  0         7s
redis-868d64d78-vjg5h              1/1   Running  0         7s
result-5d57b59f4b-hhpsz            1/1   Running  0         7s
vote-94849dc97-dcdrr              1/1   Running  0         7s
worker-dd46d7584-4ldbl             1/1   Running  0         7s
[root@ip-172-31-8-147 k8s-specifications]#
```

1.What happen When all pod up?

User Observation

Cats vs Dogs!

CATS



DOGS

(Tip: you can change your vote)

CATS
100.0%

DOGS
0.0%

```
[root@ip-172-31-8-147 k8s-specifications]# curl 13.229.148.76:31000
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>Cats vs Dogs!</title>
  <base href="/index.html">
  <meta name = "viewport" content = "width=device-width, initial-scale = 1.0">
  <meta name="keywords" content="docker-compose, docker, stack">
  <meta name="author" content="Tutum dev team">
  <link rel='stylesheet' href="/static/stylesheets/style.css" />
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-awesome/4.4.0/css/font-
awesome.min.css">
</head>
<body>
  <div id="content-container">
    <div id="content-container-center">
      <h3>Cats vs Dogs!</h3>
      <form id="choice" name='form' method="POST" action="/">
        <button id="a" type="submit" name="vote" class="a" value="a">Cats</button>
        <button id="b" type="submit" name="vote" class="b" value="b">Dogs</button>
      </form>
      <div id="tip">
        (Tip: you can change your vote)
      </div>
    </div>
  </div>
</body>
</html>
```

```

    <div id="hostname">
      Processed by container ID vote-94849dc97-dcdrr
    </div>
  </div>
</div>
<script src="http://code.jquery.com/jquery-latest.min.js" type="text/javascript"></script>
<script src="//cdnjs.cloudflare.com/ajax/libs/jquery-cookie/1.4.1/jquery.cookie.js"></script>

</body>
</html>[root@ip-172-31-8-147 k8s-specifications]# curl 13.229.148.76:31001
<!DOCTYPE html>
<html ng-app="catsvsdogs">
  <head>
    <meta charset="utf-8">
    <title>Cats vs Dogs -- Result</title>
    <base href="/index.html">
    <meta name = "viewport" content = "width=device-width, initial-scale = 1.0">
    <meta name="keywords" content="docker-compose, docker, stack">
    <meta name="author" content="Docker">
    <link rel='stylesheet' href='/stylesheets/style.css' />
  </head>
  <body ng-controller="statsCtrl" >
    <div id="background-stats">
      <div id="background-stats-1">
        </div><!--
--><div id="background-stats-2">
        </div>
      </div>
      <div id="content-container">
        <div id="content-container-center">
          <div id="choice">
            <div class="choice cats">
              <div class="label">Cats</div>
              <div class="stat">{{aPercent | number:1}}%</div>
            </div>
            <div class="divider"></div>
            <div class="choice dogs">
              <div class="label">Dogs</div>
              <div class="stat">{{bPercent | number:1}}%</div>
            </div>
          </div>
          </div>
        </div>
        <div id="result">
          <span ng-if="total == 0">No votes yet</span>
          <span ng-if="total == 1">{{total}} vote</span>
          <span ng-if="total >= 2">{{total}} votes</span>
        </div>
        <script src="socket.io.js"></script>
        <script src="angular.min.js"></script>
        <script src="app.js"></script>
      </body>

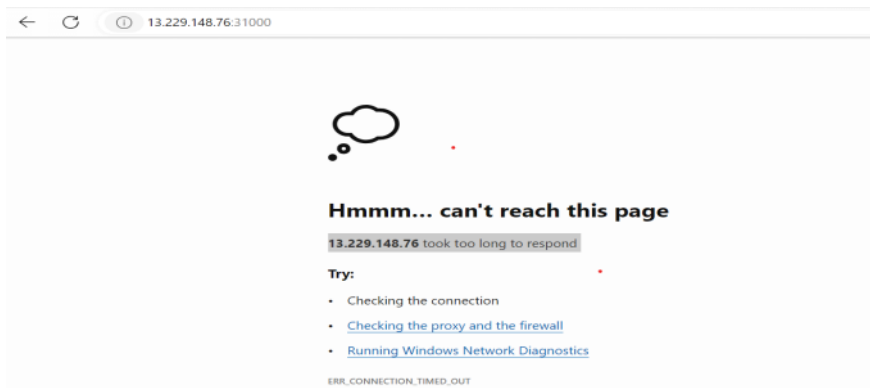
```

</html>

2. what happens after vote pod deletion?

