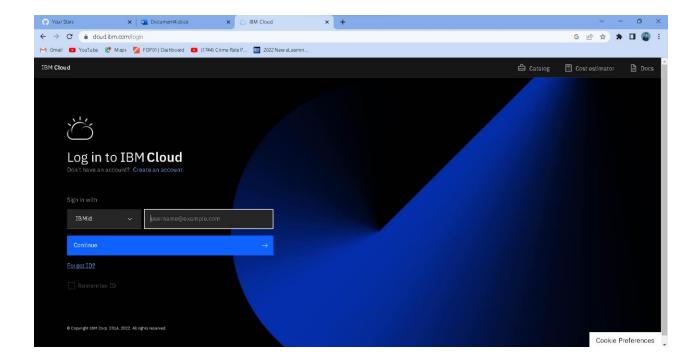
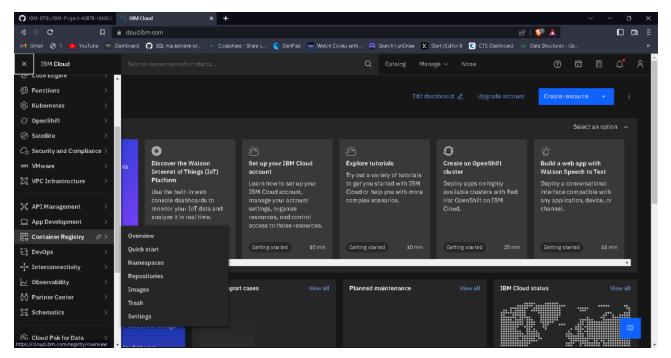
SETTING UP AN APPLICATION ENVIRONMENT

1. IBM CLOUD CLI INSTALLATION:

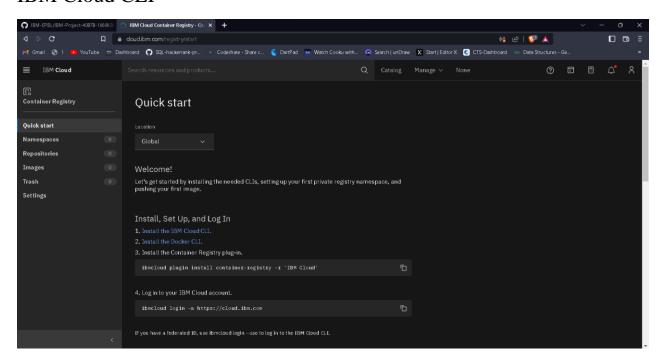
Step1: Log in to the IBM cloud



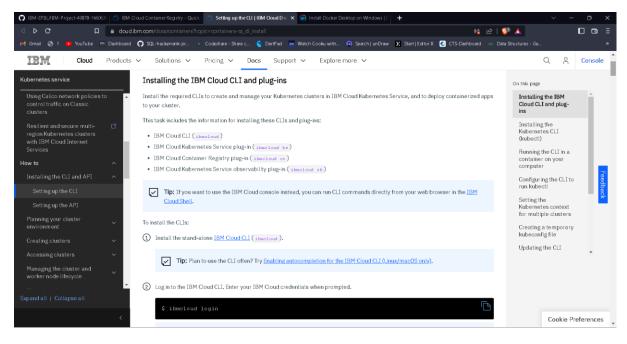
Step 2: Select container registry



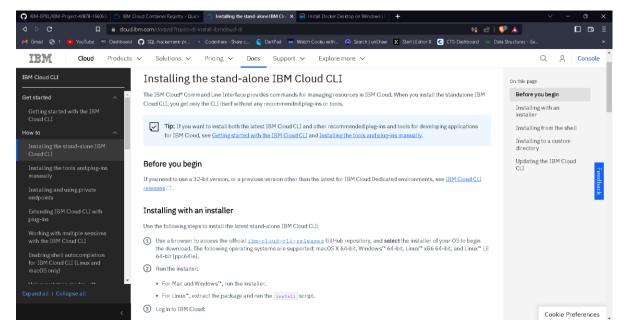
Step3: Select QuickStart to open container registry and click on install IBM Cloud CLI



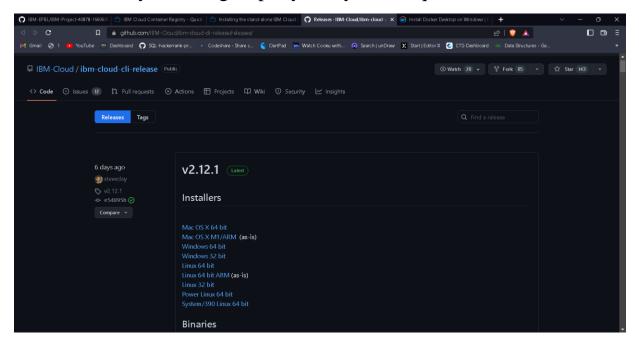
Step 4: Click on IBM Cloud CLI



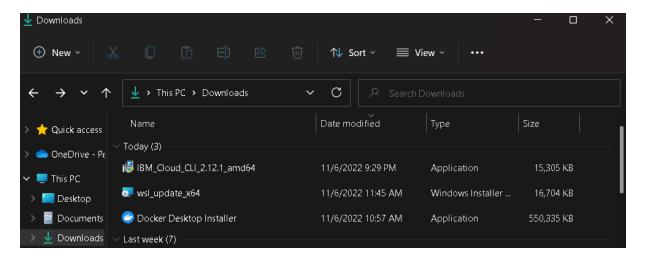
Step 5: And then, Click on IBM Cloud CLI releases



