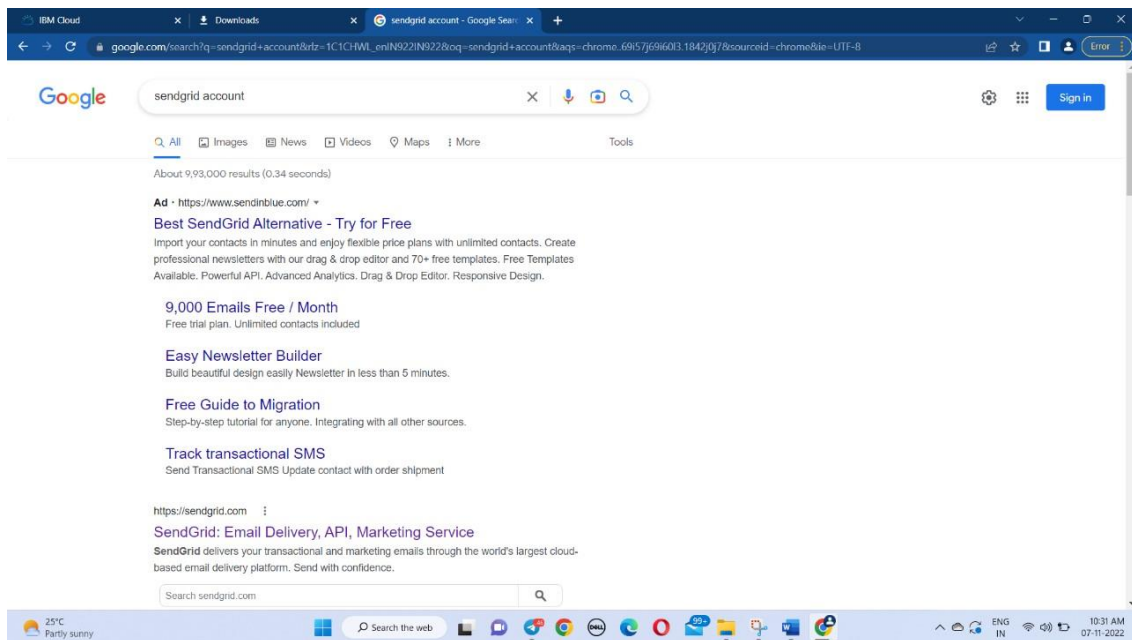


SETTING UP APPLICATION ENVIRONMENT

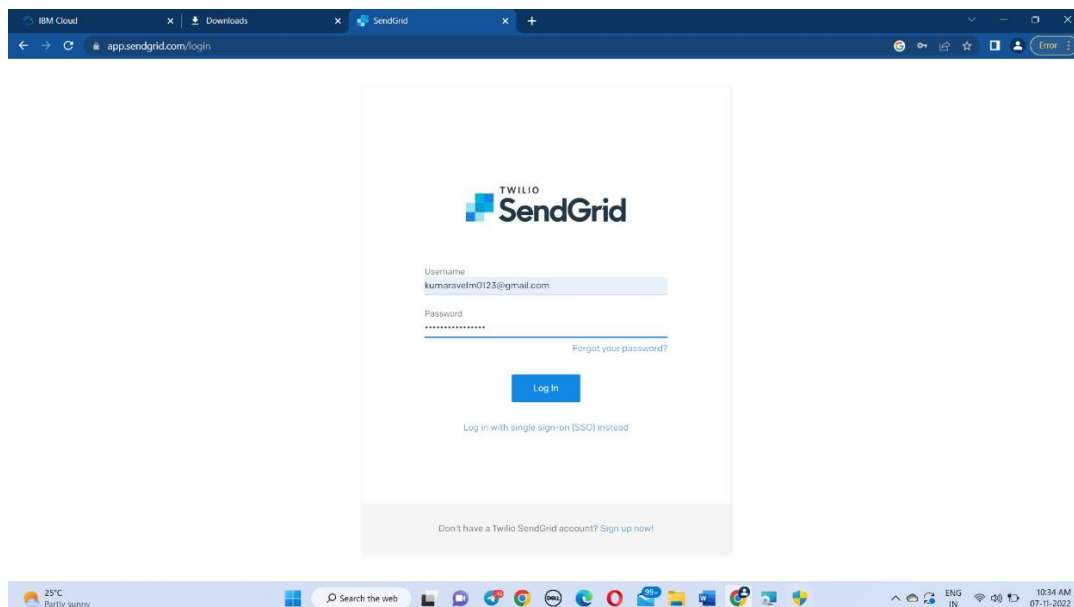
Date	07 NOVEMBER 2022
Team ID	PNT2022TMID40132
Project Name	News Tracker Application
Maximum Marks	4 Marks

1. SENDGRID ACCOUNT CREATION:

Step1: Search for the sendgrid <https://sendgrid.com/>



Step 2: Registering new account

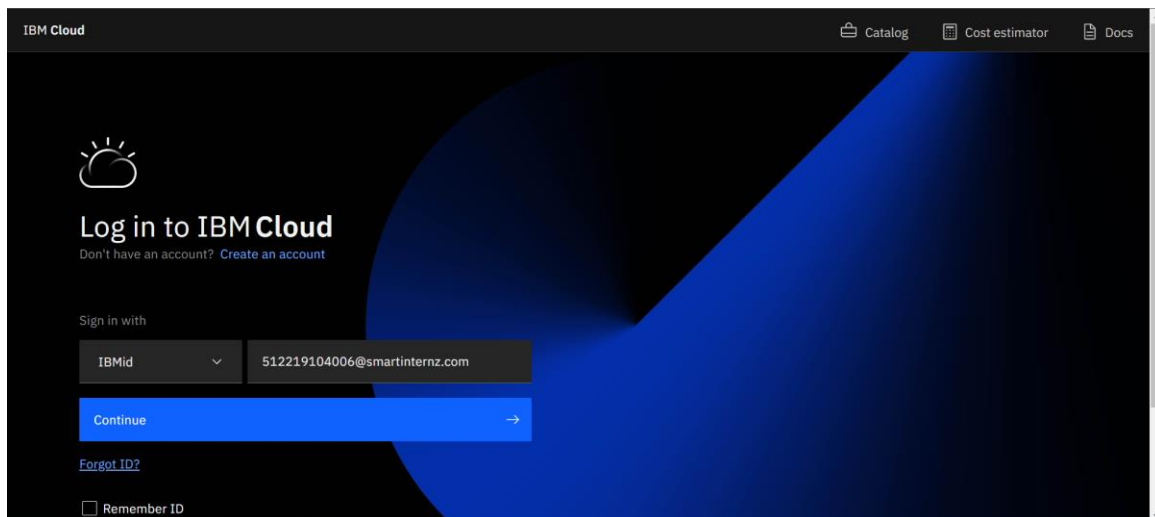


Step 3: Sendgrid account created

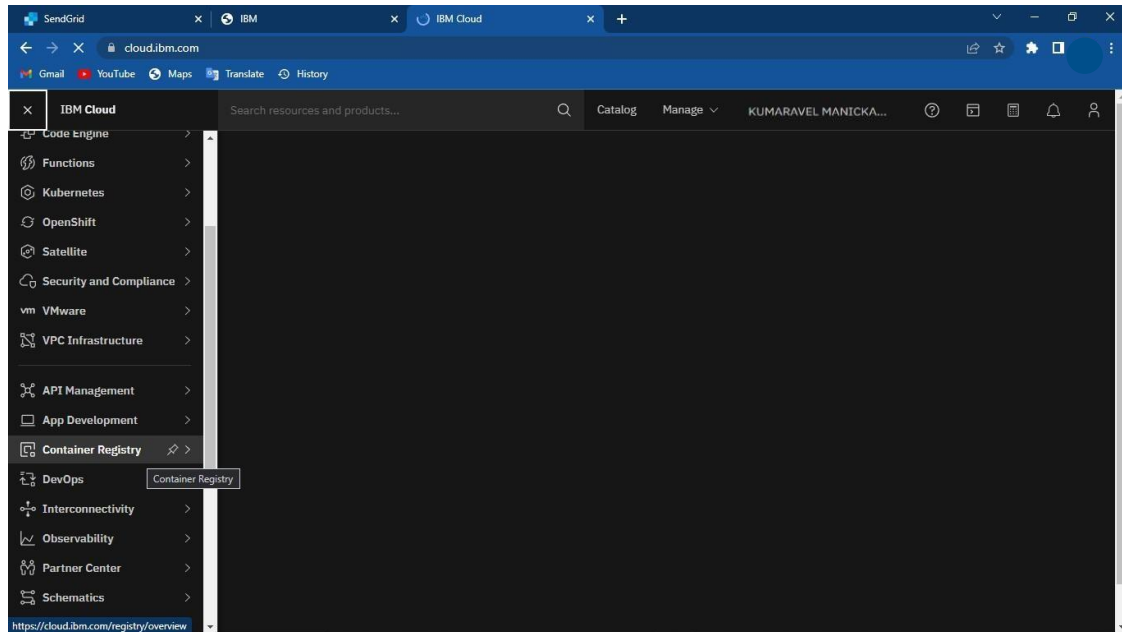
2. IBM CLOUD CLI

INSTALLATION:

