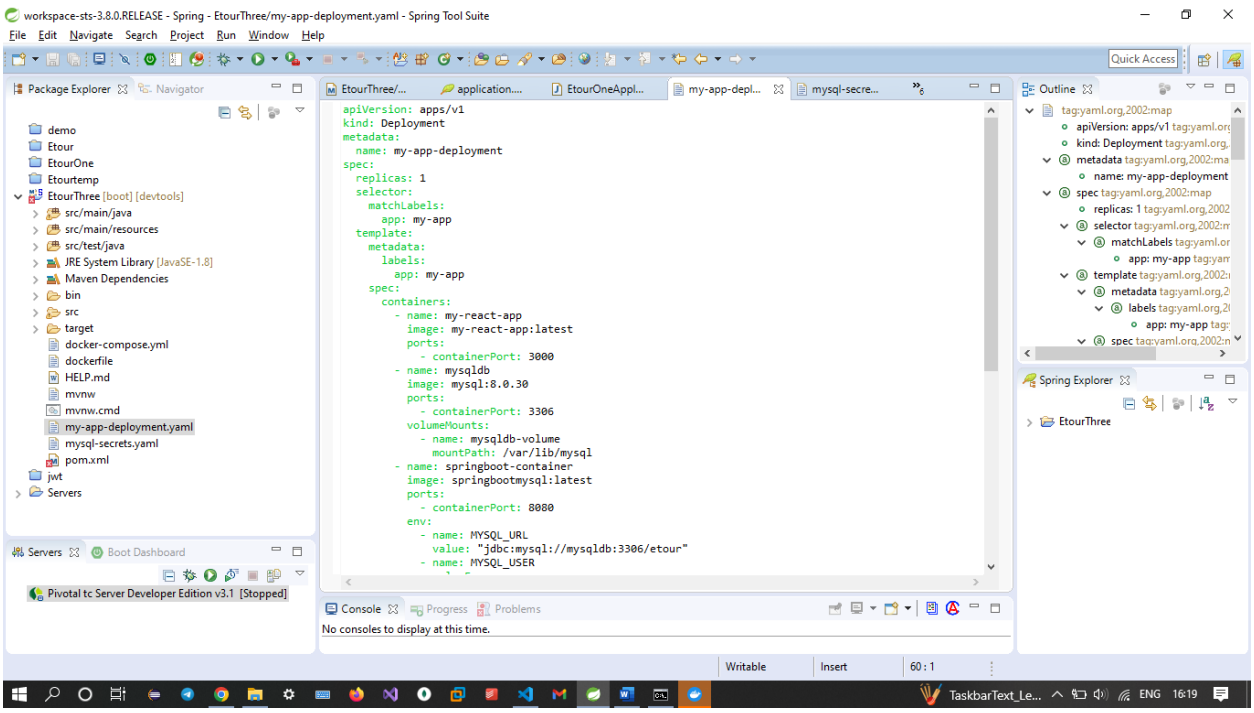
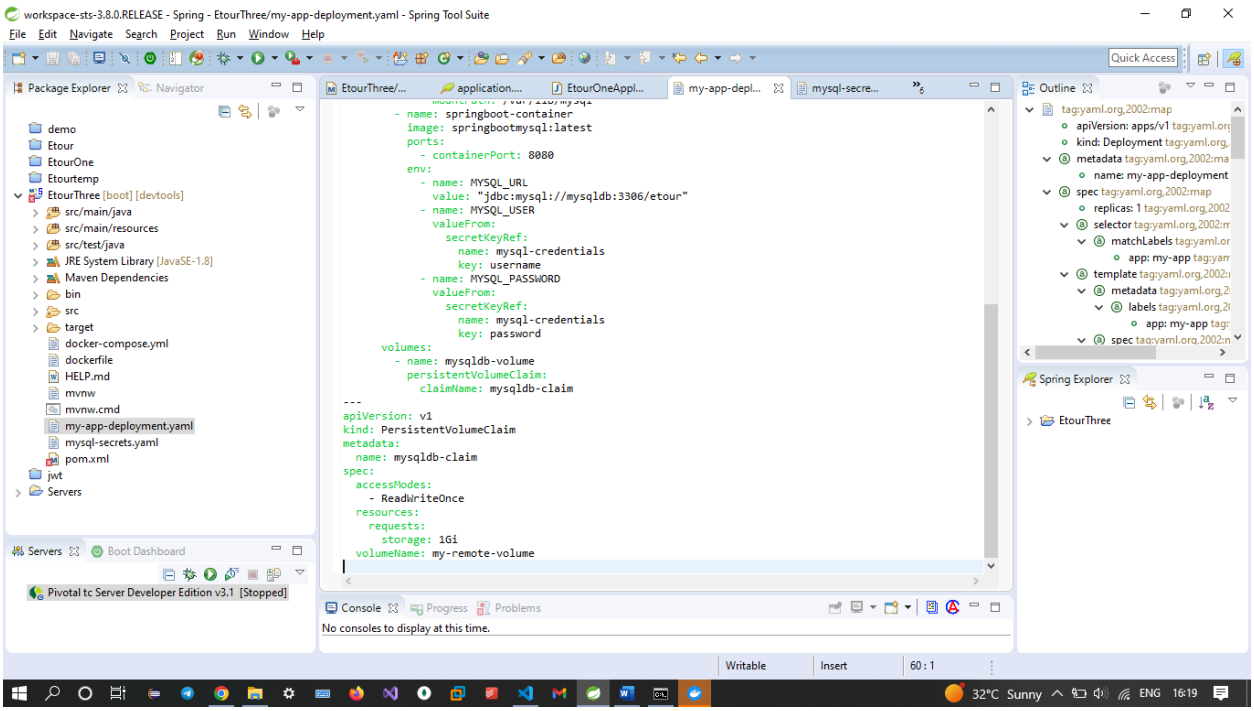
