REALTIME FRONTEND APPLICATION

Step 1: Install the git

```
$ sudo yum -y install https://packages.endpoint.com/rhel/7/os/x86_64/endpoint-repo-1.7-1.x86_64.rpm

$ sudo yum install git
```

Step 2: clone the url from gitlab

```
$ git clone (url)
```

Step 3: create Dockerfile

```
$ touch Dockerfile

$ vi Dockerfile
```

```
# pull the base image

FROM node:14-alpine as build

# set the working direction

WORKDIR /app

# copy package.json

COPY package.json ./

COPY package-lock.json ./

# install app dependencies

RUN npm install

# add app

COPY . ./

RUN npm run build

FROM nginx:stable-alpine

COPY --from=build /app/build /usr/share/nginx/html

EXPOSE 80
```

CMD ["nginx", "-g", "daemon off;"]

Step 4: create docker ignore file

$ touch .dockerignore

$ vi .dockerignore

node_modules

build

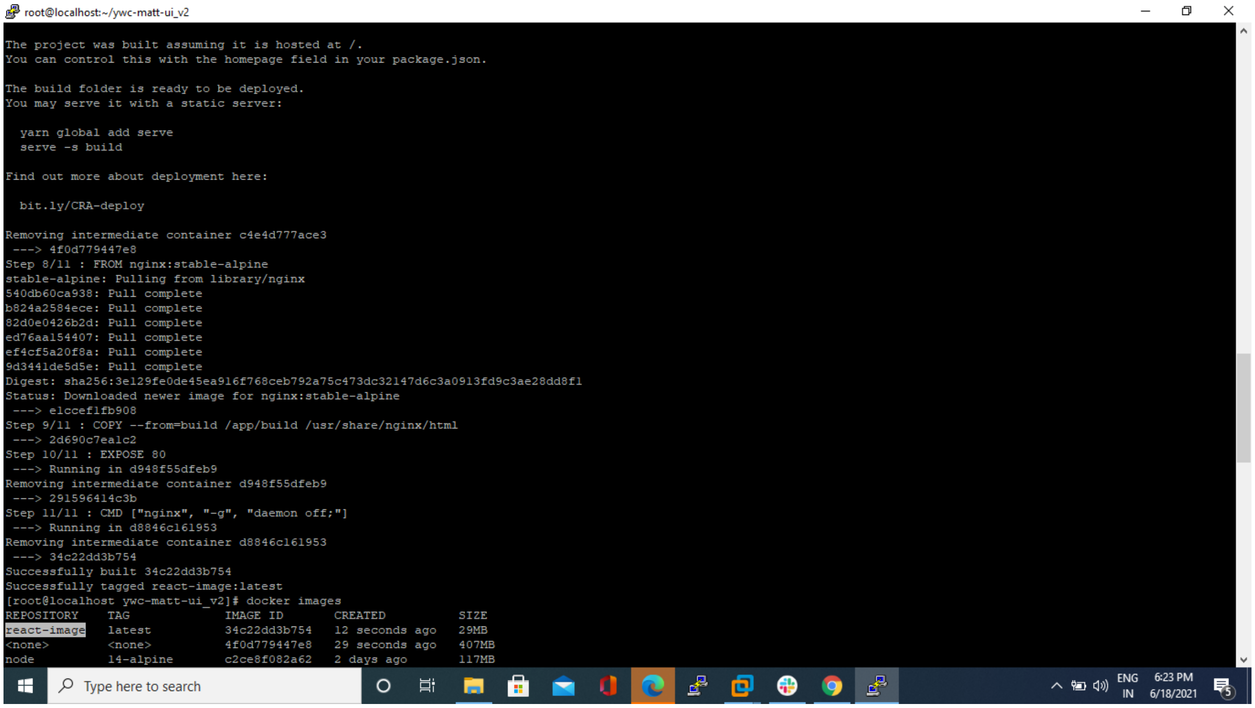
.dockerignore

Dockerfile

Dockerfile.prod

Step 5: create docker iamge

$ docker build –t react-image .

