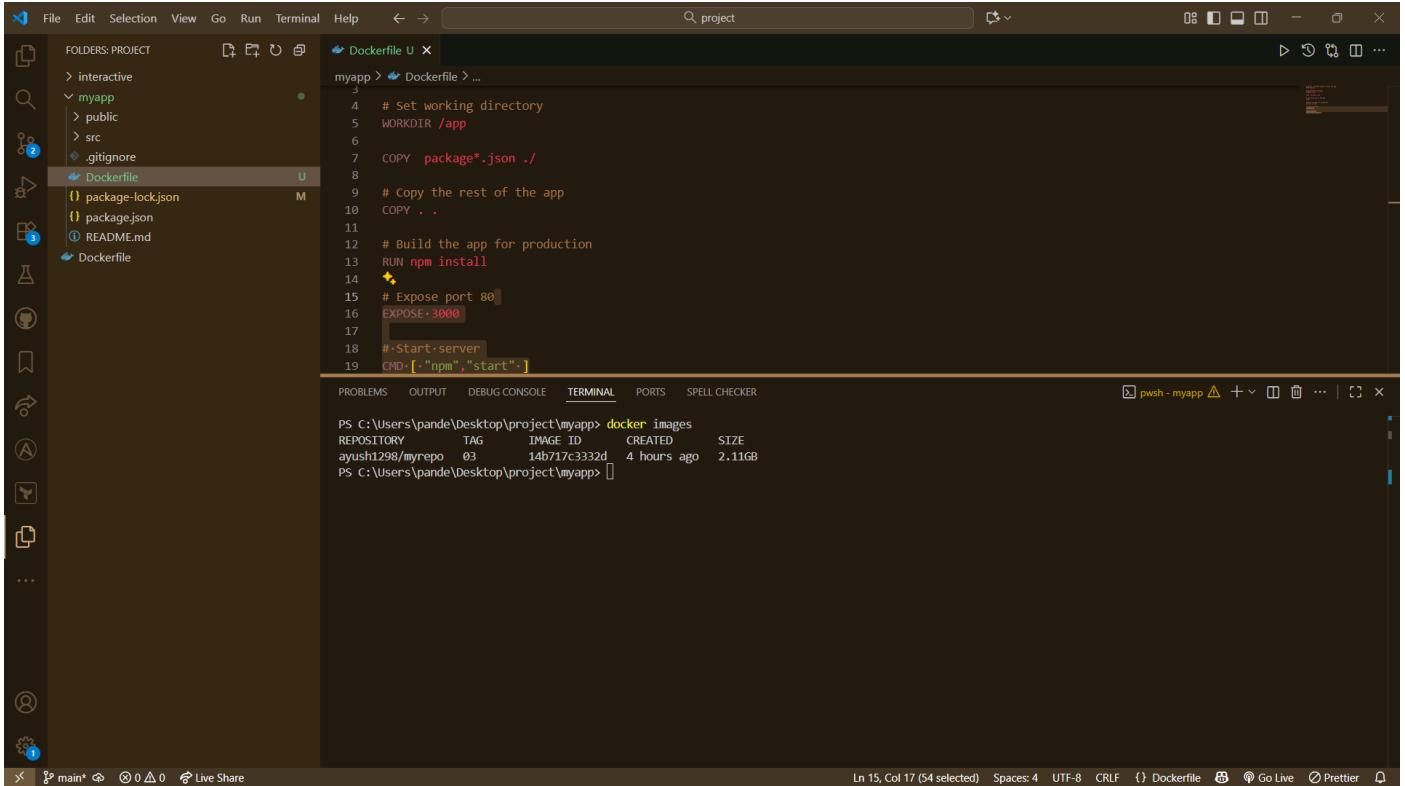


Steps to Pull/Push react app Image from Repository in Docker hub and Run it on Remote Ubuntu Server

Step-by-Step Setup

1. Create a Image of React app :-

Docker Image: -



The screenshot shows a VS Code interface with a dark theme. On the left is a sidebar with icons for file operations like Open, Save, and Undo. The main area shows a file tree for a project named 'myapp' containing 'interactive', 'public', 'src', '.gitignore', and a 'Dockerfile'. The 'Dockerfile' tab is active, displaying the following code:

```
myapp > Dockerfile > ...
3   # Set working directory
4   WORKDIR /app
5
6   COPY package*.json .
7
8   # Copy the rest of the app
9   COPY .
10
11  # Build the app for production
12  RUN npm install
13
14  # Expose port 80
15  EXPOSE 3000
16
17  # Start server
18 CMD [ "npm", "start" ]
19
```

Below the code editor is a terminal window showing the command `docker images` and its output:

```
PS C:\Users\pande\Desktop\project\myapp> docker images
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
ayush1298/myrepo    03       14b717c3332d   4 hours ago   2.11GB
PS C:\Users\pande\Desktop\project\myapp>
```

2. Login on DockerHub And push this Image on DockerHub in your repo: -

```

Dockerfile U
myapp > Dockerfile > ...
3   # Set working directory
4   WORKDIR /app
5
6   COPY package*.json .
7
8   # Copy the rest of the app
9   COPY .
10
11  # Build the app for production
12  RUN npm install
13
14  # Expose port 80
15  EXPOSE 3000
16
17  # Start server
18  CMD [ "npm", "start" ]
19

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER
PS C:\Users\pande\Desktop\project\myapp>

...
b82a1e14a32d: Layer already exists
e6819020f277: Layer already exists
0831b649fd77: Layer already exists
a45c5c19adee: Layer already exists
cbc82711b9a1: Layer already exists
bb445e472b1b: Layer already exists
32885a2bda58: Layer already exists
c5add0a18c77: Layer already exists
fb9baaidd1d1: Layer already exists
de002888bed8: Layer already exists
5db93ea69798: Layer already exists
21231986798: Layer already exists
1b186eb8071e: Layer already exists
03: digest: sha256:14b717c3332da23ee31a1dbae85607e1f6d09e5dfd7a43d2c985511bb322f78 size: 856
PS C:\Users\pande\Desktop\project\myapp>

```

Ln 15, Col 17 (54 selected) Spaces: 4 UTF-8 CRLF {} Dockerfile 🌐 Go Live ⚙️ Prettier 🎨

Docker Image Name: - ayush1298/myrepo:03

hub.docker.com/repository/docker/ayush1298/myrepo/tags

Repositories / myrepo / Tags

ayush1298/myrepo ⓘ

Last pushed 42 minutes ago • Repository size: 951.7 MB • ⭐ 0 • ↓ 29

For learning 📝

Add a category 📝 ⓘ

General Tags Image Management BETA Collaborators Webhooks Settings

Sort by Newest Filter tags Delete

TAG	Digest	OS/ARCH	Last pull	Compressed size ⓘ
03	3d13a747eec6	linux/amd64	less than 1 day	468.25 MB

docker pull ayush1298/myrepo:03

3. Create Ubuntu Server on Azure: -

The screenshot shows the Microsoft Azure portal with a deployment named "CreateVm-canonical.ubuntu-24_04-lts-server-20251113222754". The status is "Your deployment is complete". Deployment details include a start time of 13/11/2025, 22:29:36, and a correlation ID of a614c0ef-23e2-4e44-9a29-c7fc2b63a7f7. A "Cost Management" section is present, along with links for Microsoft Defender for Cloud and Free Microsoft tutorials.

Login: -

The screenshot shows a MobaXterm window titled "4.213.174.185 (admin077)". The terminal session is connected to a remote host at 4.213.174.185 with the user "admin077". The file browser sidebar shows the directory structure of "/home/admin077". The bottom status bar displays system information such as memory usage (0.67 GB / 7.76 GB), network activity (0.01 Mb/s up, 0.00 Mb/s down), and disk usage (106 min, admin077, /: 14%, /boot: 8%, /boot/efi: 6%, /mnt: 1%).

Steps to Install Docker in Remote Server: -

2. Update the system

bash

```
sudo apt update && sudo apt upgrade -y
```

3. Install Docker (if not already installed)

bash

```
sudo apt install docker.io -y
```

Enable and start Docker:

bash

```
sudo systemctl enable docker  
sudo systemctl start docker
```

Verify installation:

bash

```
docker --version
```



Enable and start Docker:

```
bash  
  
sudo systemctl enable docker  
sudo systemctl start docker
```

Verify installation:

```
bash  
  
docker --version
```

4. Login to Docker Hub

If your image is private, login with your credentials:

```
bash  
  
sudo docker login
```



(Enter your Docker Hub username and password or token)

If it is a public image, you can skip this step.