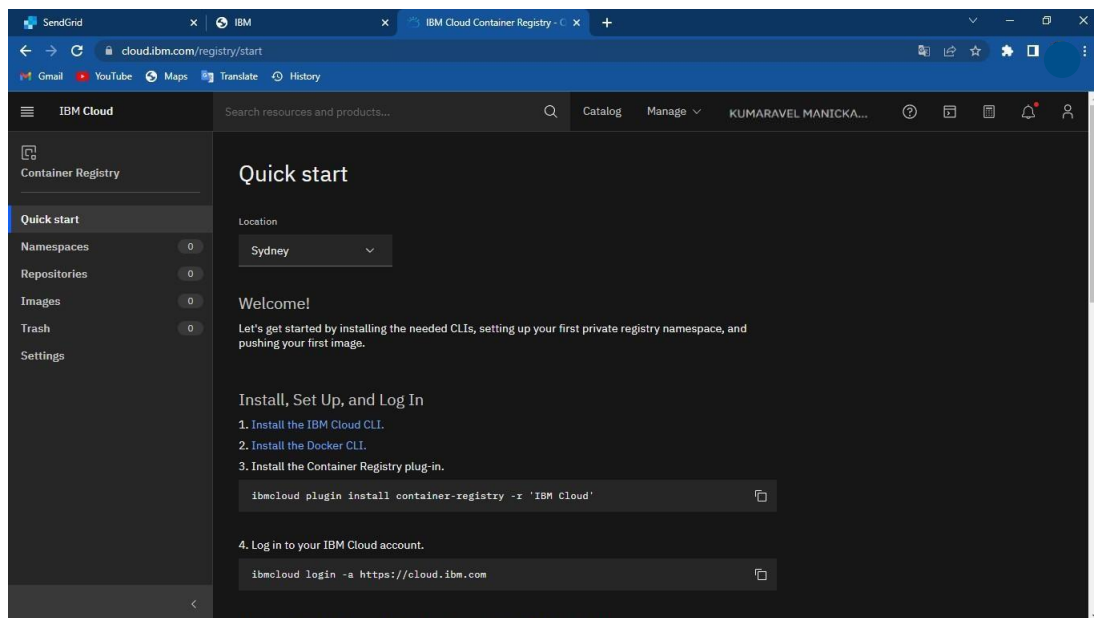
Step 1: Log into the IBM cloud



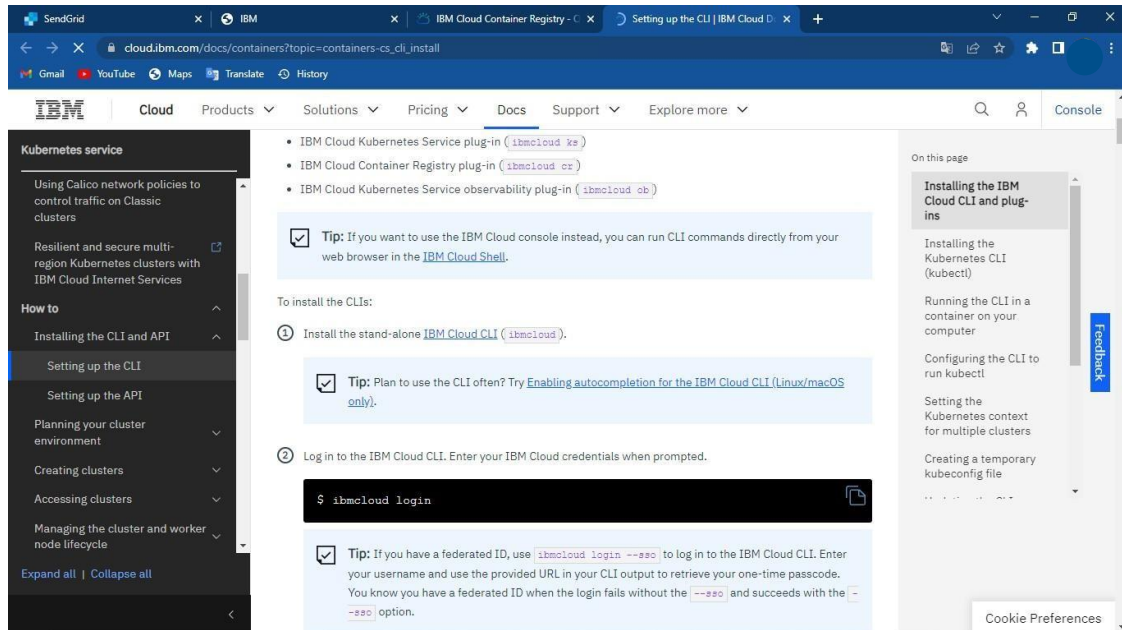
Step 2: Select container registry



Step 3: Select Quickstart to open container registry and click on install IBM Cloud CLI

