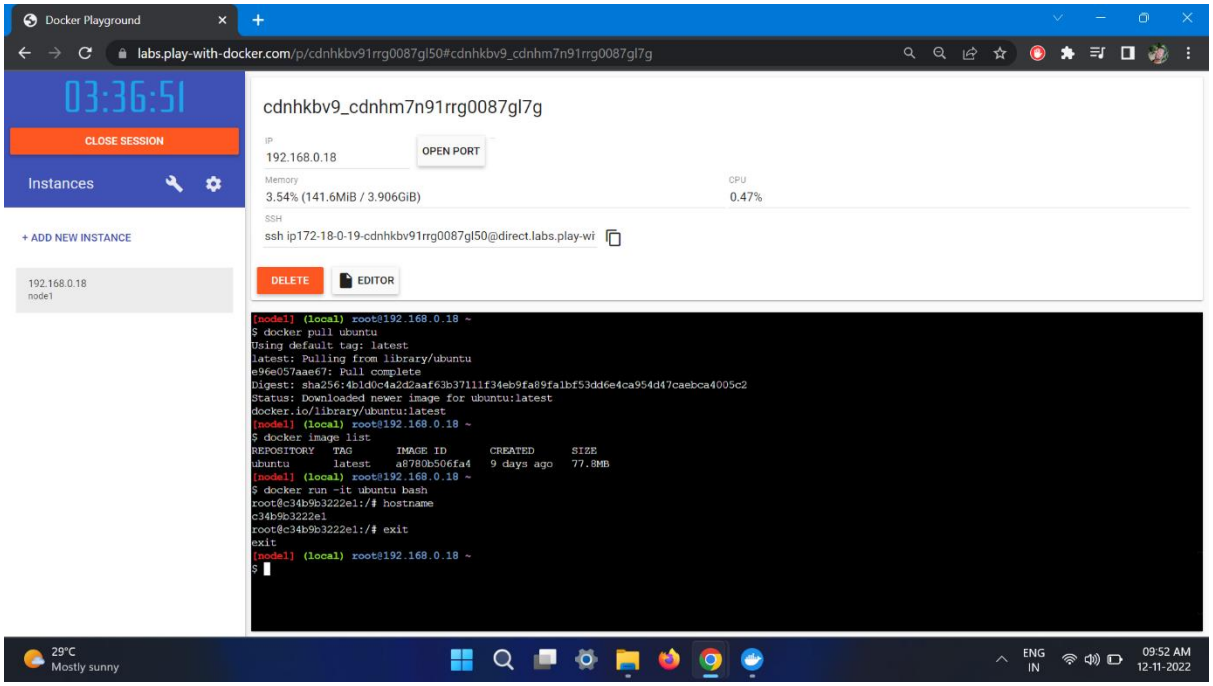
ASSIGNMENT-4

NAME:R.VISHNU CHIDAMBARAM

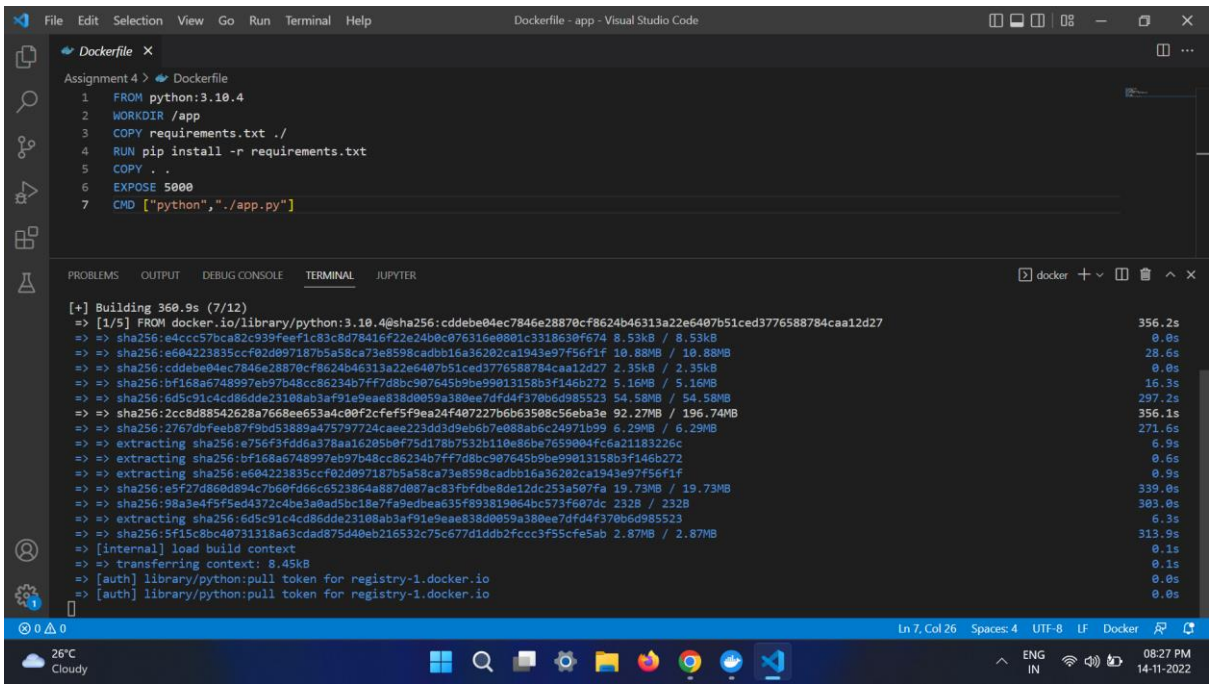
REGNO:910719104033

1.Pull an Image from docker hub and run it in docker playground.



2.Create a docker file for the job portal application and deploy it in Docker desktop application.

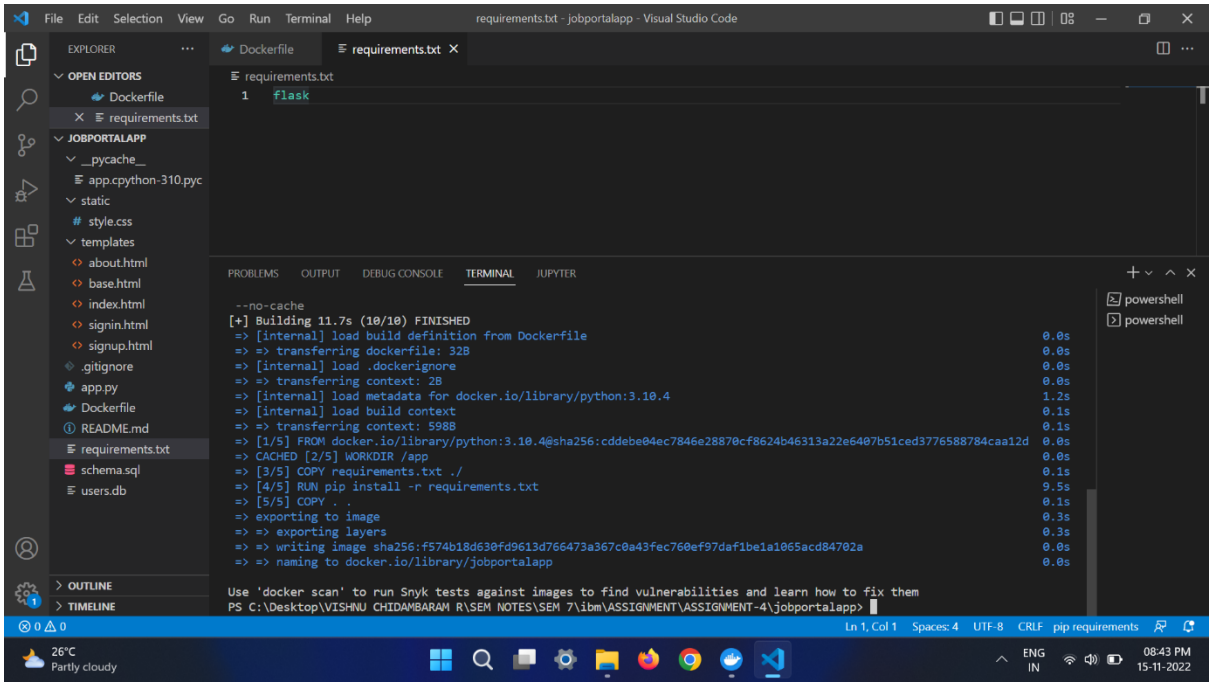
*Create docker file. Name as Dockerfile (without exetension) in your website code location



*build images using this command

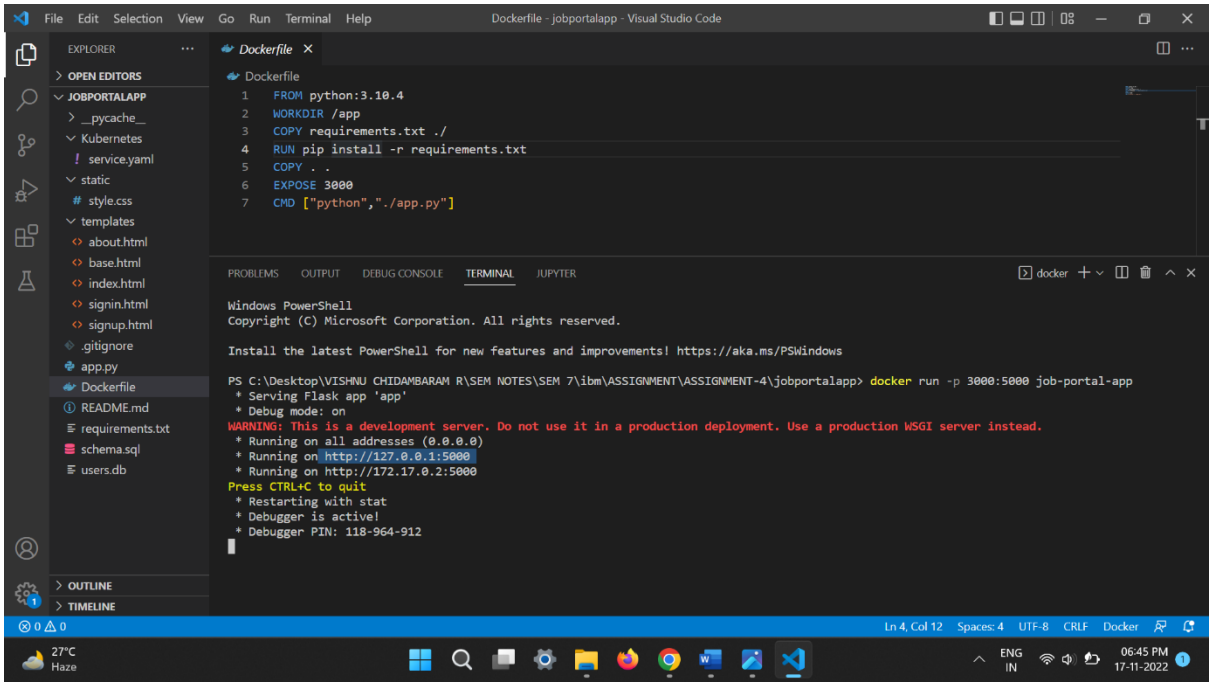
docker build -t (filename as you create) . --no-cahe

