Ganpat University
॥ विद्यया समाजोत्कर्षः ॥
Institute of Computer Technology

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Sub: EADC (Enterprise Application Development for Cloud)

Branch: CBA

Batch:61

----------PRACTICAL 09----------

❖ Question :

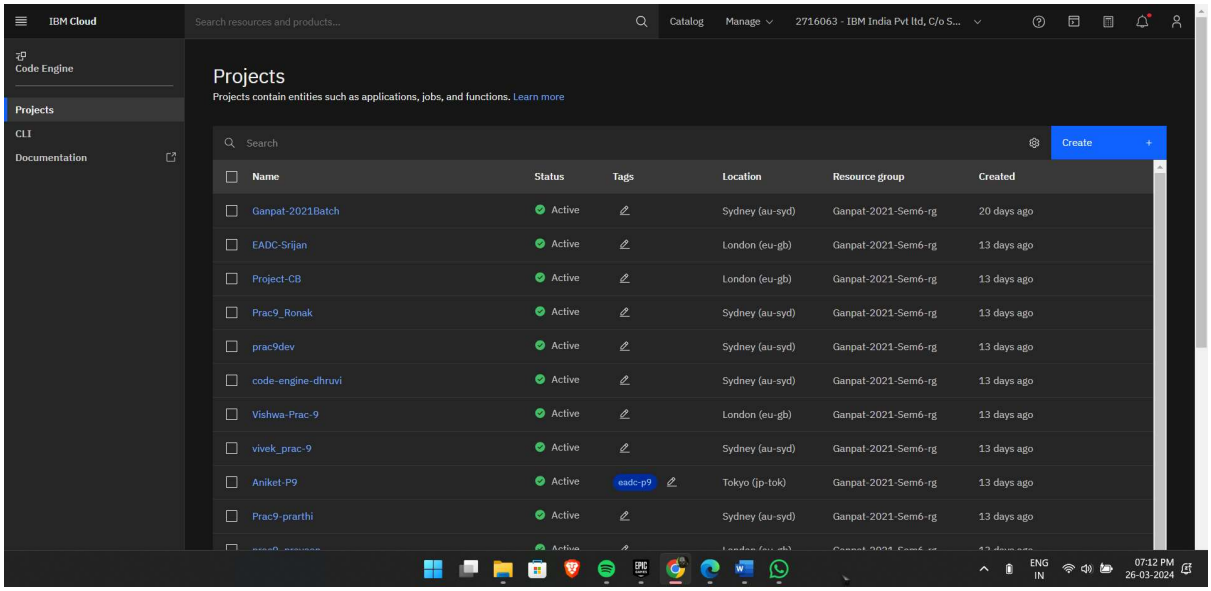
You have arequirement for deploying an existing Python based application to IBM Cloud.There is a need for automatic scaling for the underlying environment. Implement the IBM Cloud service and resource used to deploy this environment in the quickest way possible.

Go through the scenario of development and
deployment and perform the following tasks:

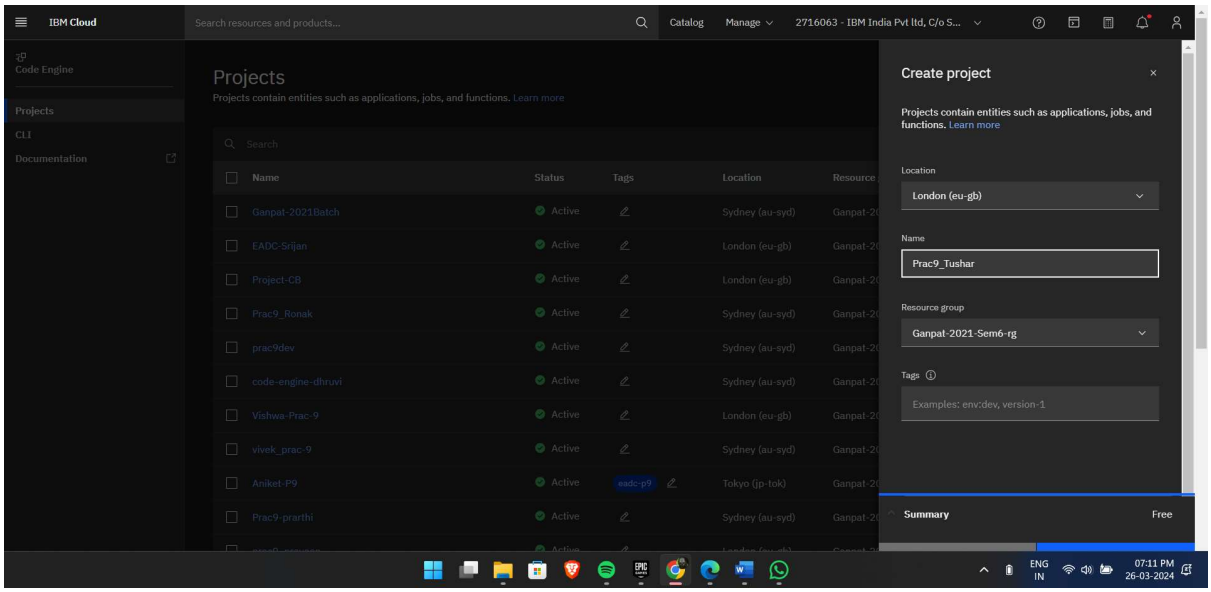
1. Developing Python flask application and upload it on github for version management
2. Deploying the application through the IBM Cloud Code engine dashboard.
3. Explore the Autoscaling policies for your application and set the required policies
4. Deploy Node js application on Code engine using Cloud Native Builpacks.