```
[root@ip-172-31-8-147 k8s-specifications]# kubectl delete deploy vote
deployment.apps "vote" deleted
[root@ip-172-31-8-147 k8s-specifications]#
[root@ip-172-31-8-147 k8s-specifications]#
[root@ip-172-31-8-147 k8s-specifications]# kubectl get pod
NAME                READY STATUS  RESTARTS  AGE
db-b54cd94f4-tnrmz   1/1   Running  0         8m33s
redis-868d64d78-vjg5h 1/1   Running  0         8m33s
result-5d57b59f4b-hhpsz 1/1   Running  0         8m33s
worker-dd46d7584-4ldbl 1/1   Running  0         8m33s
```

Front end observation : Can't Reach to this page



Result app : Its showing same result



Unix observation Vote

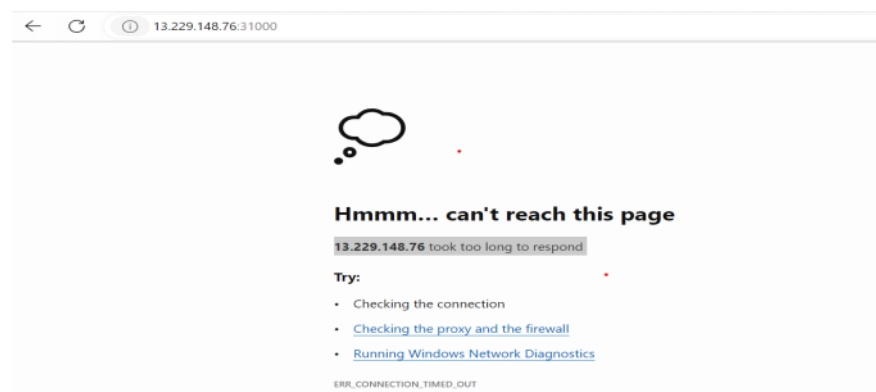
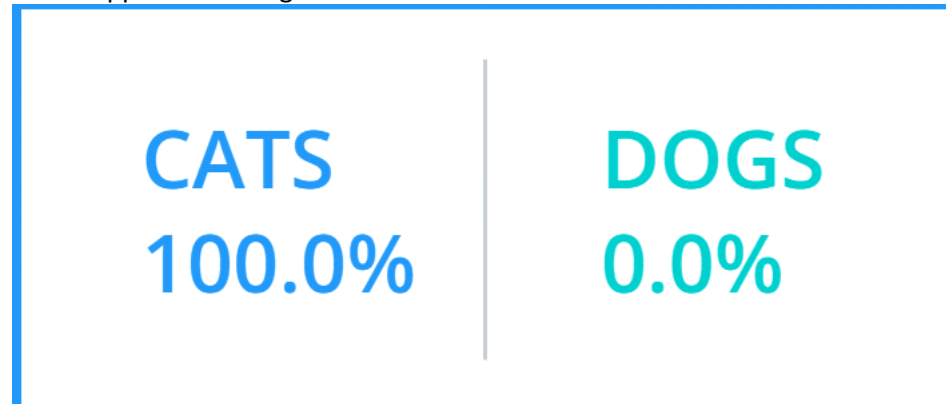
```
[root@ip-172-31-8-147 k8s-specifications]# curl 13.229.148.76:31000
curl: (7) Failed to connect to 13.229.148.76 port 31000 after 0 ms: Couldn't connect to server
[root@ip-172-31-8-147 k8s-specifications]#
```

3 .Now Delete the Worker Pod

```
[root@ip-172-31-8-147 k8s-specifications]# kubectl delete deploy vote
deployment.apps "vote" deleted
[root@ip-172-31-8-147 k8s-specifications]#
[root@ip-172-31-8-147 k8s-specifications]#
```

```
[root@ip-172-31-8-147 k8s-specifications]# kubectl get pod
NAME                READY STATUS  RESTARTS  AGE
db-b54cd94f4-tnrmz   1/1   Running  0         16m
redis-868d64d78-vjg5h 1/1   Running  0         16m
result-5d57b59f4b-hhpsz 1/1   Running  0         16m
```

Result app : Its showing same result



4. After Delete the Db pod

After delete the db Pod the result pod get restart once.

```
[root@ip-172-31-8-147 k8s-specifications]# kubectl delete deploy db
deployment.apps "db" deleted
```

```
[root@ip-172-31-8-147 k8s-specifications]# kubectl get pod
NAME                READY STATUS  RESTARTS  AGE
redis-868d64d78-vjg5h 1/1   Running  0         19m
result-5d57b59f4b-hhpsz 1/1   Running  1         19m
```

```
[root@ip-172-31-8-147 k8s-specifications]# kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
db-b54cd94f4-j59wx                 1/1     Terminating    0          21m
redis-868d64d78-6bzzv              1/1     Running         0          19m
result-5d57b59f4b-56j2w            0/1     Error          0          19m
[root@ip-172-31-8-147 k8s-specifications]# kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
redis-868d64d78-6bzzv              1/1     Running         0          19m
result-5d57b59f4b-56j2w            1/1     Running         1          20m
```

Result App stop working After Delete the db pod ?

All the storing or retrieving data is no more present due to which resultapp stop Working



For bring the Result App again working below is the Procedure

```
[root@ip-172-31-8-147 k8s-specifications]# kubectl apply -f db-deployment.yaml
deployment.apps/db created
[root@ip-172-31-8-147 k8s-specifications]# kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
db-b54cd94f4-vx4v4                 1/1     Running    0          6s
redis-868d64d78-vjg5h              1/1     Running    0          32m
result-5d57b59f4b-hhpsz            1/1     Running    1          32m
[root@ip-172-31-8-147 k8s-specifications]#
[root@ip-172-31-8-147 k8s-specifications]#
[root@ip-172-31-8-147 k8s-specifications]# kubectl apply -f worker-deployment.yaml
deployment.apps/worker created
[root@ip-172-31-8-147 k8s-specifications]# kubectl apply -f vote-deployment.yaml
deployment.apps/vote created
[root@ip-172-31-8-147 k8s-specifications]# kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
db-b54cd94f4-vx4v4                 1/1     Running    0          54s
redis-868d64d78-vjg5h              1/1     Running    0          33m
result-5d57b59f4b-hhpsz            1/1     Running    1          33m
vote-94849dc97-bkbbk9              1/1     Running    0          3s
worker-dd46d7584-8pvfh              1/1     Running    0          22s
[root@ip-172-31-8-147 k8s-specifications]#
```

Cats vs Dogs!

CATS



DOGS

(Tip: you can change your vote)

CATS
100.0%

DOGS
0.0%