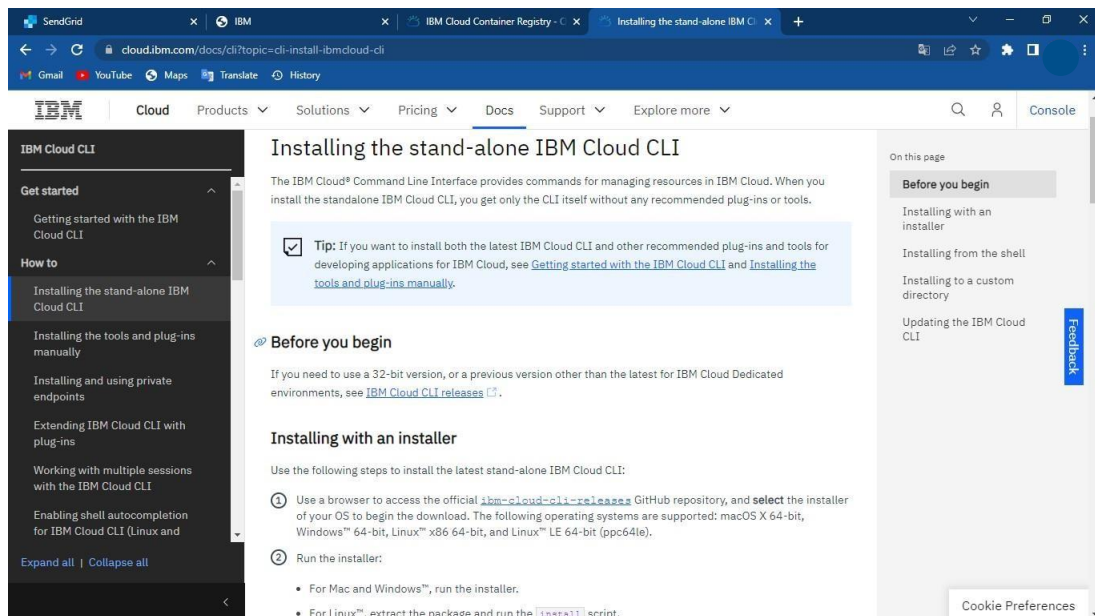


Step 4: Click on IBM Cloud CLI



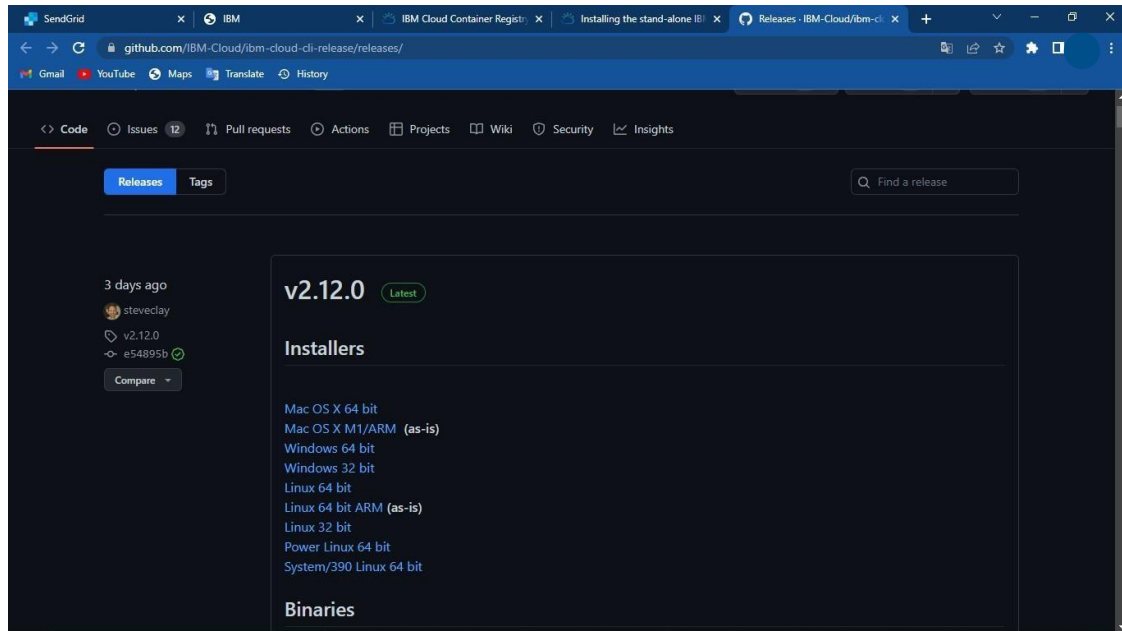
This screenshot shows the IBM Cloud CLI installation page. The left sidebar contains a 'Kubernetes service' section with links to 'Installing the CLI and API' and 'Setting up the CLI'. The main content area is titled 'Setting up the CLI' and includes a list of plug-ins: IBM Cloud Kubernetes Service plug-in, IBM Cloud Container Registry plug-in, and IBM Cloud Kubernetes Service observability plug-in. A tip suggests using the IBM Cloud console or CLI commands directly from a web browser in the IBM Cloud Shell. The steps for installation are: 1. Install the stand-alone IBM Cloud CLI, and 2. Log in to the IBM Cloud CLI. A code block shows the command `$ ibmcloud login`. A second tip explains how to use a federated ID with `ibmcloud login --sso`. The right sidebar has a 'Feedback' button and a 'Cookie Preferences' link.

Step 5: And then, Click on IBM Cloud CLI releases

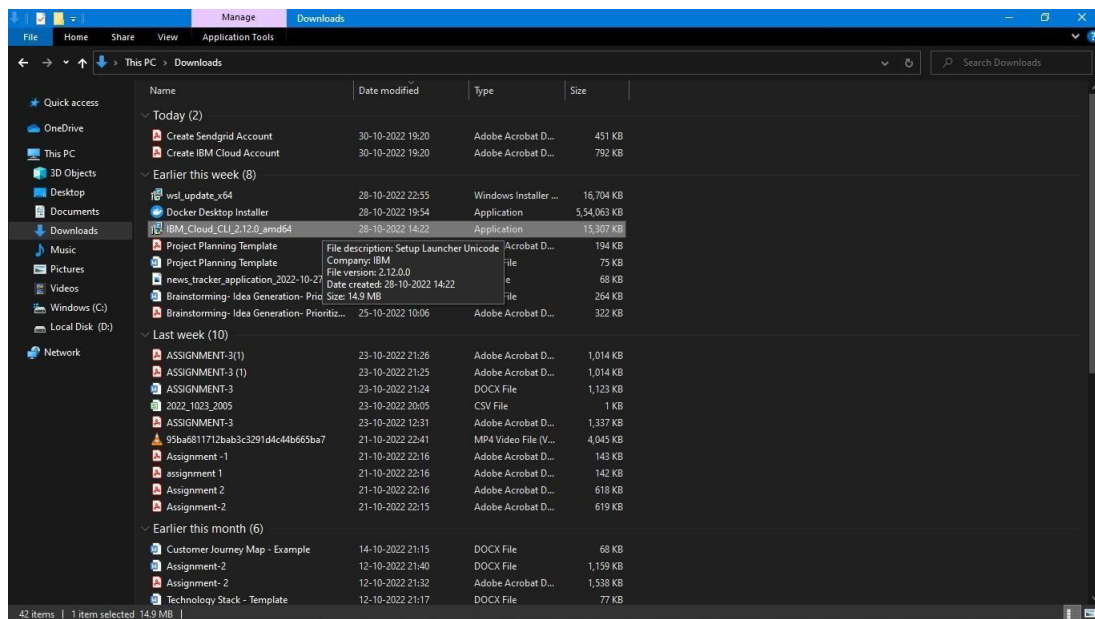


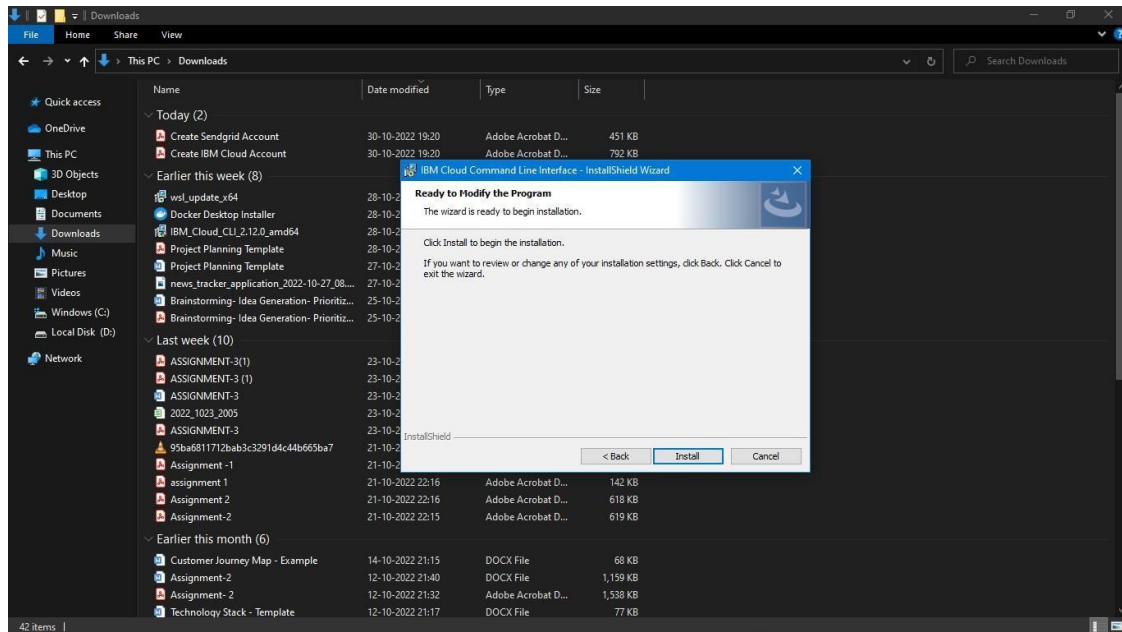
This screenshot shows the IBM Cloud CLI releases page. The left sidebar contains a 'Get started' section with links to 'Installing the stand-alone IBM Cloud CLI' and 'Installing the tools and plug-ins manually'. The main content area is titled 'Installing the stand-alone IBM Cloud CLI' and includes a tip about installing both the CLI and other recommended plug-ins and tools for developing applications. The 'Before you begin' section states that if you need to use a 32-bit version or a previous version, you should see the IBM Cloud CLI releases. The 'Installing with an installer' section provides steps for installation: 1. Use a browser to access the official IBM Cloud CLI releases GitHub repository, and 2. Run the installer. The steps for the installer are: For Mac and Windows, run the installer; for Linux, extract the package and run the `install` script. The right sidebar has a 'Feedback' button and a 'Cookie Preferences' link.

