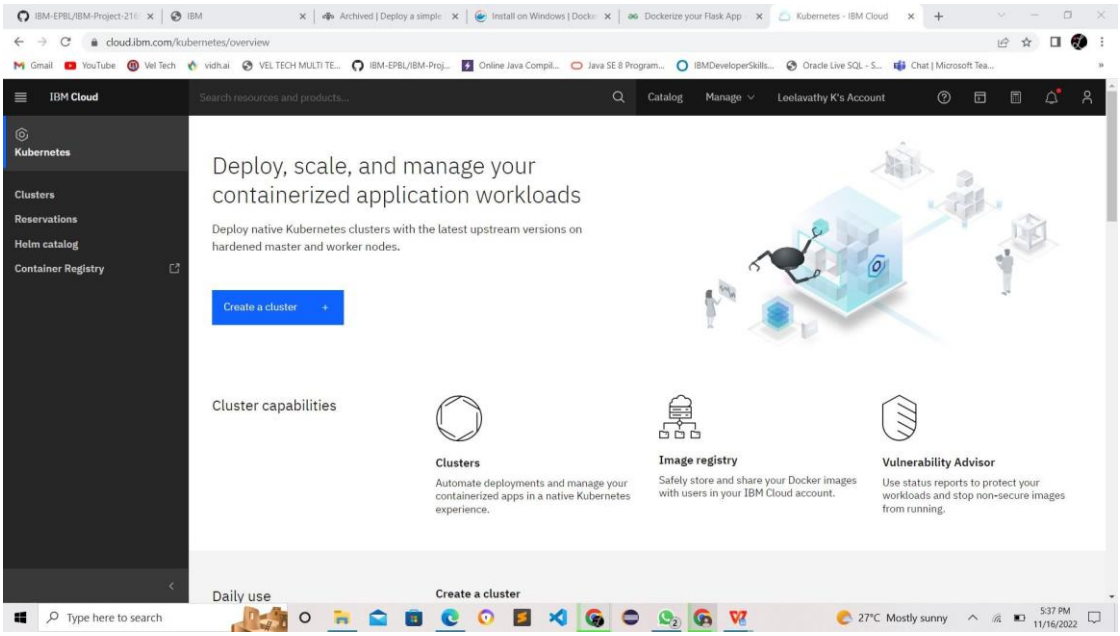
CONTAINERIZE THE APP

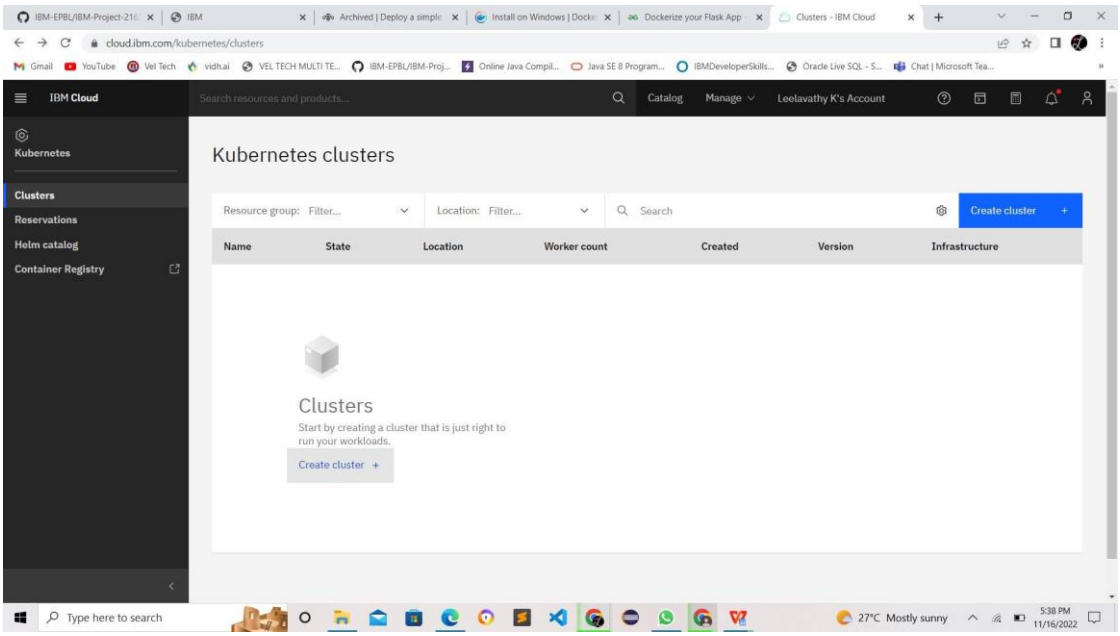
Date	15 November 2022
Team ID	PNT2022TMID20350
Project Name	Plasma Donor Application