TASK:
Deploy your portfolio Project or Practical-1 of EADC on Code-Engin

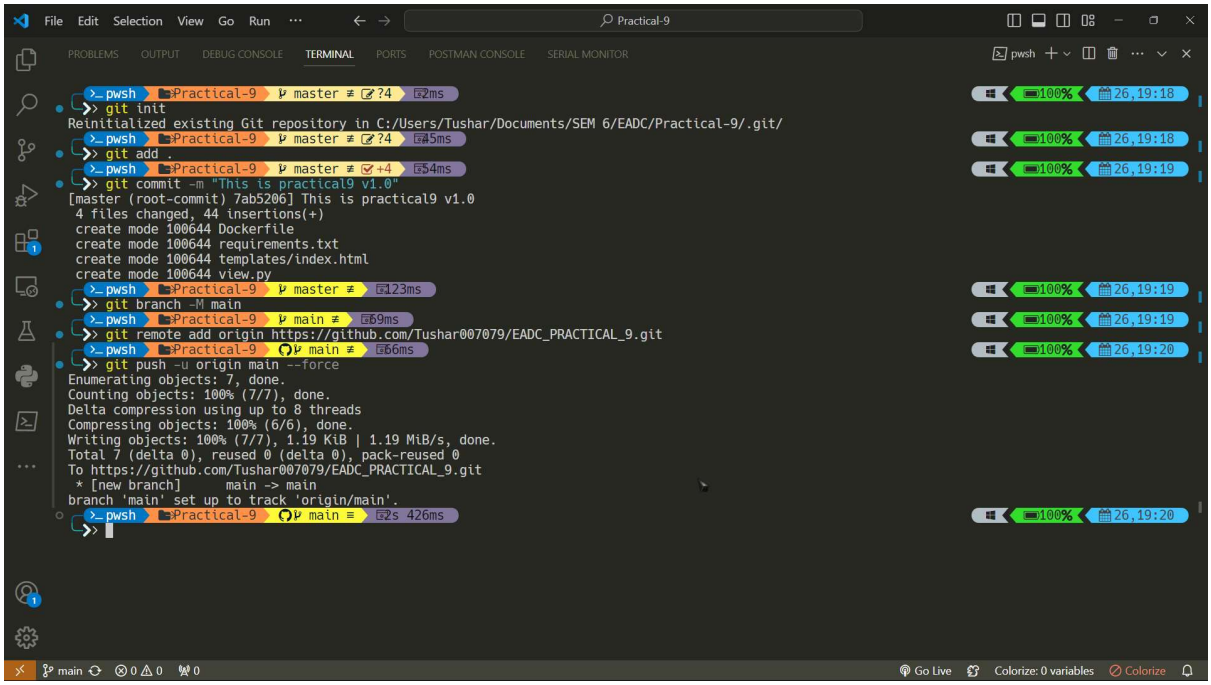
- I Logged into the IBM cloud and searched for the codeEngine service, and after that went into the ganpat batch61.

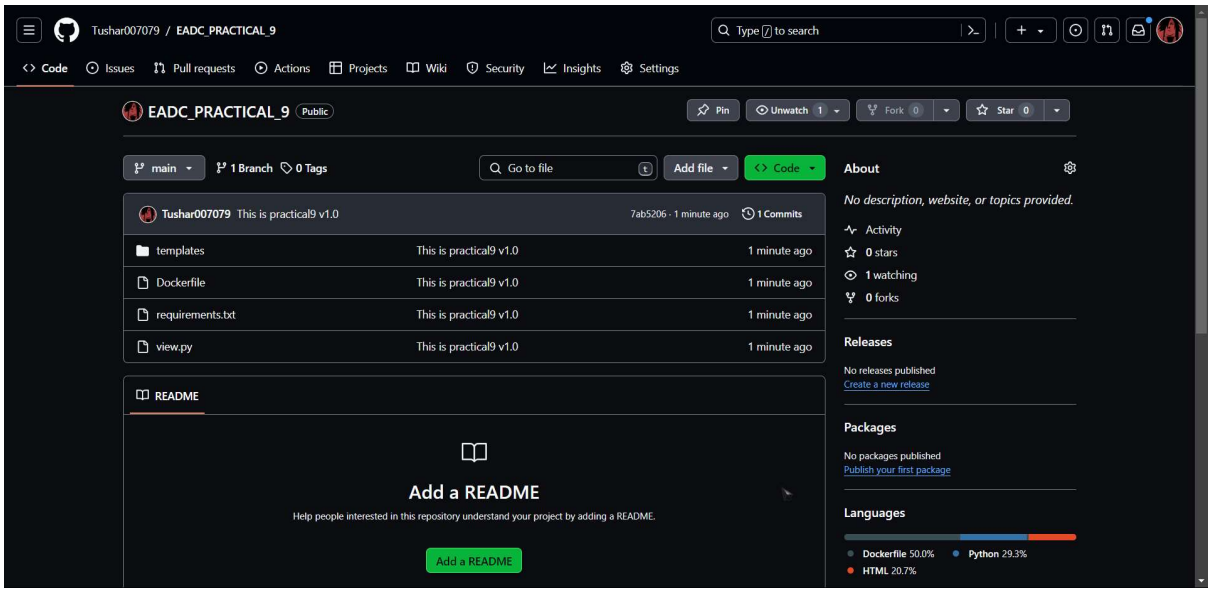


- Now creating a new application.