Step 6: After that, the github page will open and download the IBM CLI installer by selecting as per your system required installer.



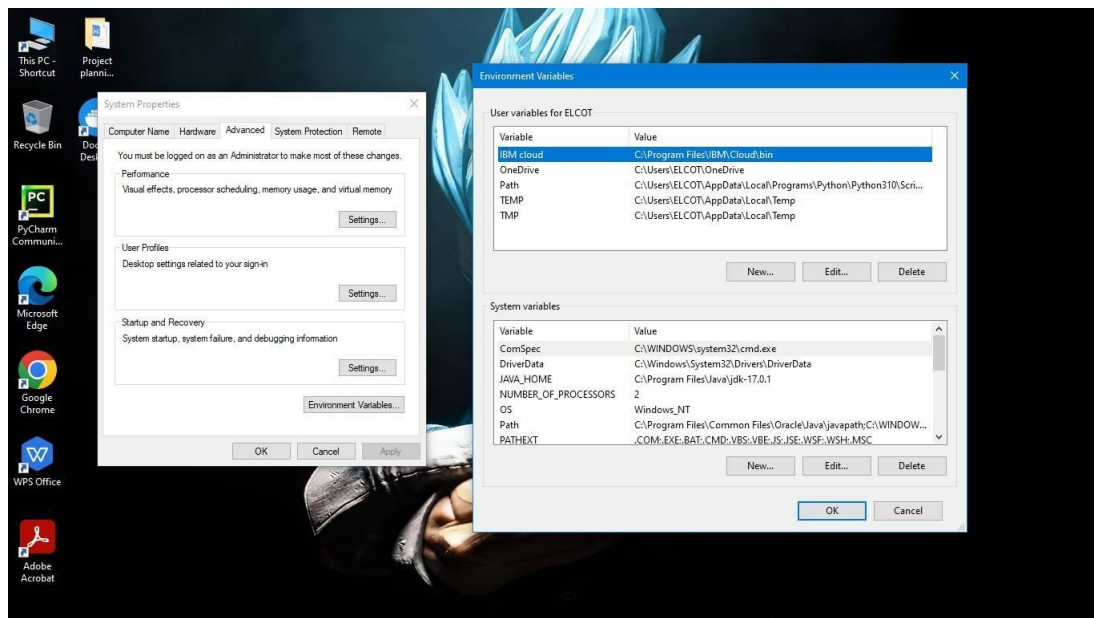
Step 7: After the download, Click the downloaded setup to run the installer

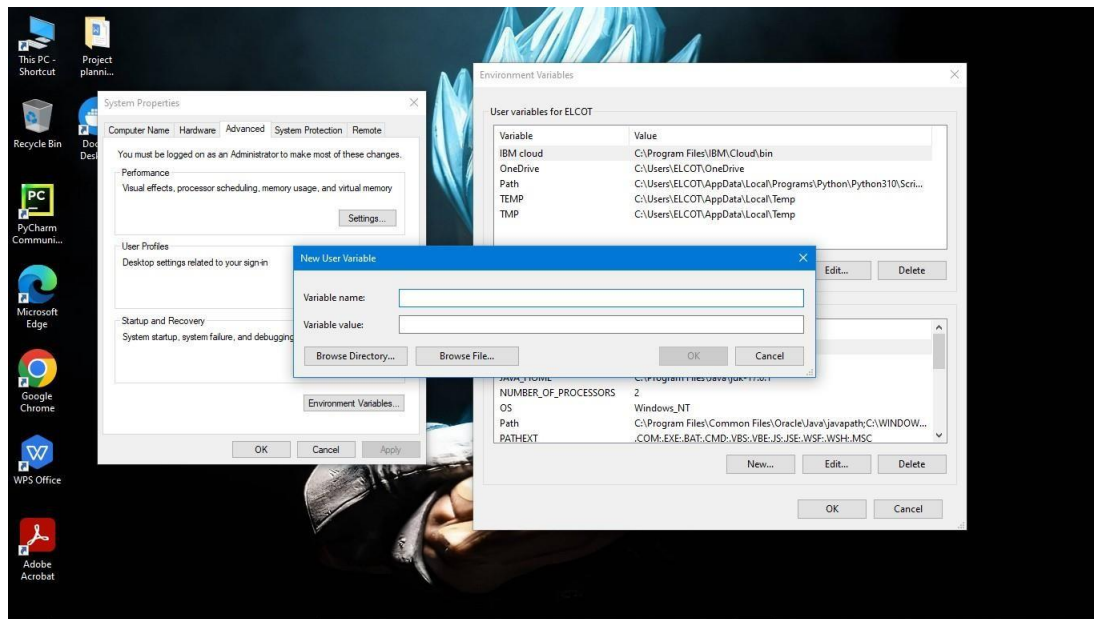




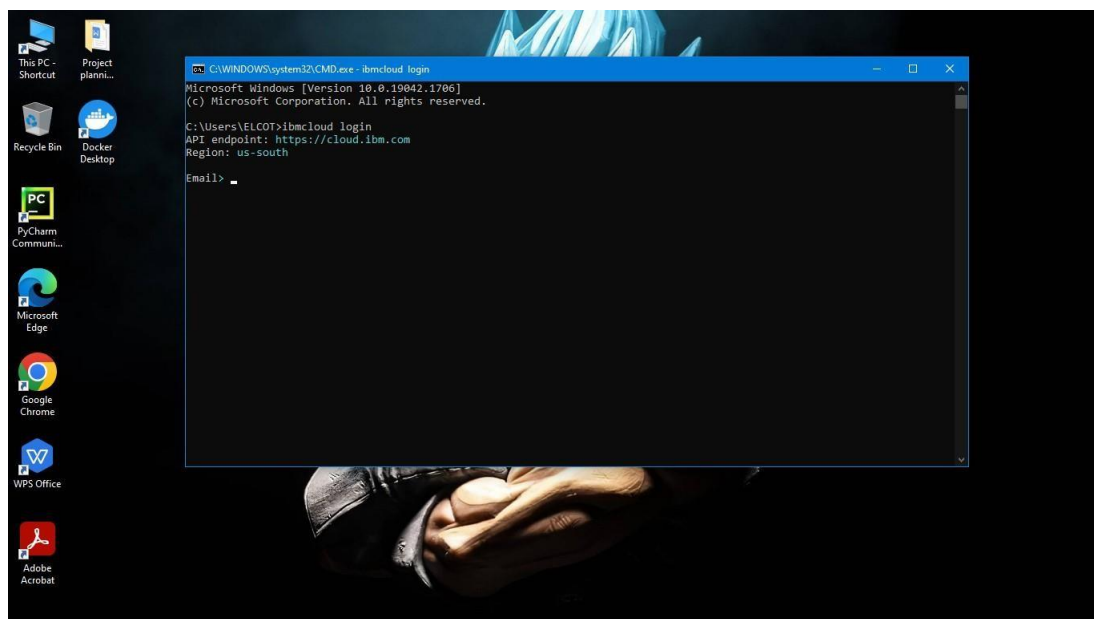
Step 8: After the installation set environment variable and then open CMD (Windows). Type this command to login in IBM cloud

“ibmcloud login”