STEP 1: Sign in to your [IBM Cloud Dashboard]

STEP 2: Open IBM Kubernetes Service



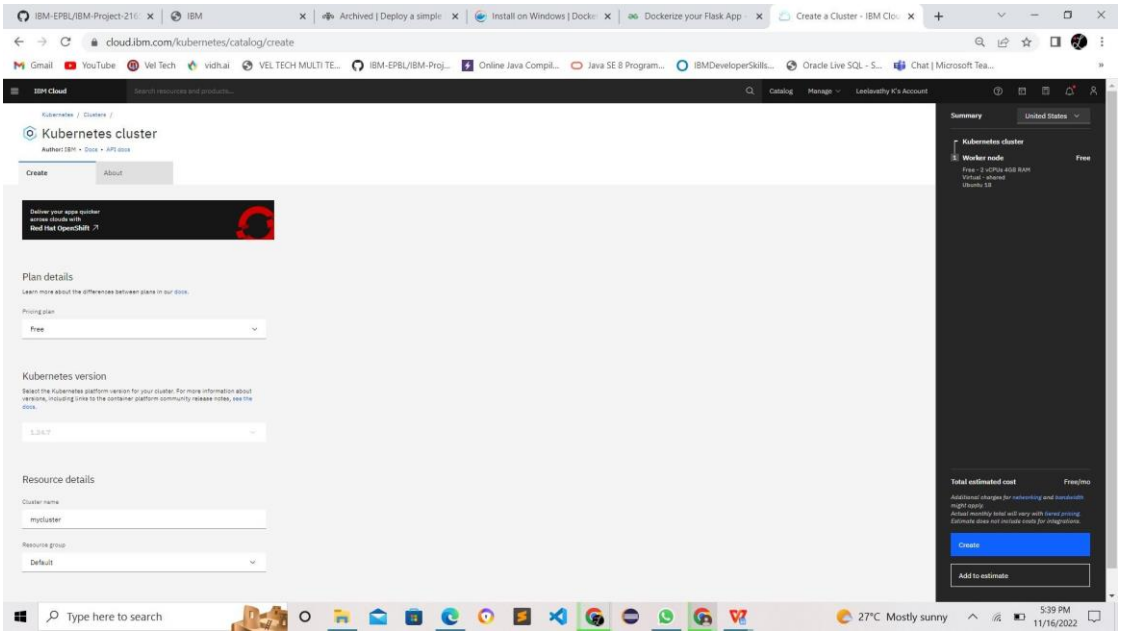
STEP 3: Click Create Cluster



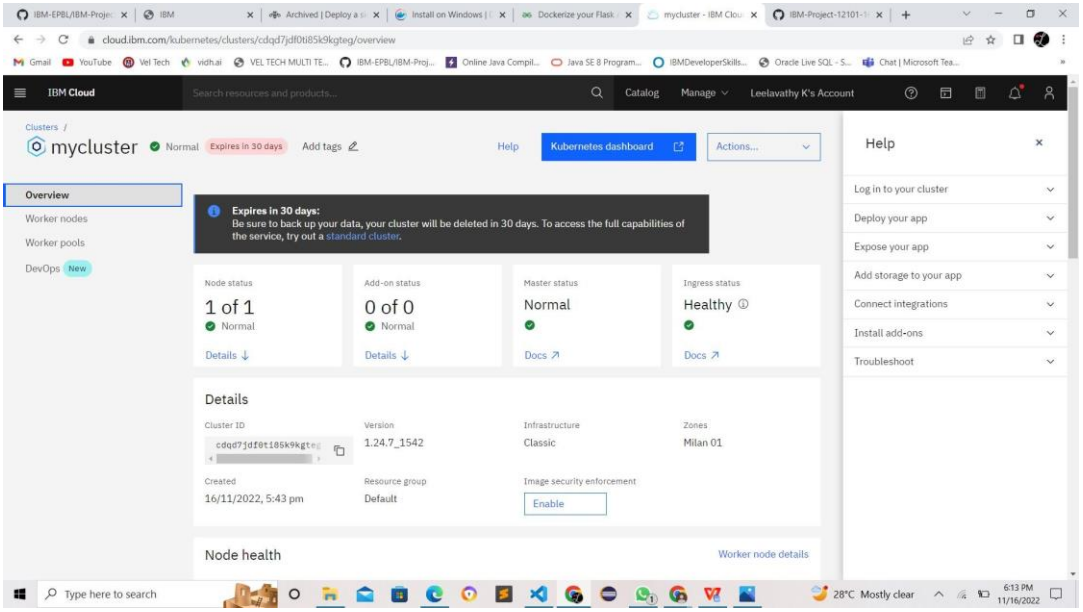
STEP 4: Select the Region where you want to deploy the cluster, type in a name for your cluster, then click Create Cluster.

