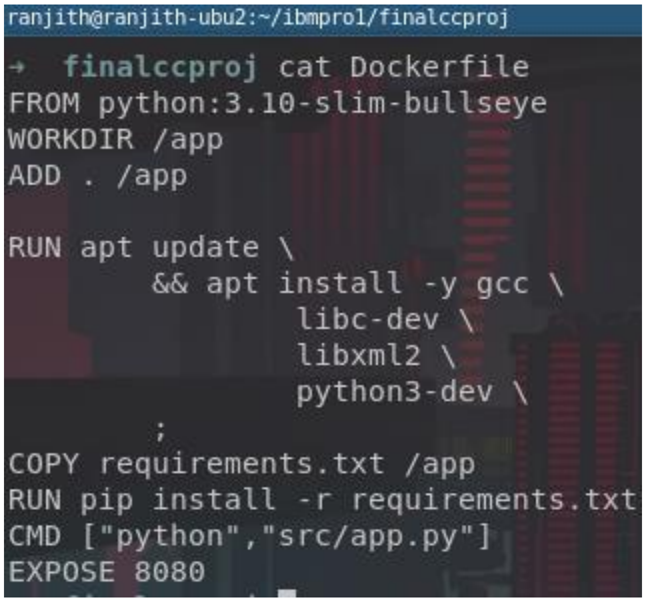
Date	19 NOVEMBER 2022
Team ID	PNT2022TMID47962
Project Name	Customer Care Registry

Sprint 1

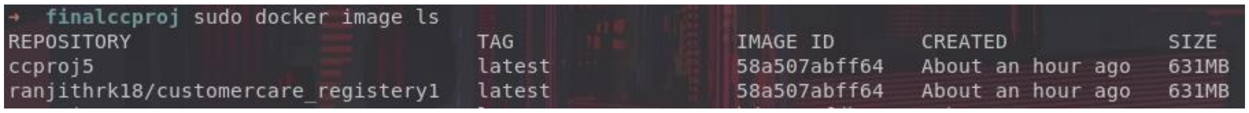
Containerization and deployment

Docker file



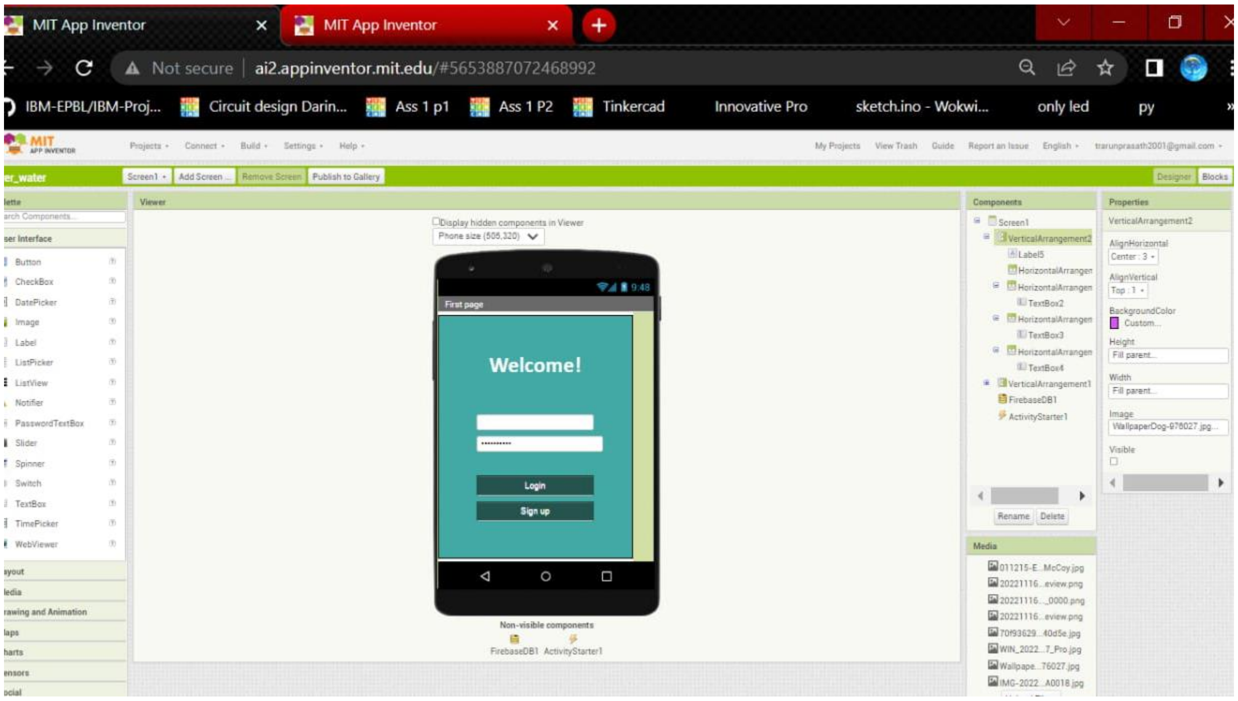
```
ranjith@ranjith-ubu2:~/ibmpro1/finalccproj
→  finalccproj cat Dockerfile
FROM python:3.10-slim-bullseye
WORKDIR /app
ADD . /app

RUN apt update \
        && apt install -y gcc \
                libc-dev \
                libxml2 \
                python3-dev \
        ;
COPY requirements.txt /app
RUN pip install -r requirements.txt
CMD ["python","src/app.py"]
EXPOSE 8080
```

