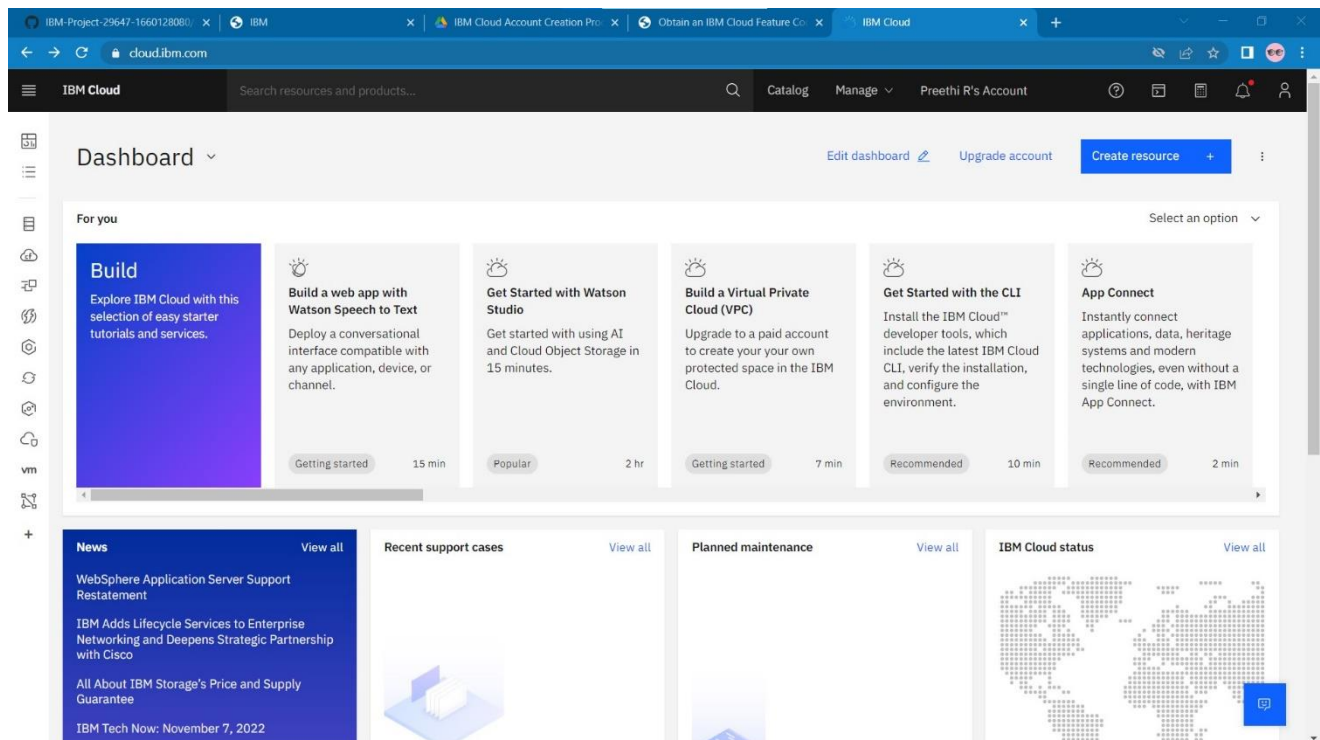


Deployment of App in IBM Cloud

Containerize the App

Date	18 NOV 2022
Team ID	PNT2022TMID34417
Project Name	Skill and Job Recommender

Step 1 : Sign in to your [IBM Cloud Dashboard](#) And Open **IBM Kubernetes Service**.