STEP 5: Select the appropriate cluster type depending on your account.

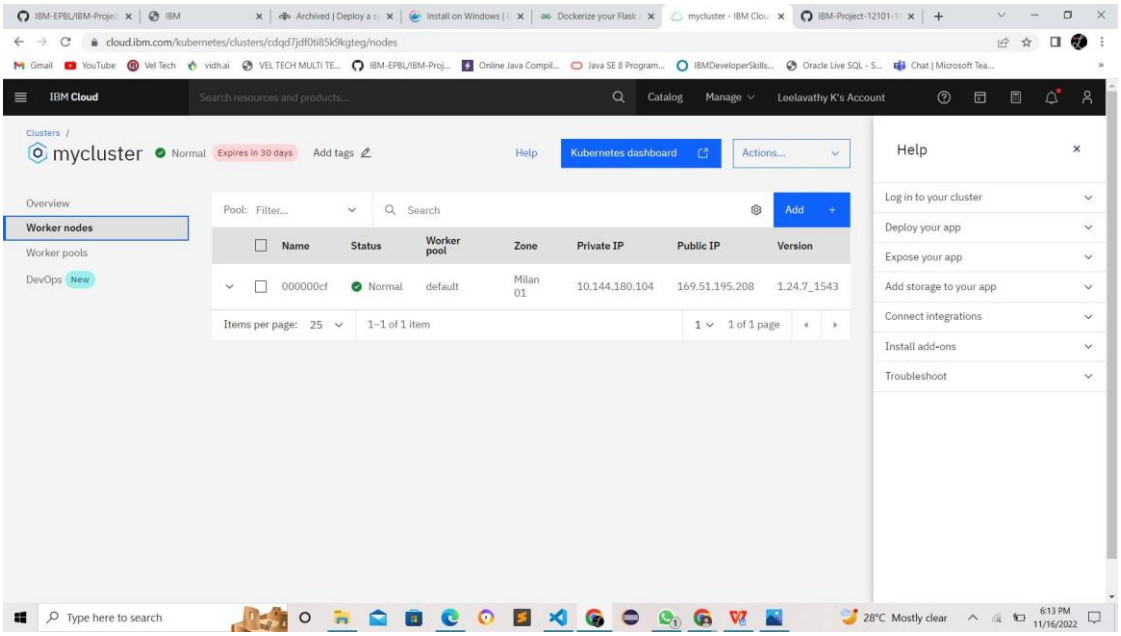
STEP 6: It takes some time for the cluster to get ready (around 30 minutes).