Example: ***docker build -t job-portal-app. --no-cahe***

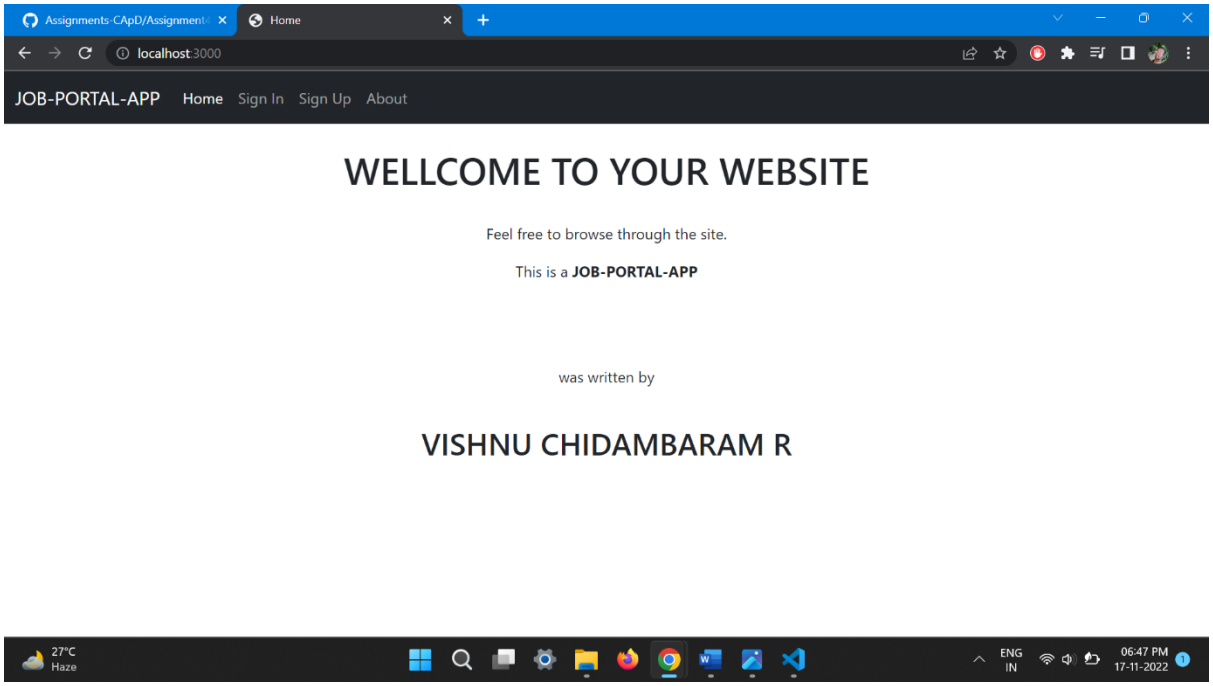


*run dockerfile using command

docker run -p 3000:5000 job-portal-app



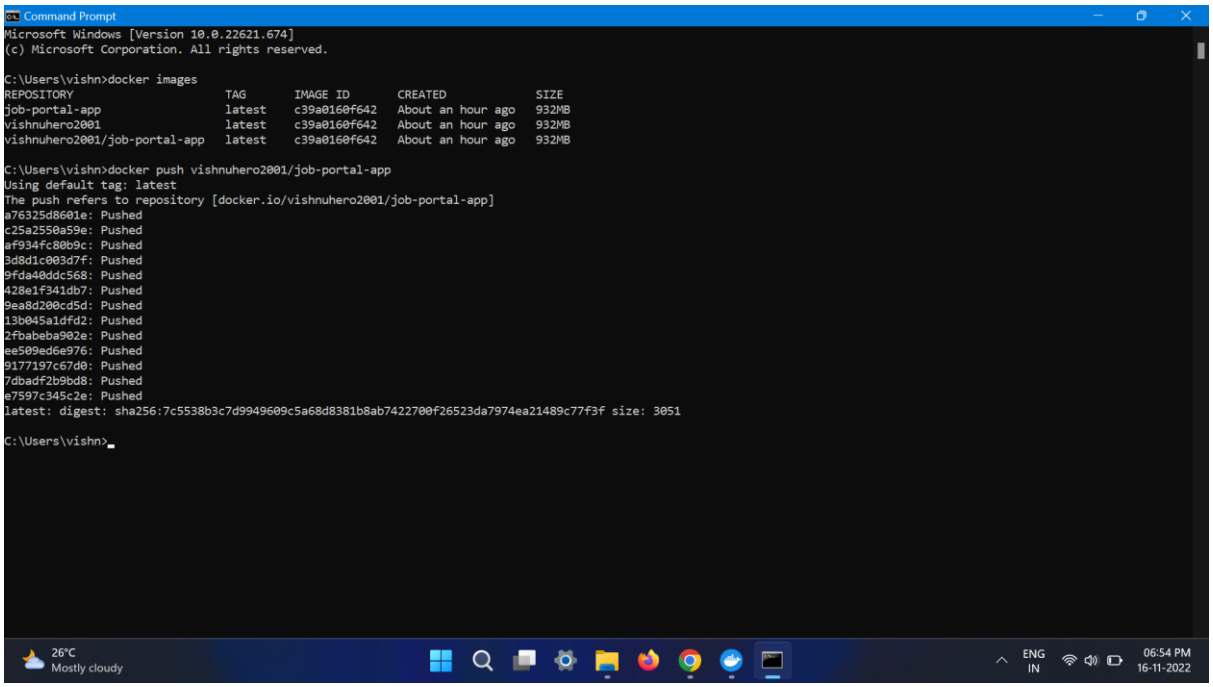
* you will get output in browser type “***localhost:3000***”



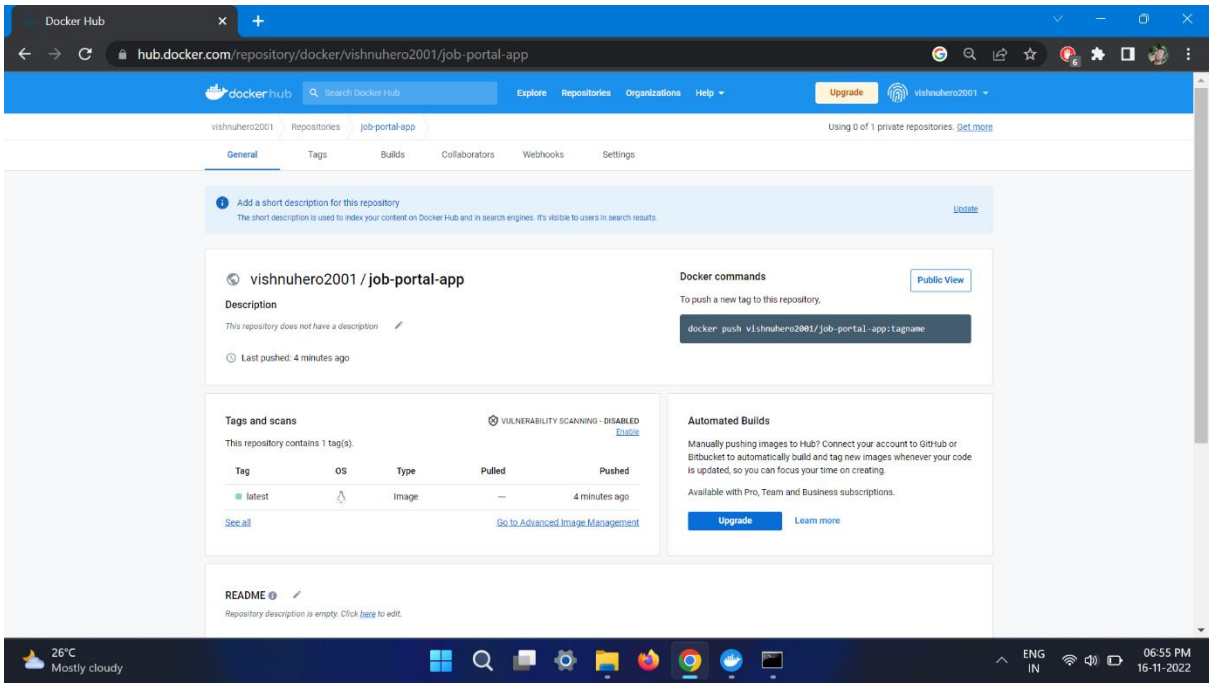
*push the file into docker use this command

docker push repositroyname/imagename

example:docker vishnuhero2001/job-portal-app

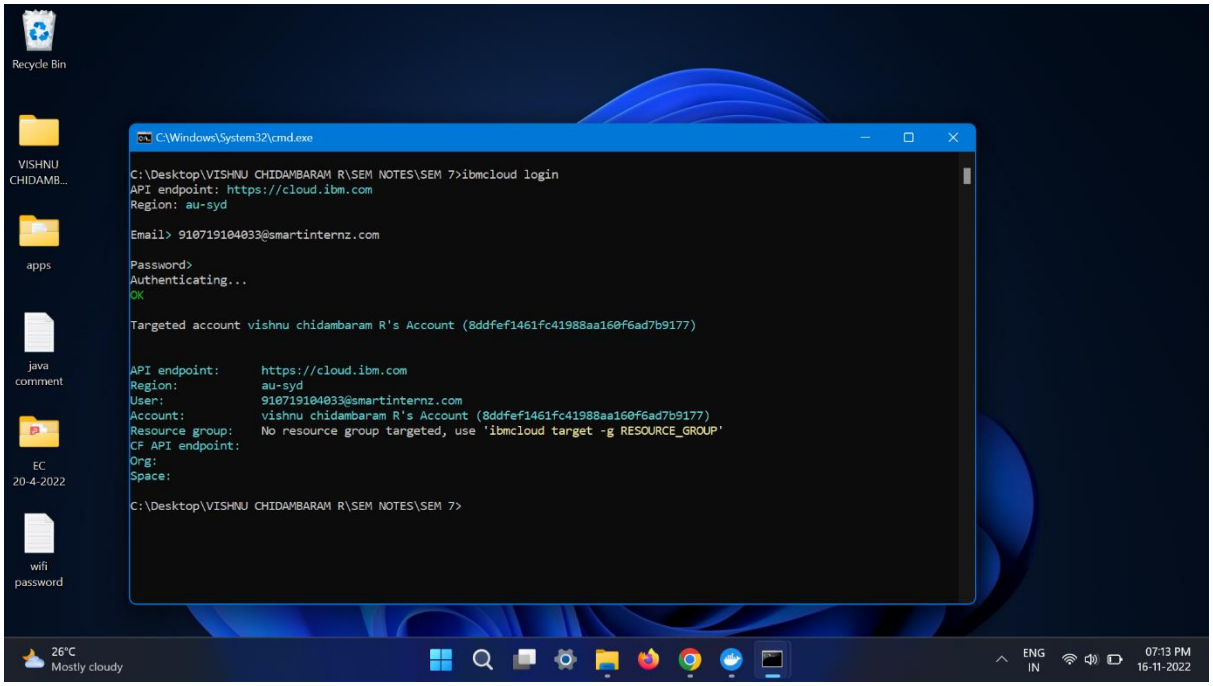


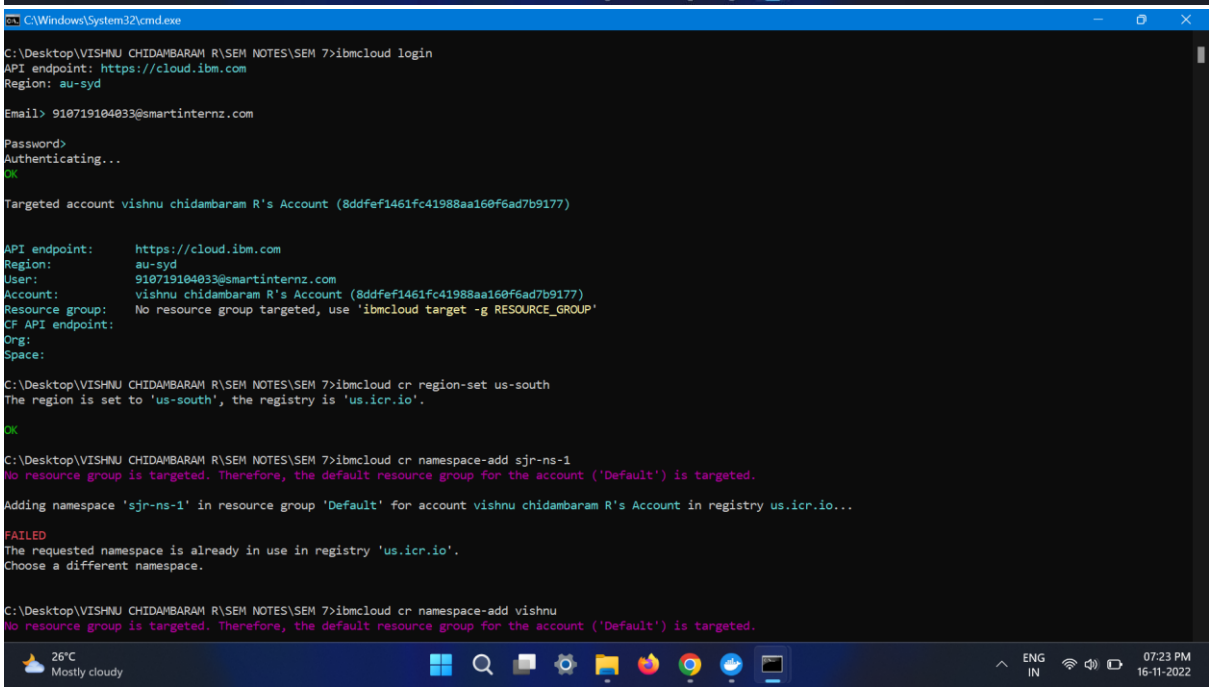
*Login to dockerhub and see the docker pushed file

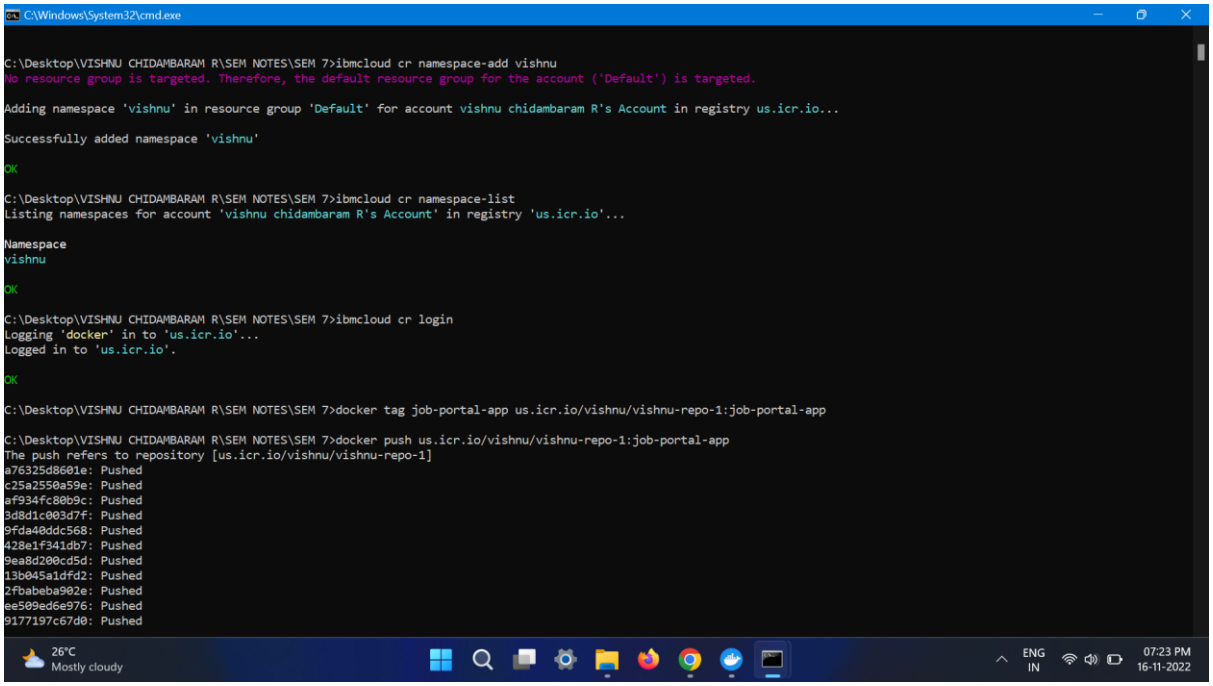


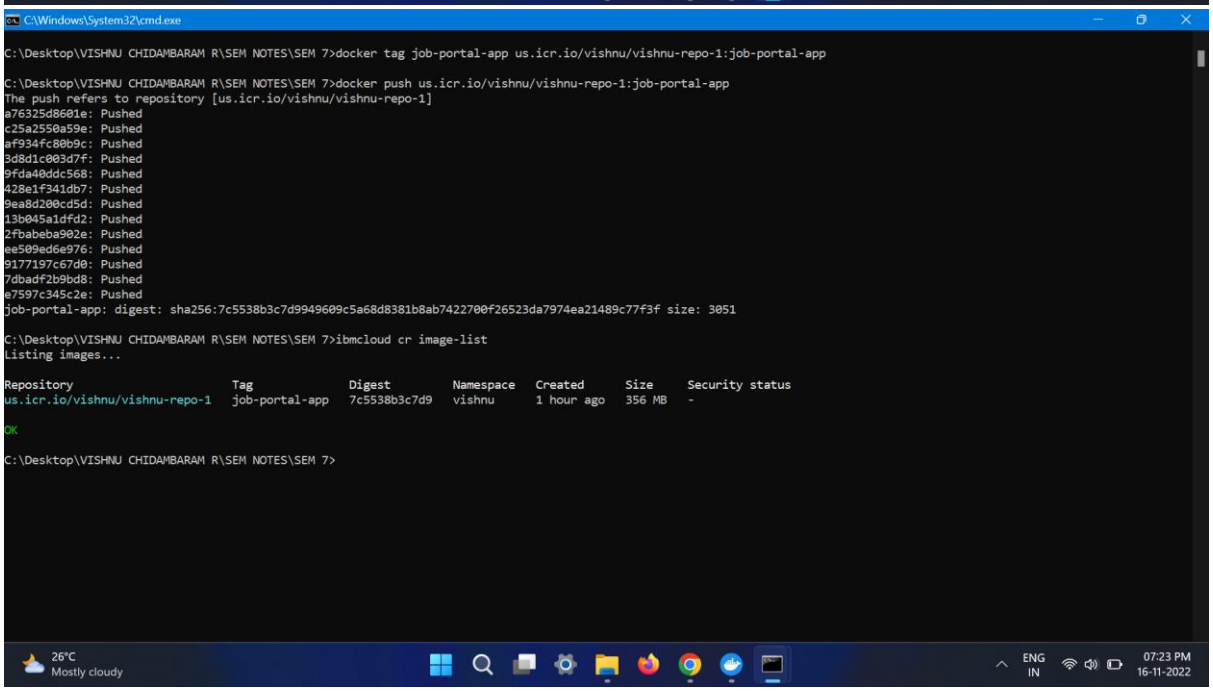
3.Create a IBM container registry and deploy helloworld app or jobportalapp.

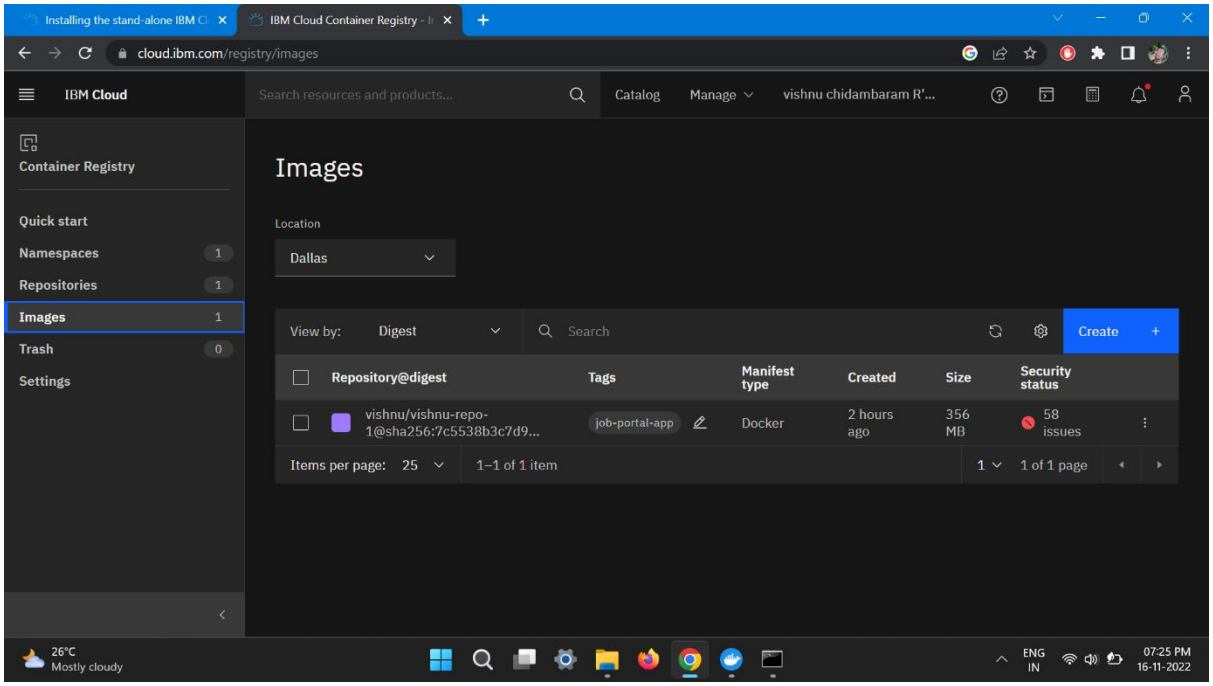
*open command promt and follow the command in the below images


Recycle Bin
VISHNU CHIDAMB...
apps
java comment
EC 20-4-2022
wifi password
C:\Windows\System32\cmd.exe
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: au-syd
Email> 910719104033@smartinternz.com
Password>
Authenticating...
OK
Targeted account vishnu chidambaram R's Account (8ddfef1461fc41988aa160f6ad7b9177)
API endpoint: https://cloud.ibm.com
Region: au-syd
User: 910719104033@smartinternz.com
Account: vishnu chidambaram R's Account (8ddfef1461fc41988aa160f6ad7b9177)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>
26°C
Mostly cloudy
ENG
IN
07:13 PM
16-11-2022


C:\Windows\System32\cmd.exe
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: au-syd
Email> 910719104033@smartinternz.com
Password>
Authenticating...
OK
Targeted account vishnu chidambaram R's Account (8ddfef1461fc41988aa160f6ad7b9177)
API endpoint: https://cloud.ibm.com
Region: au-syd
User: 910719104033@smartinternz.com
Account: vishnu chidambaram R's Account (8ddfef1461fc41988aa160f6ad7b9177)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>ibmcloud cr region-set us-south
The region is set to 'us-south', the registry is 'us.icr.io'.
OK
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>ibmcloud cr namespace-add sjr-ns-1
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.
Adding namespace 'sjr-ns-1' in resource group 'Default' for account vishnu chidambaram R's Account in registry us.icr.io...
FAILED
The requested namespace is already in use in registry 'us.icr.io'.
Choose a different namespace.
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>ibmcloud cr namespace-add vishnu
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.
26°C
Mostly cloudy
ENG
IN
07:23 PM
16-11-2022


C:\Windows\System32\cmd.exe
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>ibmcloud cr namespace-add vishnu
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.
Adding namespace 'vishnu' in resource group 'Default' for account vishnu chidambaram R's Account in registry us.icr.io...
Successfully added namespace 'vishnu'
OK
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>ibmcloud cr namespace-list
Listing namespaces for account 'vishnu chidambaram R's Account' in registry 'us.icr.io'...
Namespace
vishnu
OK
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>ibmcloud cr login
Logging 'docker' in to 'us.icr.io'...
Logged in to 'us.icr.io'.
OK
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>docker tag job-portal-app us.icr.io/vishnu/vishnu-repo-1:job-portal-app
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>docker push us.icr.io/vishnu/vishnu-repo-1:job-portal-app
The push refers to repository [us.icr.io/vishnu/vishnu-repo-1]
a76325d8601e: Pushed
c25a2550a59e: Pushed
af934fc80b9c: Pushed
3d8d1c003d7f: Pushed
9fda40ddc568: Pushed
428e1f341db7: Pushed
9ea8d200cd5d: Pushed
13b045a1dfd2: Pushed
2fbabeba902e: Pushed
ee509ed6e976: Pushed
9177197c67d0: Pushed
26°C
Mostly cloudy
ENG
IN
07:23 PM
16-11-2022


C:\Windows\System32\cmd.exe
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>docker tag job-portal-app us.icr.io/vishnu/vishnu-repo-1:job-portal-app
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>docker push us.icr.io/vishnu/vishnu-repo-1:job-portal-app
The push refers to repository [us.icr.io/vishnu/vishnu-repo-1]
a76325d8601e: Pushed
c25a2550a59e: Pushed
af934fc80b9c: Pushed
3d8d1c003d7f: Pushed
9fda40ddc568: Pushed
428e1f341db7: Pushed
9ea8d200cd5d: Pushed
13b045a1dfd2: Pushed
2fbabeba902e: Pushed
ee509ed6e976: Pushed
9177197c67d0: Pushed
7dbadf2b9bd8: Pushed
e7597c345c2e: Pushed
job-portal-app: digest: sha256:7c5538b3c7d9949609c5a68d8381b8ab7422700f26523da7974ea21489c77f3f size: 3051
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>ibmcloud cr image-list
Listing images...
Repository Tag Digest Namespace Created Size Security status
us.icr.io/vishnu/vishnu-repo-1 job-portal-app 7c5538b3c7d9 vishnu 1 hour ago 356 MB -
OK
C:\Desktop\VISHNU CHIDAMBARAM R\SEM NOTES\SEM 7>
26°C
Mostly cloudy
ENG
IN
07:23 PM
16-11-2022



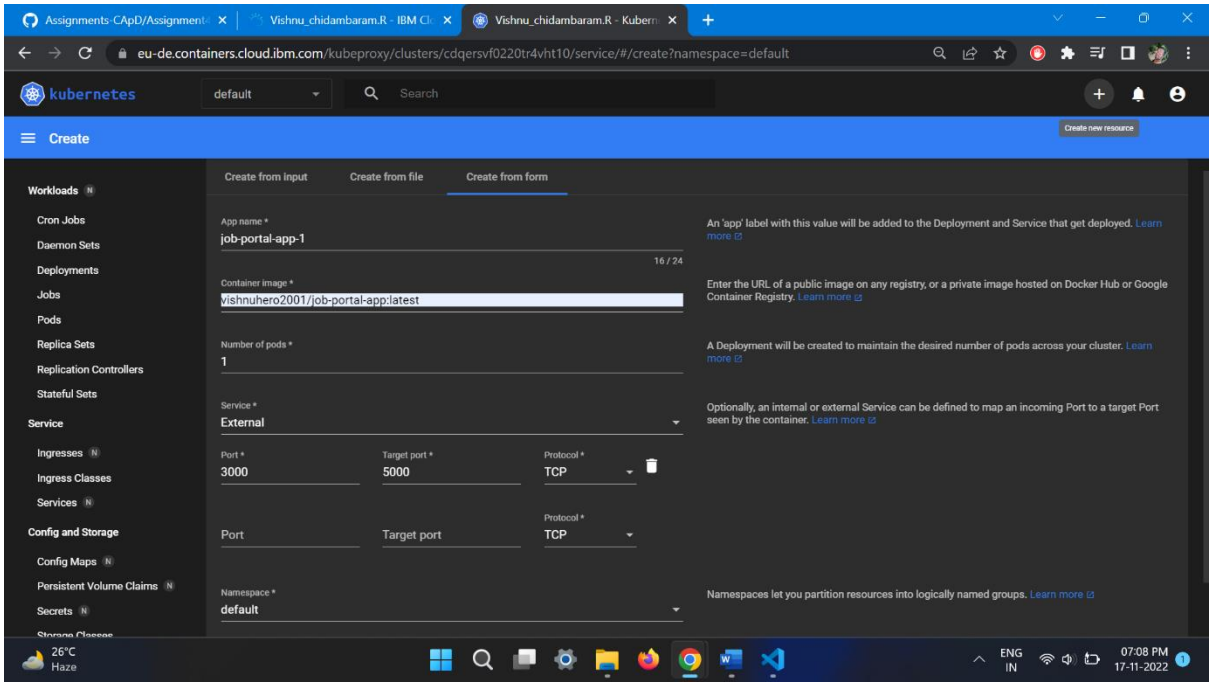
4.Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

