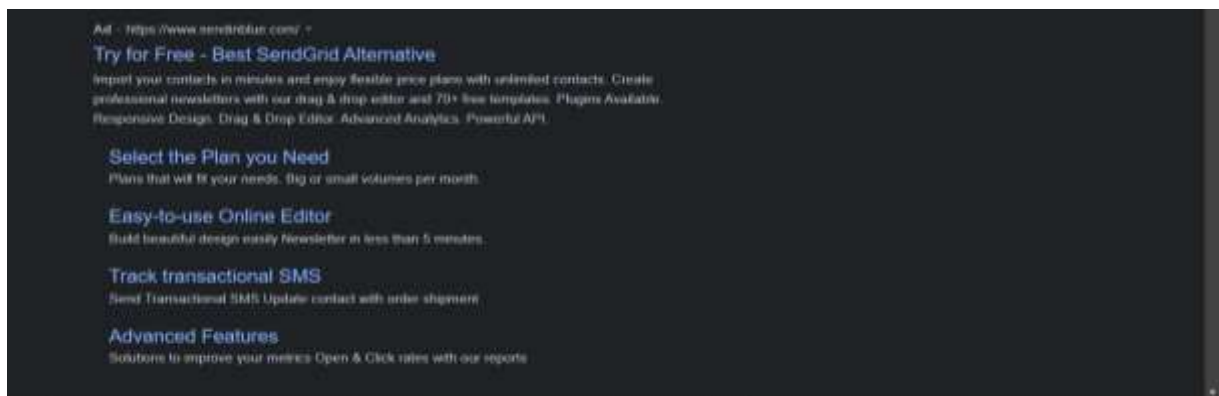


# SETTING UP APPLICATION ENVIRONMENT

Date	10 October 2022
Team ID	PNT2022TMID13118
Project Name	News Tracker Application

## SENDGRID ACCOUNT CREATION:

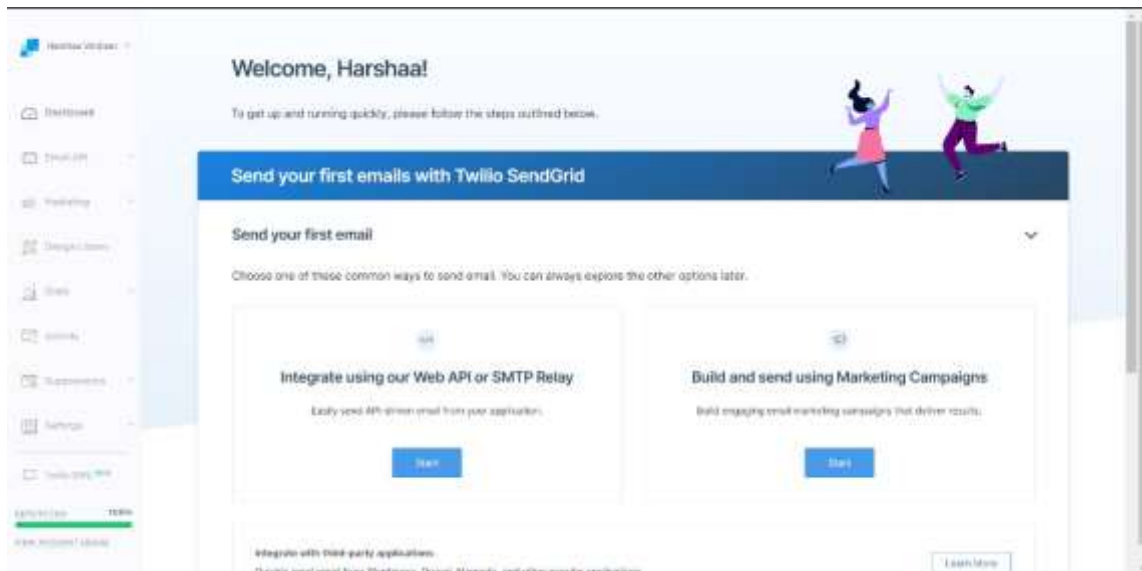
- Step1: Open Sengrid.com



- Step 2: Registering new account

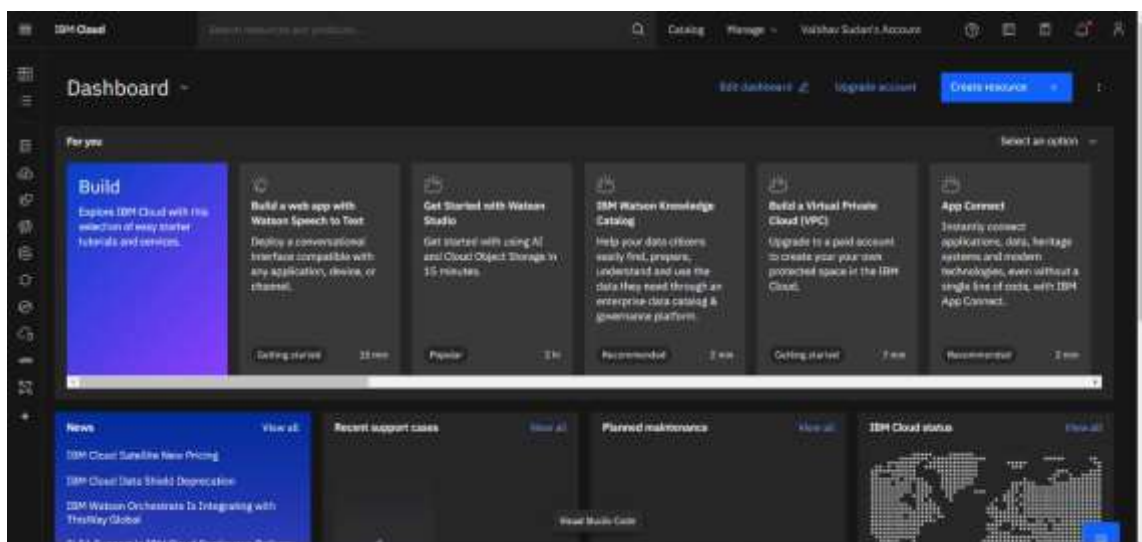
A screenshot of the SendGrid registration form titled "Tell Us About Yourself". The form is white with a blue SendGrid logo at the top. It contains several input fields and radio buttons. The fields are: First Name (Harshaa), Last Name (Vardaan), Company Name (IBM), Company Website (ibm.com), Country Code (India (+91)), and Phone Number (9797014827). There are also radio buttons for "What is your role?" (Developer, CEO, Marketer, Other) and "How many emails do you send per month?" (0 to 100,000, 100,000 to 700,000, 700,000 to 1,500,000, 1,500,000 to 10,000,000, 10,000,000 to 50,000,000, 50,000,000 to 100,000,000, 100,000,000+). The "Other" role and "0 to 100,000" email range are selected.

➤ Step 3: SendGrid account created

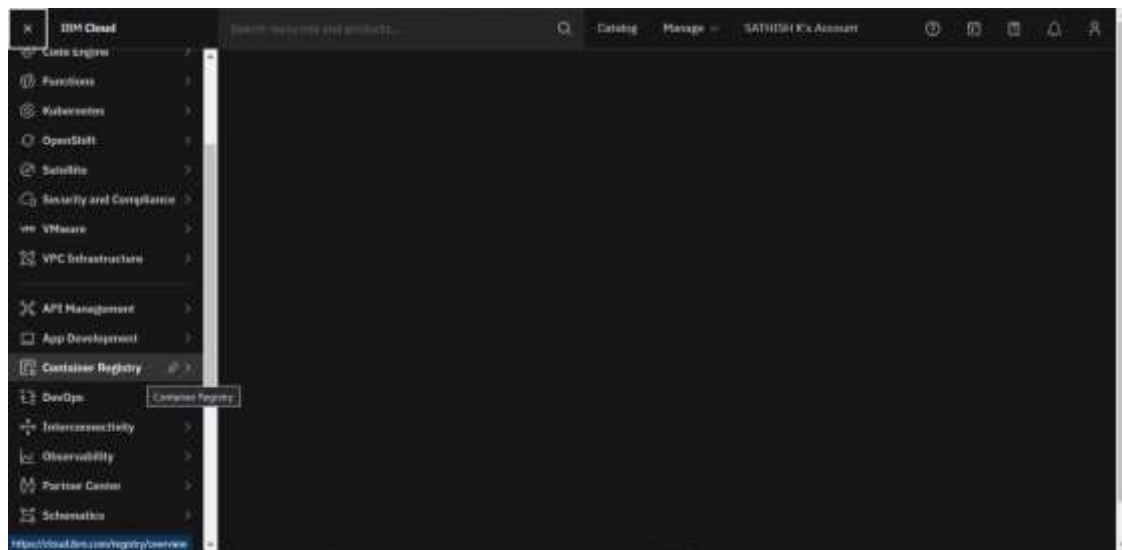


## IBM CLOUD CLI INSTALLATION:

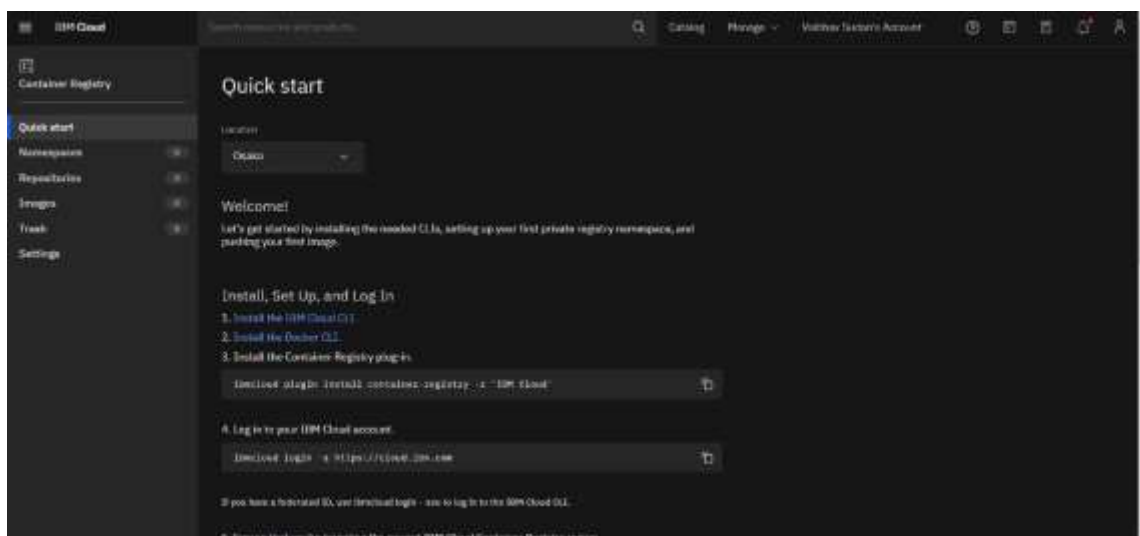
➤ Step1: Log in to the IBM cloud



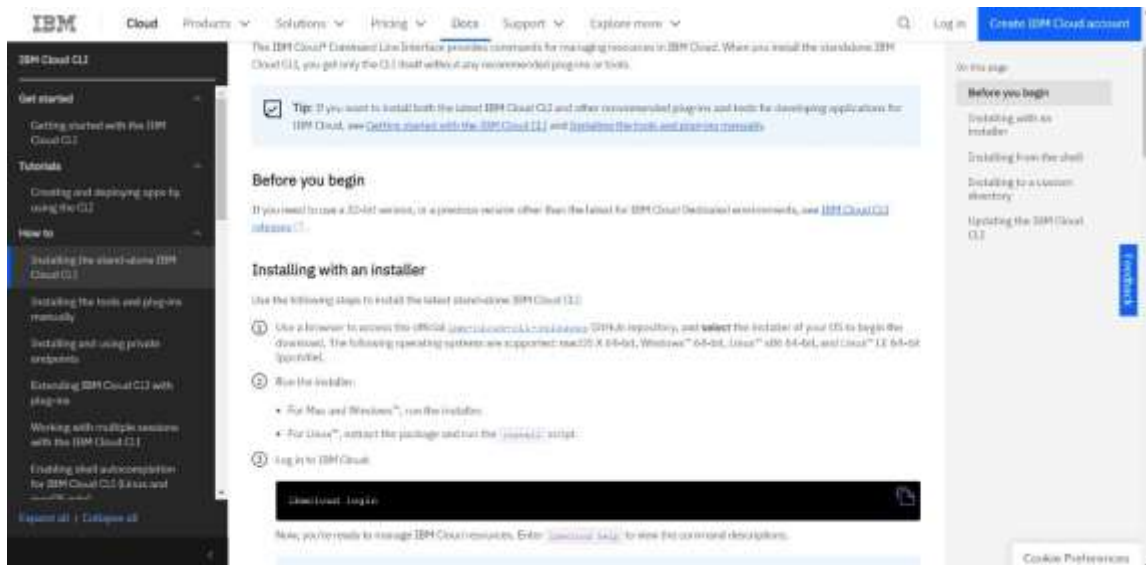
➤ Step 2: Select container registry



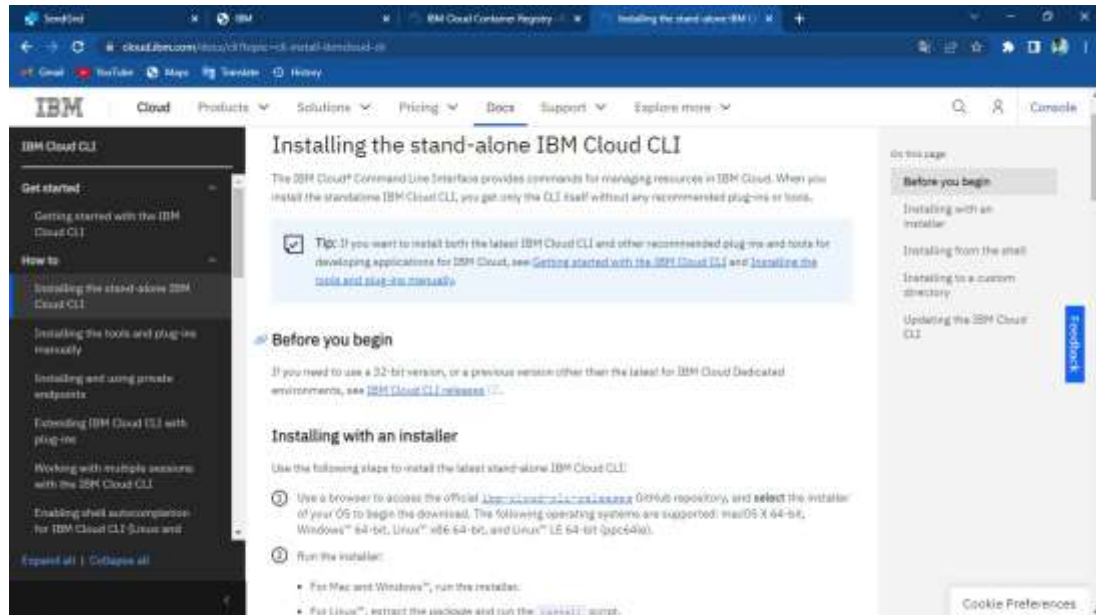
➤ Step3: Select QuickStart to open container registry and click on installIBM Cloud CLI



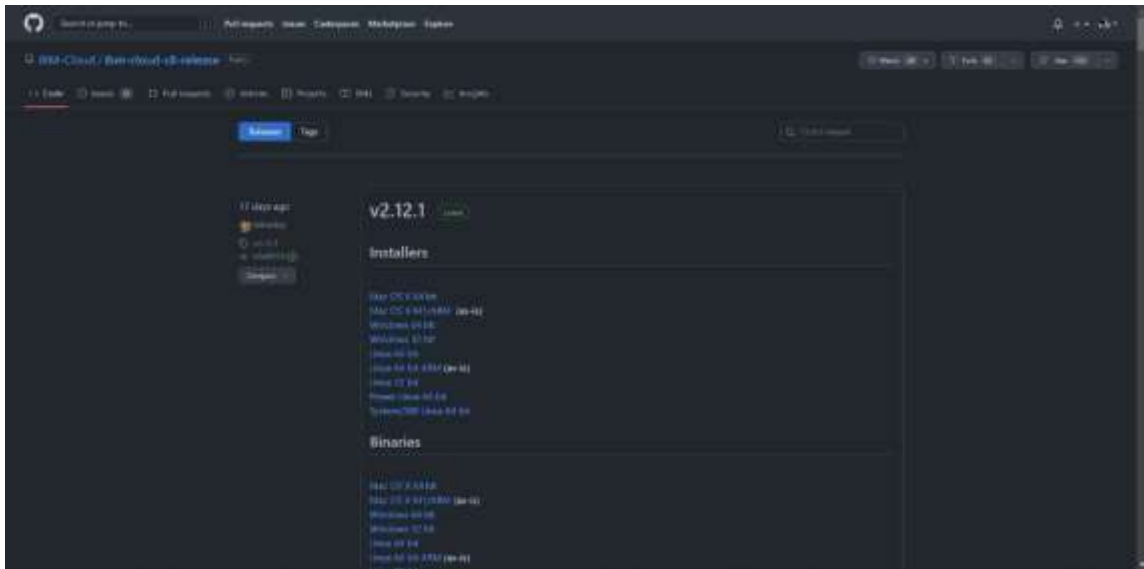
## ➤ Step 4: Click on IBM Cloud CLI



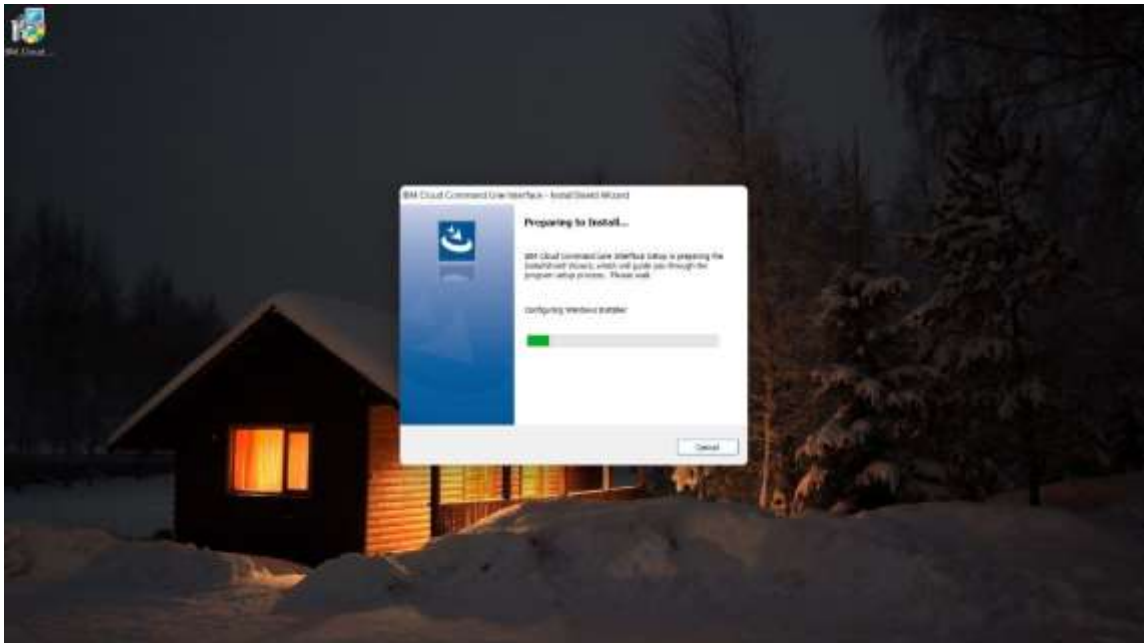
## ➤ Step 5: Click on IBM Cloud CLI releases



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



- Step 7: Download, setup to run the installer



## ➤ Step 8: Setup

```
Windows PowerShell

Harshaa Vardaan@Harshaa-G15: ~
> ibmccloud --version
C:\Program Files\IBM\Cloud\bin\ibmccloud.exe version 2.12.1+b8488a1-2022-10-31T15:08:10+00:00

Harshaa Vardaan@Harshaa-G15: ~
> |
```

```
Harshaa Vardaan@Harshaa-G15: ~
> ibmccloud --version
C:\Program Files\IBM\Cloud\bin\ibmccloud.exe version 2.12.1+b8488a1-2022-10-31T15:08:10+00:00

Harshaa Vardaan@Harshaa-G15: ~
> ibmccloud login
API endpoint: https://cloud.ibm.com

Email> 191357@psgtech.ac.in
Password>
Authenticating ...
OK

Targeted account Vaibhav Sudan's Account (6dbe126472834ce294b854718958995b)

Select a region (or press enter to skip):
1. au-syd
2. in-che
3. jp-osa
4. jp-tok
5. kr-seo
6. eu-de
7. eu-gb
8. ca-tor
9. us-south
10. us-east
11. br-sao
Enter a number> |
```

```
C:\Program Files\IBM\Cloud\bin\ibmccloud.exe plugin install --all
C:\Program Files\IBM\Cloud\bin\ibmccloud.exe plugin install --all -r MyRepo
C:\Program Files\IBM\Cloud\bin\ibmccloud.exe plugin install http://example.com/downloads/my-plugin
C:\Program Files\IBM\Cloud\bin\ibmccloud.exe plugin install ~/Downloads/my-plugin
C:\Program Files\IBM\Cloud\bin\ibmccloud.exe plugin install plugin-echo
C:\Program Files\IBM\Cloud\bin\ibmccloud.exe plugin install plugin-echo -v 1.0.0
C:\Program Files\IBM\Cloud\bin\ibmccloud.exe plugin install plugin-echo -r MyRepo -v ~1.2
C:\Program Files\IBM\Cloud\bin\ibmccloud.exe plugin install plugin-echo -v "≥0.3, <0.6" -f

OPTIONS:
-a, --all      Install all latest available plugins in repository
-r value       Repo name where the plug-in binary is located
-v value       Version of the plug-in to be installed. Accepts specific semantic version or constraint. Only applicable
when installing a single plugin.
-f            Force installation of plugin(s) without confirmation
-q, --quiet    Suppress verbose output

2 Harshaa Vardaan@Harshaa-G15: ~
> ibmccloud plugin install container-registry
Looking up 'container-registry' from repository 'IBM Cloud' ...
Plug-in 'container-registry[cr] 1.0.2' found in repository 'IBM Cloud'
Attempting to download the binary file ...
11.90 MiB / 11.90 MiB [=====] 100.00% 3s
12076416 bytes downloaded
Installing binary ...
OK
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\Harshaa Vardaan\.bluemix\plugins\container-r
egistry. Use 'C:\Program Files\IBM\Cloud\bin\ibmccloud.exe plugin show container-registry' to show its details.

Harshaa Vardaan@Harshaa-G15: ~
```

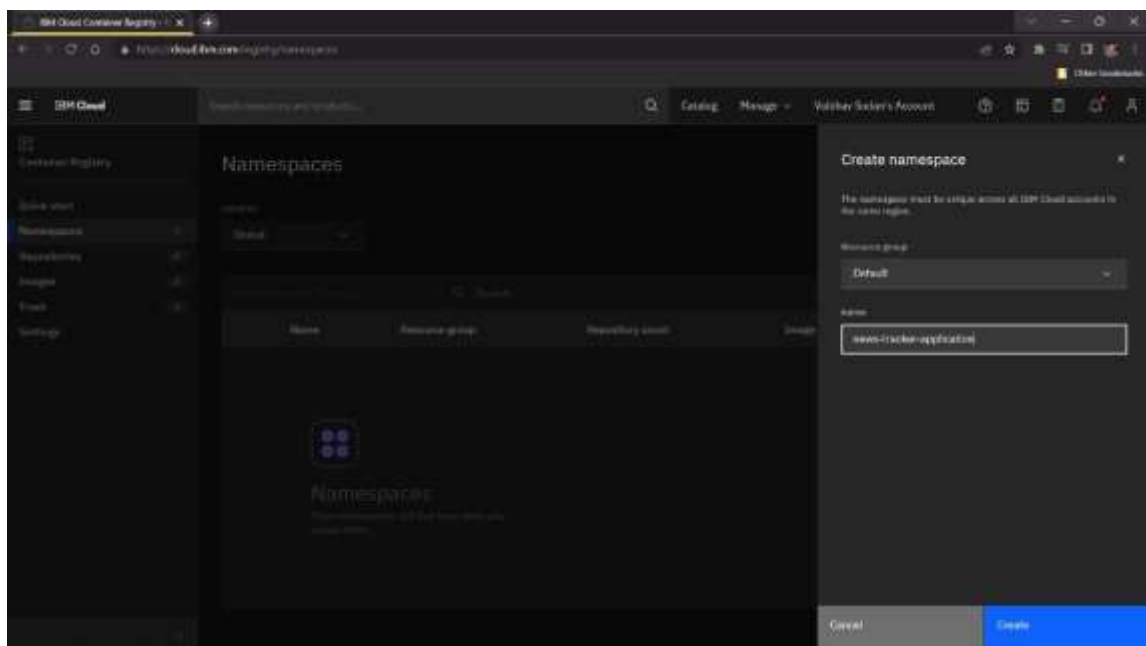
```
C:\Program Files\IBM\Cloud\bin\ibmcloud.exe plugin install plugin-echo -v 1.0.0
C:\Program Files\IBM\Cloud\bin\ibmcloud.exe plugin install plugin-echo -r MyRepo -v ~1.2
C:\Program Files\IBM\Cloud\bin\ibmcloud.exe plugin install plugin-echo -v "≥0.3, <0.6" -f

OPTIONS:
-a, --all      Install all latest available plugins in repository
-r value       Repo name where the plug-in binary is located
-v value       Version of the plug-in to be installed. Accepts specific semantic version or constraint. Only applicable
when installing a single plugin.
-f            Force installation of plugin(s) without confirmation
-q, --quiet    Suppress verbose output

2  Marsha Vardaan@Marsha-G15
> ibmcloud plugin install container-registry
Looking up 'container-registry' from repository 'IBM Cloud'...
Plug-in 'container-registry[cr] 1.0.2' found in repository 'IBM Cloud'
Attempting to download the binary file ...
 11.98 MiB / 11.98 MiB [=====] 100.00% 3s
12876416 bytes downloaded
Installing binary ...
OK
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\Marsha Vardaan\bluewin\plugins\container-r
egistry. Use 'C:\Program Files\IBM\Cloud\bin\ibmcloud.exe plugin show container-registry' to show its details.
> ibmcloud cr region-set global
The region is set to 'global', the registry is 'icr.io'.

OK
>
```

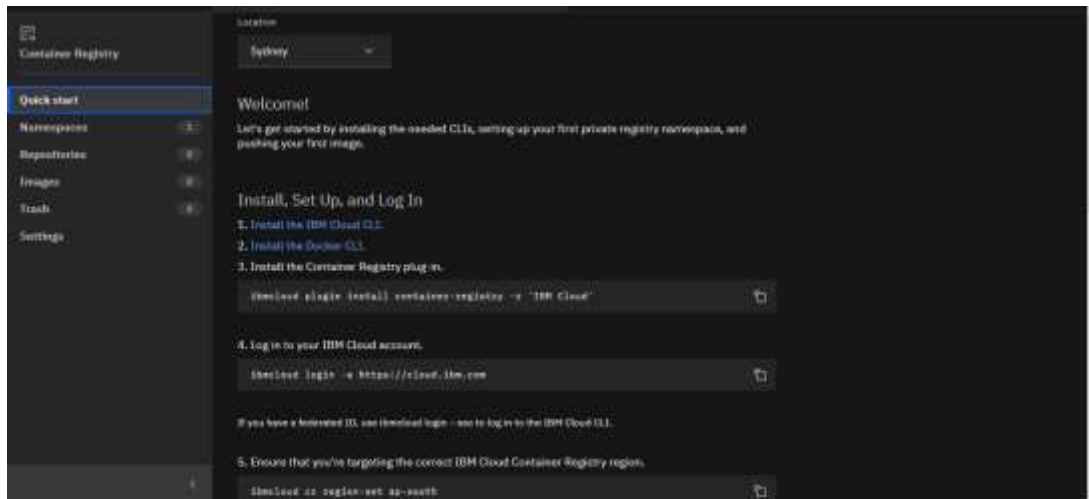
➤ Step 12: Create namespace in your container registry



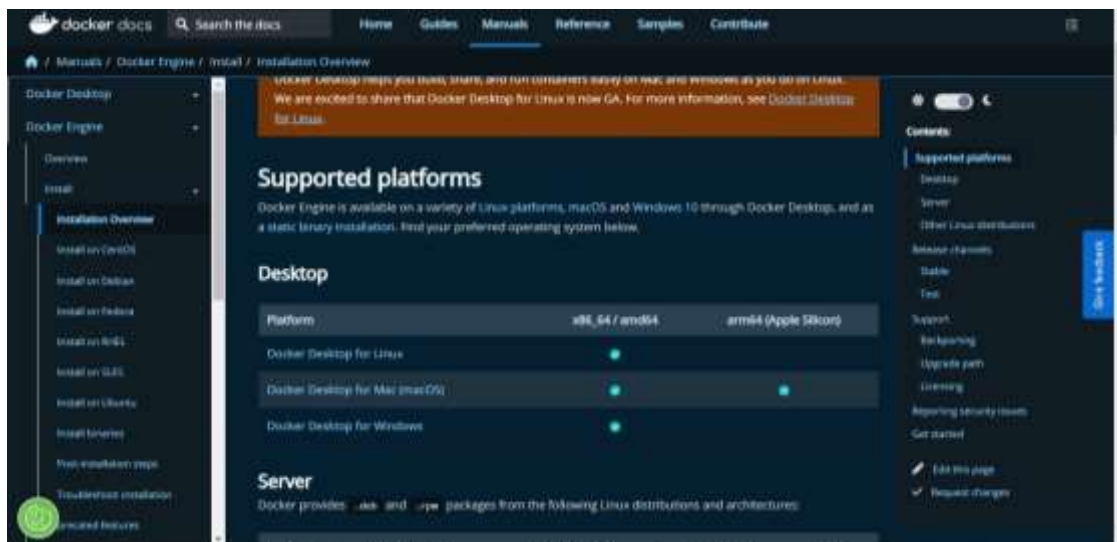


## DOCKER CLI INSTALLATION:

- Step1: Open container registry in IBM cloud and click on Install DockerCLI.

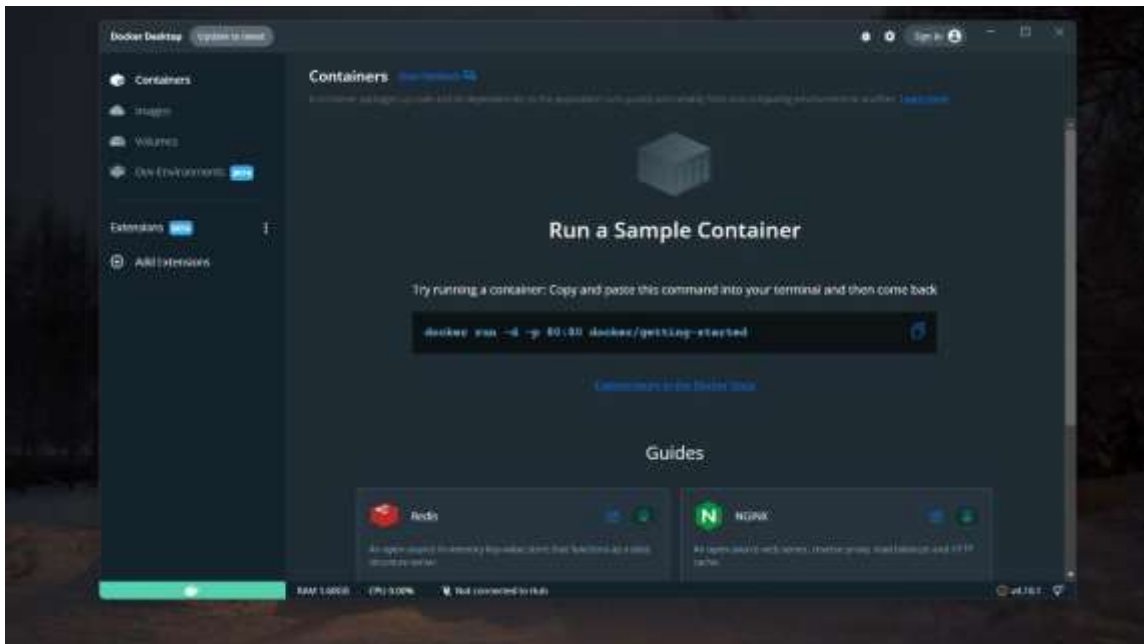


- Step 2: Click on required installer for your specified system and download it.





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

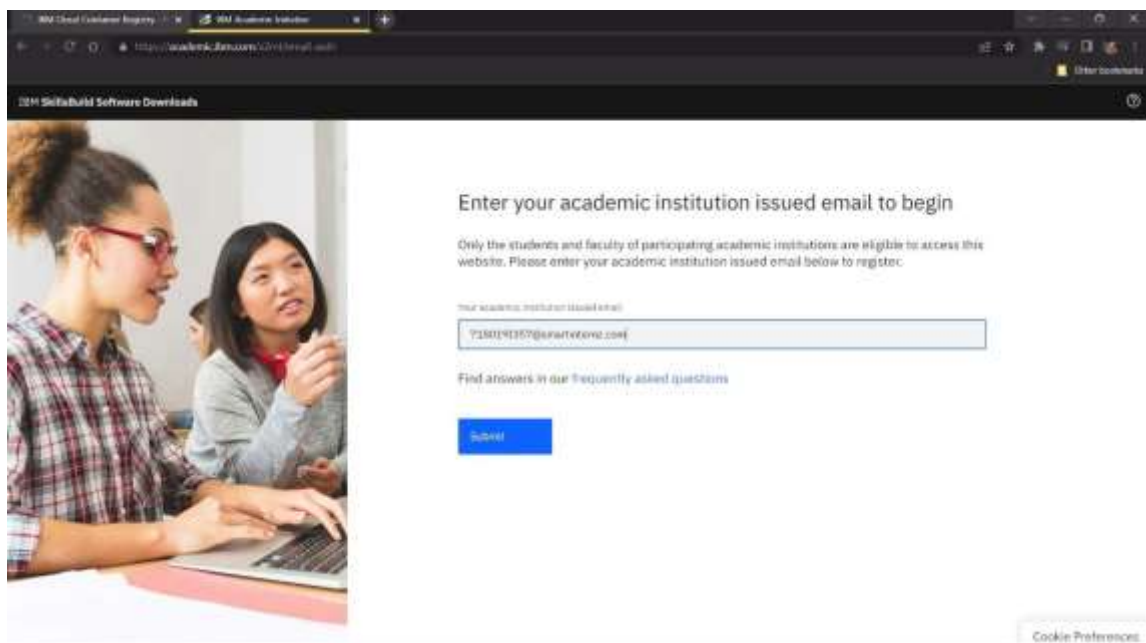


## IBM CLOUD ACCOUNT CREATION:

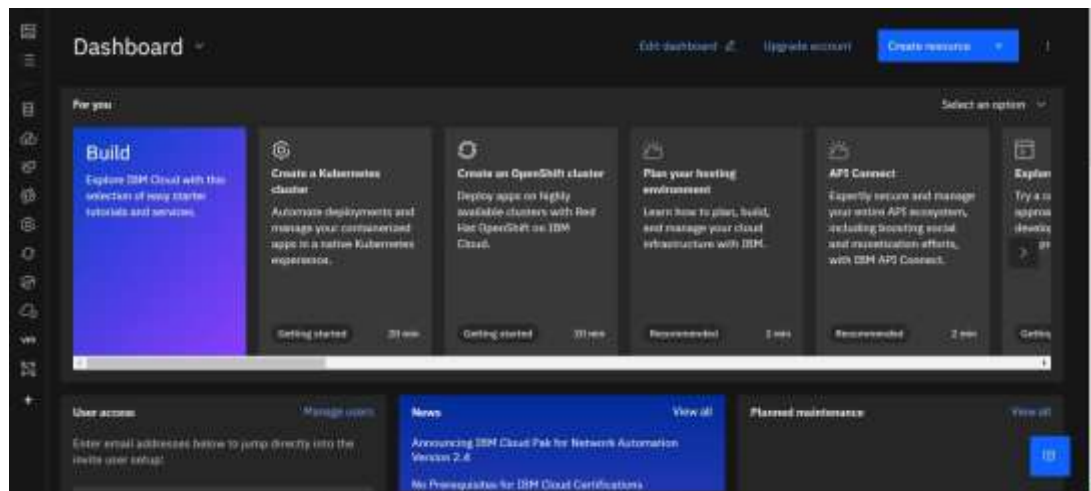
- Step 1: Search for “ibm.com/academic” in the browser



- 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.

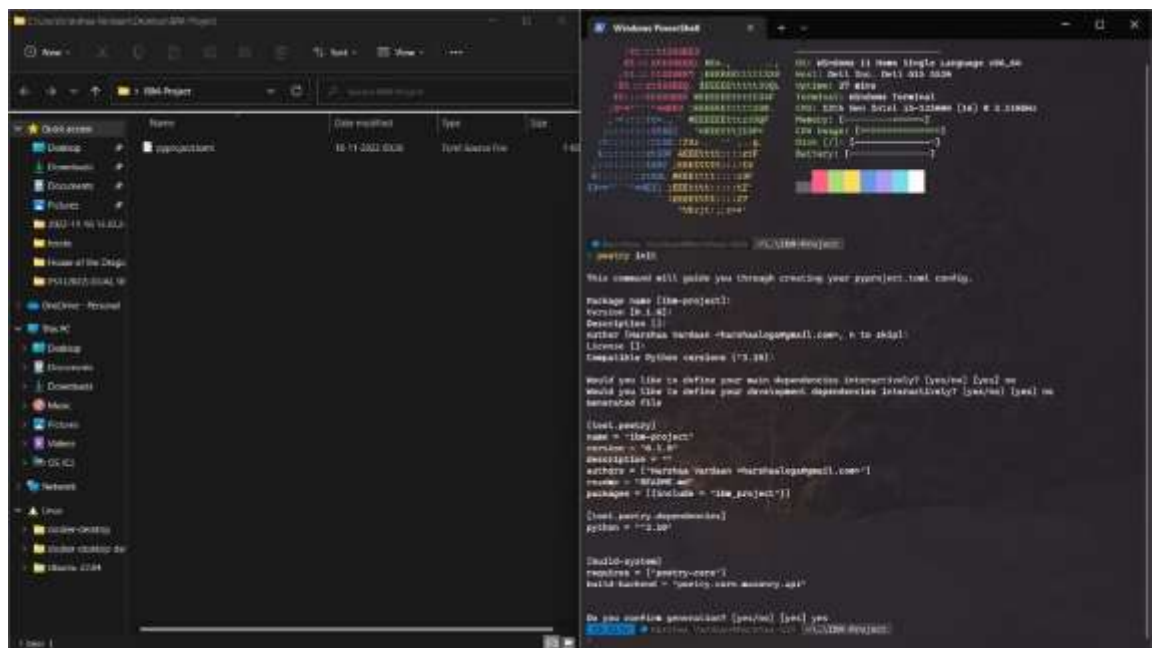


- Step 3: After following the procedure that is given in reference video, your IBM cloud account will create.

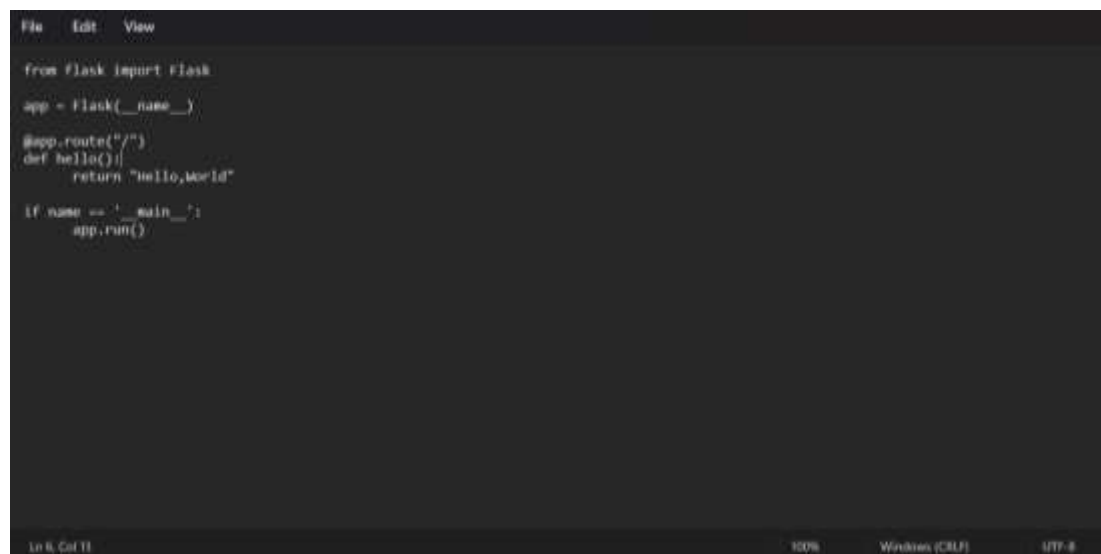


## CREATING A FLASK PROJECT:

- Step1: Open PyCharm in your desktop and create new project folder



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



- Step 3: Run the code, it will show website link in terminal.

```
PS C:\IOM-Project> poetry run python app.py
* Serving Flask app 'app'
* 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
```

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