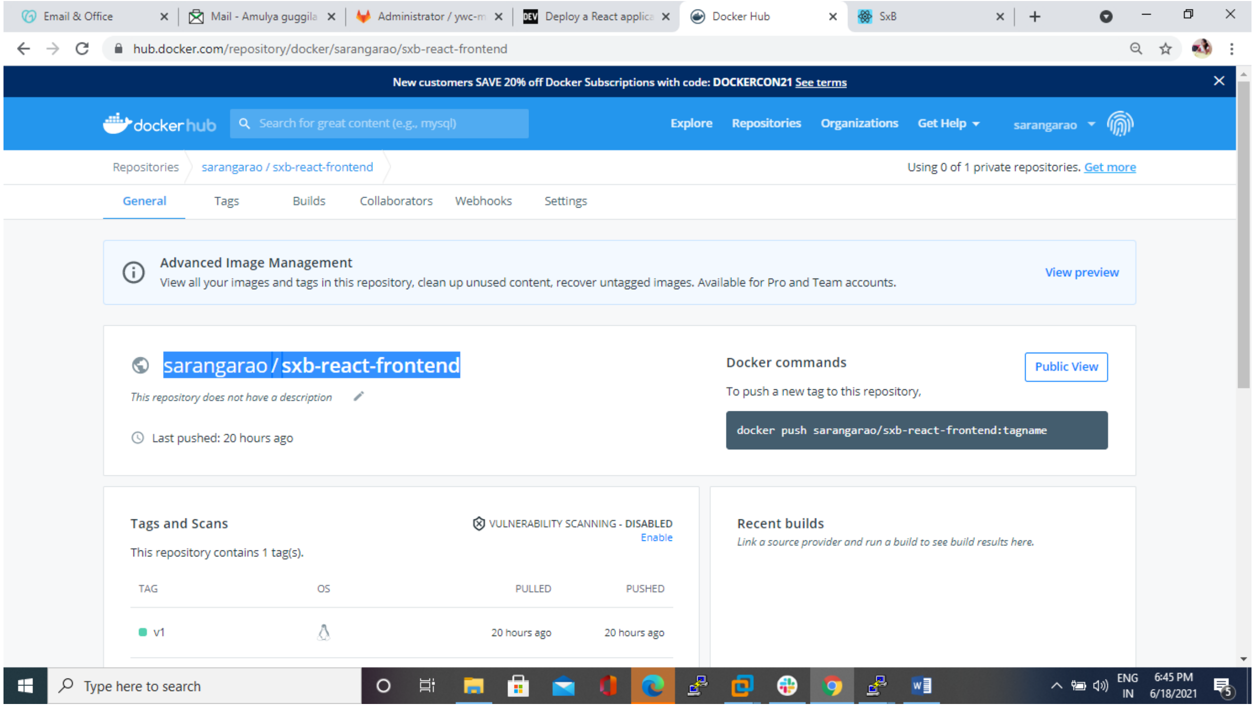


```
The project was built assuming it is hosted at /.
You can control this with the homepage field in your package.json.

The build folder is ready to be deployed.
You may serve it with a static server:

  yarn global add serve
  serve -s build

Find out more about deployment here:

  bit.ly/CRA-deploy

Removing intermediate container c4e4d777ace3
 ---> 4f0d779447e8
Step 8/11 : FROM nginx:stable-alpine
stable-alpine: Pulling from library/nginx
540db60ca938: Pull complete
b824a2584ece: Pull complete
82d0e0426b2d: Pull complete
ed76aa154407: Pull complete
ef4cf5a20f8a: Pull complete
9d3441de5d5e: Pull complete
Digest: sha256:3e129fe0de45ea916f768ceb792a75c473dc32147d6c3a0913fd9c3ae28dd8f1
Status: Downloaded newer image for nginx:stable-alpine
 ---> e1ccef1fb908
Step 9/11 : COPY --from=build /app/build /usr/share/nginx/html
 ---> 2d690c7ea1c2
Step 10/11 : EXPOSE 80
 ---> Running in d948f55dfeb9
Removing intermediate container d948f55dfeb9
 ---> 291596414c3b
Step 11/11 : CMD ["nginx", "-g", "daemon off;"]
 ---> Running in d8846c161953
Removing intermediate container d8846c161953
 ---> 34c22dd3b754
Successfully built 34c22dd3b754
Successfully tagged react-image:latest
[root@localhost ywc-matt-ui_v2]# docker images
REPOSITORY    TAG            IMAGE ID       CREATED          SIZE
react-image   latest         34c22dd3b754   12 seconds ago   29MB
<none>        <none>         4f0d779447e8   29 seconds ago   407MB
node          14-alpine      c2ce8f082a62   2 days ago       117MB
```

Step 6: push the docker image to docker hub

$ docker tag   react-image dockerhub ID/new folder name

$ docker push dockerhub ID/new folder name



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Repositories / sarangarao / sxb-react-frontend

Using 0 of 1 private repositories. Get more

Advanced Image Management
View all your images and tags in this repository, clean up unused content, recover untagged images. Available for Pro and Team accounts.

sarangarao / sxb-react-frontend

This repository does not have a description

Last pushed: 20 hours ago

Docker commands

To push a new tag to this repository,

```
docker push sarangarao/sxb-react-frontend:tagname
```

Tags and Scans

VULNERABILITY SCANNING - DISABLED

This repository contains 1 tag(s).

TAG	OS	PULLED	PUSHED
v1		20 hours ago	20 hours ago

Recent builds

Link a source provider and run a build to see build results here.

Step 7: create directory

```
$ mkdir Deployments

$ cd Deployments
```

Step 8: create a file in Deployments folder

```
$ touch deployment.yaml

$ vi deployment.yaml

kind: Deployment

apiVersion: apps/v1

metadata:

  name: my-react-app

spec:

  replicas: 2

  selector:

    matchLabels:
      app: my-react-app
  template:
    metadata:
      labels:
        app: my-react-app
    spec:
      containers:
        - name: my-react-app
          image: sarangarao/sxb-react-frontend:v1
          imagePullPolicy: Always
          ports:
            - containerPort: 80
      restartPolicy: Always
---
kind: Service
apiVersion: v1
metadata:
  name: my-react-app
spec:
  type: NodePort
  ports:
    - port: 80
      targetPort: 80
      protocol: TCP
    nodePort: 31000
  selector:
    app: my-react-app
```

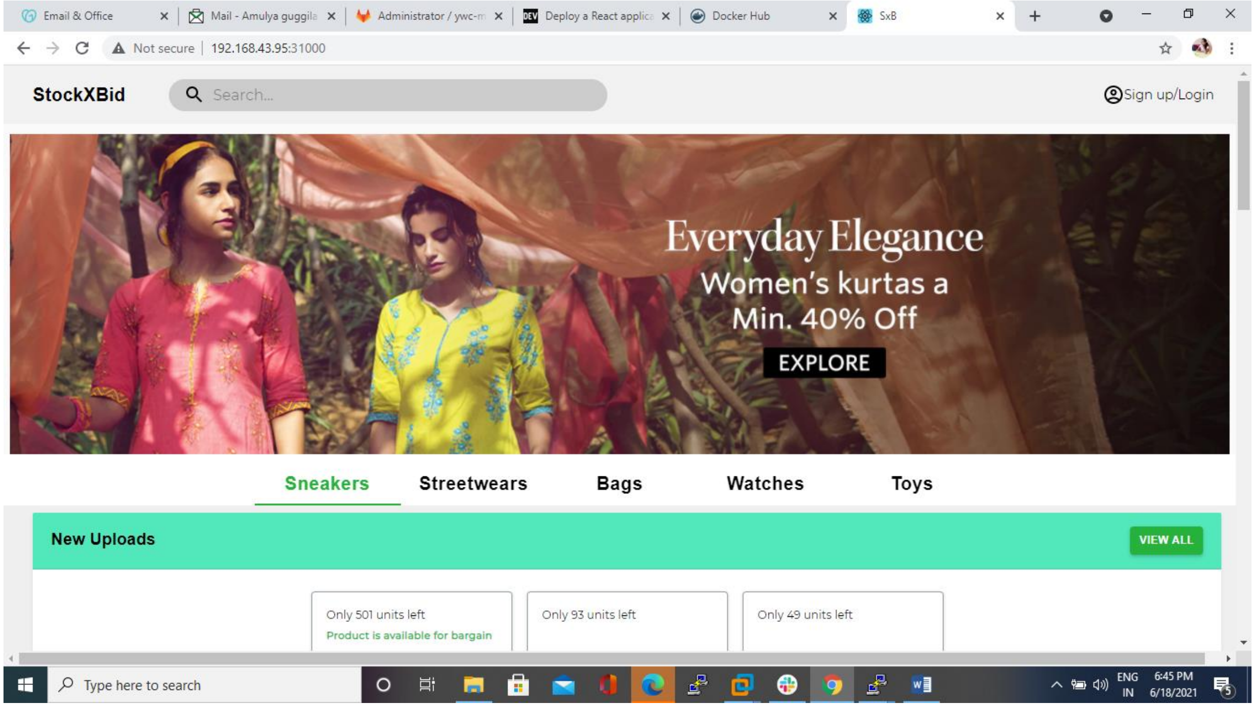
step 8: apply in kubernetes

```
$ kubectl apply –f deployment.yaml
```

Step 9: check for the pods

```
$ kubectl get pods
```

Access in the browser with ip


Email & Office
Mail - Amulya guggila
Administrator / ywc-m
Deploy a React applic
Docker Hub
SxB
Not secure
192.168.43.95:31000
StockXBid
Search...
Sign up/Login
Everyday Elegance
Women's kurtas a
Min. 40% Off
EXPLORE
Sneakers
Streetwears
Bags
Watches
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