4. Pull your React app image from Docker Hub: -

Command: - sudo docker pull ayush1298/myrepo:03

```
admin077@vm01:~$ sudo docker images
REPOSITORY          TAG      IMAGE ID      CREATED     SIZE
ayush1298/myrepo   03      667eb0e50442   4 hours ago  1.38GB
admin077@vm01:~$ sudo docker pull ayush1298/myrepo:03
03: Pulling from ayush1298/myrepo
Digest: sha256:14b717c3332da232ee31a1dbae85607ef6d09e5fd7a43d2c98551bb322f78
Status: Image is up to date for ayush1298/myrepo:03
docker.io/ayush1298/myrepo:03
admin077@vm01:~$
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

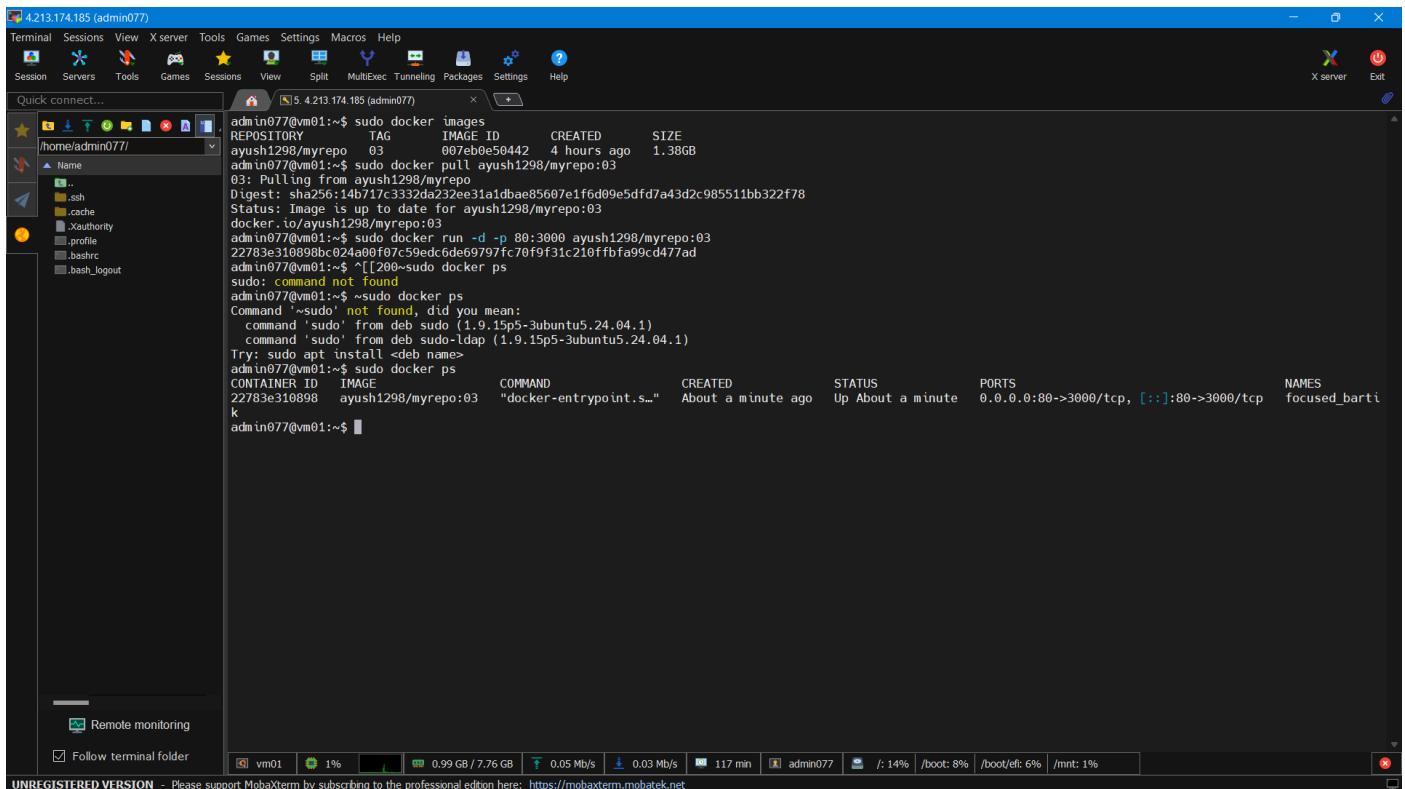
5. Run your React app container

Run the container and map ports:

Command: - sudo docker run -d -p 80:3000 ayush1298/myrepo:03

6. Verify the container is running

Command: - sudo docker ps