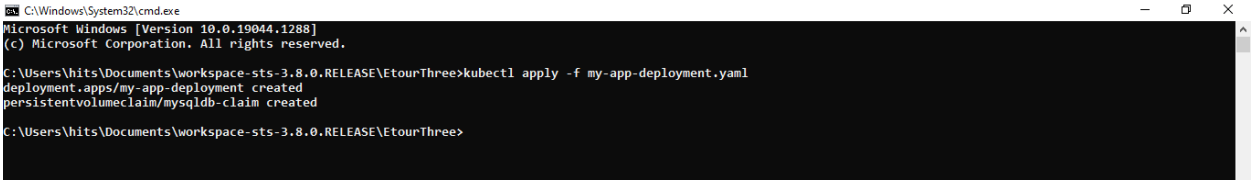
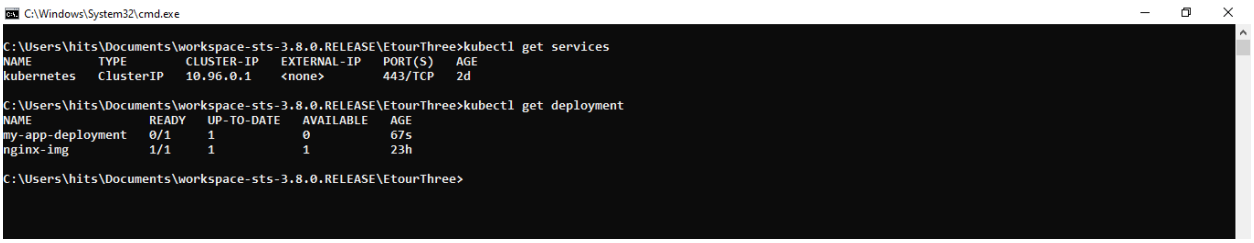
Start minikube