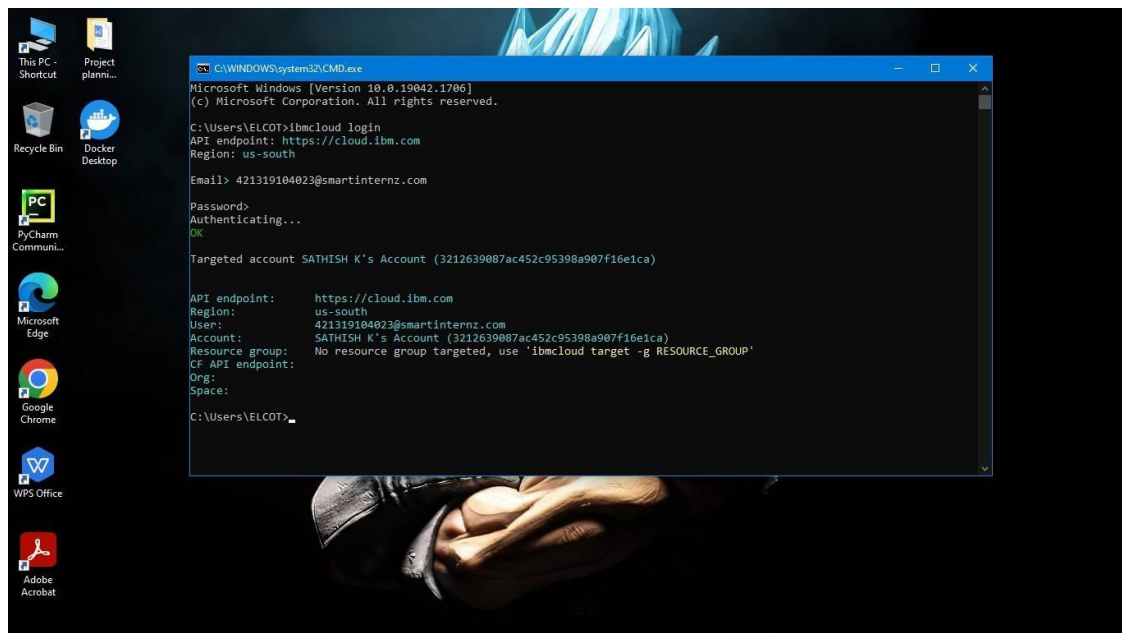




In the variable name, name it as “IBM Cloud” and in variable value the path location of the IBM.



Step 9: Enter your IBM cloud email id and password, Then it will authenticate and signals “OK”. The number of regions will be displayed, select one of them for your targeted account.



```
C:\WINDOWS\system32\CMD.exe
Microsoft Windows [Version 10.0.19042.1706]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ELCOT>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: us-south

Email> 421319104023@smartinternz.com

Password>
Authenticating...
OK

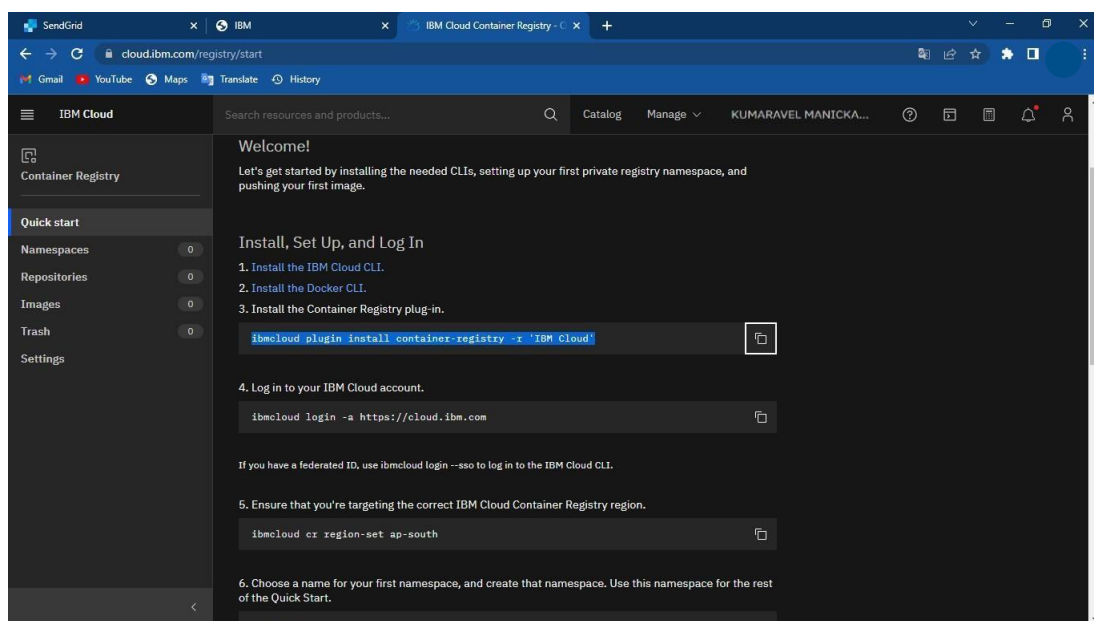
Targeted account SATHISH K's Account (3212639087ac452c95398a907f16e1ca)

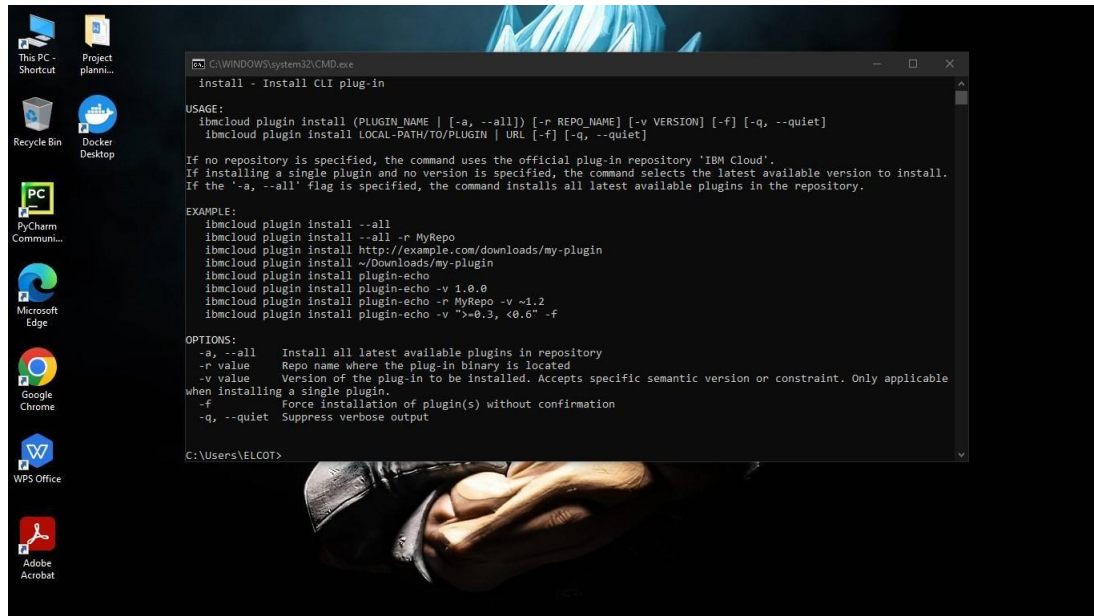
API endpoint: https://cloud.ibm.com
Region: us-south
User: 421319104023@smartinternz.com
Account: SATHISH K's Account (3212639087ac452c95398a907f16e1ca)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

C:\Users\ELCOT>
```

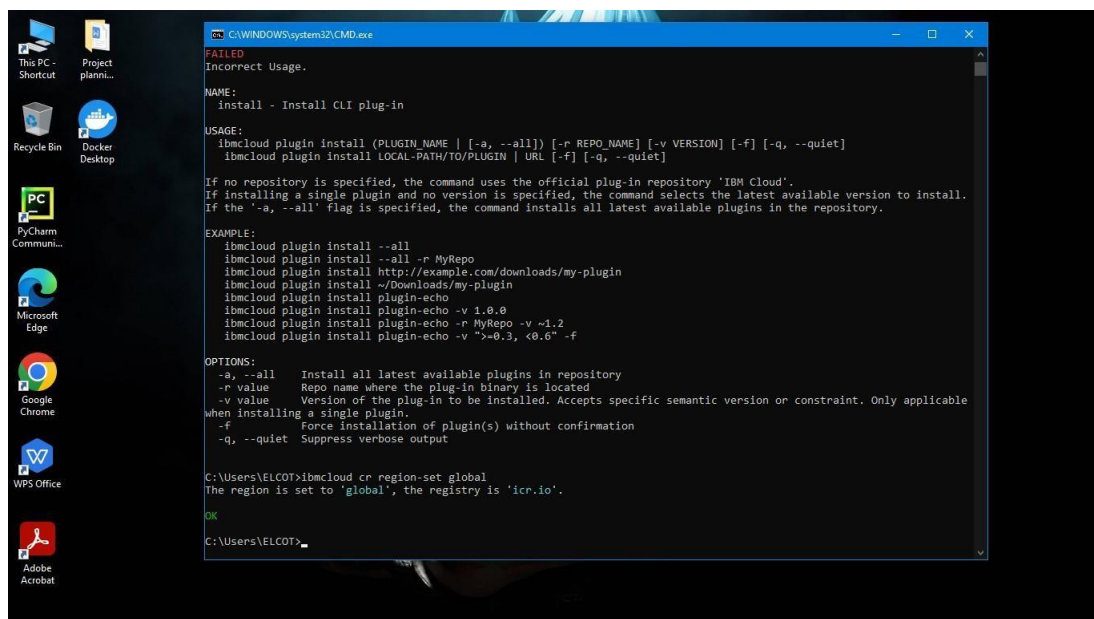
Step 10: Then copy the plugin command in your container registry (where the command displayed in your container registry which is opened on web browser) and paste and run it on cmd.

“ibmcloud plugin install container-registry -r”

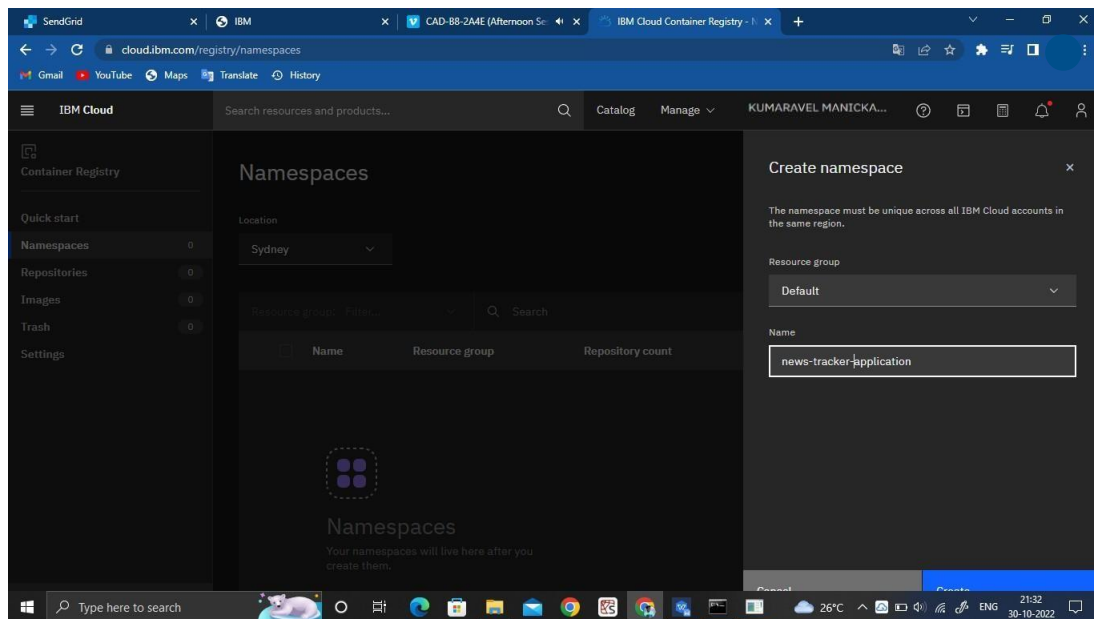




Step 11: Set your region to global .
“ibmcloud cr region-set global”

