Kubernetes-Namespaces, DeplomentsFile

1.Setting up the index.html

```
×
                                                                         C:\Windows\System32\cmd.e: X
Microsoft Windows [Version 10.0.26100.2605]
(c) Microsoft Corporation. All rights reserved.
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>vim index.html
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>cat index.html
'cat' is not recognized as an internal or external command,
operable program or batch file.
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>type index.html && type
<!DOCTYPE html>
<html>
        <head>
                <title> My info </title>
        </head>
        <body>
                <h1>Name: Beqir</h1>
                <h1>Surname: Fazli</h1>
                <h1>Index: 191045</h1>
        </body>
</html>
```

2.Setting up Dockerfile

```
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>vim Dockerfile

F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>type Dockerfile && type

CON

FROM nginx:alpine

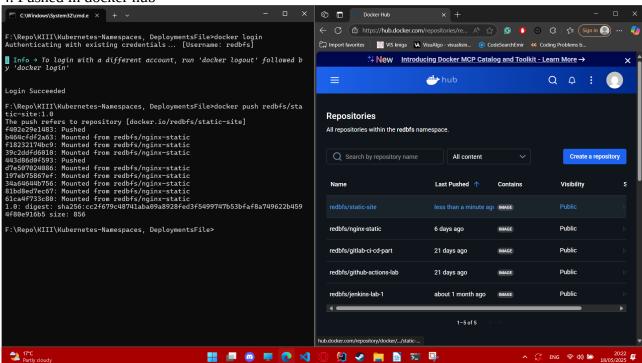
COPY index.html /usr/share/nginx/html/index.html
```

3. Build command

```
×
 C:\Windows\System32\cmd.e: X
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>docker build -t redbfs
/static-site:1.0 .
[+] Building 3.5s (8/8) FINISHED
                                                         docker:desktop-linux
 ⇒ [internal] load build definition from Dockerfile
                                                                           0.1s
 \Rightarrow \Rightarrow transferring dockerfile: 106B
                                                                           0.0s
 ⇒ [internal] load metadata for docker.io/library/nginx:alpine
                                                                           1.8s
 ⇒ [auth] library/nginx:pull token for registry-1.docker.io
                                                                           0.0s
 ⇒ [internal] load .dockerignore
                                                                           0.2s
 \Rightarrow \Rightarrow transferring context: 2B
                                                                           0.0s
 ⇒ [internal] load build context
                                                                           0.1s
 \Rightarrow \Rightarrow transferring context: 216B
                                                                           0.0s
 ⇒ CACHED [1/2] FROM docker.io/library/nginx:alpine@sha256:65645c7
                                                                           0.1s
 ⇒ ⇒ resolve docker.io/library/nginx:alpine@sha256:65645c7bb6a066
                                                                          0.1s
 ⇒ [2/2] COPY index.html /usr/share/nginx/html/index.html
                                                                           0.1s
 \Rightarrow exporting to image
                                                                           0.7s
 \Rightarrow \Rightarrow exporting layers
                                                                           0.3s
 \Rightarrow exporting manifest sha256:b661c93e66763157869e90f7a2ed62b797
                                                                          0.0s
 \Rightarrow exporting config sha256:cbcf84fe8b48e979d764293b4709b2f6e62c
                                                                          0.0s
 \Rightarrow exporting attestation manifest sha256:21f009c2109a43dc19d6e5
                                                                           0.1s
 \Rightarrow exporting manifest list sha256:cc2f679c48741aba09a8928fed3f5
                                                                           0.1s
 ⇒ ⇒ naming to docker.io/redbfs/static-site:1.0
                                                                           0.0s
 ⇒ ⇒ unpacking to docker.io/redbfs/static-site:1.0
                                                                           0.1s
View build details: docker-desktop://dashboard/build/desktop-linux/desktop
-linux/gz9wax9lzbc0hftmtbr2kjkdl
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>
```