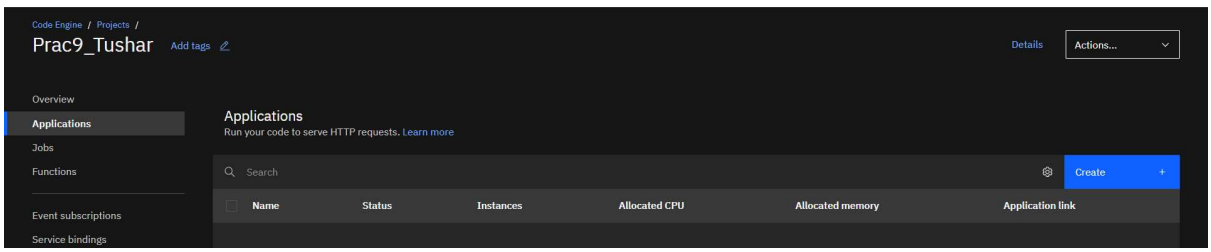


- Then I downloaded the flask files uploaded by the faculty.
- Created the repository from the terminal and initialized and pushed all the files from the terminal.



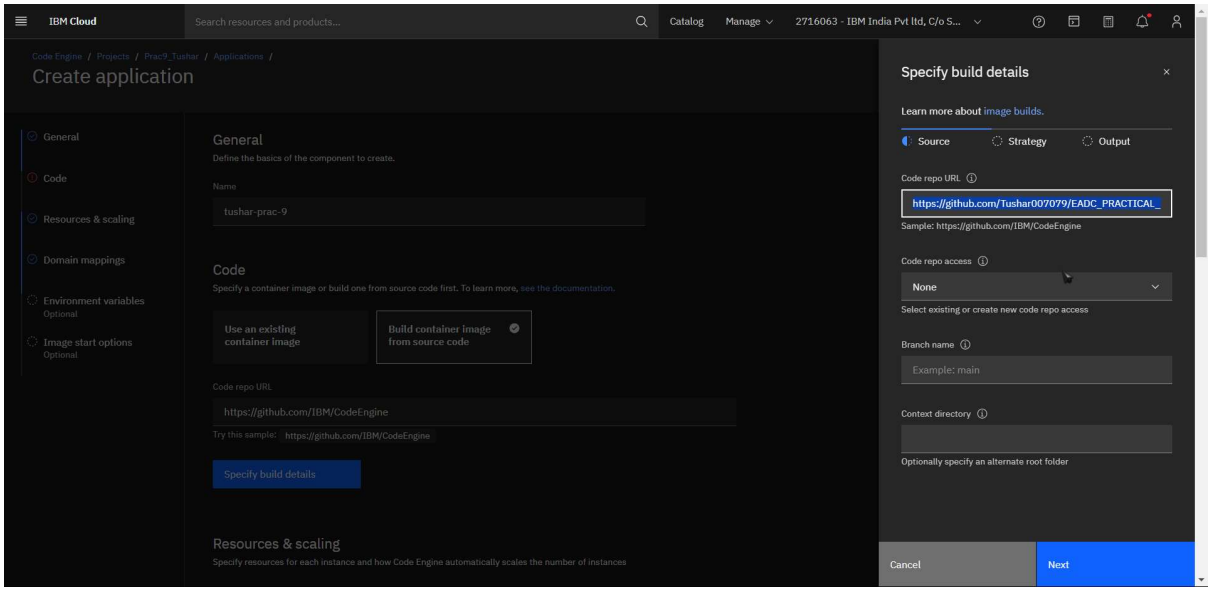


» Now in that project we have create a new application.