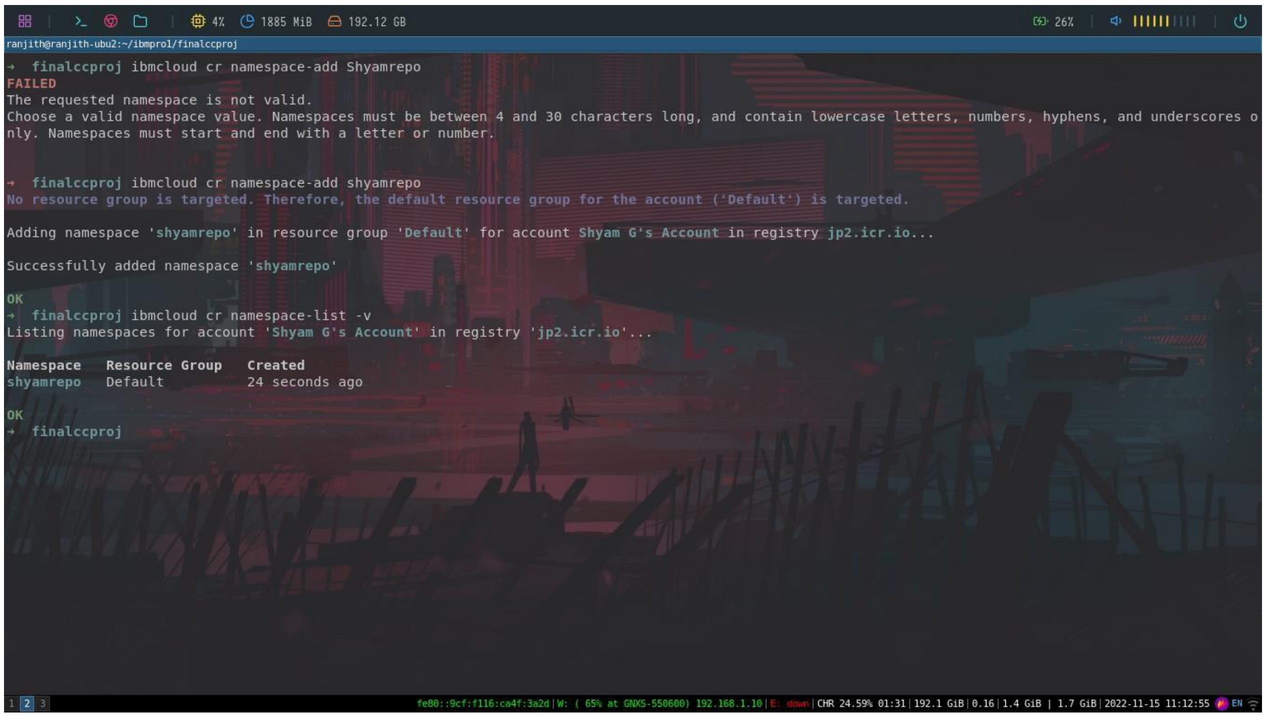
Docker images



```
→  finalccproj sudo docker image ls
REPOSITORY                          TAG        IMAGE ID       CREATED            SIZE
ccproj5                             latest     58a507abff64   About an hour ago   631MB
ranjithrk18/customercare_registery1 latest     58a507abff64   About an hour ago   631MB
```