Беќир Фазли 191045

4. Pushed in docker hub



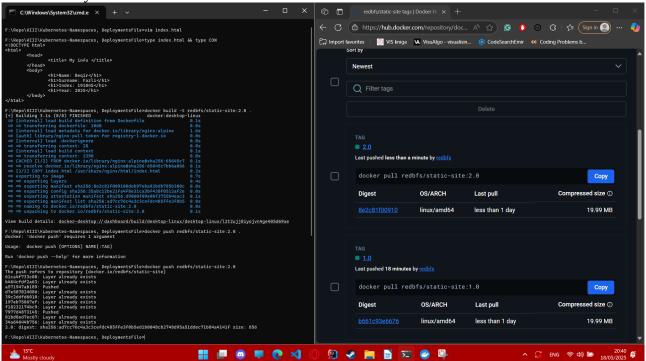
5. Manifest written

```
X
                                                                       C:\Windows\System32\cmd.e: X
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>vim deployment.yaml
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>type deployment.yaml &
& type CON
apiVersion: apps/v1
kind: Deployment
metadata:
  name: static-site
spec:
  replicas: 5
  strategy:
    rollingUpdate:
      maxSurge: 2
      maxUnavailable: 1
  selector:
    matchLabels:
      app: static-site
  template:
    metadata:
      labels:
        app: static-site
    spec:
      containers:
      - name: nginx
        image: redbfs/static-site:1.0
        ports:
        - containerPort: 80
```

6.Applied to the cluster

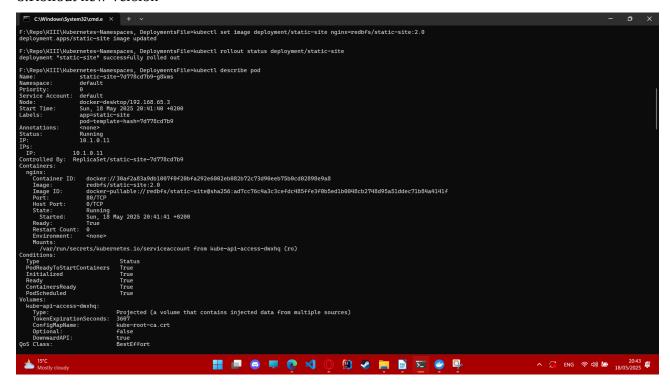
```
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>kubectl apply -f deplo
yment.yaml
error: error validating "deployment.yaml": error validating data: failed to download openapi: Get "http://localhost:8080/openapi/v2?timeout=32s": di
al tcp [::1]:8080: connectex: No connection could be made because the targ
et machine actively refused it.; if you choose to ignore these errors, tur
n validation off with --validate=false
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>kubectl apply -f deplo
yment.yaml
deployment.apps/static-site created
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>kubectl get deployment
NAME
               READY
                        UP-TO-DATE
                                      AVAILABLE
static-site
               5/5
                                                   26s
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>kubectl get pods
NAME
                                  READY
                                          STATUS
                                                     RESTARTS
                                                                 AGE
static-site-64d6bc45cd-fvghj
                                  1/1
                                          Running
                                                     0
                                                                 32s
static-site-64d6bc45cd-nfqbw
                                  1/1
                                                     0
                                          Running
                                                                 32s
static-site-64d6bc45cd-rbvm7
                                  1/1
                                          Running 0
                                                                 32s
static-site-64d6bc45cd-tp8mt
                                  1/1
                                                     0
                                          Running
                                                                 32s
static-site-64d6bc45cd-vvrv6
                                  1/1
                                                     0
                                          Running
                                                                 32s
F:\Repo\KIII\Kubernetes-Namespaces, DeploymentsFile>
```

7.Added the year in html

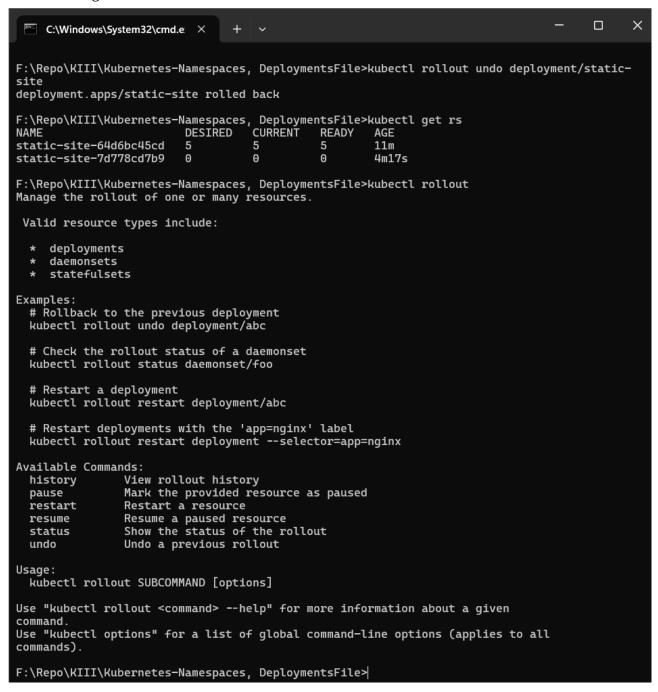


Беќир Фазли 191045

8. Rollout new version



9.Reverting



Беќир Фазли 191045

10.Final Results