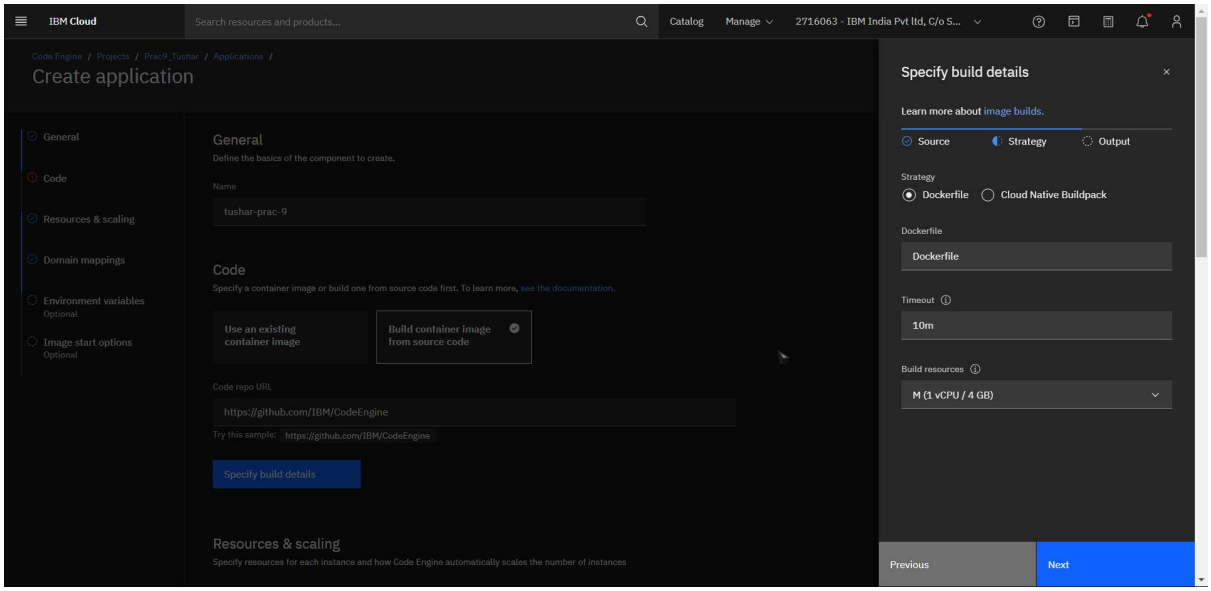


- Name it and select build container image from source and don't do any changes in other things

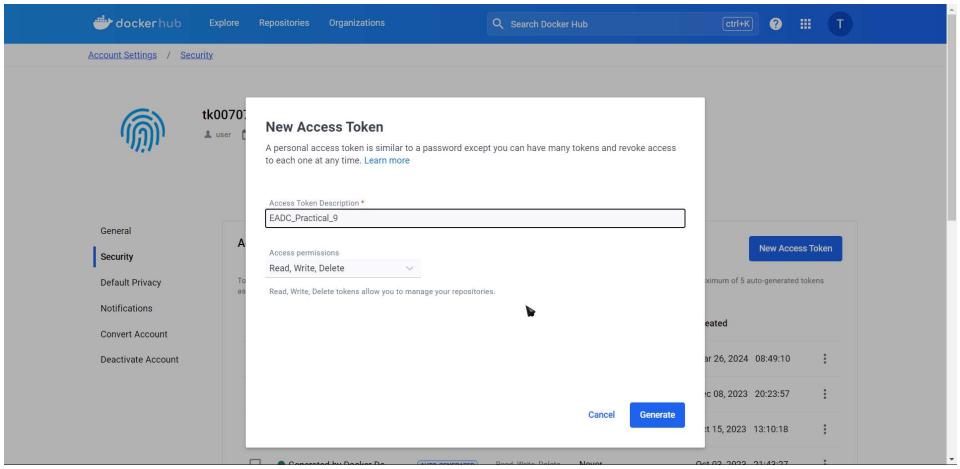
Now hit specify build details in that provide your github repo url