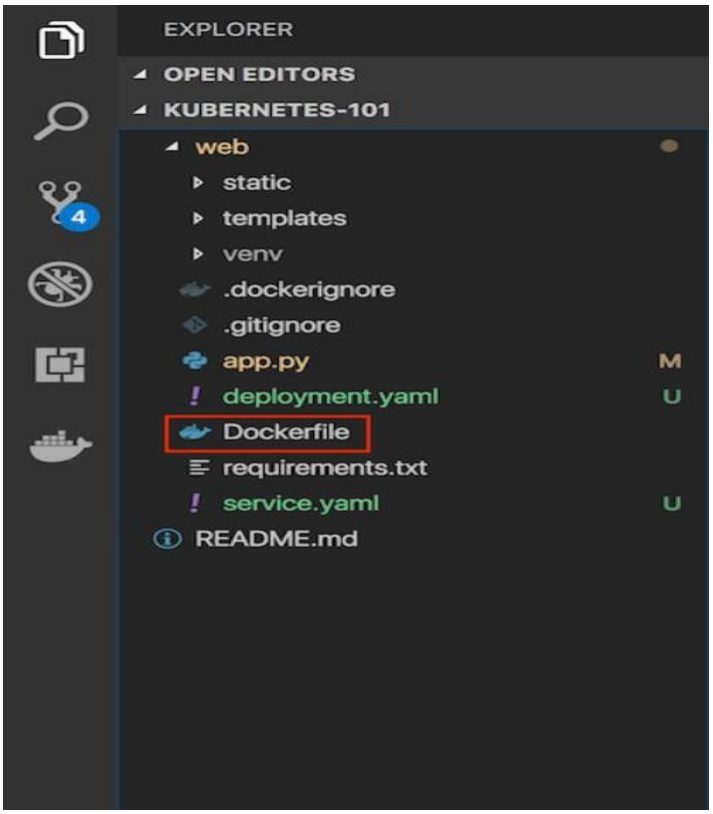
STEP 7: Once the cluster is ready, click on your cluster's name and you will be redirected to a new page with information about your cluster and worker node.

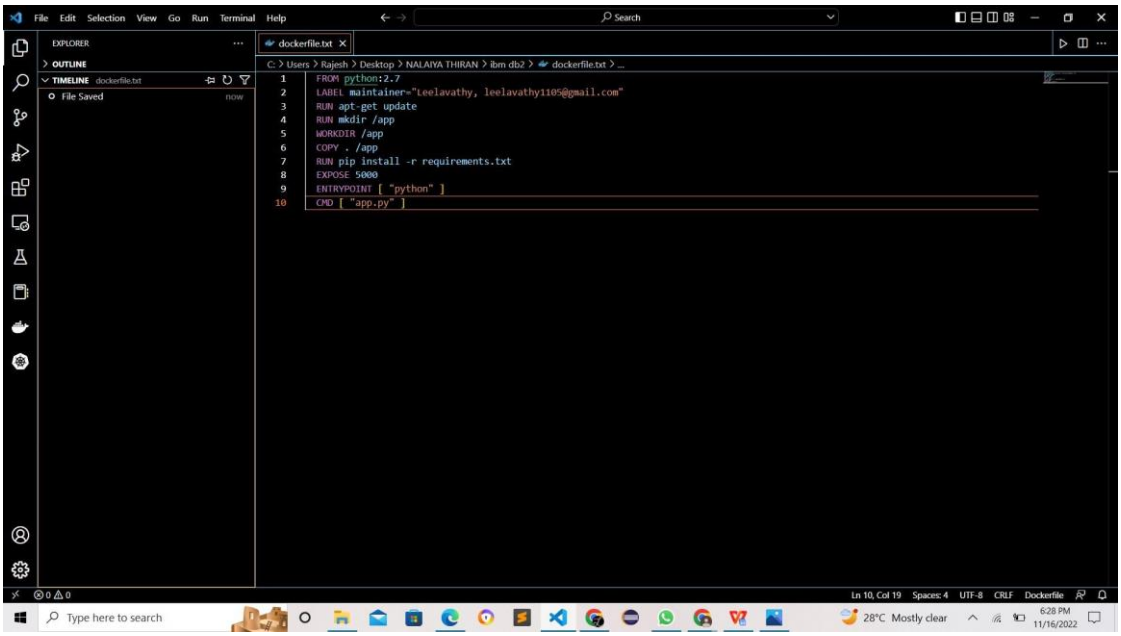


STEP 8: Click on the **Worker Nodes** tab to note the cluster's Public IP.



CONTAINERIZE YOUR FLASK APPLICATION





BUILD AN IMAGE FROM THE DOCKERFILE

Open the terminal and type this command to build an image from your Dockerfile: docker build -t <image_name>:<tag> . (note the period to indicate we're in our apps top level directory). For example: docker build -t app:latest .

After you build your image succesfully, type: docker run -d -p 5000:5000 app

This command will create a container that contains all the application code and dependencies from the image and runs it locally.