

Semester	T.E. Semester VI – Computer Engineering
Subject	Cloud Computing
Subject Professor In- charge	Prof. Divya Nimbalkar
Assisting Teachers	Prof. Divya Nimbalkar

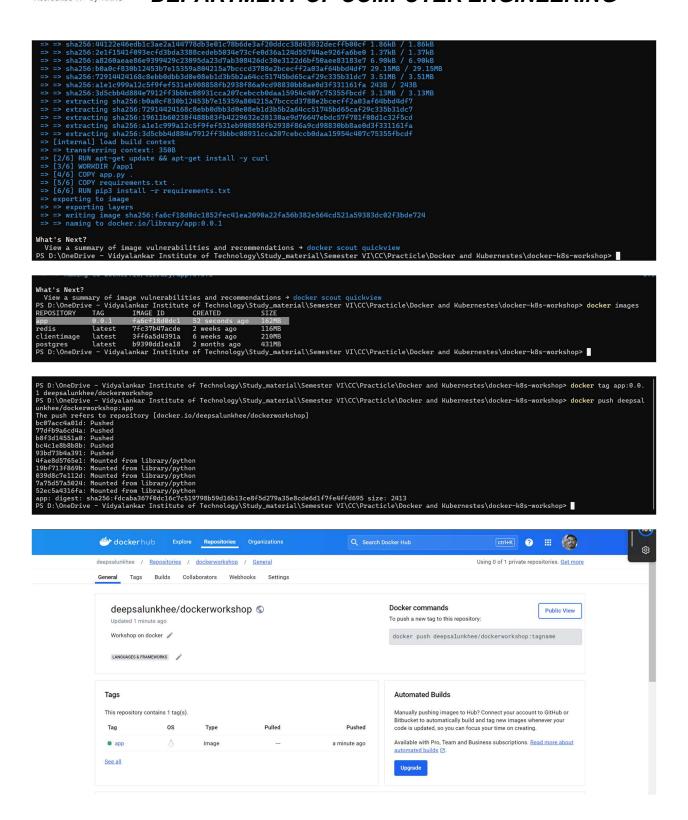
Student Name	Deep Salunkhe
Roll Number	21102A0014
TE Division	A

Title: Docker and Kubernestes

Implementation:

Docker:







Kubernestes

```
X Windows PowerShell
 Windows PowerShell
       apiVersion: apps/v1
kind: Deployment
       metadata:
         name: app1-deployment
          namespace: appl-ns
       spec:
                                                                                                                                                                    94%
         replicas: 2
         selector:
matchLabels:
                                                                                                                                                                    (3)
         app: app template:
              labels:
                app: app
            spec:
              containers:
                image: localhost:5000/app
ports:
                  - containerPort: 8080
Normal Git main ~4 .\deploy.yml
".\deploy.yml" 21L, 386B written
                                                                                                                                  yaml utf-8[dos] 386B 19:33
```



PS D:\OneDrive - Vidyalankar Institute of Technology\Study_material\Semester VI\CC\Practicle\Docker and Kubernestes\docker-k8s-workshop\manifest s> kubectl create -f pod.yml pod/app created PS D:\OneDrive - Vidyalankar Institute of Technology\Study_material\Semester VI\CC\Practicle\Docker and Kubernestes\docker-k8s-workshop\manifest s>

```
PS D:\OneDrive - Vidyalankar Institute of Technology\Study_material\Semester VI\CC\Practicle\Docker and Kubernestes\docker-k8s-workshop\manifest s> kubectl get pods

NAME READY STATUS RESTARTS AGE
app 0/1 ErrImageNeverPull 0 36s

PS D:\OneDrive - Vidyalankar Institute of Technology\Study_material\Semester VI\CC\Practicle\Docker and Kubernestes\docker-k8s-workshop\manifest s> |
```

```
PS D:\OneDrive - Vidyalankar Institute of Technology\Study_material\Semester VI\CC\Practicle\Docker and
escribe pod app
Name:
Namespace:
                  default
Priority:
Service Account: default
                 minikube/192.168.49.2
Node:
                  Fri, 26 Apr 2024 10:55:02 +0530
Start Time:
Labels:
                 <none>
Annotations:
                 <none>
                 Pending
Status:
IP:
                  10.244.0.3
IPs:
 IP: 10.244.0.3
Containers:
  app:
    Container ID:
    Image:
                   app
    Image ID:
    Port:
                   <none>
    Host Port:
                   <none>
    State:
                   Waiting
     Reason:
                   ErrImageNeverPull
    Ready:
                   False
    Restart Count: 0
    Limits:
     memory: 200Mi
    Requests:
     memory:
                  200Mi
    Environment: <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-55mgh (ro)
Conditions:
                              Status
  Type
  PodReadyToStartContainers
                              True
  Initialized
                              True
  Ready
                              False
  ContainersReady
                              False
```