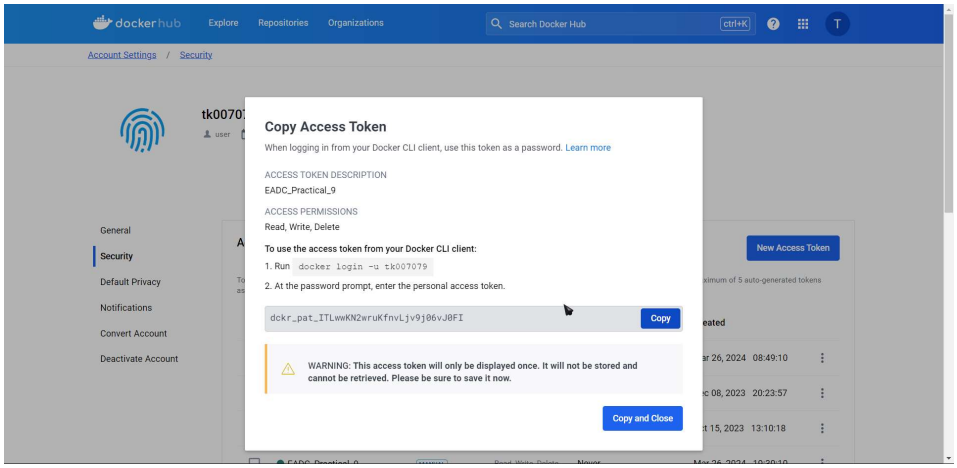
In strategy select dockerfile



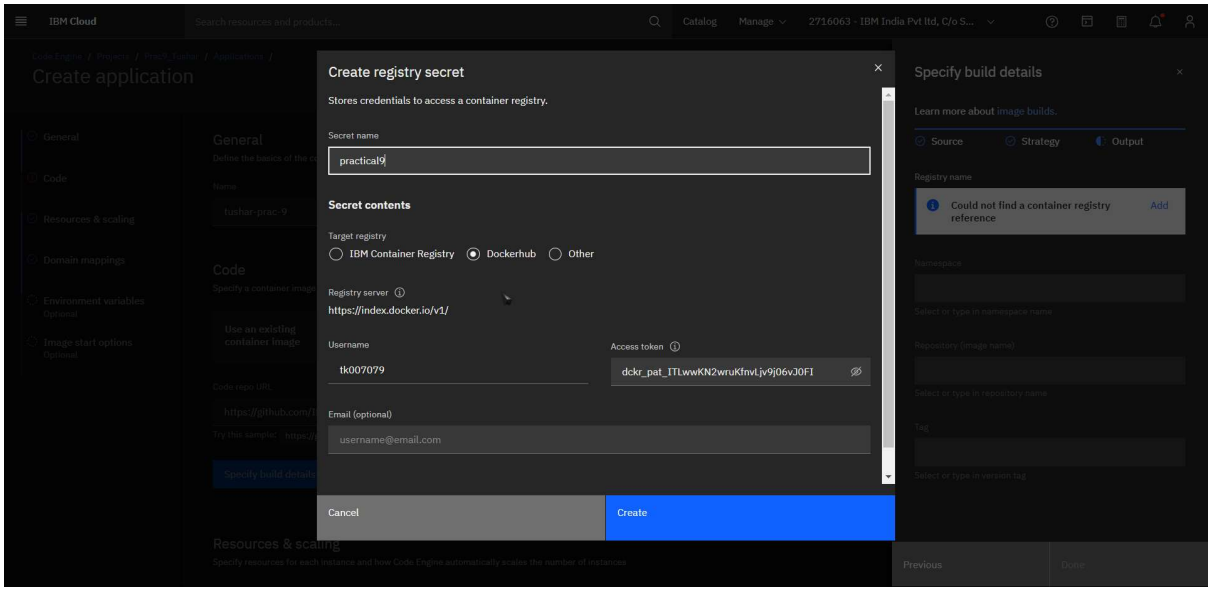
- Now log in to dockehub and get access token to create registry container for output
- In dockerhub click on your profile and enter into my account then in security section create new access token:



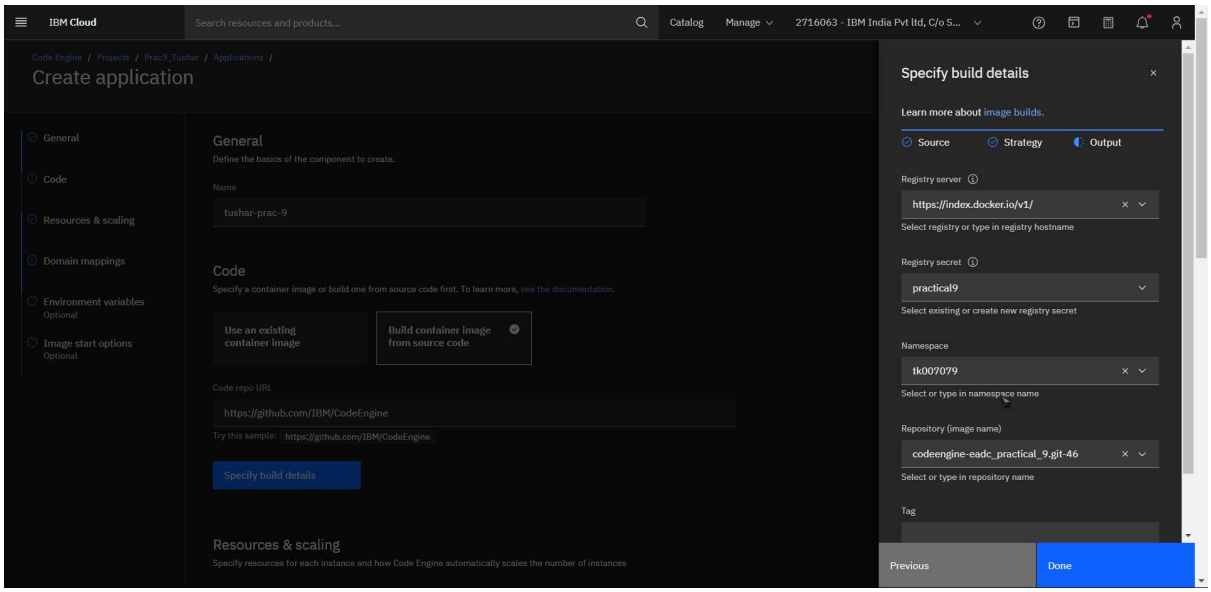
» Then copy that access token



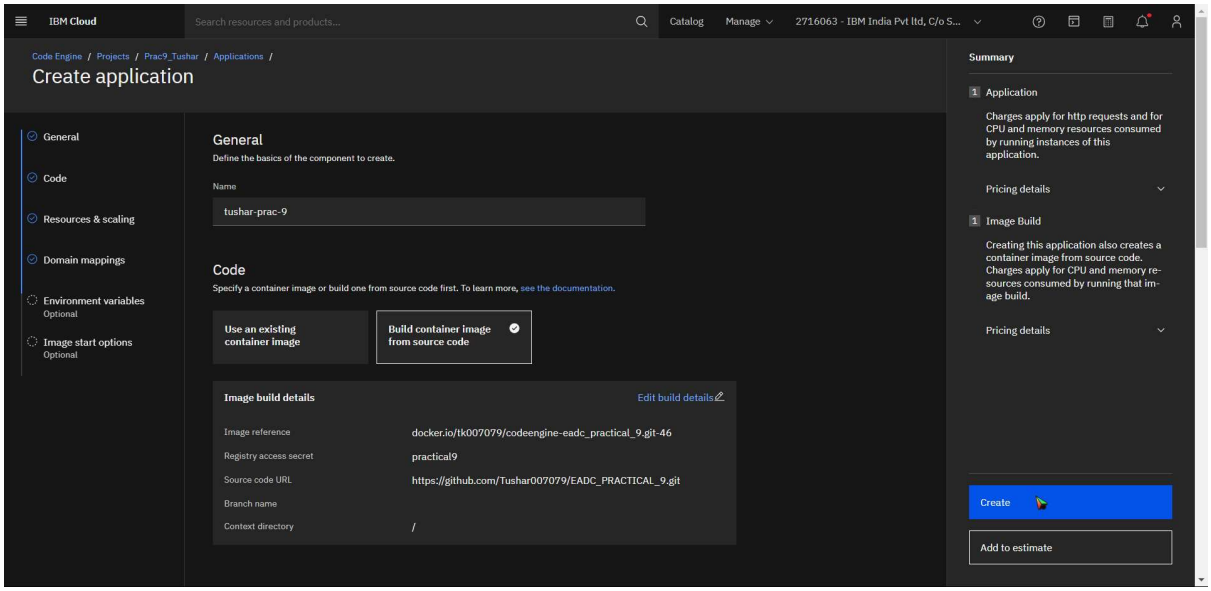
» Then in target registry select dockehub and provide that access token and your username of dockerhub



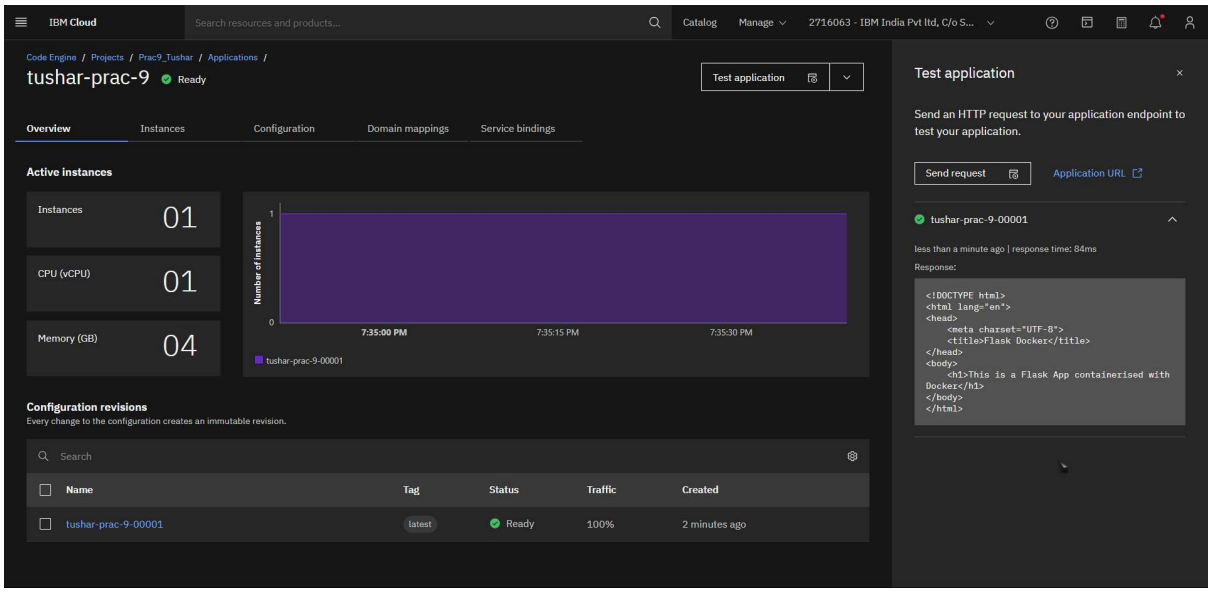
» That’s it now our registry secret has been added :