Create yaml file




workspace-sts-3.8.0.RELEASE - Spring - EtourThree/my-app-deployment.yaml - Spring Tool Suite
File Edit Navigate Search Project Run Window Help
Package Explorer
Navigator
demo
Etour
EtourOne
Etourtemp
EtourThree [boot] [devtools]
src/main/java
src/main/resources
src/test/java
JRE System Library [JavaSE-1.8]
Maven Dependencies
bin
src
target
docker-compose.yml
dockerfile
HELP.md
mvnw
mvnw.cmd
my-app-deployment.yaml
mysql-secrets.yaml
pom.xml
jwt
Servers
Servers
Boot Dashboard
Pivotal tc Server Developer Edition v3.1 [Stopped]
EtourThree/...
application....
EtourOneAppl...
my-app-depl...
mysql-secre...
- name: springboot-container
image: springbootmysql:latest
ports:
- containerPort: 8080
env:
- name: MYSQL_URL
value: "jdbc:mysql://mysqldb:3306/etour"
- name: MYSQL_USER
valueFrom:
secretKeyRef:
name: mysql-credentials
key: username
- name: MYSQL_PASSWORD
valueFrom:
secretKeyRef:
name: mysql-credentials
key: password
volumes:
- name: mysqldb-volume
persistentVolumeClaim:
claimName: mysqldb-claim
---
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
name: mysqldb-claim
spec:
accessModes:
- ReadWriteOnce
resources:
requests:
storage: 1Gi
volumeName: my-remote-volume
Console
Progress
Problems
No consoles to display at this time.
Outline
Spring Explorer
EtourThree
Writable
Insert
60 : 1
32°C Sunny
ENG
16:19


C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19044.1288]
(c) Microsoft Corporation. All rights reserved.
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>kubectl apply -f my-app-deployment.yaml
deployment.apps/my-app-deployment created
persistentvolumeclaim/mysqldb-claim created
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>