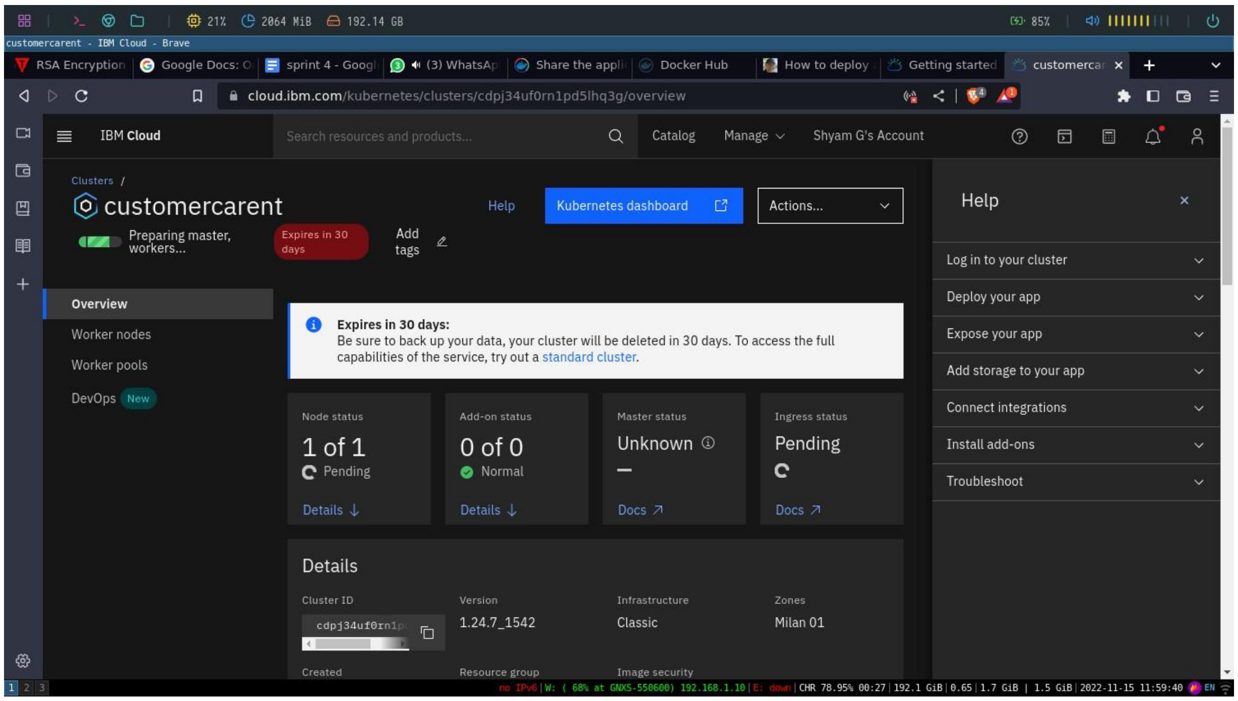
Running container





```
ranjith@ranjith-ubu2:~/ibmprol/finalccproj
→ finalccproj ibmcloud cr namespace-add Shyamrepo
FAILED
The requested namespace is not valid.
Choose a valid namespace value. Namespaces must be between 4 and 30 characters long, and contain lowercase letters, numbers, hyphens, and underscores o
nly. Namespaces must start and end with a letter or number.


→ finalccproj ibmcloud cr namespace-add shyamrepo
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.

Adding namespace 'shyamrepo' in resource group 'Default' for account Shyam G's Account in registry jp2.icr.io...

Successfully added namespace 'shyamrepo'

OK
→ finalccproj ibmcloud cr namespace-list -v
Listing namespaces for account 'Shyam G's Account' in registry 'jp2.icr.io'...

Namespace   Resource Group   Created
shyamrepo   Default          24 seconds ago

OK
→ finalccproj
```

Kubernetes cluster creation



cloud.ibm.com/kubernetes/clusters/cdpj34uf0rn1pd5lhq3g/overview

Clusters /

customercarent

Preparing master, workers...

Expires in 30 days

Add tags

Help | Kubernetes dashboard | Actions...

Overview | Worker nodes | Worker pools | DevOps New

Expires in 30 days:
Be sure to back up your data, your cluster will be deleted in 30 days. To access the full capabilities of the service, try out a standard cluster.