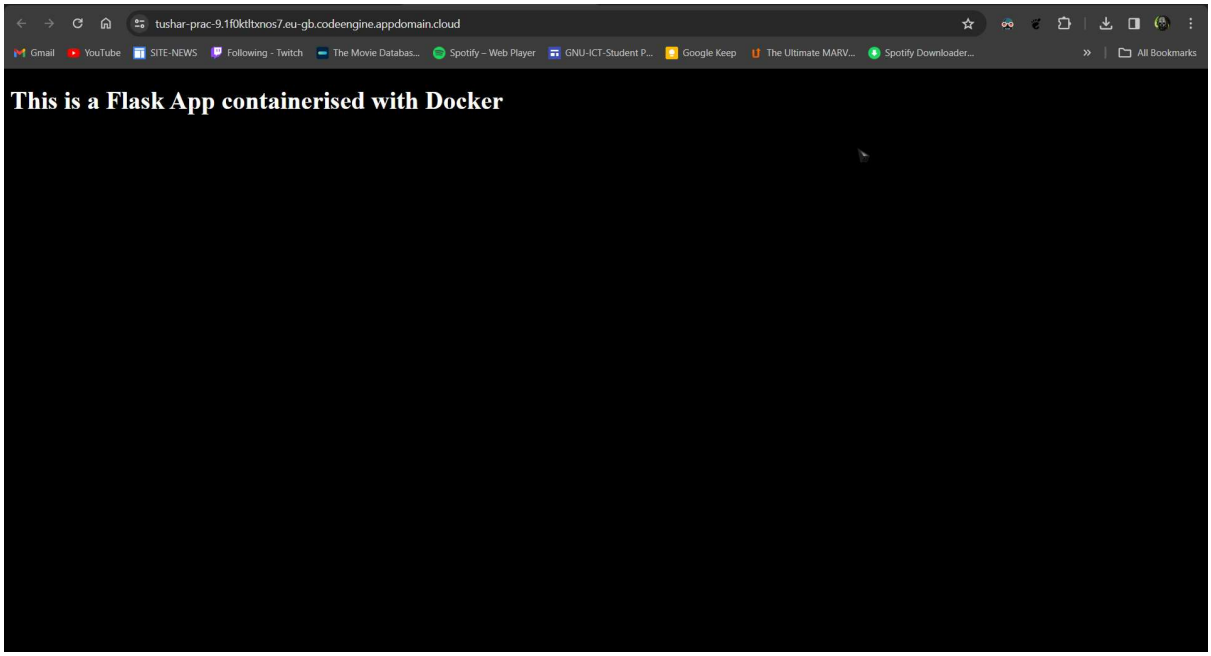
» Now hit create to create application:



- Now test application & send request then access application url:

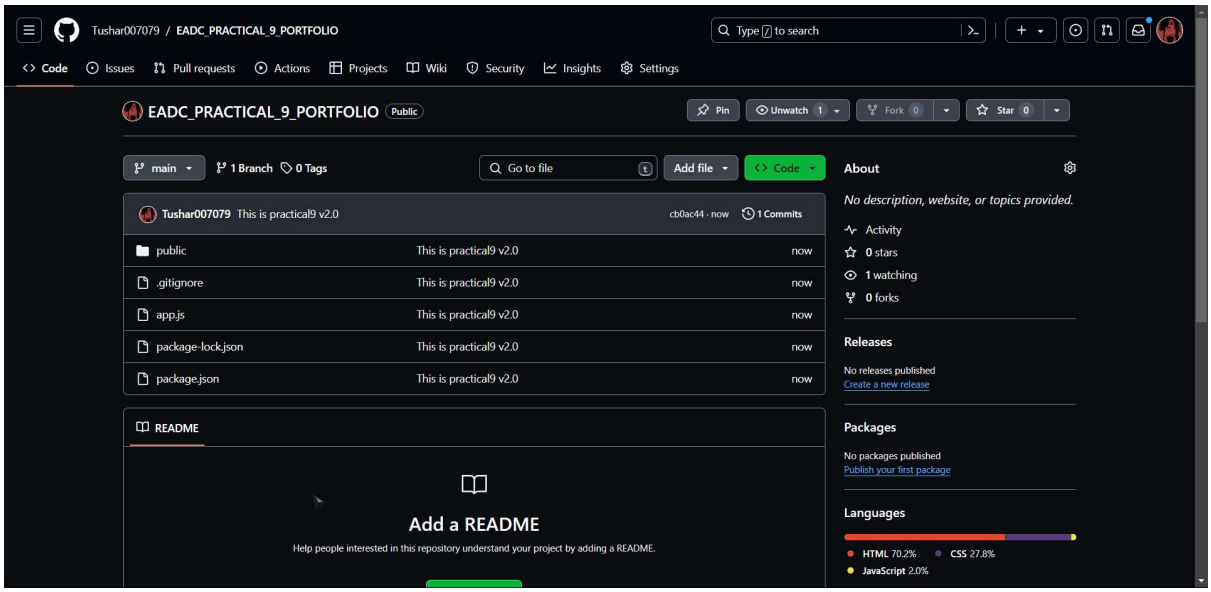


- As you can see our application url is working :