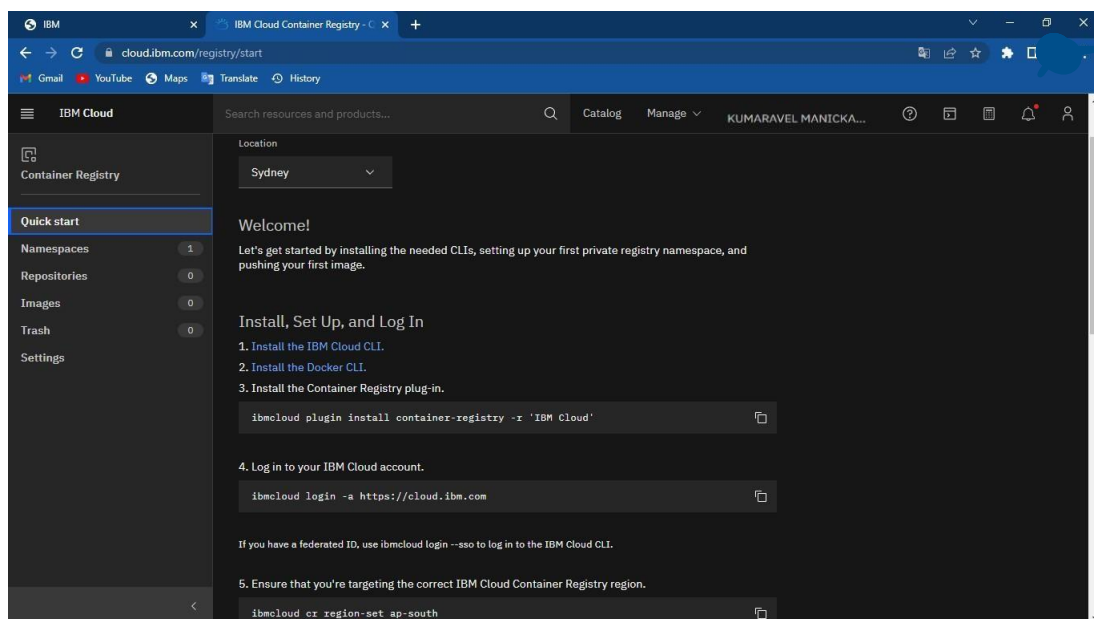


Step 12: Create namespace in your container registry

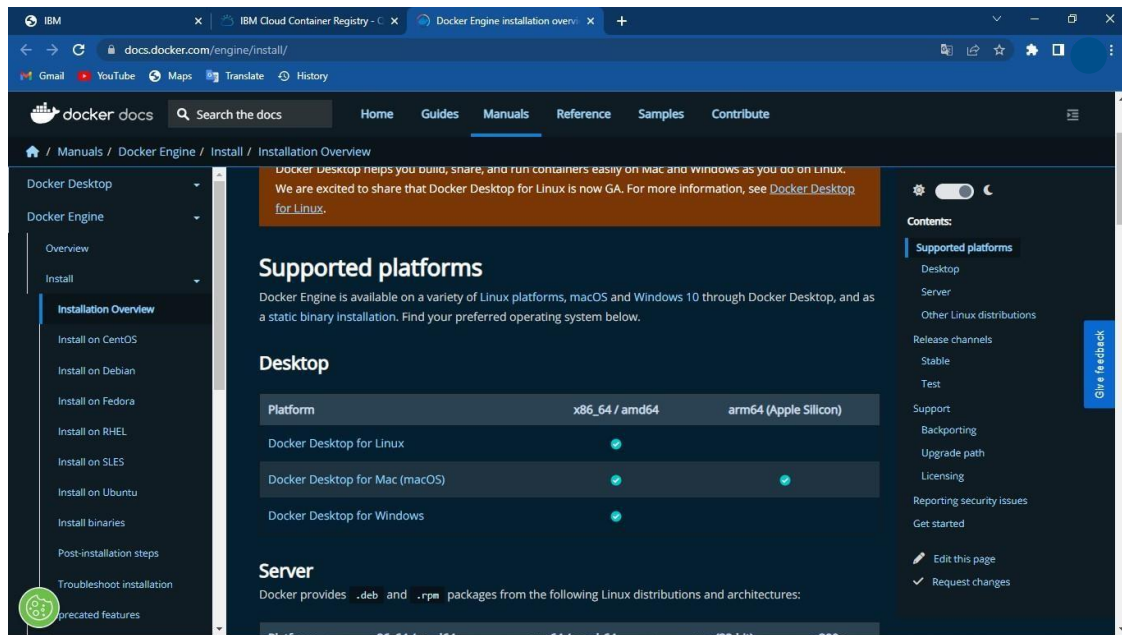


3. DOCKER CLI INSTALLATION:

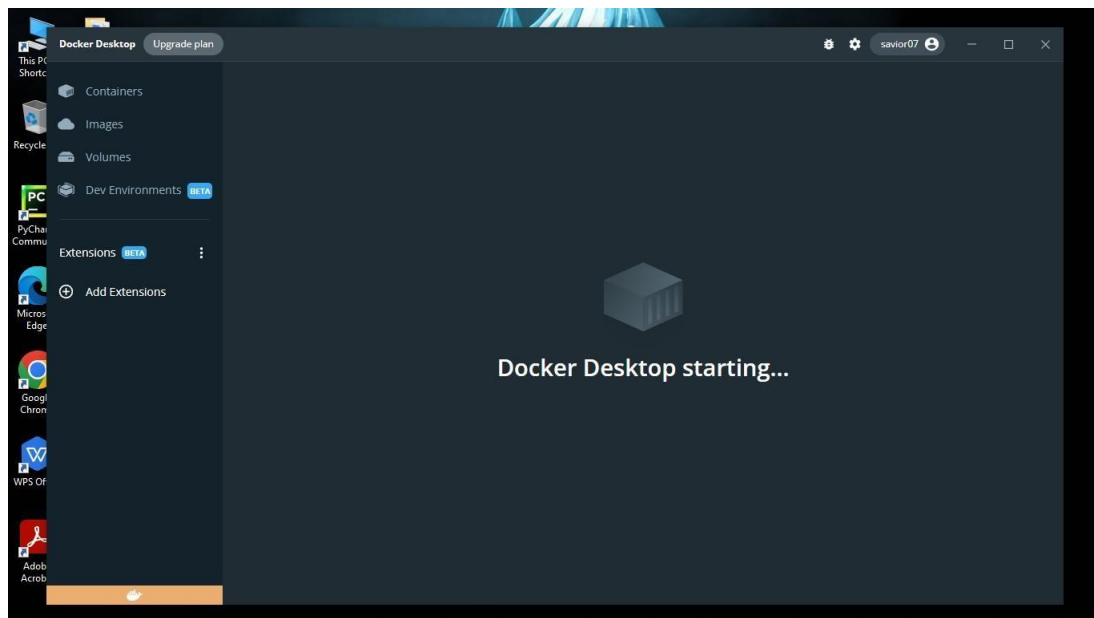
Step 1: Open container registry in IBM Cloud and click on Install Docker CLI.



Step 2: Then, Click on required installer for your specified system and download it.

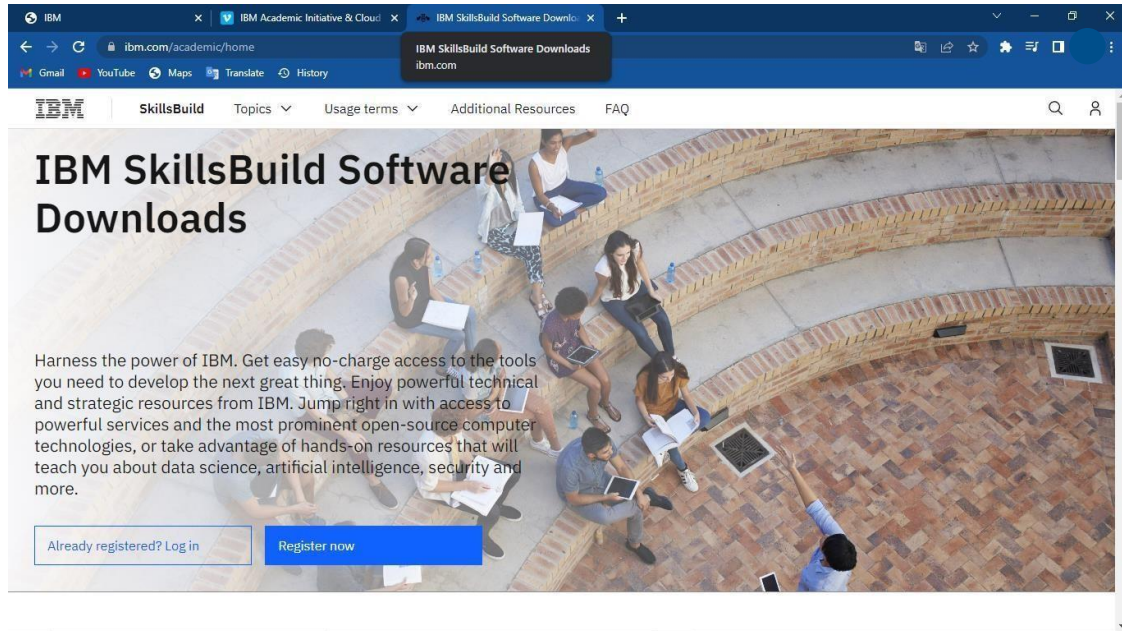


Step 3: After the setup download, run the setup and then open it and push the images, create the repository, etc....

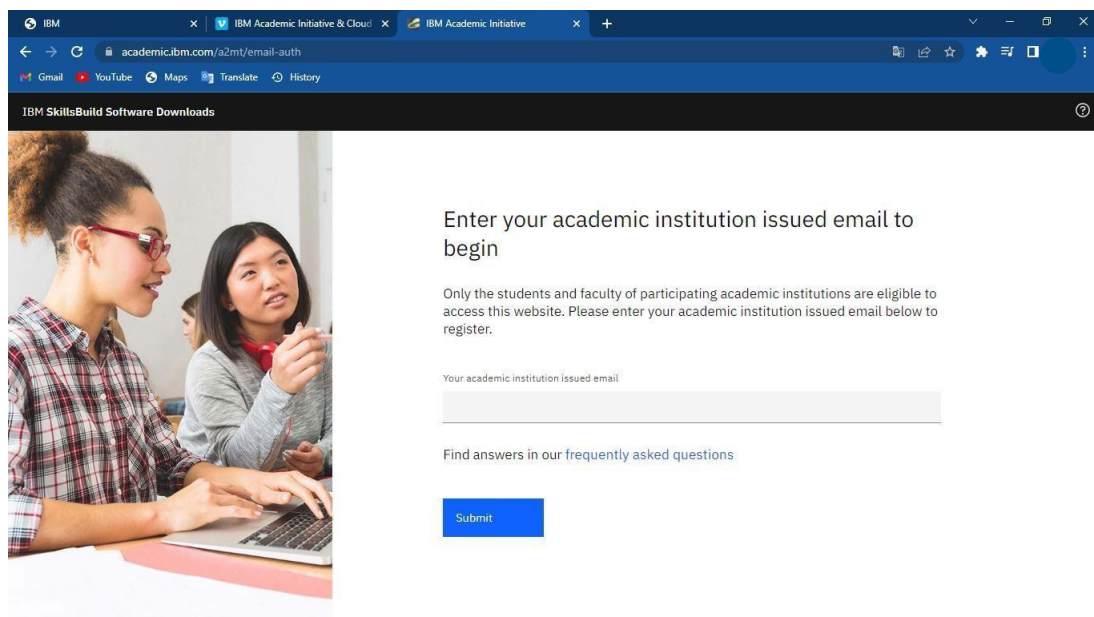


4. IBM CLOUD ACCOUNT CREATION:

Step 1: Search for “ibm.com/academic” in the browser



Step 2: Enter the mail issued by the academic institution and follow the procedure for entering the details which is provided as video link in your IBM profile.



Profile

Dashboard

Projects

Change Password

Support

Orientation Sessions

Training Calendar

Assignment & Quiz

Ask Me Anything Sessions

DURAI RAJ S

ROLLNO : 512219104006

EMAIL : rajskdurai@gmail.com

MOBILE NUMBER : 7397013206

GENDER : M

DATE OF BIRTH : 19-01-2001

DEGREE : Bachelor of Engineering/Technology

BRANCH : Computer Science Engineering

YEAR OF PASSING : 2023

COLLEGE : S.K.P. ENGINEERING COLLEGE

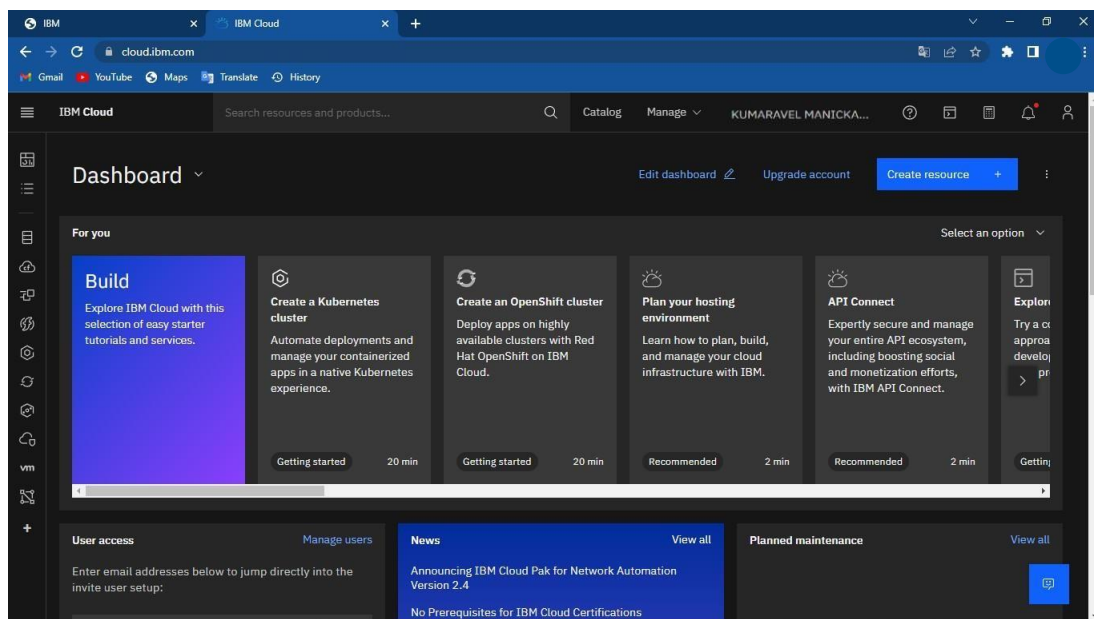
ALTERNATE EMAIL :

SI EMAIL : 512219104006@smartinternz.com

SI PASSWORD : PNTIBMDq43

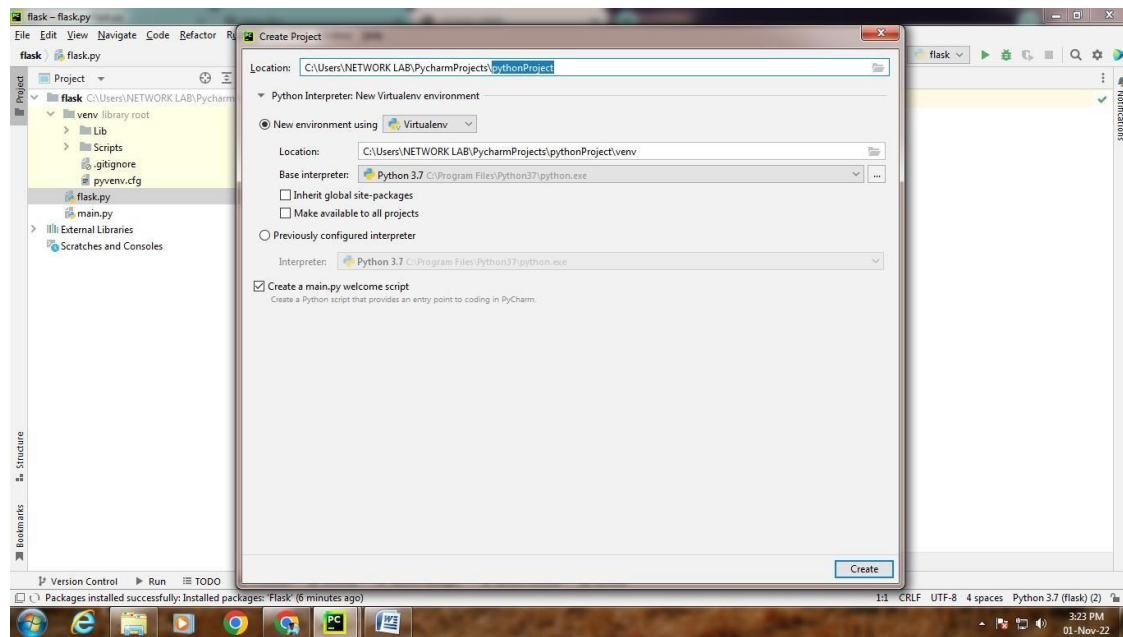
Last Login : 2022-11-09 12:03:37

Step 3:After following the procedure that is given in reference video, your IBM cloud account wil created.



5. CREATING A FLASK PROJECT:

Step 1: Open pycharm in your desktop and create new project folder



Step 2: Enter the following code to create the flask project

```
from flask import Flask
```

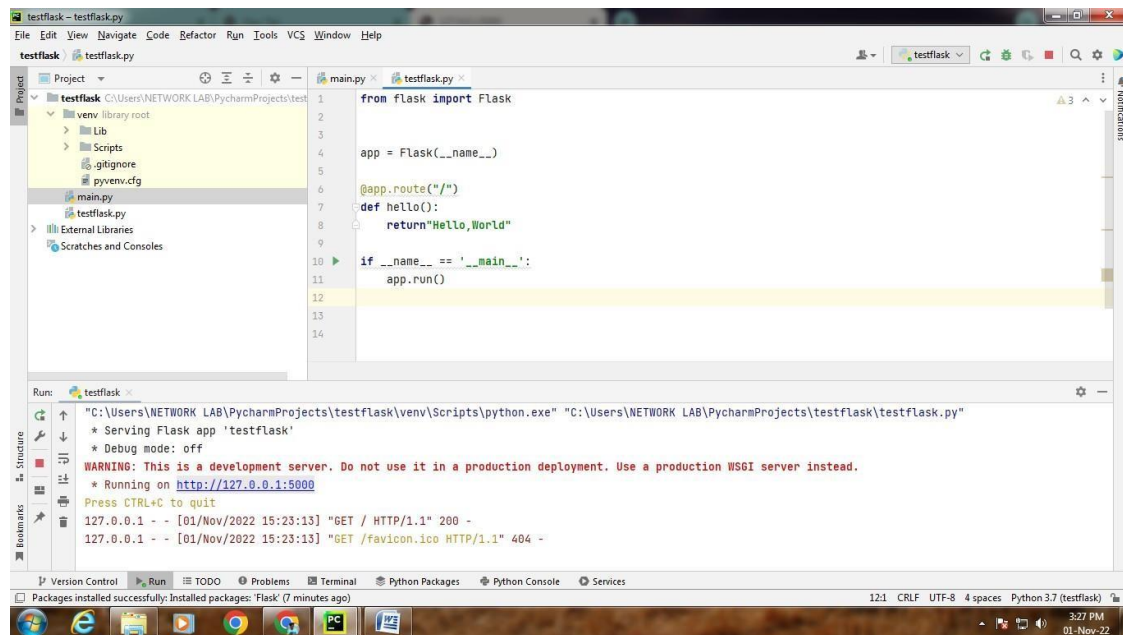
```
app = Flask(__name_)
```

```
@app.route("/")
```

```
def hello():  
    return "Hello, World"
```

```
if __name__ == '__main__':  
    app.run()
```


Step 3: Then run the code, it will show website link in terminal.

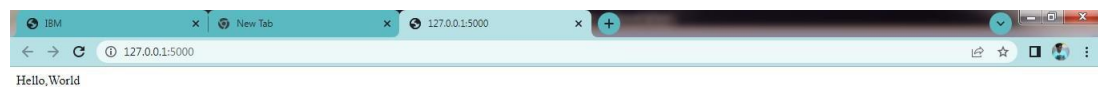


The screenshot shows the PyCharm IDE interface. The main editor displays a Python file named `testflask.py` with the following code:

```
1 from flask import Flask
2
3
4 app = Flask(__name__)
5
6 @app.route("/")
7 def hello():
8     return "Hello, World"
9
10 if __name__ == '__main__':
11     app.run()
12
13
14
```

The Run console at the bottom shows the output of running the application:

```
Run: testflask
"C:\Users\NETWORK LAB\PycharmProjects\testflask\venv\Scripts\python.exe" "C:\Users\NETWORK LAB\PycharmProjects\testflask\testflask.py"
* Serving Flask app 'testflask'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
127.0.0.1 - - [01/Nov/2022 15:23:13] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [01/Nov/2022 15:23:13] "GET /favicon.ico HTTP/1.1" 404 -
```



Step 4: By clicking the link in terminal, it will show "Hello World" in the browser page.