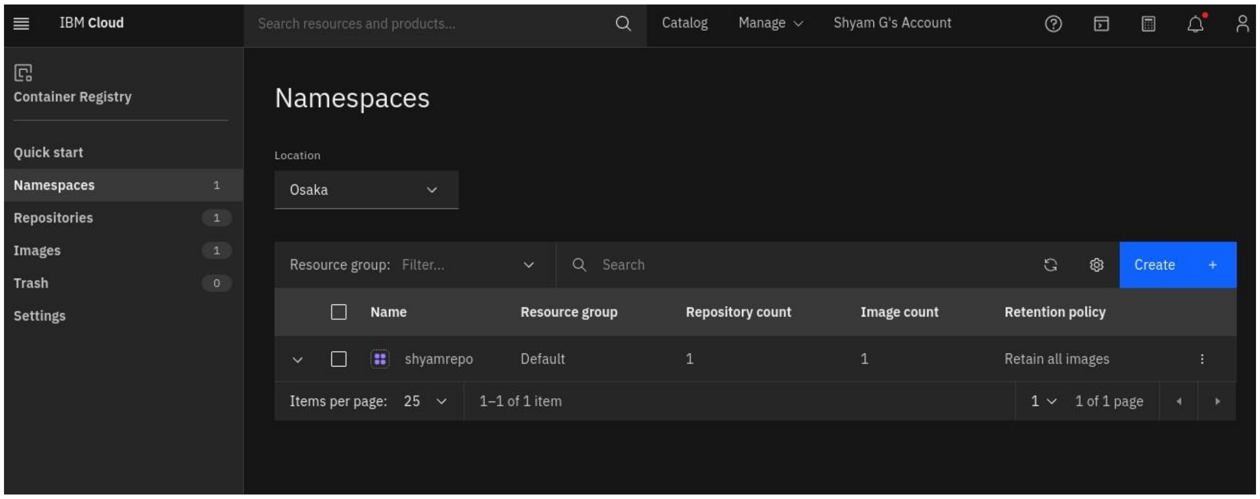
Node status	Add-on status	Master status	Ingress status
1 of 1 Pending	0 of 0 Normal	Unknown	Pending

Details

Cluster ID	Version	Infrastructure	Zones
cdpj34uf0rn1p	1.24.7_1542	Classic	Milan 01

Created | Resource group | Image security

Help: Log in to your cluster | Deploy your app | Expose your app | Add storage to your app | Connect integrations | Install add-ons | Troubleshoot



Namespaces

Location: Osaka

Resource group: Filter...

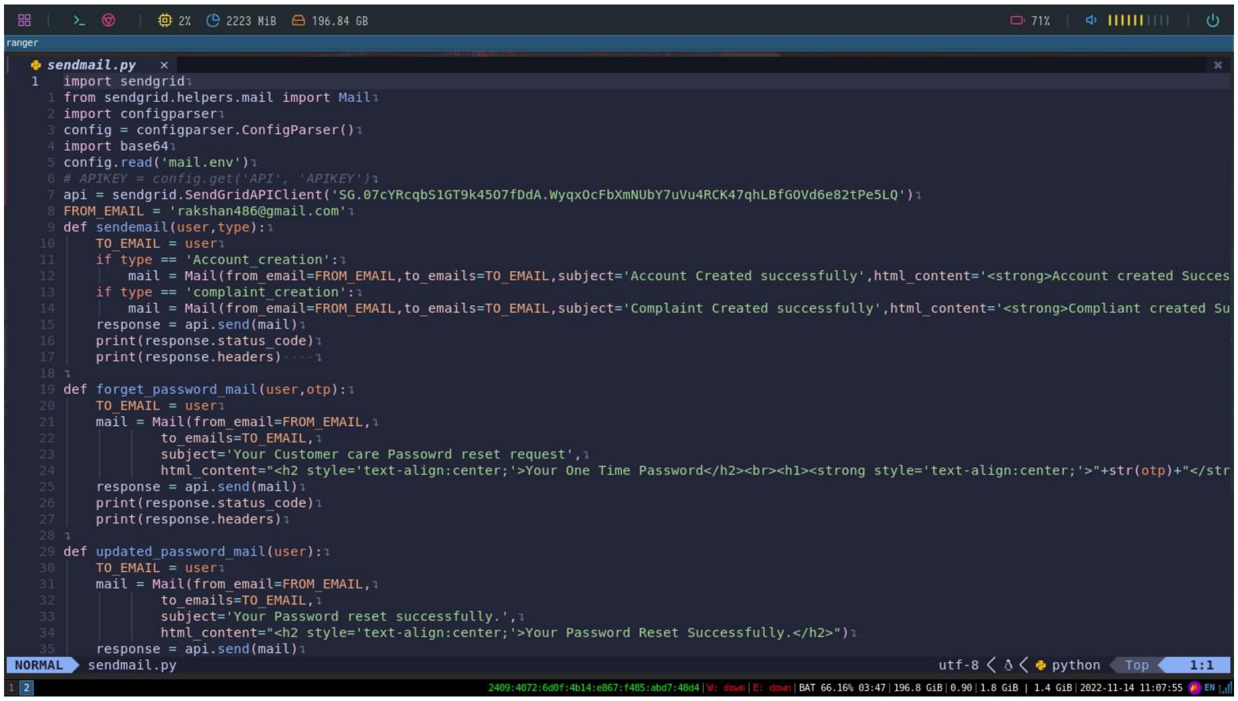
Name	Resource group	Repository count	Image count	Retention policy
shyamrepo	Default	1	1	Retain all images

Items per page: 25 1–1 of 1 item 1 1 of 1 page

Sendgrid Acc:

Sendgrid code:

```
import sendgrid
from sendgrid.helpers.mail import Mail
import configparser
config = configparser.ConfigParser()
import base64 config.read('mail.env')
# APIKEY = config.get('API', 'APIKEY')
api = sendgrid.SendGridAPIClient('SG.07cYRcqbS1GT9k45O7fDdA.WyqxOcFbXmNUbY7uVu4RCK
47qhLBfGOVd6e82tPe5LQ')
FROM_EMAIL = 'rakshan486@gmail.com'
def sendemail(user,type):
    TO_EMAIL = user
    if type == 'Account_creation':
        mail = Mail(from_email=FROM_EMAIL,to_emails=TO_EMAIL,subject='Account Created
successfully',html_content='<strong>Account created Successfully</strong>')
    if type == 'complaint_creation':
        mail = Mail(from_email=FROM_EMAIL,to_emails=TO_EMAIL,subject='Complaint Created
successfully',html_content='<strong>Compliant created Successfully</strong>')
    response = api.send(mail)
    print(response.status_code)
    print(response.headers)
```



```
import sendgrid
from sendgrid.helpers.mail import Mail
import configparser
config = configparser.ConfigParser()
import base64
config.read('mail.env')
# APIKEY = config.get('API', 'APIKEY')
api = sendgrid.SendGridAPIClient('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')
FROM_EMAIL = 'rakshan486@gmail.com'
def sendemail(user,type):
    TO_EMAIL = user
    if type == 'Account_creation':
        mail = Mail(from_email=FROM_EMAIL,to_emails=TO_EMAIL,subject='Account Created successfully',html_content='<strong>Account created Succes
    if type == 'complaint_creation':
        mail = Mail(from_email=FROM_EMAIL,to_emails=TO_EMAIL,subject='Complaint Created successfully',html_content='<strong>Compliant created Su
    response = api.send(mail)
    print(response.status_code)
    print(response.headers)

def forget_password_mail(user,otp):
    TO_EMAIL = user
    mail = Mail(from_email=FROM_EMAIL,
            to_emails=TO_EMAIL,
            subject='Your Customer care Passowrd reset request',
            html_content="<h2 style='text-align:center;'>Your One Time Password</h2><br><h1><strong style='text-align:center;'>"+str(otp)+"</str
    response = api.send(mail)
    print(response.status_code)
    print(response.headers)

def updated_password_mail(user):
    TO_EMAIL = user
    mail = Mail(from_email=FROM_EMAIL,
            to_emails=TO_EMAIL,
            subject='Your Password reset successfully.',
            html_content="<h2 style='text-align:center;'>Your Password Reset Successfully.</h2>")
    response = api.send(mail)
```

```
NORMAL  sendmail.py                                   utf-8   python  Top  1:1
1 2   2409:4072:6d0f:4b14:e867:f485:abd7:48d4 | W: down | E: down | BAT 66.16% 03:47 | 196.8 GiB | 0.90 | 1.8 GiB | 1.4 GiB | 2022-11-14 11:07:55 EN
```