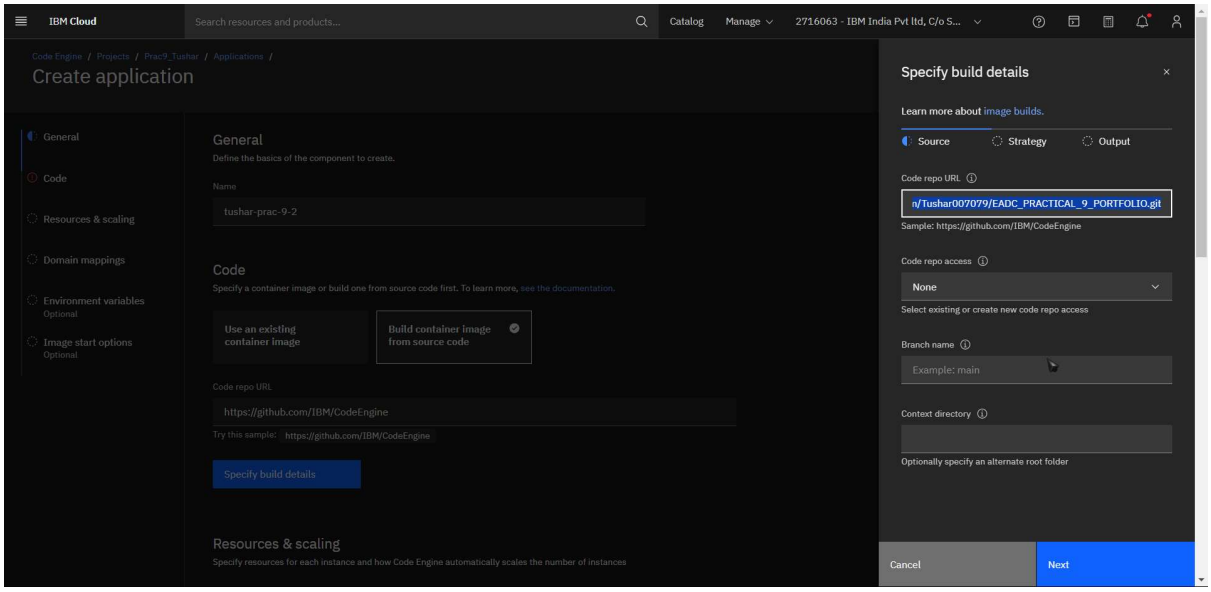


- That's it this is application deployed using dockefile.
- Now we have to deploy an application using cloud native

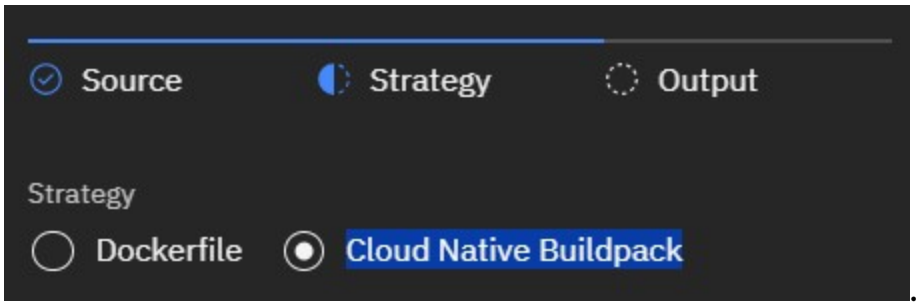
» This is my github repository that I'm using for this deployment:



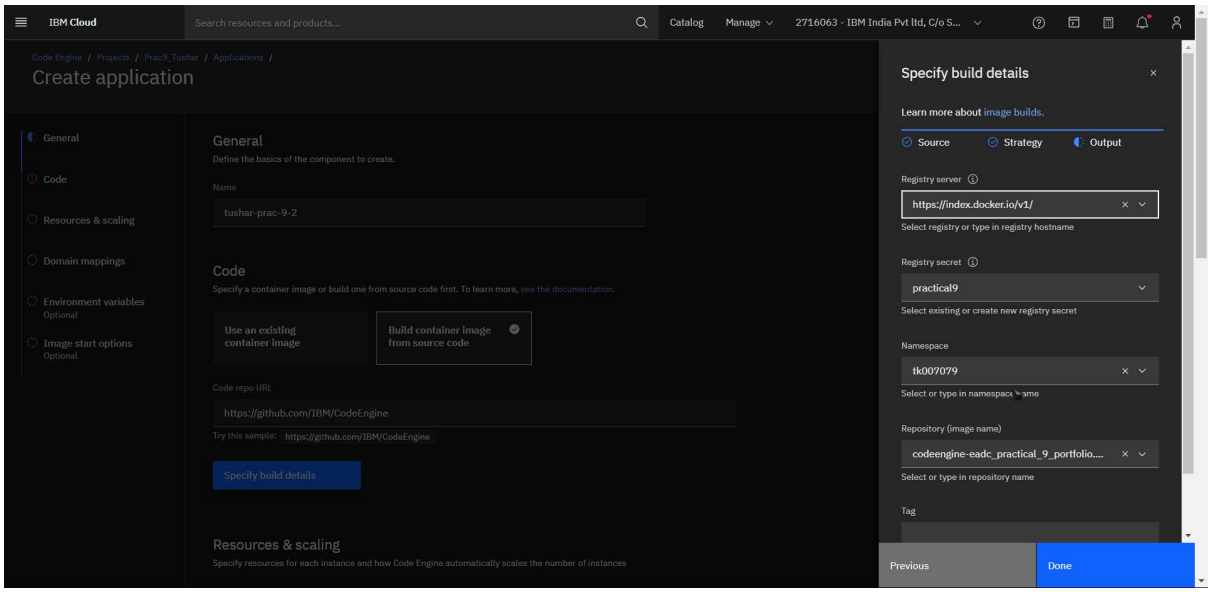
» now create a new application for this provide your github url :



» Then in strategy select Cloud Native Buildpack:



- In output don't do any changes we will use previously created:



- Then simply create application and test it and access url of it.
- Here this is my portfolio deployed using cloud native buildpack: