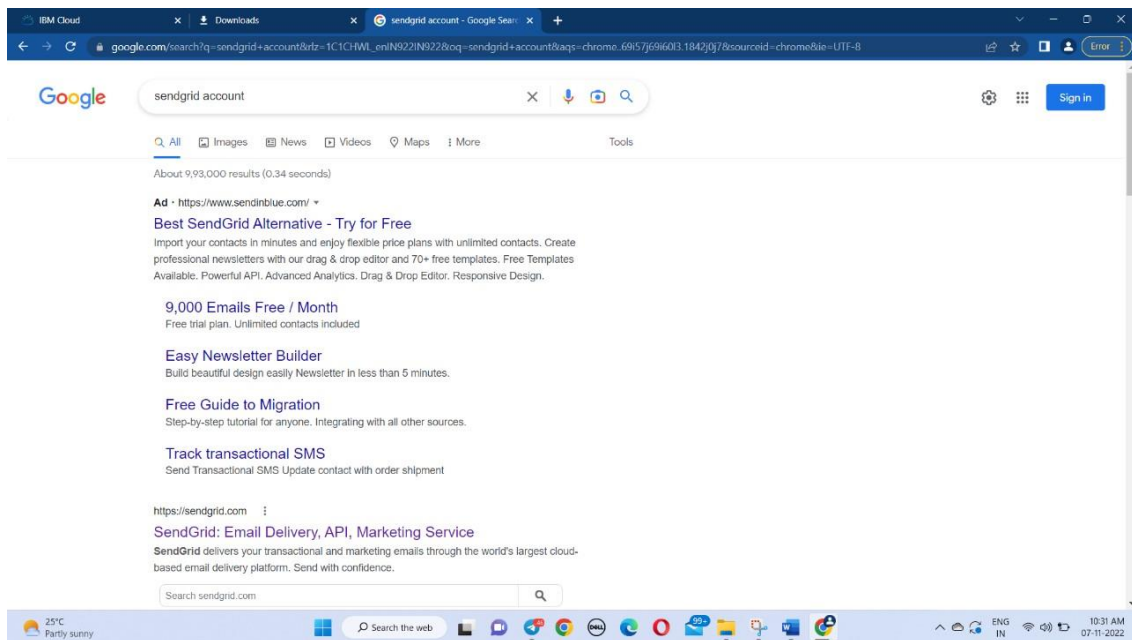


SETTING UP APPLICATION ENVIRONMENT

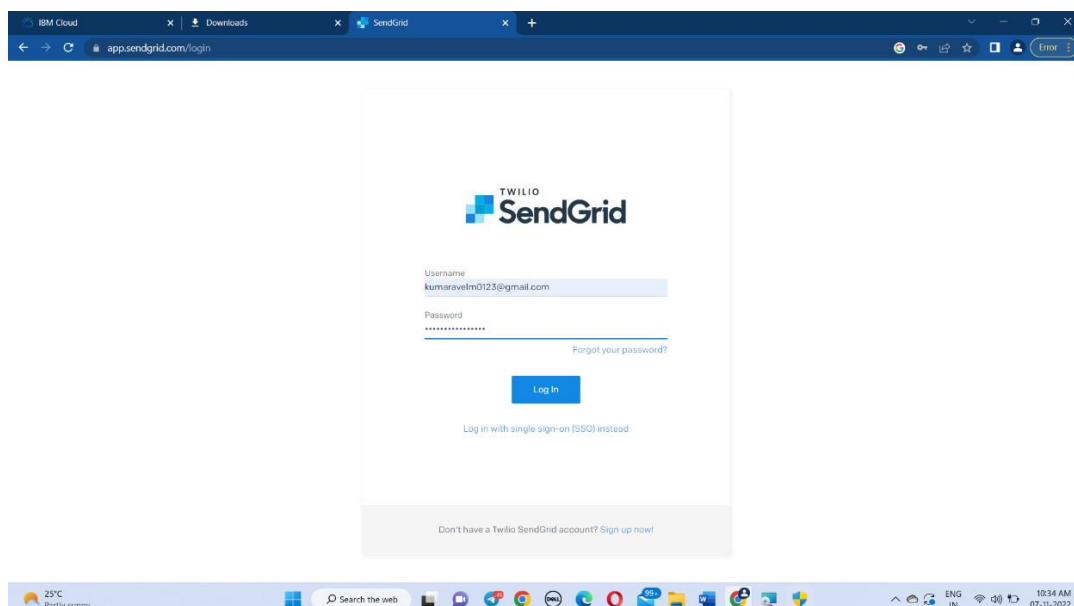
Date	07 NOVEMBER 2022
Team ID	PNT2022TMID40133
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 Marks

1. SENDGRID ACCOUNT CREATION:

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



Step 2: Registering new account

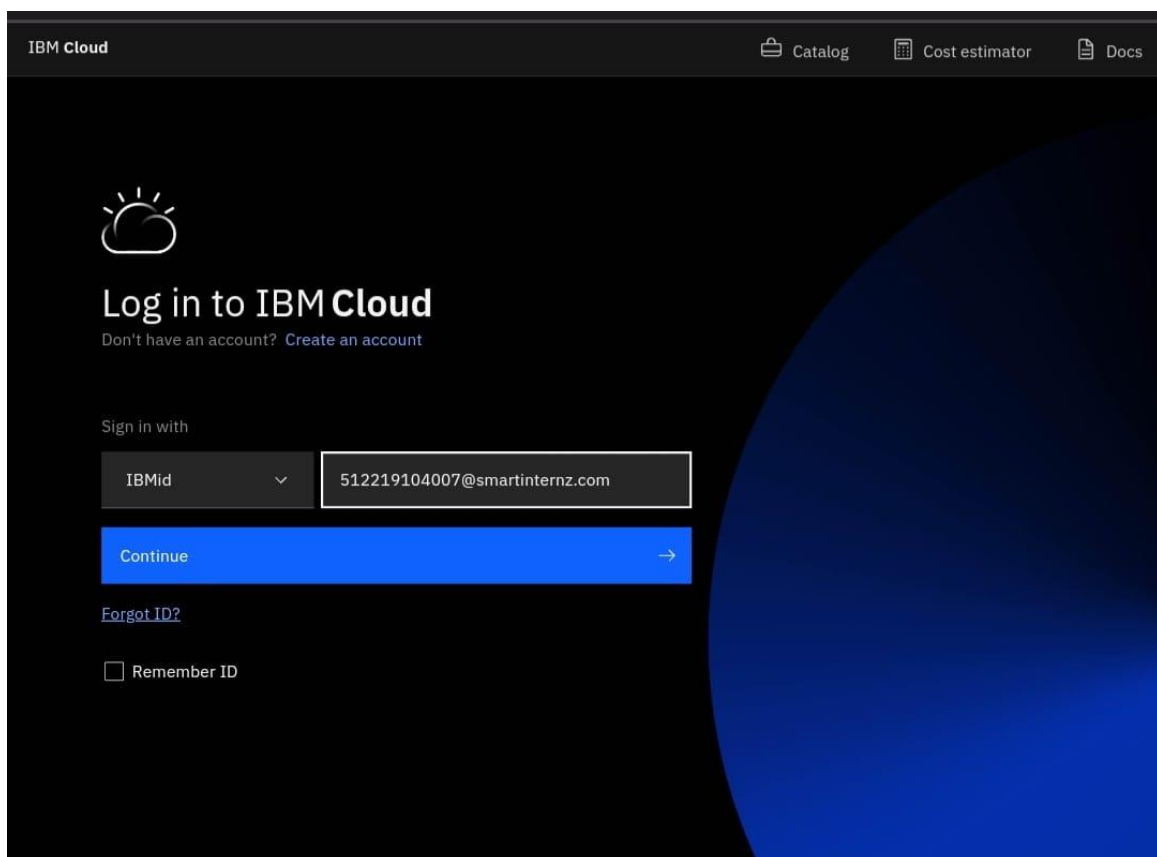


Step 3: Sendgrid account created

2. IBM CLOUD CLI

INSTALLATION:


Step 1: Log into the IBM cloud



The screenshot shows the IBM Cloud login interface. At the top, there is a navigation bar with the 'IBM Cloud' logo on the left and links for 'Catalog', 'Cost estimator', and 'Docs' on the right. The main content area has a dark background with a large blue circular graphic on the right. The login section includes the IBM Cloud logo (a cloud with sun rays), the text 'Log in to IBM Cloud', and a link 'Don't have an account? Create an account'. Below this is a 'Sign in with' section featuring a dropdown menu set to 'IBMid' and a text input field containing the email '512219104007@smartinternz.com'. A prominent blue 'Continue' button with a right-pointing arrow is positioned below the input field. At the bottom of the login section, there is a link for 'Forgot ID?' and a checkbox labeled 'Remember ID'.

IBM Cloud

Catalog Cost estimator Docs



Log in to IBM Cloud

Don't have an account? [Create an account](#)

Sign in with

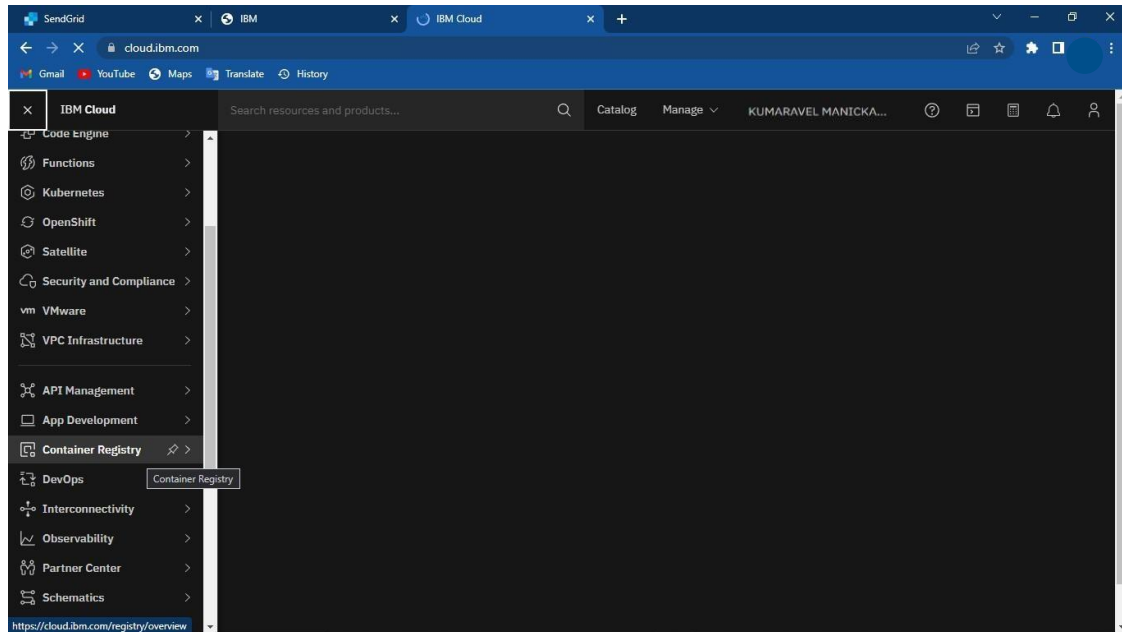
IBMid ▼ 512219104007@smartinternz.com

Continue →

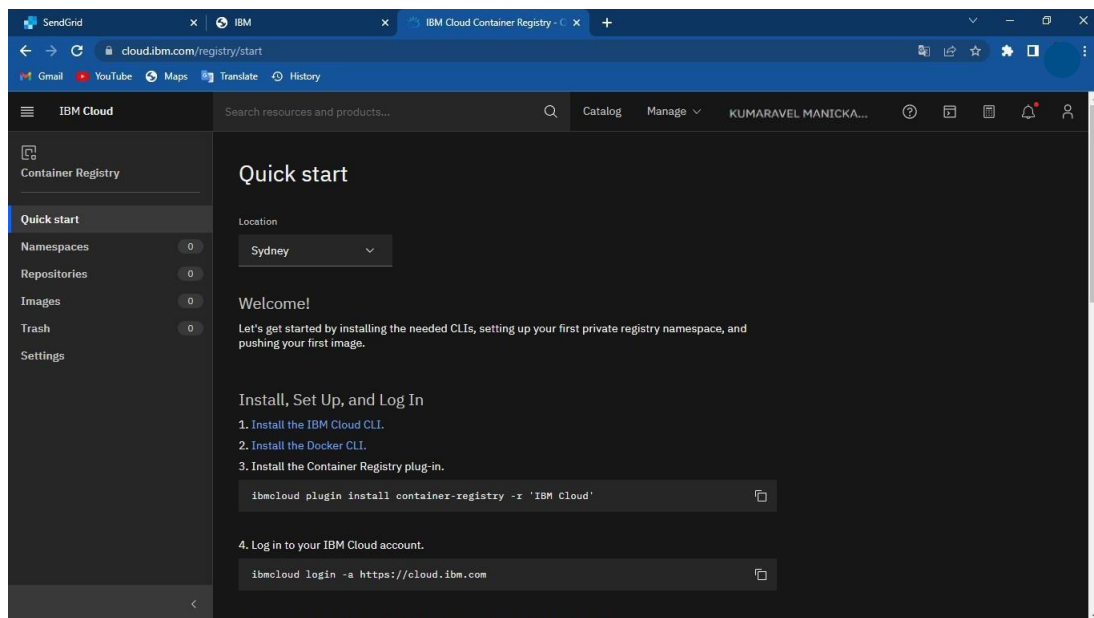
[Forgot ID?](#)

☐ Remember ID

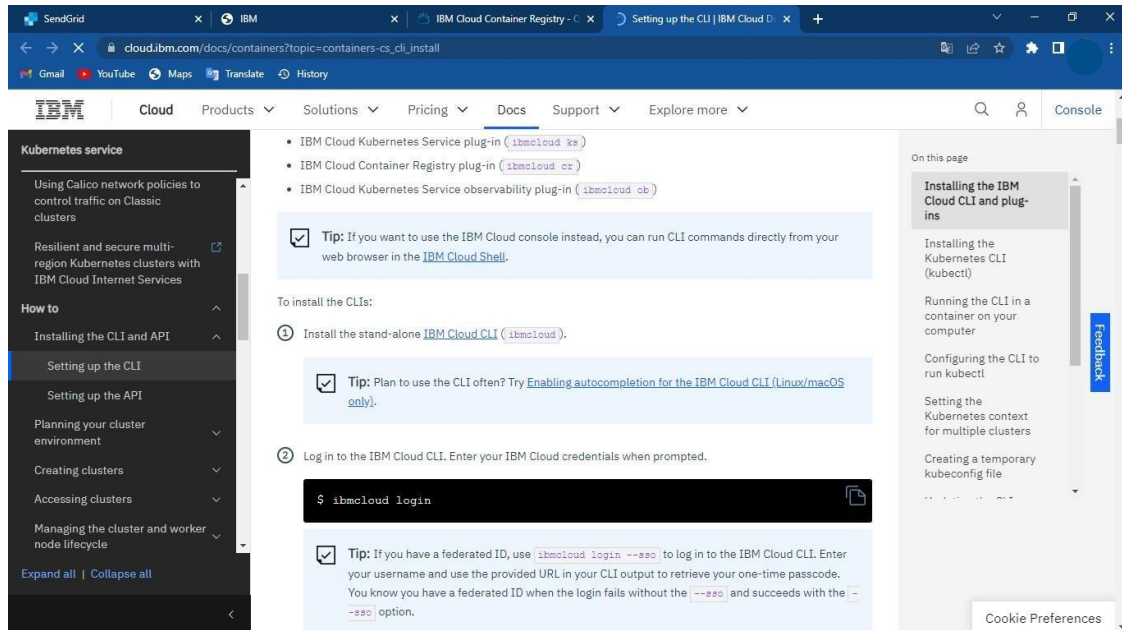
Step 2: Select container registry



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

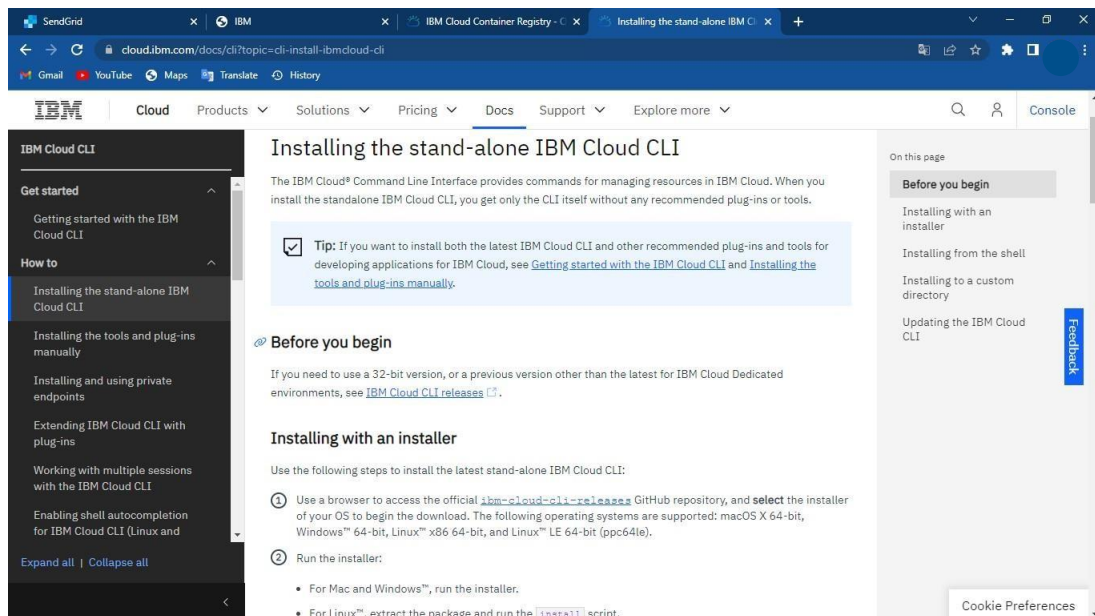


Step 4: Click on IBM Cloud CLI



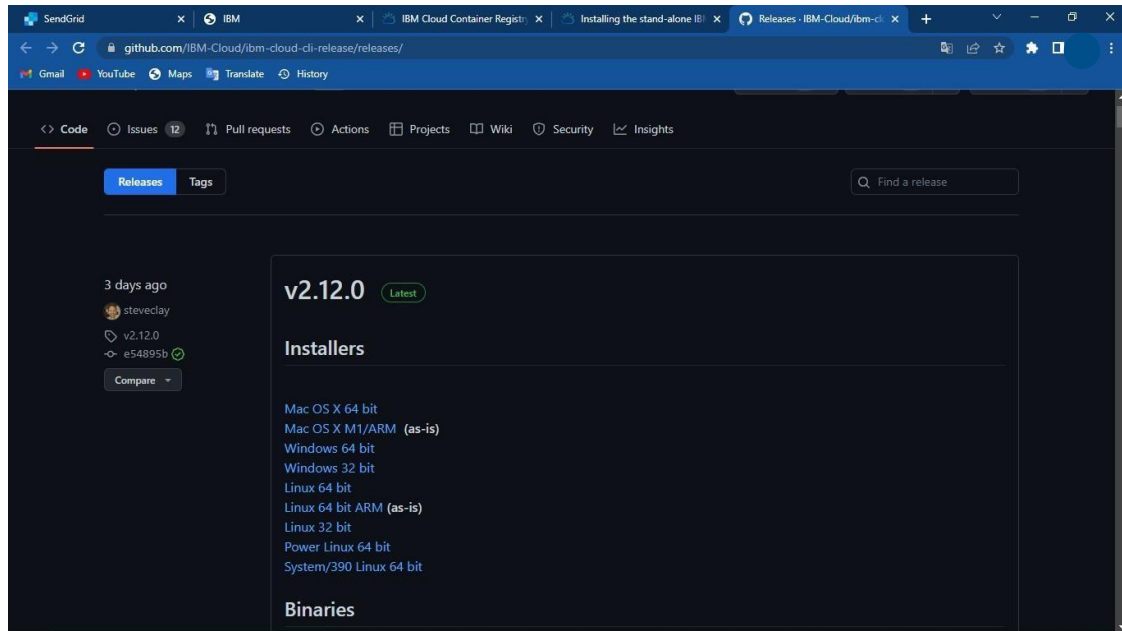
This screenshot shows the IBM Cloud CLI installation page. The left sidebar contains a 'Kubernetes service' section with links to 'Installing the CLI and API' and 'Setting up the CLI'. The main content area is titled 'Setting up the CLI' and includes a list of links for IBM Cloud Kubernetes Service plug-ins. A tip suggests using the IBM Cloud console or shell for CLI commands. The steps for installation are: 1. Install the stand-alone IBM Cloud CLI, and 2. Log in to the IBM Cloud CLI. A terminal snippet shows the command `$ ibmcloud login`. A second tip explains how to use a federated ID with the `--sso` option. The right sidebar lists the steps on the page: 'Installing the IBM Cloud CLI and plug-ins', 'Installing the Kubernetes CLI (kubectl)', 'Running the CLI in a container on your computer', 'Configuring the CLI to run kubectl', 'Setting the Kubernetes context for multiple clusters', and 'Creating a temporary kubeconfig file'.

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

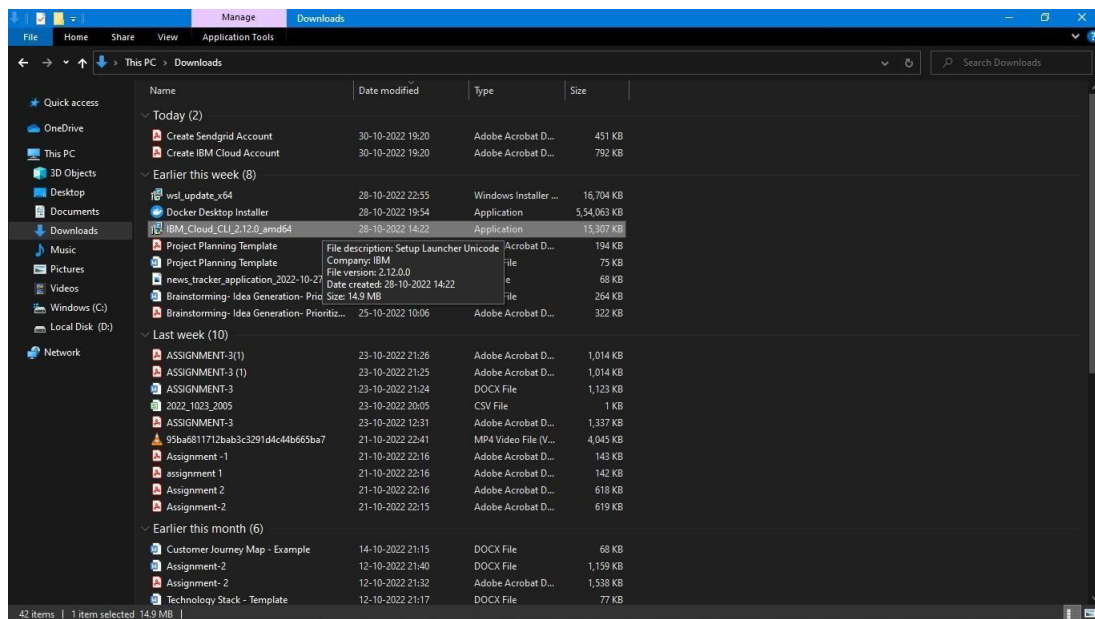


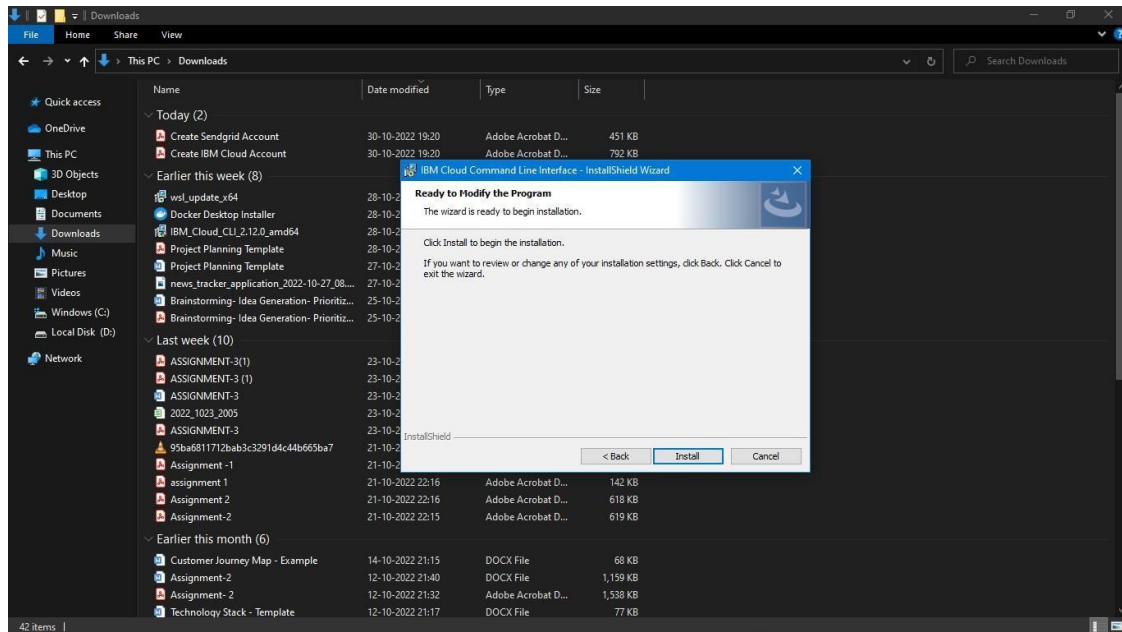
This screenshot shows the 'Installing the stand-alone IBM Cloud CLI' page. The left sidebar has a 'Get started' section with links to 'Installing the stand-alone IBM Cloud CLI' and 'Installing the tools and plug-ins manually'. The main content area is titled 'Installing the stand-alone IBM Cloud CLI' and includes a tip about installing both the CLI and plug-ins. The 'Before you begin' section mentions that a 32-bit version or a previous version can be used. 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 lists the steps on the page: 'Before you begin', 'Installing with an installer', 'Installing from the shell', 'Installing to a custom directory', and 'Updating the IBM Cloud CLI'.

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



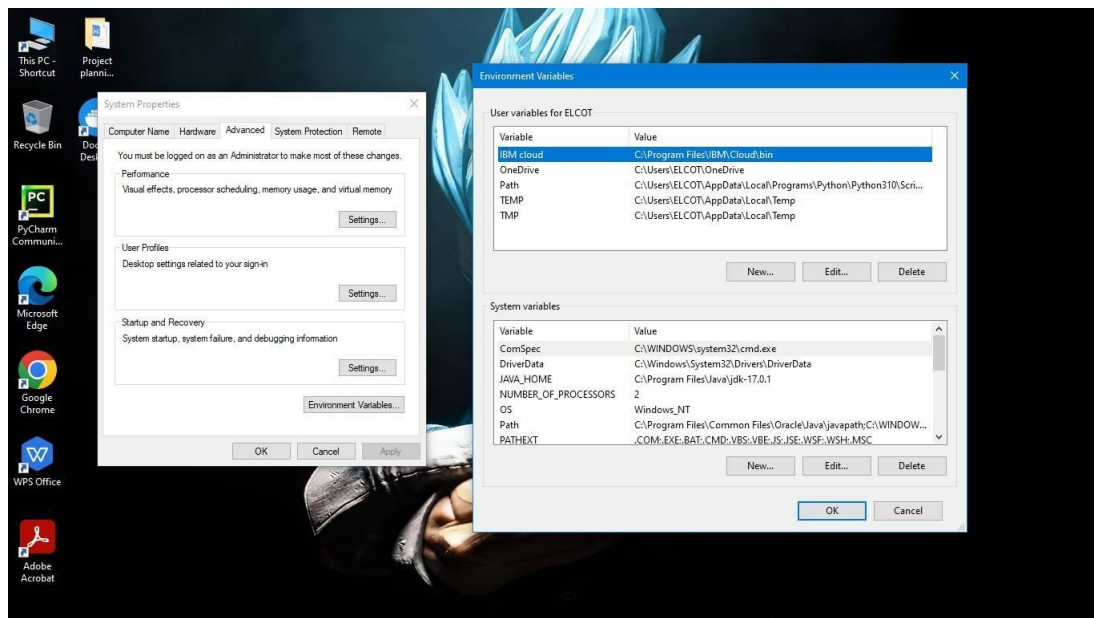
Step 7: After the download, Click the downloaded setup to run the installer

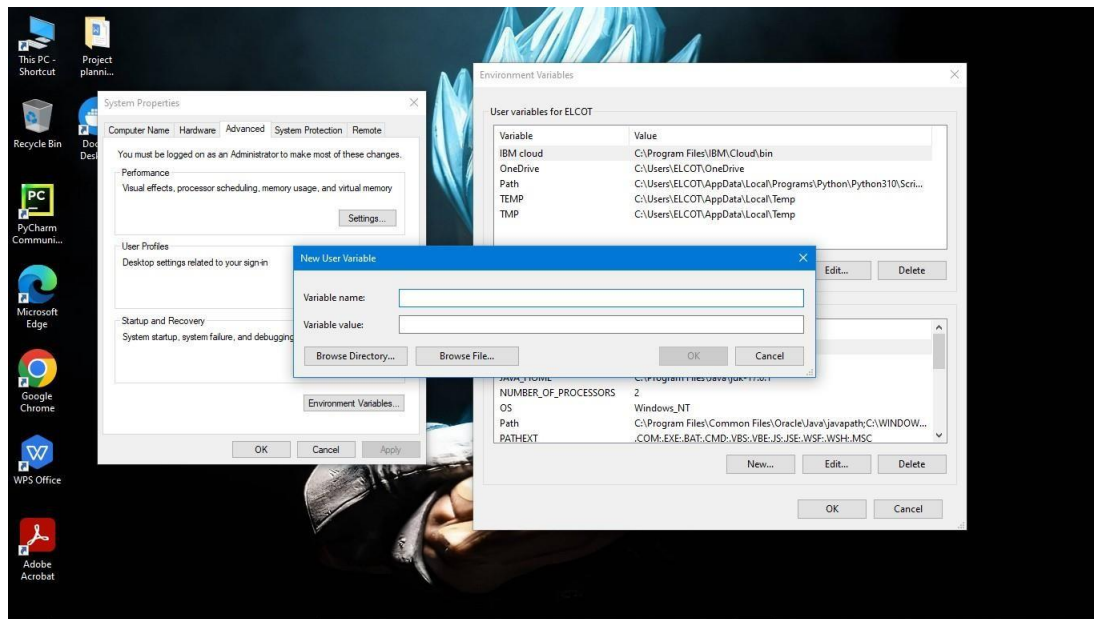




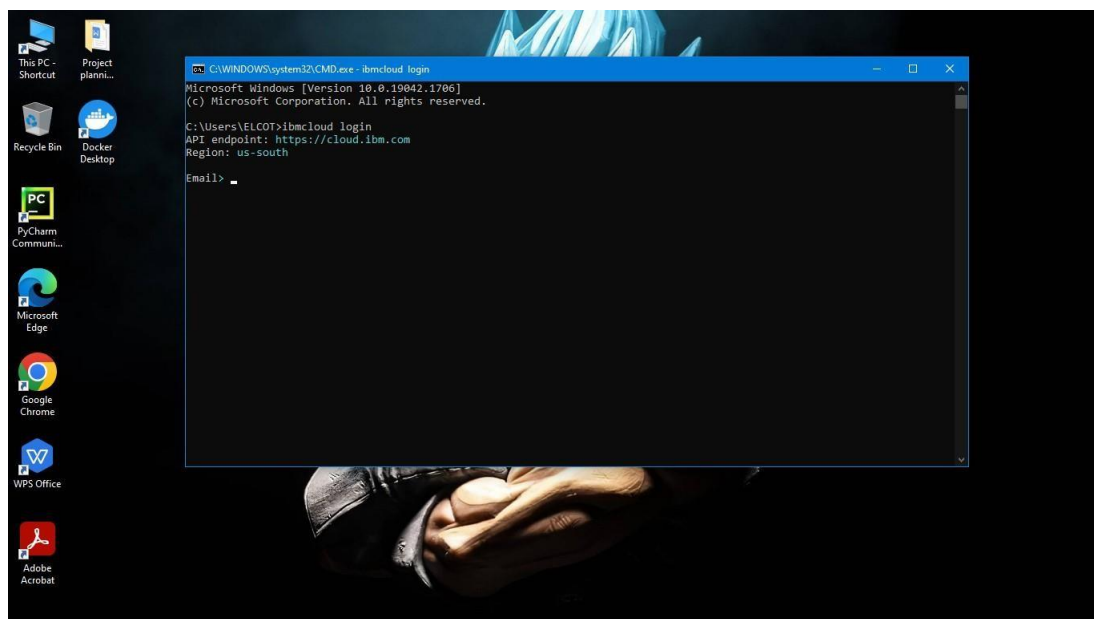
Step 8: After the installation set environment variable and then open CMD (Windows). Type this command to login in IBM cloud

“ibmcloud login”

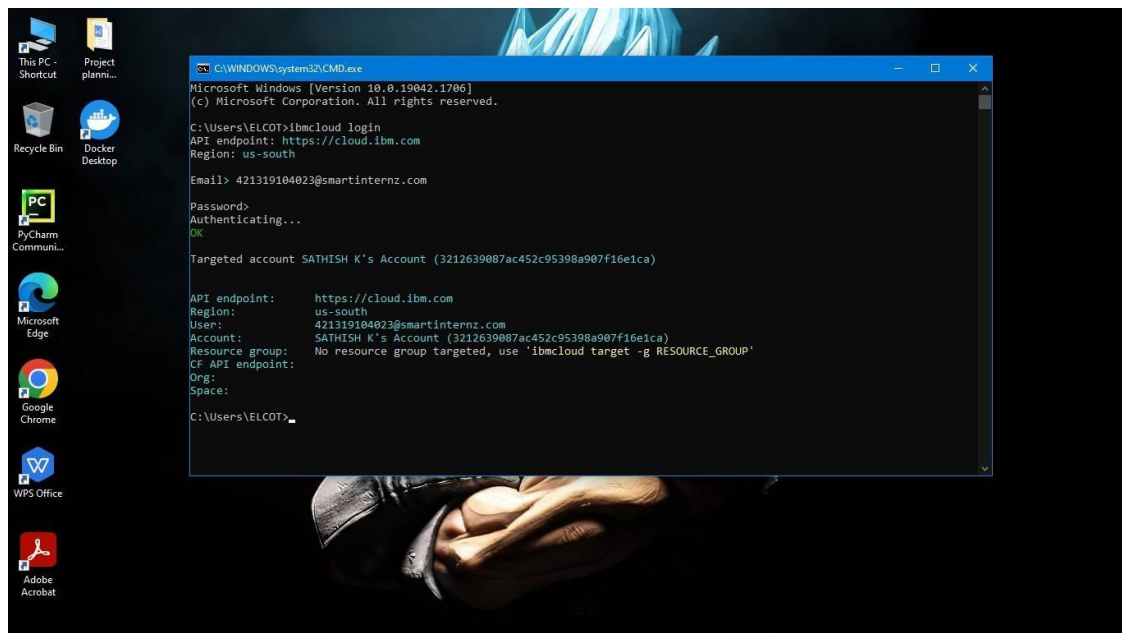




In the variable name, name it as “IBM Cloud” and in variable value the path location of the IBM.



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

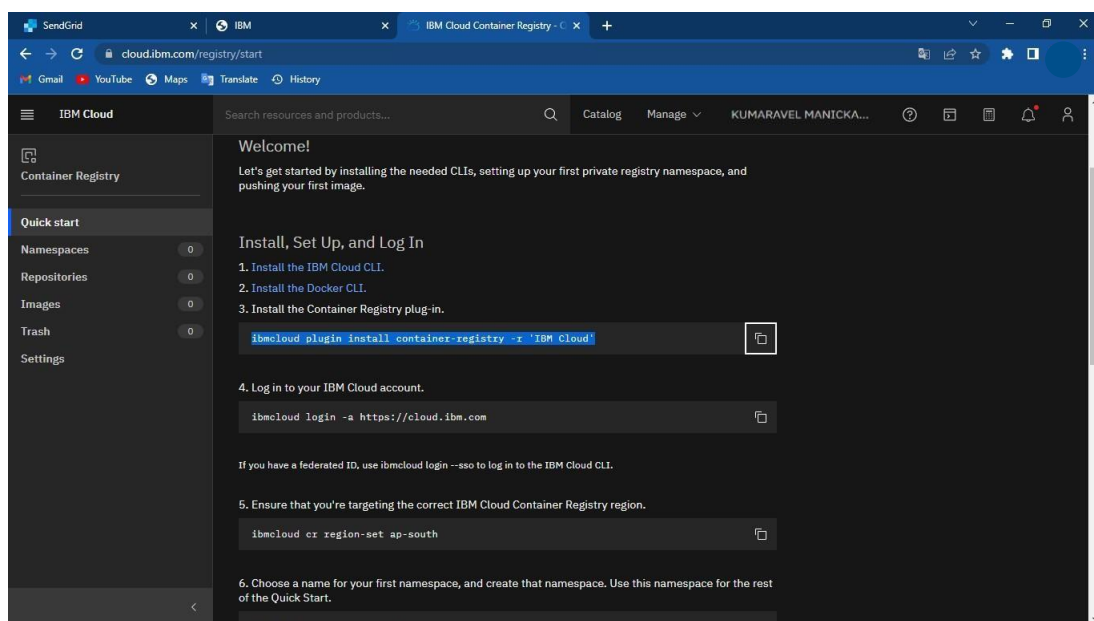
Targeted account SATHISH K's Account (3212639087ac452c95398a907f16e1ca)

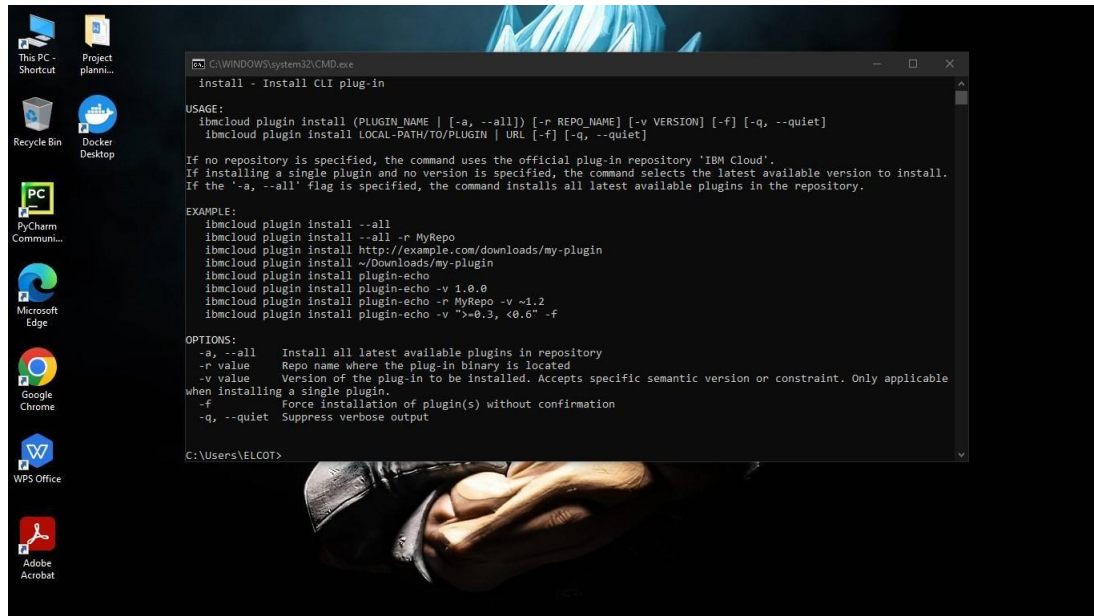
API endpoint: https://cloud.ibm.com
Region: us-south
User: 421319104023@smartinternz.com
Account: SATHISH K's Account (3212639087ac452c95398a907f16e1ca)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

C:\Users\ELCOT>
```

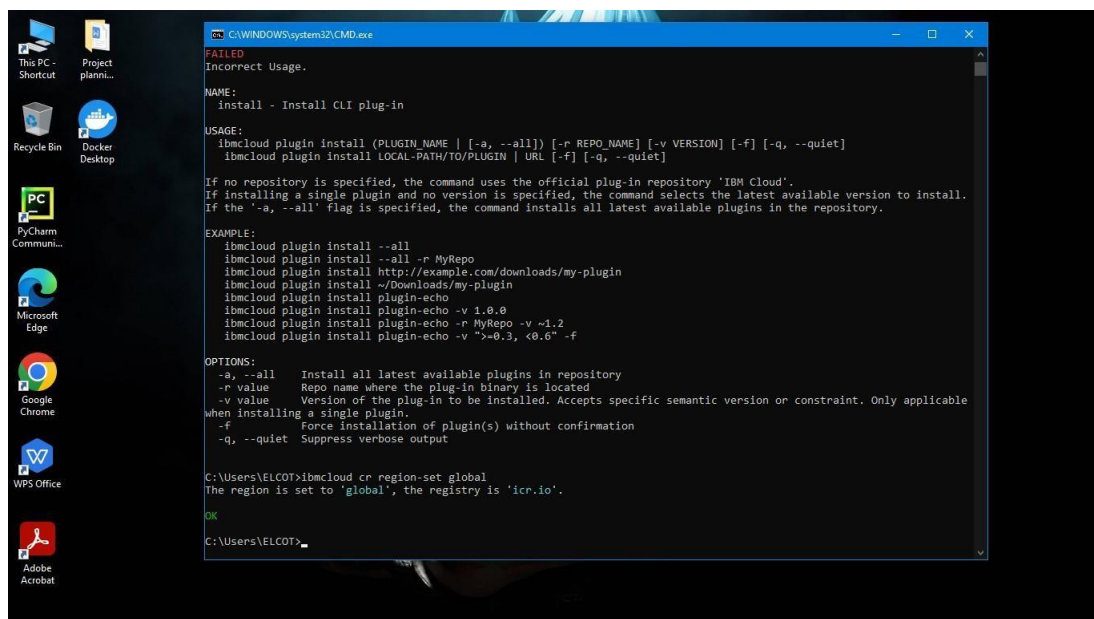
Step 10: Then copy the plugin command in your container registry (where the command displayed in your container registry which is opened on web browser) and paste and run it on cmd.

“ibmcloud plugin install container-registry -r”

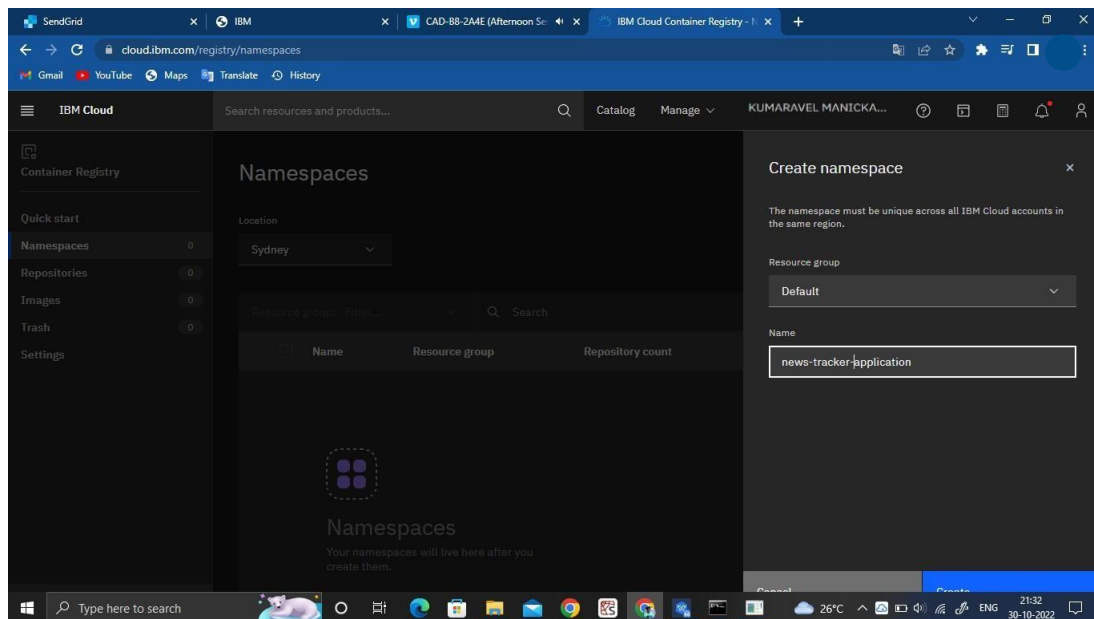




Step 11: Set your region to global .
“ibmcloud cr region-set global”

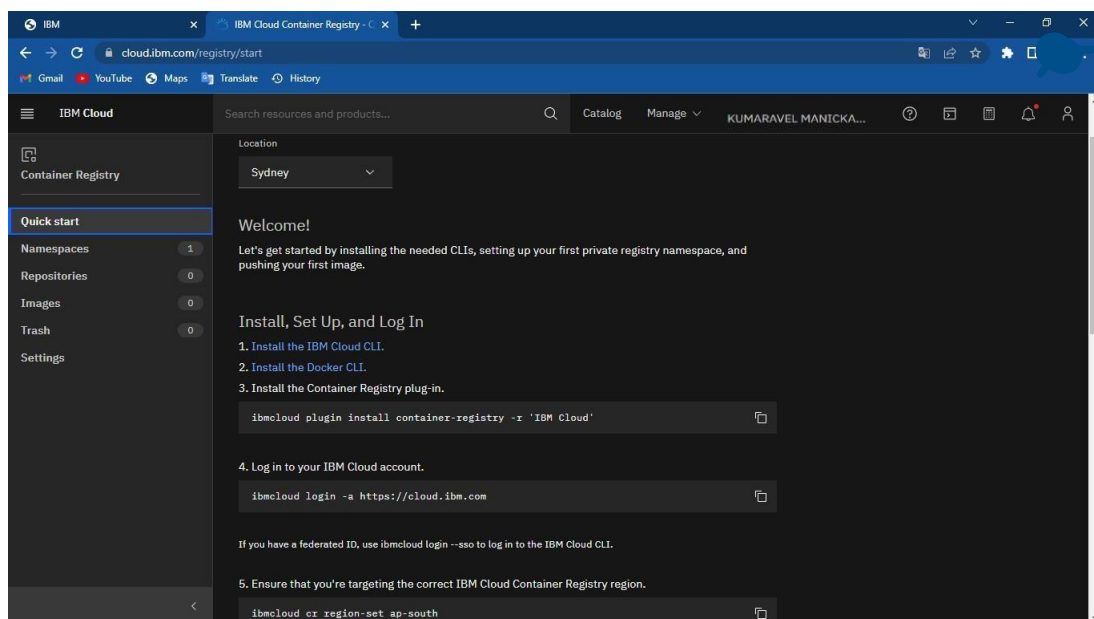


Step 12: Create namespace in your container registry

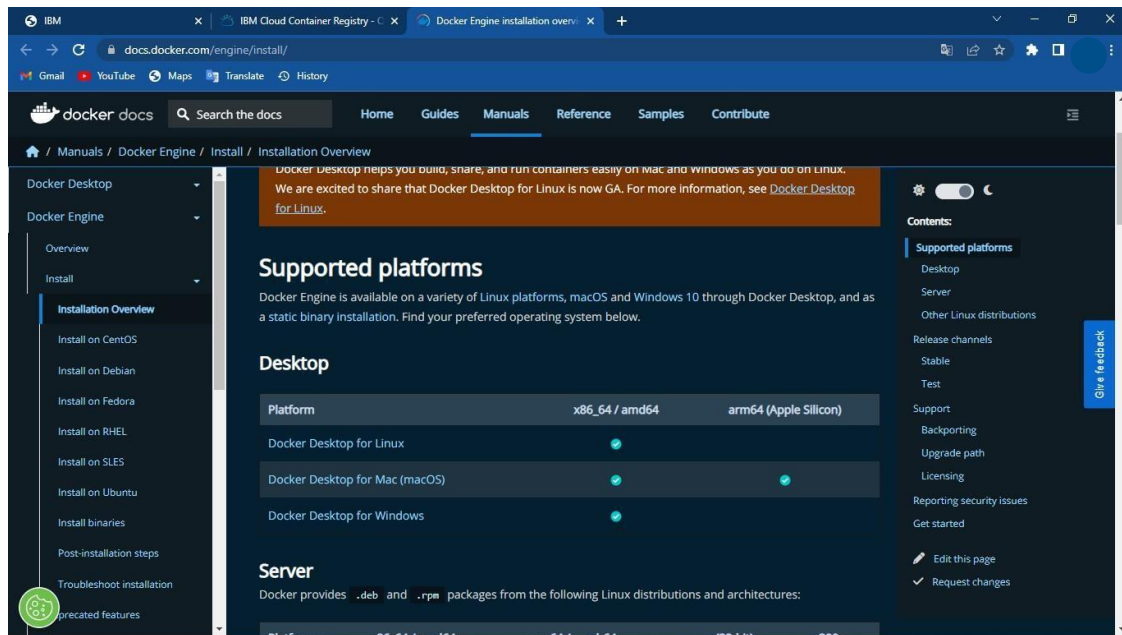


3. DOCKER CLI INSTALLATION:

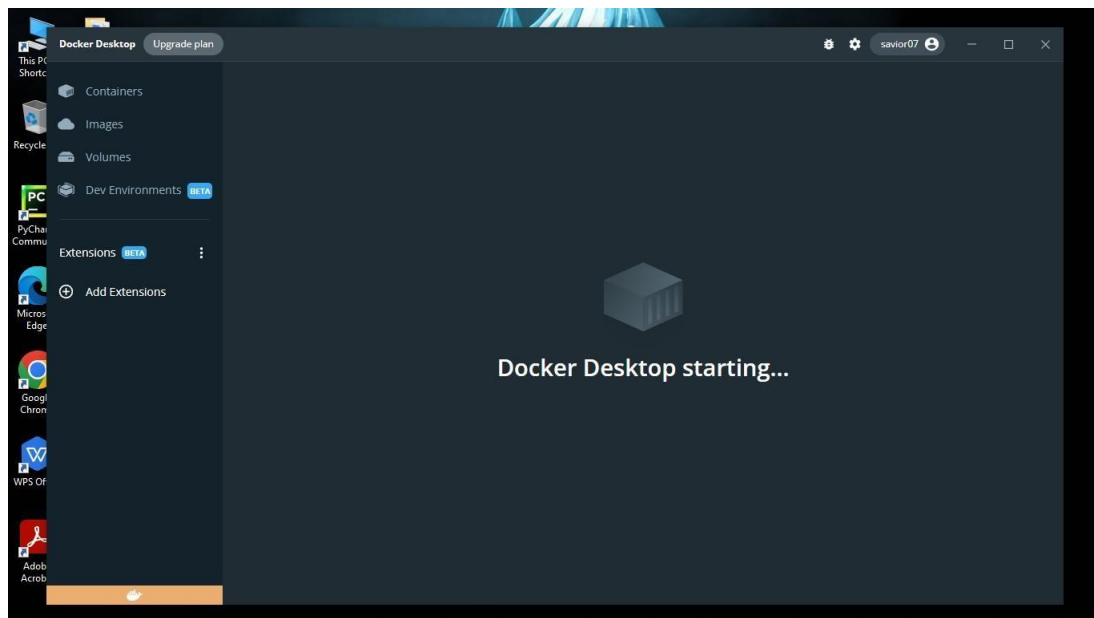
Step 1: Open container registry in IBM Cloud and click on Install Docker CLI.



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

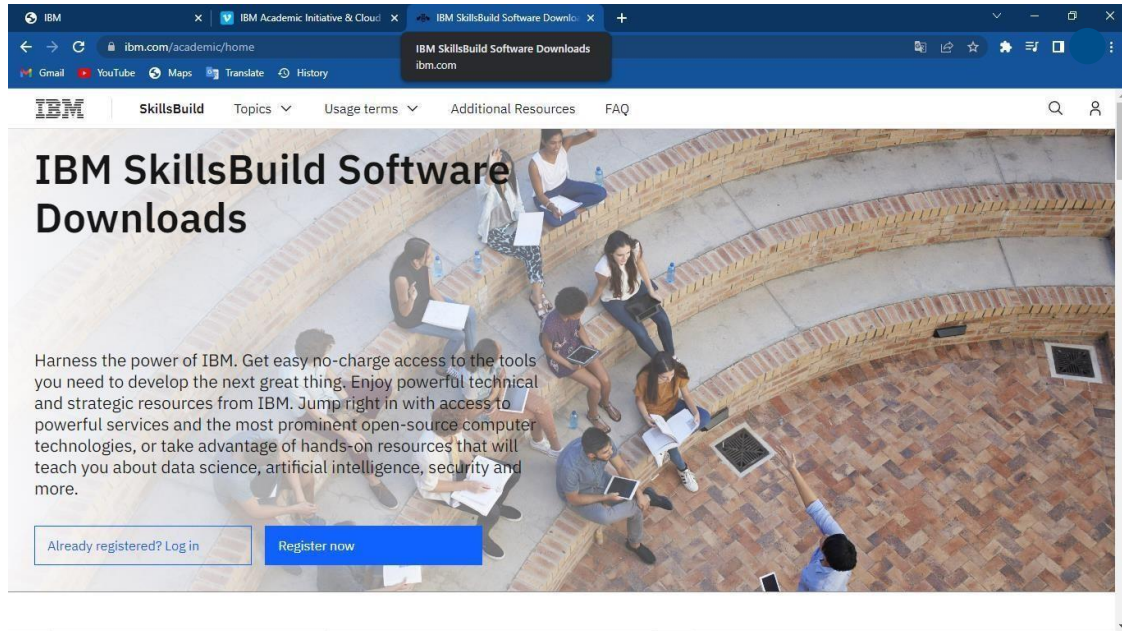


Step 3: After the setup download, run the setup and then open it and push the images, create the repository, etc....

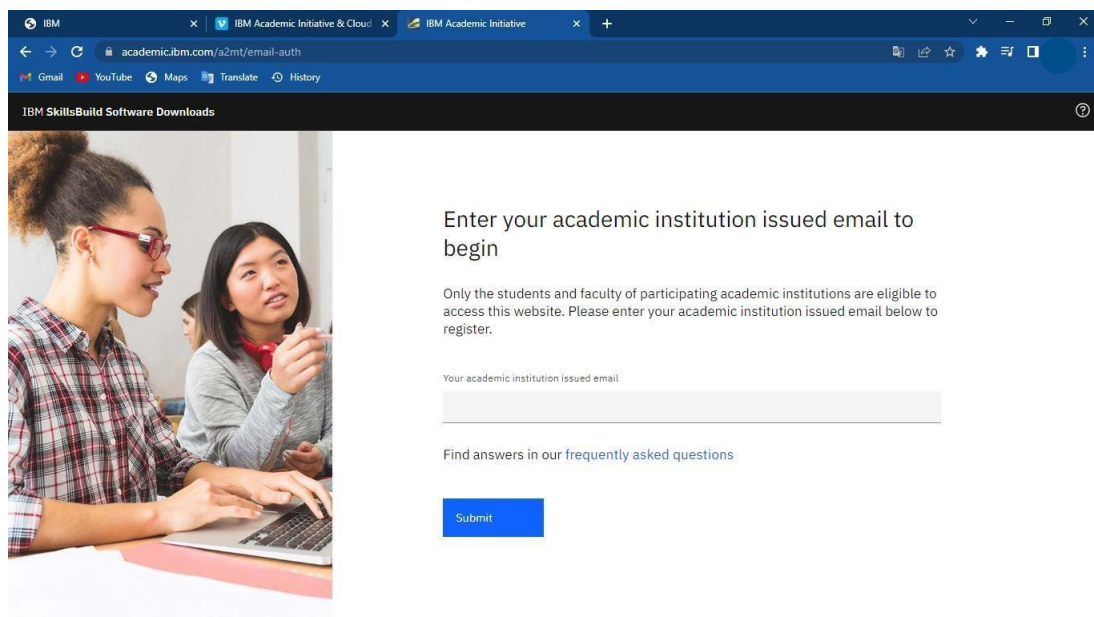


4. IBM CLOUD ACCOUNT CREATION:

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.



IBM

☰

⚙️ SETTINGS

Profile

Dashboard

Projects

Change Password


Support

Orientation Sessions

Training Calendar

Assignment & Quiz

Ask Me Anything Sessions



EBINEZER PAUL LAZER J

Last Login : 2022-11-09 11:49:41

ROLLNO : 512219104007

EMAIL : ebinezerlazer@skpec.in

MOBILE NUMBER : 7540075761

GENDER : M

DATE OF BIRTH : 31-07-2002

DEGREE : Bachelor of Engineering/Technology

BRANCH : Computer Science Engineering

YEAR OF PASSING : 2023

COLLEGE : S.K.P. ENGINEERING COLLEGE

ALTERNATE EMAIL :

SI EMAIL : 512219104007@smartinternz.com

SI PASSWORD : PNTIBMMq59

WEBMAIL : https://sg2plmcpnl496936.prod.sin2.secureserver.net:2096/

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

IBM Cloud

cloud.ibm.com

IBM Cloud

Search resources and products...

Catalog Manage KUMARAVEL MANICKA...

Dashboard

Edit dashboard Upgrade account Create resource

For you

Select an option

Build

Explore IBM Cloud with this selection of easy starter tutorials and services.

Getting started 20 min

Create a Kubernetes cluster

Automate deployments and manage your containerized apps in a native Kubernetes experience.

Getting started 20 min

Create an OpenShift cluster

Deploy apps on highly available clusters with Red Hat OpenShift on IBM Cloud.

Getting started 20 min

Plan your hosting environment

Learn how to plan, build, and manage your cloud infrastructure with IBM.

Recommended 2 min

API Connect

Expertly secure and manage your entire API ecosystem, including boosting social and monetization efforts, with IBM API Connect.

Recommended 2 min

Explore

Try a cloud approach developer

Getting started

User access

Manage users

Enter email addresses below to jump directly into the invite user setup:

News

View all

Announcing IBM Cloud Pak for Network Automation Version 2.4

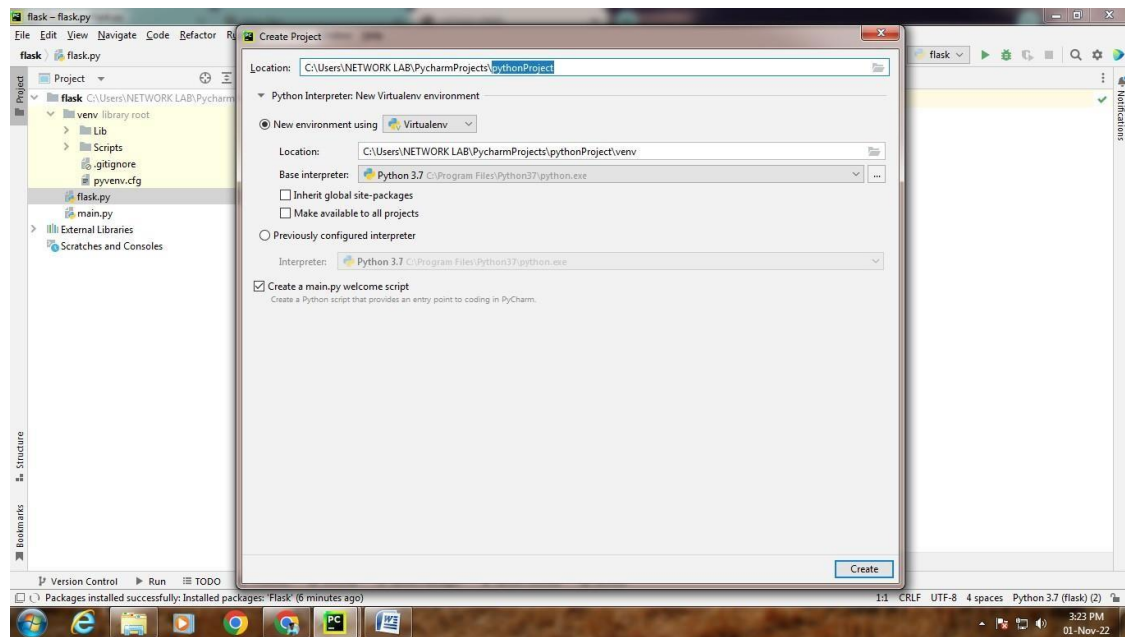
No Prerequisites for IBM Cloud Certifications

Planned maintenance

View all

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
```

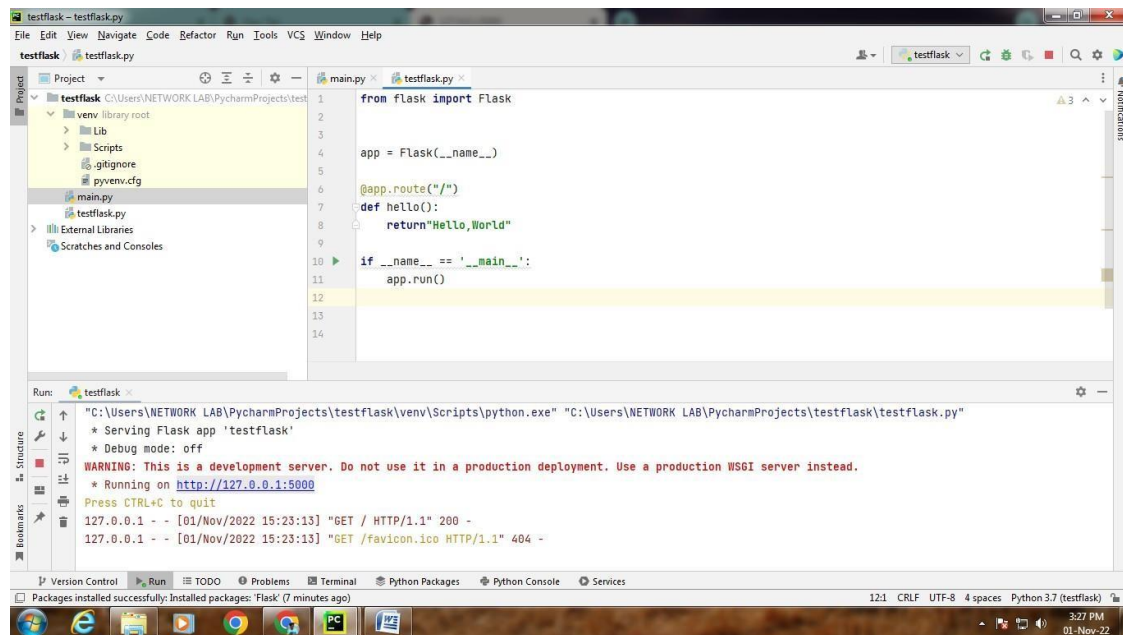
```
app = Flask(__name_)
```

```
@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.

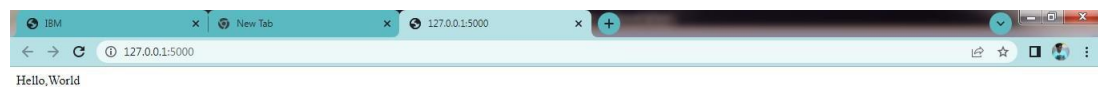


The screenshot shows the PyCharm IDE interface. The main editor displays a Python file named `testflask.py` with the following code:

```
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()
```

The Run tool window at the bottom shows the execution output for the `testflask` configuration:

```
"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.

