## Assignment - IV

#### **Docker & Kubernetes**

### **Cloud Application Development**

Assignment Date	30 <sup>th</sup> October 2022
Student Name	Mr.A.Sasidharan
Student Roll Number	61771921043
Maximum Marks	2 Marks

### **Question-1:**

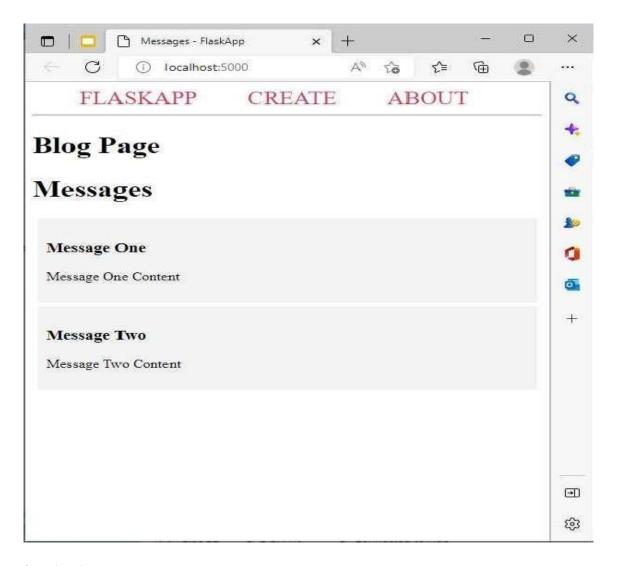
pull an image from docker hub and run it in docker playground.

### pull an image form docker hub

runt it in docker playground







# **Question-2:**

Create a docker file for the jobportal application and deploy it in docker application.