```
4.213.174.185 (admin077)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
/home/admin077/
Name
.. .ssh .cache .xauthority .profile .bashrc .bash_logout
5.4.213.174.185 (admin077)
adminin077@vm01:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ayush1298/myrepo 03 607eb0e50442 4 hours ago 1.38GB
adminin077@vm01:~$ sudo docker pull ayush1298/myrepo:03
03: Pulling from ayush1298/myrepo
Digest: sha256:14b717c3332da232ee31a1dbae85607ef6d09e5fd7a43d2c98551bb322f78
Status: Image is up to date for ayush1298/myrepo:03
docker.io/ayush1298/myrepo:03
adminin077@vm01:~$ sudo docker run -d -p 80:3000 ayush1298/myrepo:03
22783e310898bc024a0f07c59edc6de979fc70f9f31c210ffbfa99cd477ad
adminin077@vm01:~$ [200~sudo docker ps
sudo: command not found
adminin077@vm01:~$ >sudo docker ps
Command 'sudo' not found, did you mean:
  command 'sudo' from deb sudo (1.9.15p5-3ubuntu5.24.04.1)
  command 'sudo' from deb sudo-ldap (1.9.15p5-3ubuntu5.24.04.1)
Try: sudo apt install <deb name>
adminin077@vm01:~$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
22783e310898 ayush1298/myrepo:03 "docker-entrypoint.s..." About a minute ago Up About a minute 0.0.0.0:80->3000/tcp, [::]:80->3000/tcp focused_barti
k
adminin077@vm01:~$ 
```

Remote monitoring

Follow terminal folder

vm01 1% 0.99 GB / 7.76 GB 0.05 Mb/s 0.03 Mb/s 117 min admin077 /: 14% /boot: 8% /boot/efi: 6% /mnt: 1%

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

You should see your container listed.

7. Open port 80 in Azure (important)

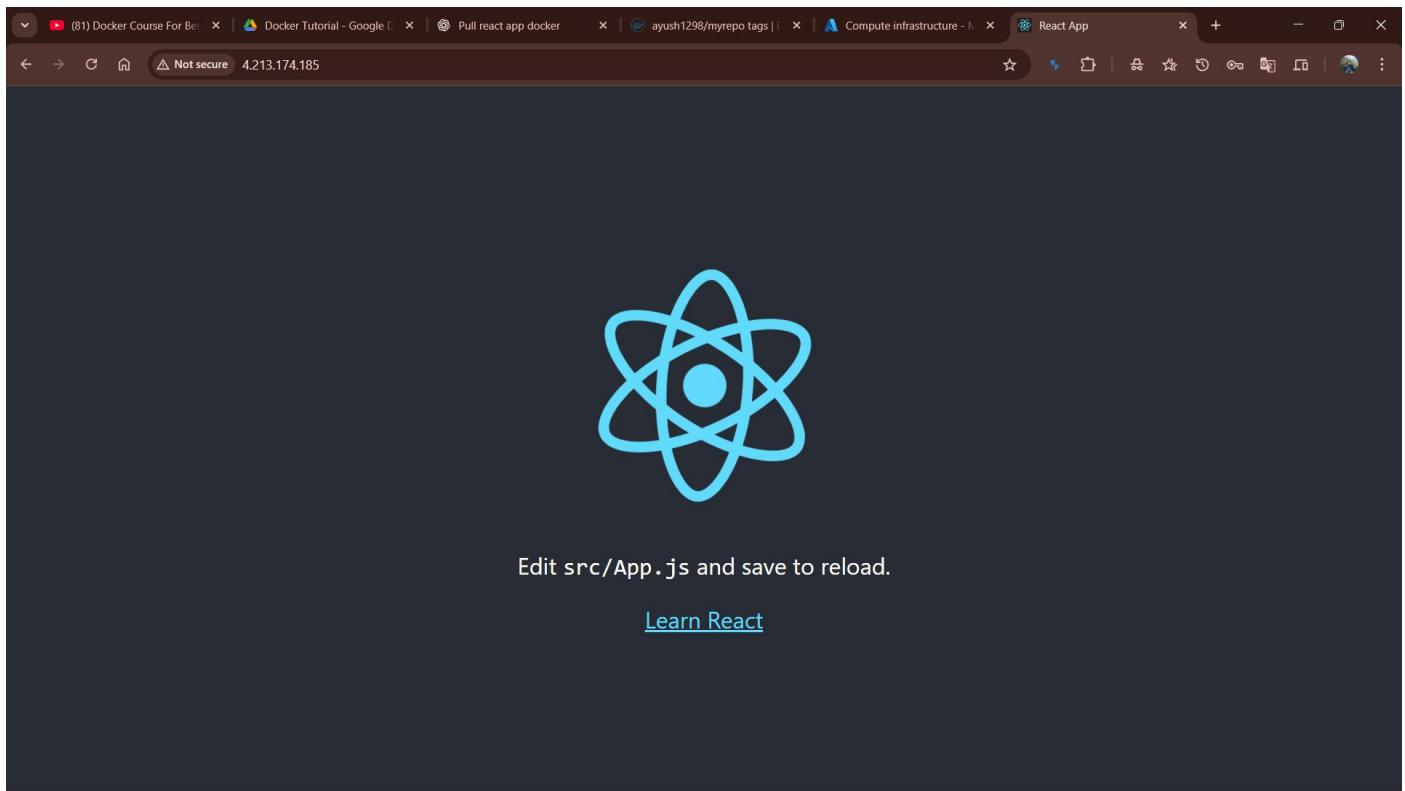
Go to your **Azure Portal** → Your VM → Networking → Inbound Port Rules

Add a rule to **Allow TCP on port 80**.

8. Test the app in your browser

<http://<your-vm-public-ip>>

Output: -



React app running 🎉