*login to ibmcloud

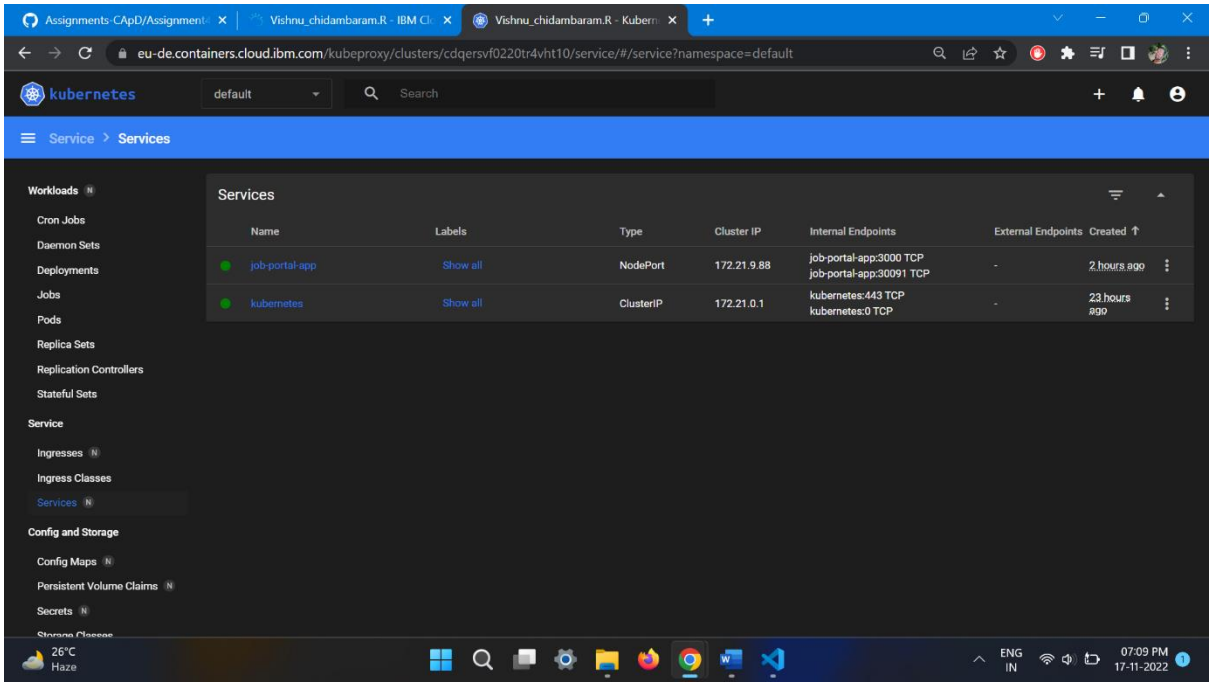
* Create a Kubernetes cluster

*go to Kubernetes dashboard

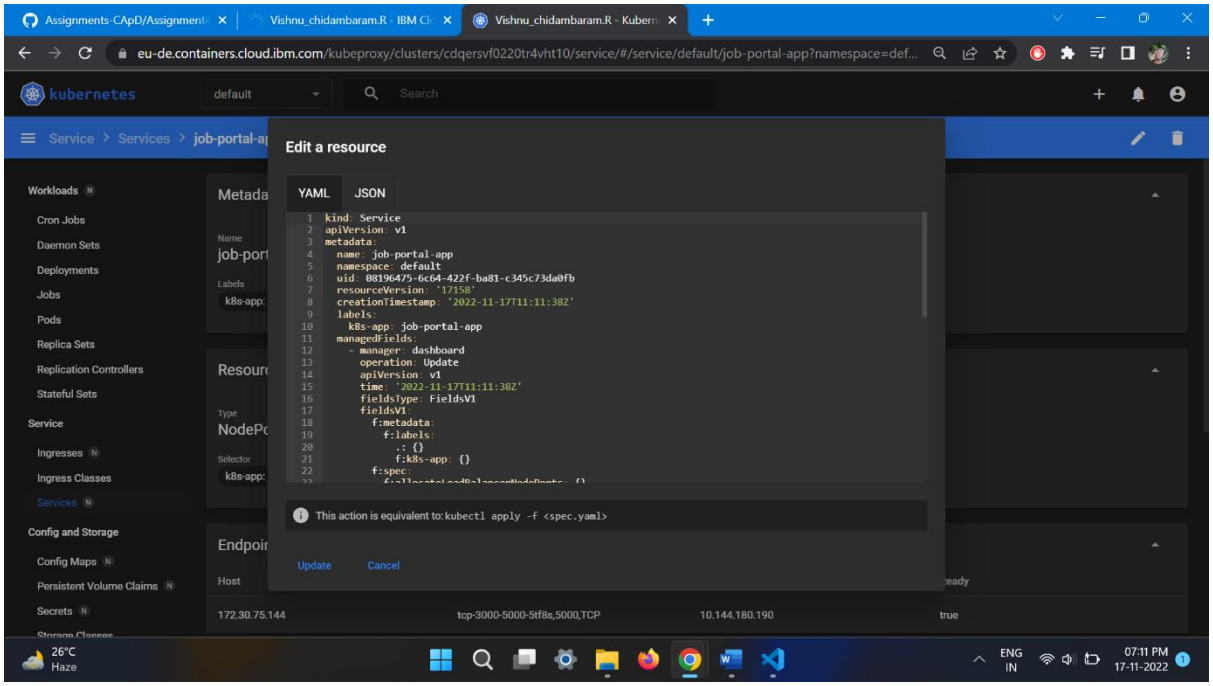
*create a new one



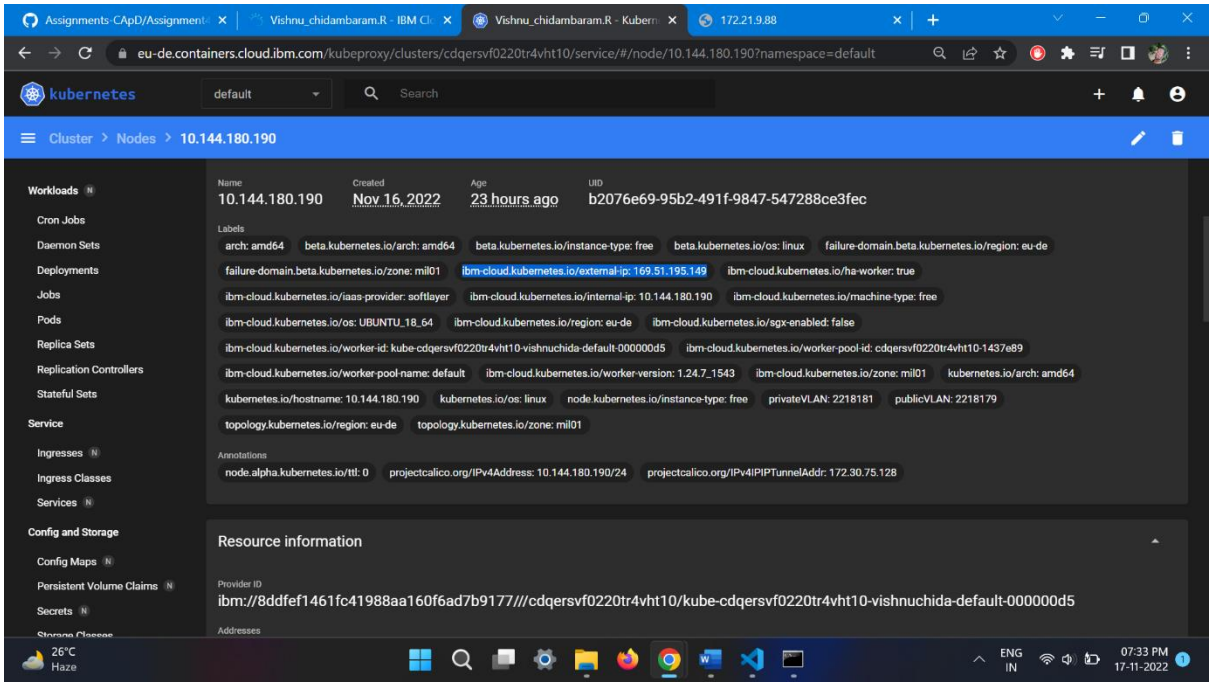
*go to services



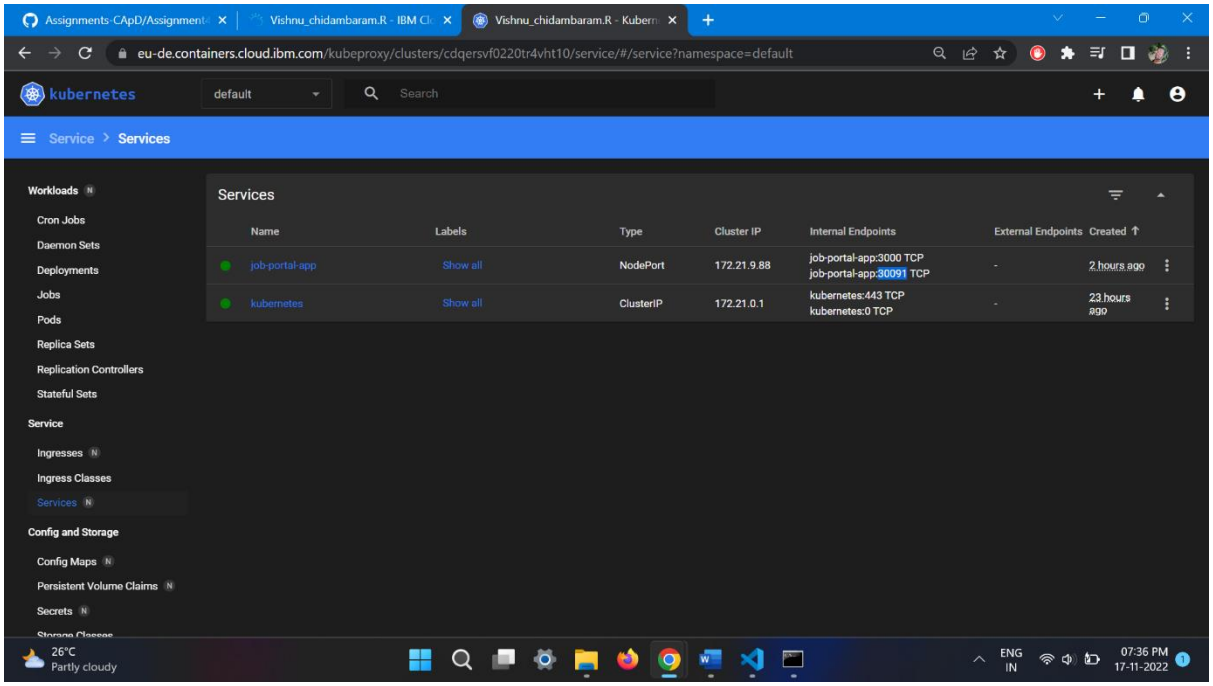
*click edit option to see the yaml file



*delopyment id



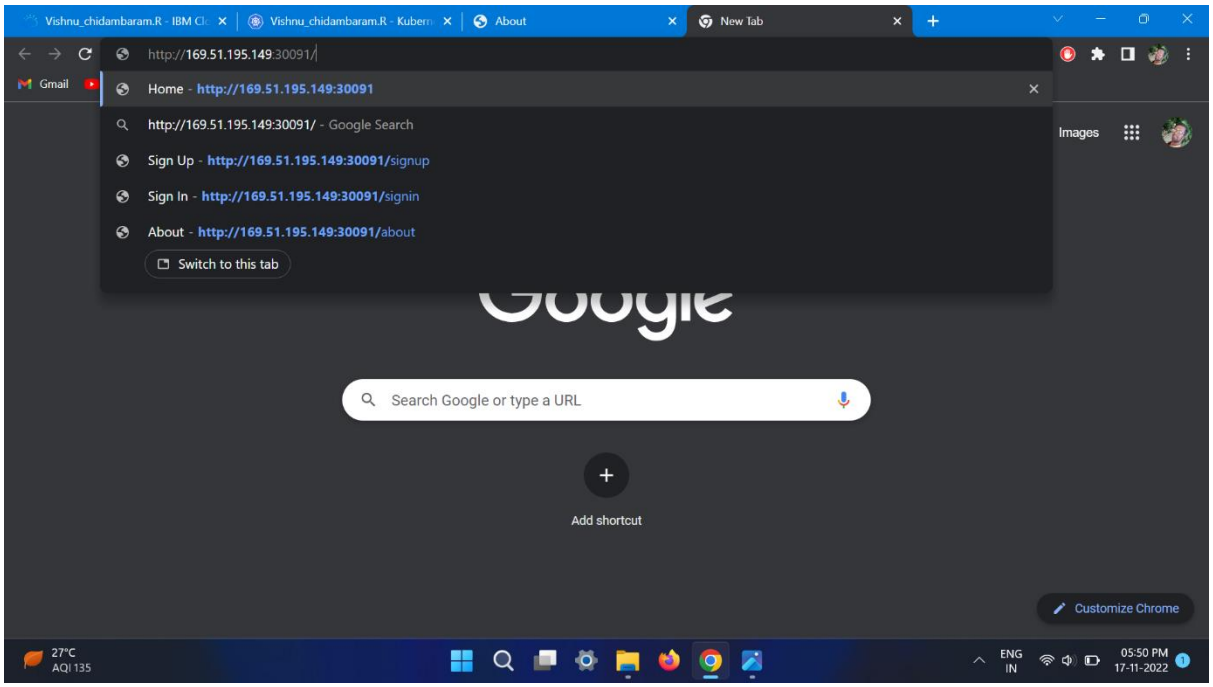
Copy the ip and port numer



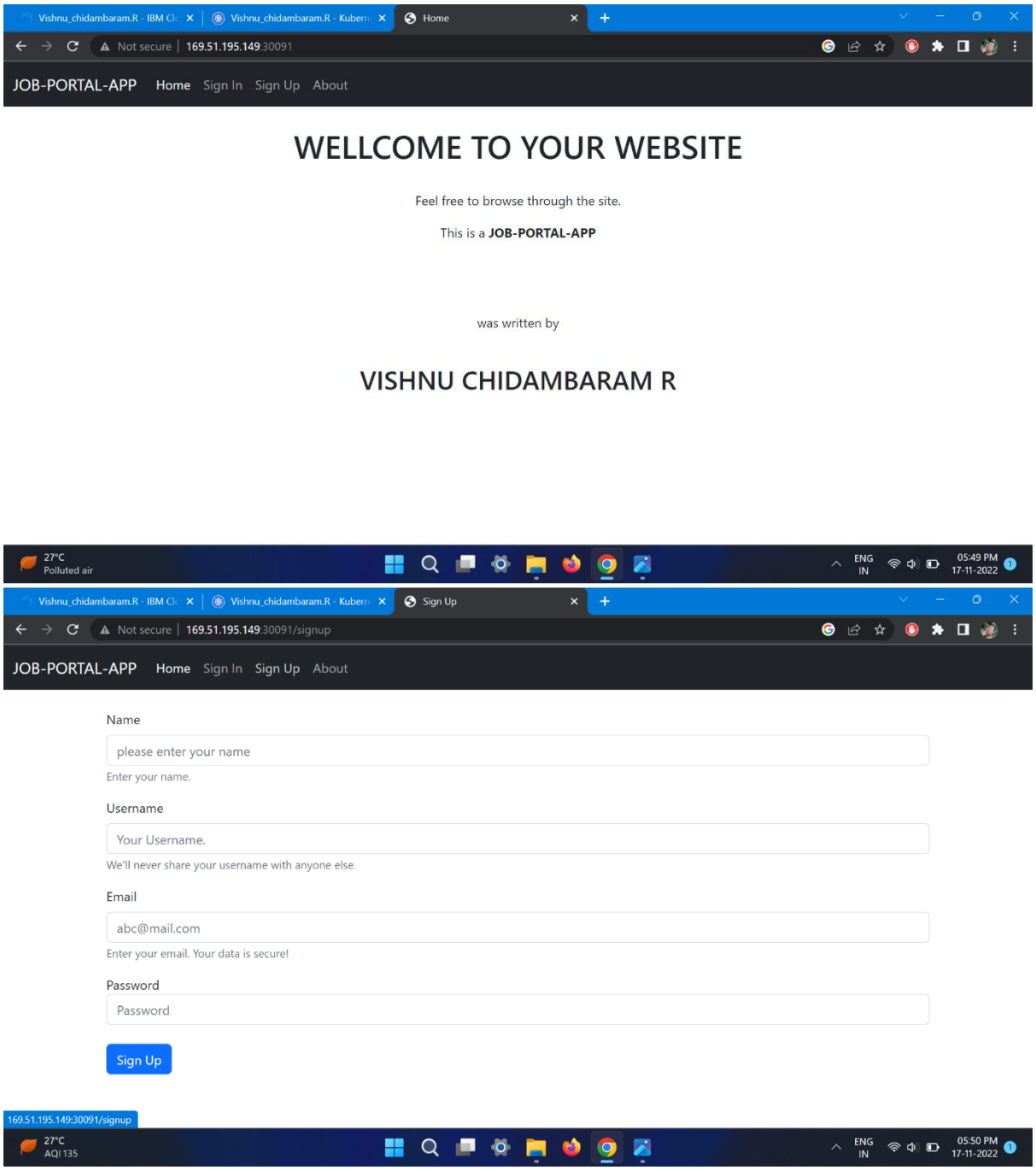
*paste the ip and port numer in browser

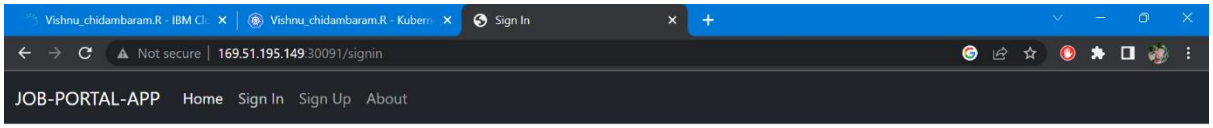
DEPLOYMENT ID:

http://169.51.195.149:30091/



output screen





Username

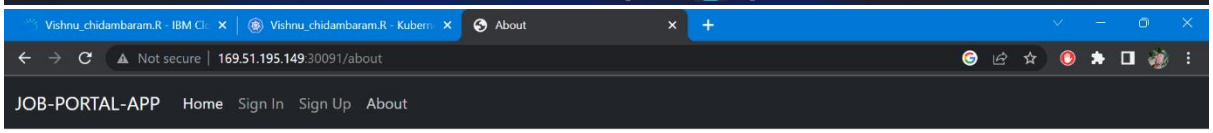
Enter Username

We'll never share your username with anyone else.

Password

Password

Submit



JOB-PORTAL-APP

Hi, I'm **VISHNU CHIDAMBARAM R**

available company

1)TCS

2)CTS

3)INFOSYS

4)FACEBOOK

5)WIPRO