Creating a docker file for the jobportal application

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1 FROM python:3.10.6

2 WORKDIR /app

3 COPY requirements.txt ./

4 RUN pip install -r requirements.txt

5 COPY .

6 EXPOSE 5000

7 CMD ["python", "./app.py"]

8
```

### deploy in in dokcer application

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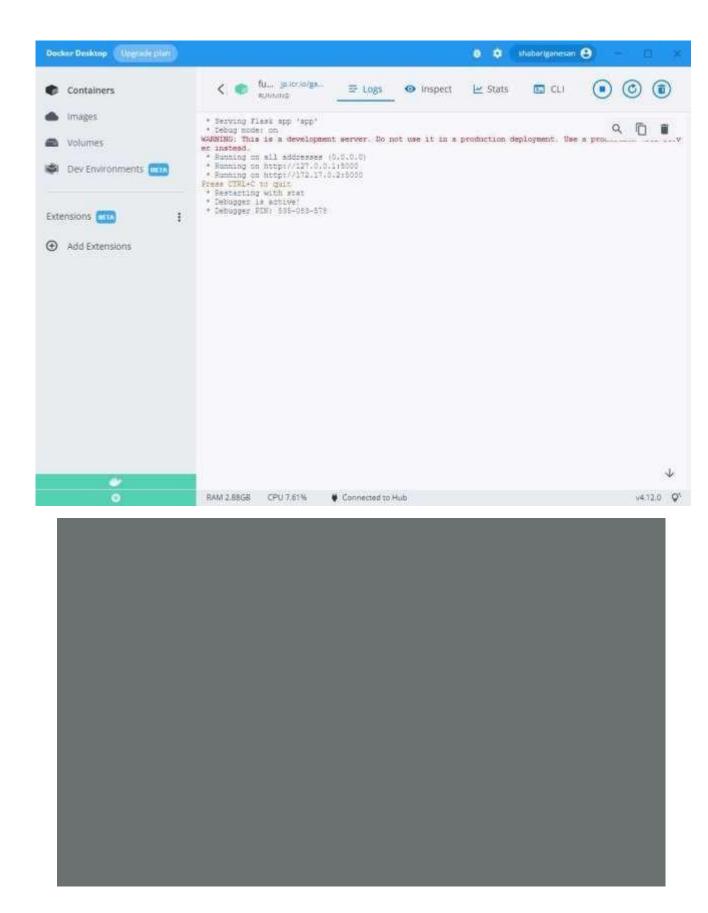
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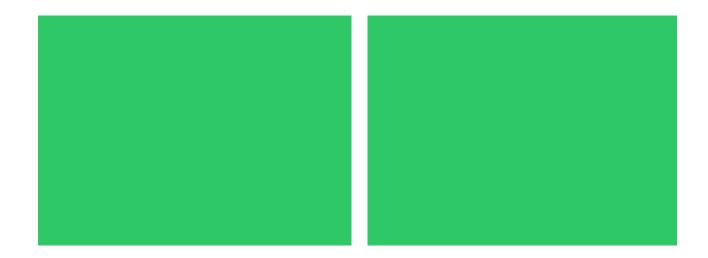


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running in docker desktop 1

# create a ibm container registry



## deployhelloworld or jobportal

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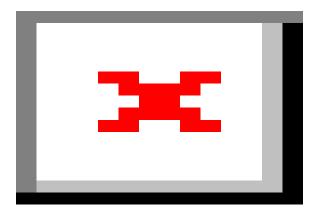
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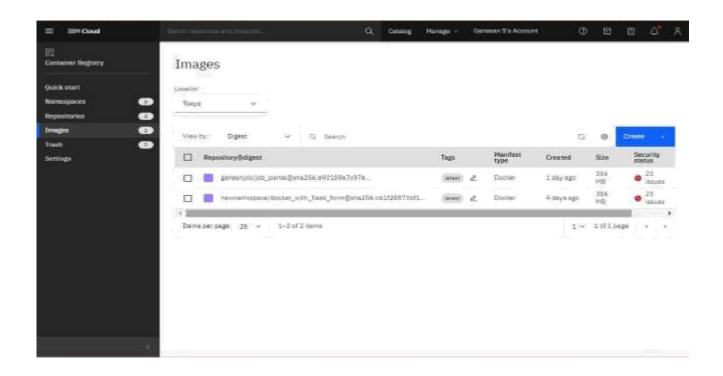
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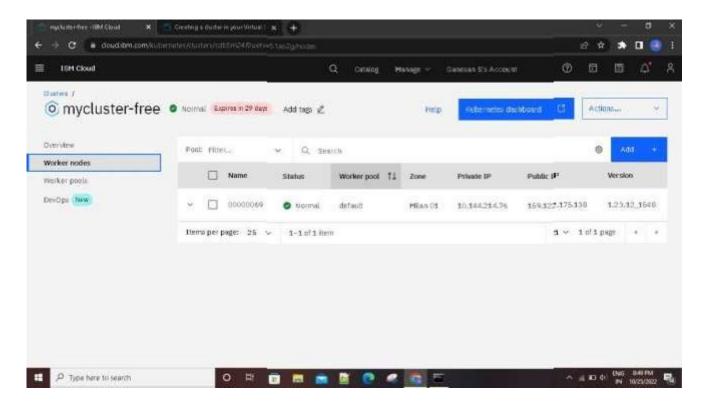
district 1 seps al
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Question-4: Create a kubernetes cluster in ibm cloud and deploy helloworld image or jobportal image and also expose the same app to run in noteport

### Creating a kubernetes cluster in ibm cloud



deploy helloworld image or jobportal image and also expose the same app to run in noteport

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Services

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ving on NotDe//127.0.2.51115800
ving on NotDe//127.0.2.5111580

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he Service "flask service" is invalid: metadata.name: Invalid value: "flask service"; a DNS-1835 label must consist of lower case alphanumenic characters or '.'. start
with an alphabetic character, and end with an alphanumenic character (e.g. "my-name", or "abc-123", regex used for validation is '[=-2]([-a-zH-9]\*[a-zH-9])')' :\Windows\system32>kuhecti expose deployment flask-app --type-NodePort --name-Flask service
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Task-app-ingress cnone> \* 80 278 :\Mindows\system32>kubect1 get avc AME TYPE CLUSTER-IP EXTERNAL-ID