Step 2 : Create the **Cluster**. Give the Region and cluster type are need to create cluster.

cloud.ibm.com/kubernetes/clusters/cdr5r5gf0ed76vcsbfd0/overview

IBM Cloud Search resources and products... Catalog Manage Anupama R S's Account

Clusters / mycluster-free 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 1 of 1 Pending Details ↓	Add-on status Error Unknown Details ↓	Master status Unknown Docs ↗	Ingress status Pending Docs ↗
--	--	---	--

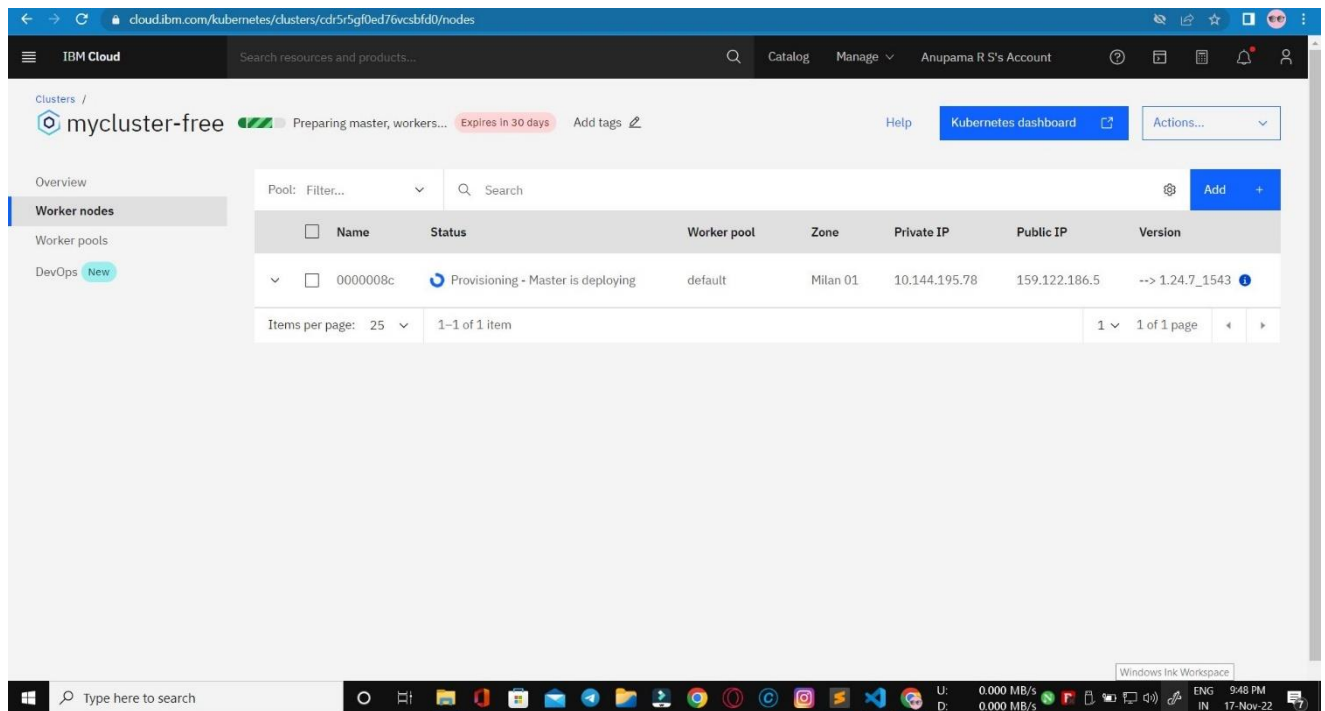
Details

Cluster ID cdr5r5gf0ed76vcsbfd0	Version 1.24.8_1544	Infrastructure Classic	Zones Milan 01
Created 11/17/2022, 9:43 PM	Resource group	Image security enforcement Enable	

Node health Worker node details

1 total nodes

Step 3 : After creating the cluster Click the Work Node to Note the pubic Id.



Step 4 : Next Create a Docker file in Flask App and Type a Following Code within it

```
FROM python:2.7
LABEL maintainer="Kunal Malhotra, kunal.malhotra@ibm.com"
RUN apt-get update
RUN mkdir /app
WORKDIR /app
COPY . /app
RUN pip install -r requirements.txt
EXPOSE 5000
ENTRYPOINT [ "python" ]    CMD [ "app.py" ]
```

Step 5 :

Open the terminal and type this command to build an image from your Dockerfile: `docker build -t <image_name>:<tag> .`

```

kunal@mbp:~$ docker build -t app:latest .
Sending build context to Docker daemon 348.2kB
Step 1/8 : FROM python:2.7
--> 6c76d39e7cfe
Step 2/8 : LABEL maintainer="Kunal Malhotra, kunal.malhotra@ibm.com"
--> Using cache
--> d8b57d41591c
Step 3/8 : RUN apt-get update
--> Using cache
--> 6262a134e40e
Step 4/8 : COPY . /app
--> f07f7377099f
Step 5/8 : WORKDIR /app
Removing intermediate container f9010b99d2fe
--> 0bccc6af20e3d
Step 6/8 : RUN pip install -r requirements.txt
--> Running in 8153040b00b7
Collecting click==6.7 (from -r requirements.txt (line 1))
  Downloading https://files.pythonhosted.org/packages/34/c1/8806f99713ddb993c5366c362b2f908f18269f8d792aff1abfd700775a77/click-6.7-py2.py3-none-any.whl (71kB)
Collecting Flask==1.0.2 (from -r requirements.txt (line 2))
  Downloading https://files.pythonhosted.org/packages/71/67/08578774ed4536d3242b14d0cb4696386634607af824e0997202cd0edb4b/Flask-1.0.2-py2.py3-none-any.whl (91kB)
Collecting itsdangerous==0.24 (from -r requirements.txt (line 3))
  Downloading https://files.pythonhosted.org/packages/dc/b4/a60b0c0ba945c00f6d608d8975131ab3f25b22f2b0f1d0b221165194b204/itsdangerous-0.24.tar.gz (46kB)
Collecting Jinja2==2.10 (from -r requirements.txt (line 4))
  Downloading https://files.pythonhosted.org/packages/7f/ff/ae64bacdfc95f27a016a7bed8e8686763ba04d277a78ca76f32659220a731/jinja2-2.10-py2.py3-none-any.whl (126kB)
Collecting MarkupSafe==1.0 (from -r requirements.txt (line 5))
  Downloading https://files.pythonhosted.org/packages/4d/de/32d741db316d8fdb7680822dd37001ef7a448255de9699ab4bfcdbf4172b/MarkupSafe-1.0.tar.gz
Collecting Werkzeug==0.14.1 (from -r requirements.txt (line 6))
  Downloading https://files.pythonhosted.org/packages/20/c4/12e3e56473e52375aa29c4764e70d1b8f3efa6682bef8d0aae04fe335243/Werkzeug-0.14.1-py2.py3-none-any.whl (322kB)
Building wheels for collected packages: itsdangerous, MarkupSafe
Running setup.py bdist_wheel for itsdangerous: started
Running setup.py bdist_wheel for itsdangerous: finished with status 'done'
Stored in directory: /root/.cache/pip/wheels/2c/4a/61/5599631c1554768c6290b08c02c72d7317910374ca602ff1e5
Running setup.py bdist_wheel for MarkupSafe: started
Running setup.py bdist_wheel for MarkupSafe: finished with status 'done'
Stored in directory: /root/.cache/pip/wheels/33/56/20/ebef49a5c612fffe1c5a632146b16596f9e64676768661e4e46
Successfully built itsdangerous MarkupSafe
Installing collected packages: click, itsdangerous, MarkupSafe, Jinja2, Werkzeug, Flask
Successfully installed Flask-1.0.2 Jinja2-2.10 MarkupSafe-1.0 Werkzeug-0.14.1 click-6.7 itsdangerous-0.24
Removing intermediate container 8153040b00b7
--> 66d263697bc
Step 7/8 : ENTRYPOINT [ "python" ]
--> Running in bd1c83815e1
Removing intermediate container bd1c83815e1
--> 73cfc38ac1c
Step 8/8 : CMD [ "app.py" ]
--> Running in a784d430dd6f
Removing intermediate container a784d430dd6f
--> d8b6b83763a5
Successfully built d8b6b83763a5
Successfully tagged app:latest
kunal@mbp:~$

```

Docker Image Created Successfully.