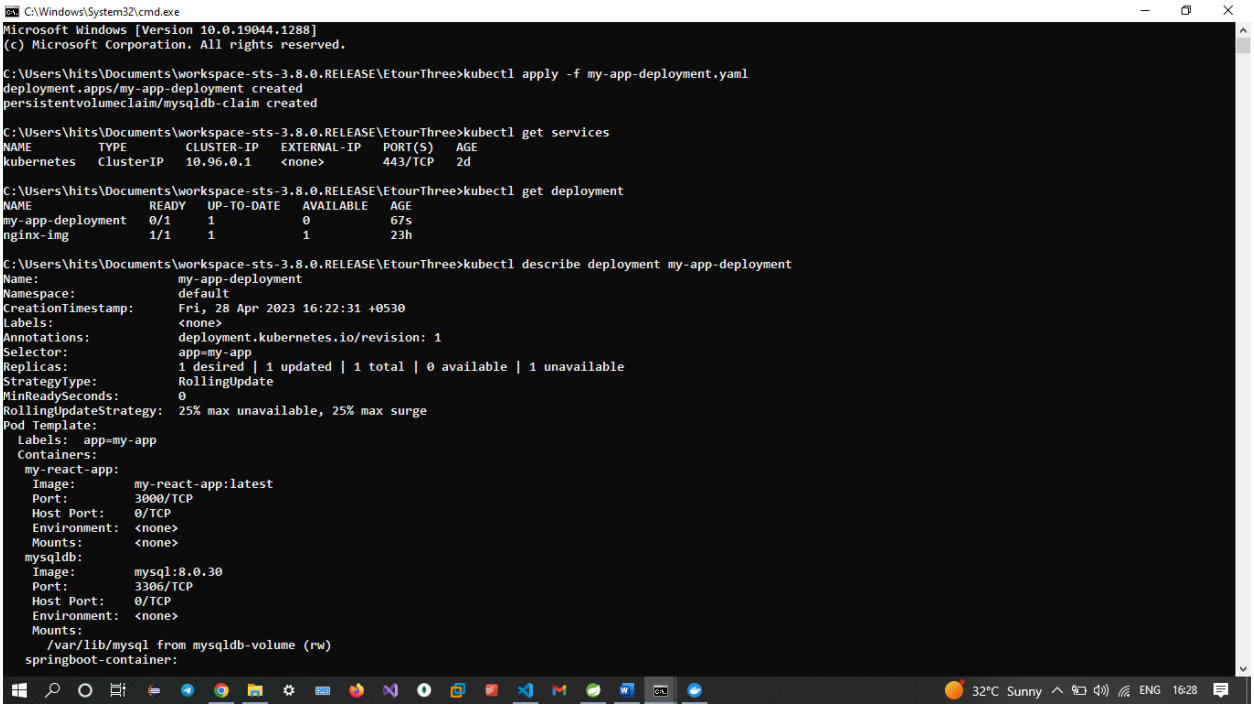

C:\Windows\System32\cmd.exe
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 2d
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>kubectl get deployment
NAME READY UP-TO-DATE AVAILABLE AGE
my-app-deployment 0/1 1 0 67s
nginx-img 1/1 1 1 23h
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>

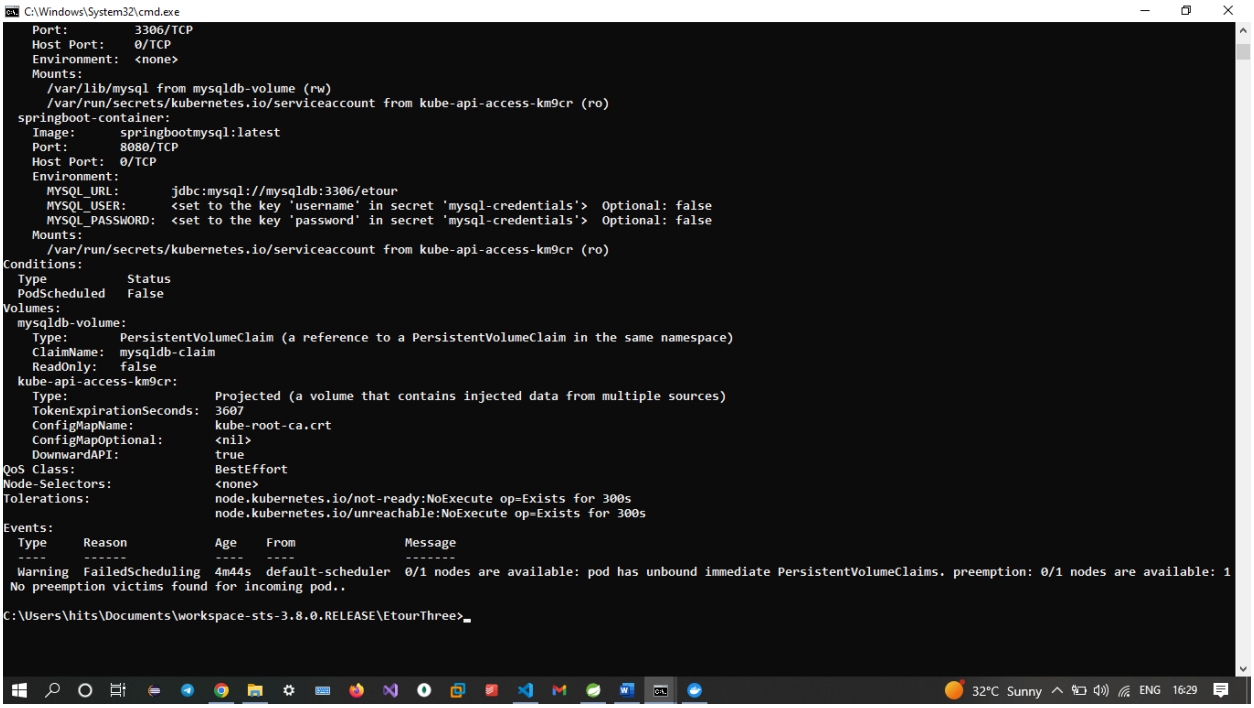
C:\Windows\System32\cmd.exe

```
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>kubectl describe deployment my-app-deployment
Name:                   my-app-deployment
Namespace:              default
CreationTimestamp:      Fri, 28 Apr 2023 16:22:31 +0530
Labels:                 <none>
Annotations:            deployment.kubernetes.io/revision: 1
Selector:               app=my-app
Replicas:               1 desired | 1 updated | 1 total | 0 available | 1 unavailable
StrategyType:           RollingUpdate
MinReadySeconds:        0
RollingUpdateStrategy:  25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=my-app
  Containers:
   my-react-app:
    Image:        my-react-app:latest
    Port:         3000/TCP
    Host Port:    0/TCP
    Environment:  <none>
    Mounts:       <none>
   mysqldb:
    Image:        mysql:8.0.30
    Port:         3306/TCP
    Host Port:    0/TCP
    Environment:  <none>
    Mounts:
      /var/lib/mysql from mysqldb-volume (rw)
   springboot-container:
    Image:      springbootmysql:latest
    Port:       8080/TCP
    Host Port:  0/TCP
    Environment:
      MYSQL_URL:       jdbc:mysql://mysqldb:3306/etour
      MYSQL_USER:      <set to the key 'username' in secret 'mysql-credentials'>  Optional: false
      MYSQL_PASSWORD:  <set to the key 'password' in secret 'mysql-credentials'>  Optional: false
    Mounts:            <none>
  Volumes:
   mysqldb-volume:
    Type:       PersistentVolumeClaim (a reference to a PersistentVolumeClaim in the same namespace)
    ClaimName:  mysqldb-claim
    ReadOnly:   false
Conditions:
  Type           Status  Reason
```

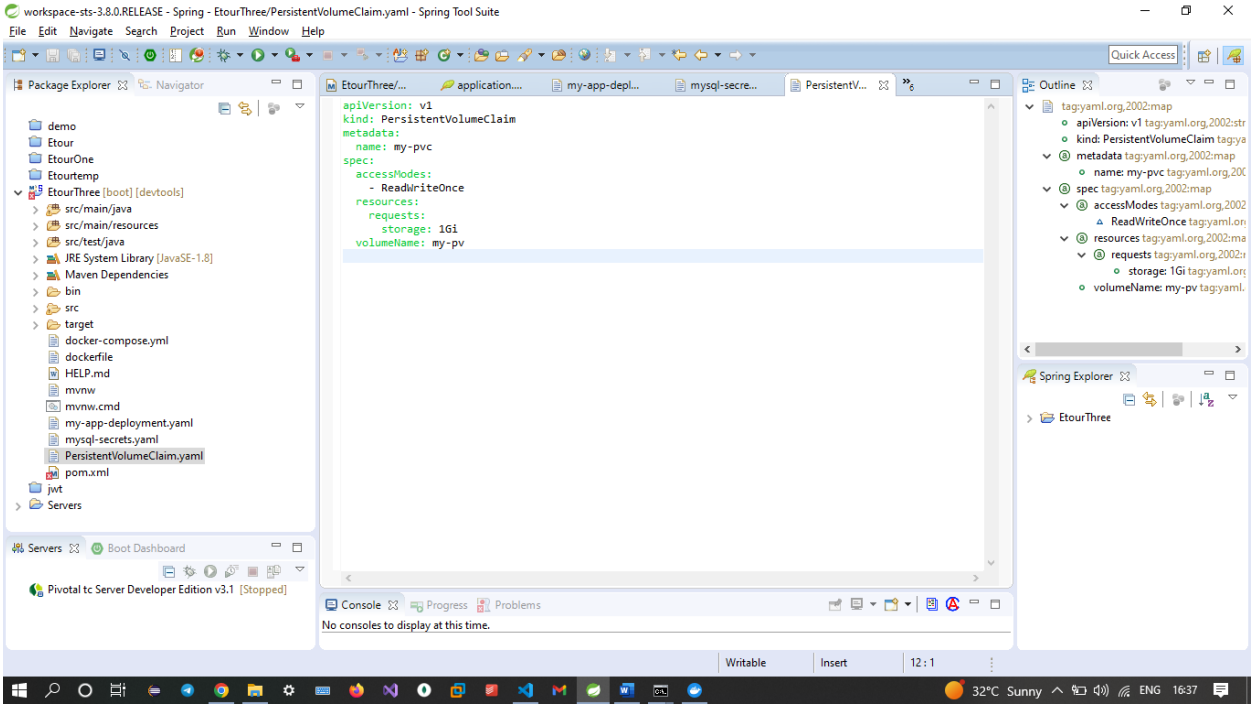

Select C:\Windows\System32\cmd.exe

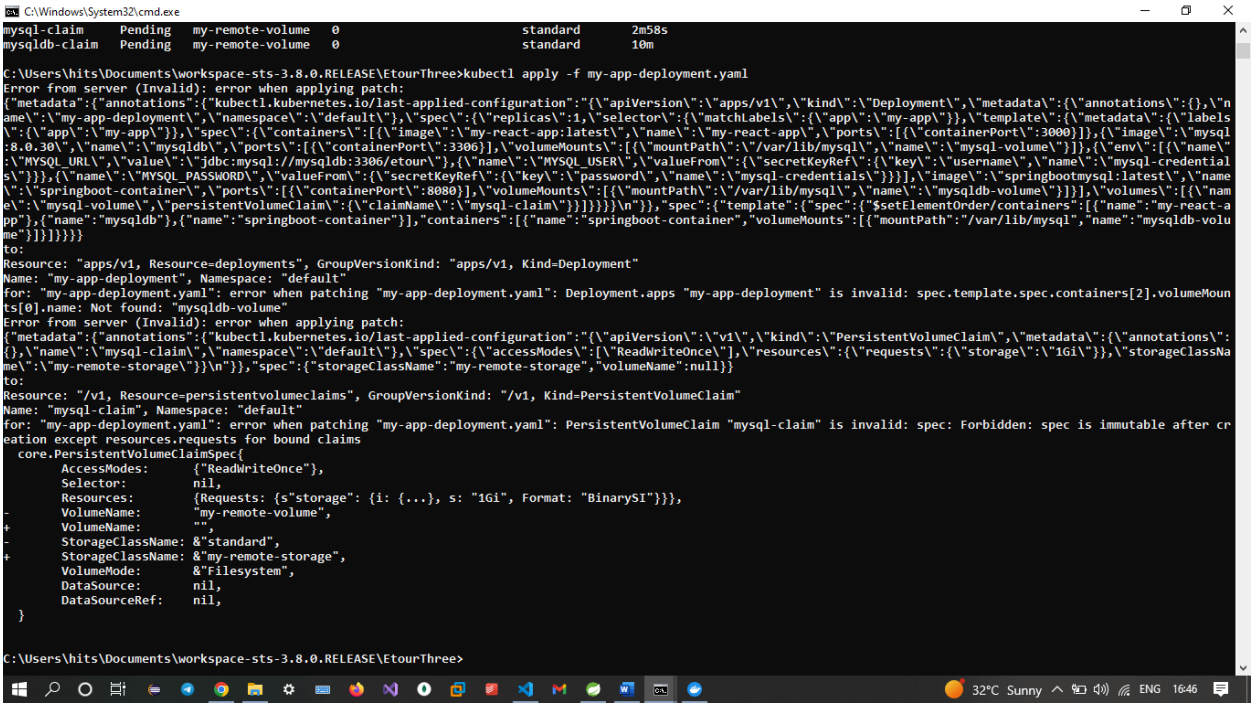
```
    ReadOnly:   false
Conditions:
  Type           Status  Reason
  ----           ------  ------
  Available      False   MinimumReplicasUnavailable
  Progressing    True    ReplicaSetUpdated
OldReplicaSets:  <none>
NewReplicaSet:   my-app-deployment-84d88c8d6f (1/1 replicas created)
Events:
  Type    Reason             Age    From                   Message
  ----    ------             ----   ----                   -------
  Normal  ScalingReplicaSet  2m52s  deployment-controller  Scaled up replica set my-app-deployment-84d88c8d6f to 1

C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>
```


C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19044.1288]
(c) Microsoft Corporation. All rights reserved.
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>kubectl apply -f my-app-deployment.yaml
deployment.apps/my-app-deployment created
persistentvolumeclaim/mysqldb-claim created
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 2d
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>kubectl get deployment
NAME READY UP-TO-DATE AVAILABLE AGE
my-app-deployment 0/1 1 0 67s
nginx-img 1/1 1 1 23h
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>kubectl describe deployment my-app-deployment
Name: my-app-deployment
Namespace: default
CreationTimestamp: Fri, 28 Apr 2023 16:22:31 +0530
Labels: <none>
Annotations: deployment.kubernetes.io/revision: 1
Selector: app=my-app
Replicas: 1 desired | 1 updated | 1 total | 0 available | 1 unavailable
StrategyType: RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
Labels: app=my-app
Containers:
my-react-app:
Image: my-react-app:latest
Port: 3000/TCP
Host Port: 0/TCP
Environment: <none>
Mounts: <none>
mysqldb:
Image: mysql:8.0.30
Port: 3306/TCP
Host Port: 0/TCP
Environment: <none>
Mounts:
/var/lib/mysql from mysqldb-volume (rw)
springboot-container:
32°C Sunny ENG 16:28


C:\Windows\System32\cmd.exe
Port: 3306/TCP
Host Port: 0/TCP
Environment: <none>
Mounts:
/var/lib/mysql from mysqldb-volume (rw)
/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-km9cr (ro)
springboot-container:
Image: springbootmysql:latest
Port: 8080/TCP
Host Port: 0/TCP
Environment:
MYSQL_URL: jdbc:mysql://mysqldb:3306/etour
MYSQL_USER: <set to the key 'username' in secret 'mysql-credentials'> Optional: false
MYSQL_PASSWORD: <set to the key 'password' in secret 'mysql-credentials'> Optional: false
Mounts:
/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-km9cr (ro)
Conditions:
Type Status
PodScheduled False
Volumes:
mysqldb-volume:
Type: PersistentVolumeClaim (a reference to a PersistentVolumeClaim in the same namespace)
ClaimName: mysqldb-claim
ReadOnly: false
kube-api-access-km9cr:
Type: Projected (a volume that contains injected data from multiple sources)
TokenExpirationSeconds: 3607
ConfigMapName: kube-root-ca.crt
ConfigMapOptional: <nil>
DownwardAPI: true
QoS Class: BestEffort
Node-Selectors: <none>
Tolerations: node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
Type Reason Age From Message
Warning FailedScheduling 4m44s default-scheduler 0/1 nodes are available: pod has unbound immediate PersistentVolumeClaims. preemption: 0/1 nodes are available: 1
No preemption victims found for incoming pod..
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>
32°C Sunny ENG 16:29

Had some issues related to SQL database volume. Changed yaml file and again deployed. Still same error. Added PersistentVolumeClaim .





In order to secure Username and password of MySQL stored this info in base64 format. And added this encoded Username, password in mysql-secure.yaml file referred that file in deployment yaml file.