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

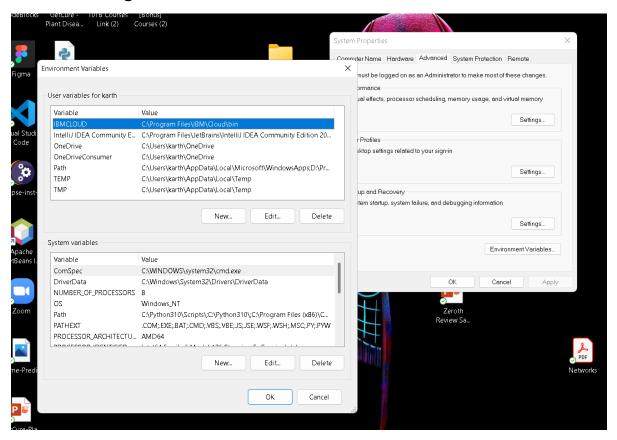


Step 7: After the download, Click the downloaded setup to run the installer.



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 display, select one of them for your targeted account.

C:\Users\karth>ibmcloud login

API endpoint: https://cloud.ibm.com

```
C:\Users\karth>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: us-east

Email> donaldvj17@gmail.com

Password>
Authenticating...
OK

Targeted account None (3de90de6135b45488710630b2d0e4372)

API endpoint: https://cloud.ibm.com
Region: us-east
User: donaldvj17@gmail.com
Account: None (3de90de6135b45488710630b2d0e4372)

Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
```

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"

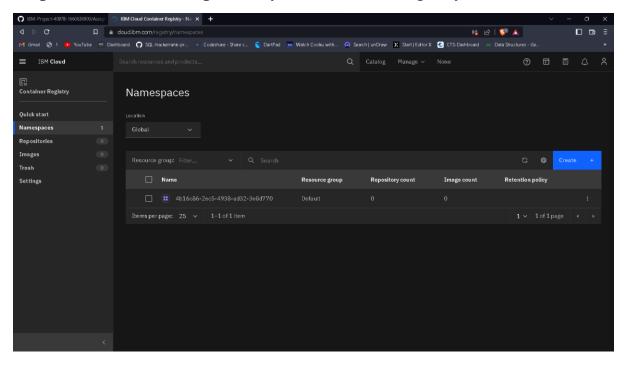
```
🖭 Command Prompt
NAME:
install - Install CLI plug-in
 ibmcloud plugin install (PLUGIN_NAME | [-a, --all]) [-r REPO_NAME] [-v VERSION] [-f] [-q, --quiet]
ibmcloud plugin install LOCAL-PATH/TO/PLUGIN | URL [-f] [-q, --quiet]
f no repository is specified, the command uses the official plug-in repository 'IBM Cloud'.
  installing a single plugin and no version is specified, the command selects the latest available version to install. the '-a, --all' flag is specified, the command installs all latest available plugins in the repository.
   ibmcloud plugin install --all
   ibmcloud plugin install --all -r MyRepo
ibmcloud plugin install http://example.com/downloads/my-plugin
   ibmcloud plugin install ~/Downloads/my-plugin
   ibmcloud plugin install plugin-echo
   ibmcloud plugin install plugin-echo -v 1.0.0
   ibmcloud plugin install plugin-echo -r MyRepo -v ~1.2 ibmcloud plugin install plugin-echo -v ">=0.3, <0.6" -f
OPTIONS:
                   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
 hen installing a single plugin.
                   Force installation of plugin(s) without confirmation
```

Step 11: Set your region to global.

"ibmcloud cr region-set global"

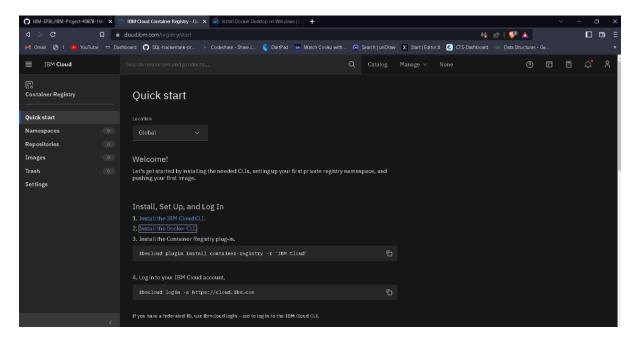
```
C:\Users\karth>ibmcloud cr region-set global
The region is set to 'global', the registry is 'icr.io'.
OK
```

Step 12: Create namespace in your container registry

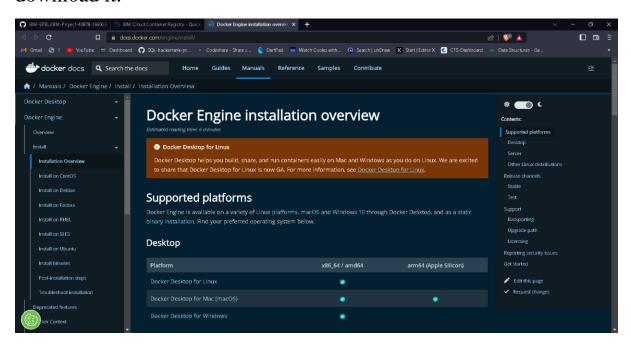


2. DOCKER CLI INSTALLATION:

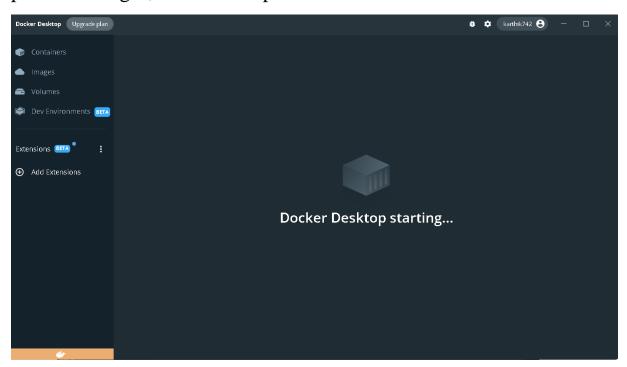
Step1: Open container registry in IBM cloud and click on Install Docker CLI.



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

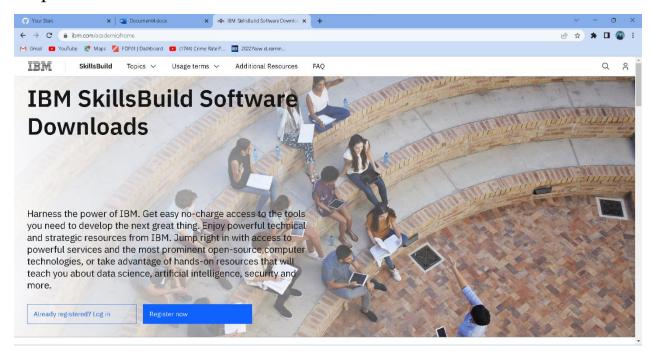


Step 3: After the setup download, run the setup and then open it and push the images, create the repositories.

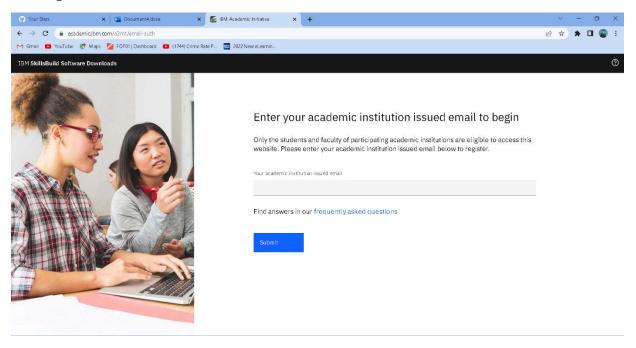


3.IBM CLOUD ACCOUNT CREATION:

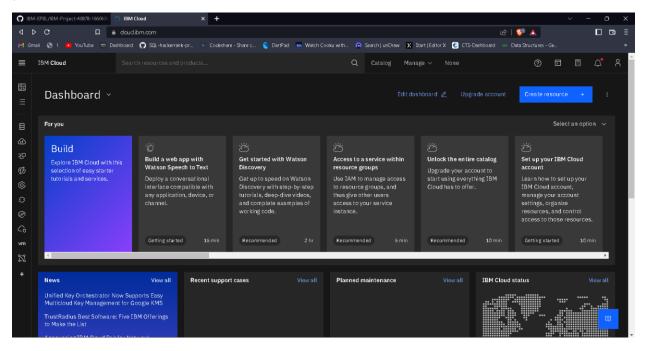
Step 1: Search for "ibm.com/academic" in the browser.



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.

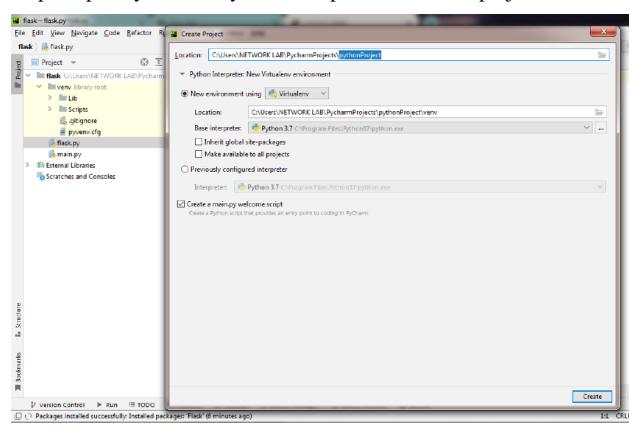


Step 3: After following the procedure that is given in reference video, your IBM cloud account will created.



4.CREATING A FLASK PROJECT:

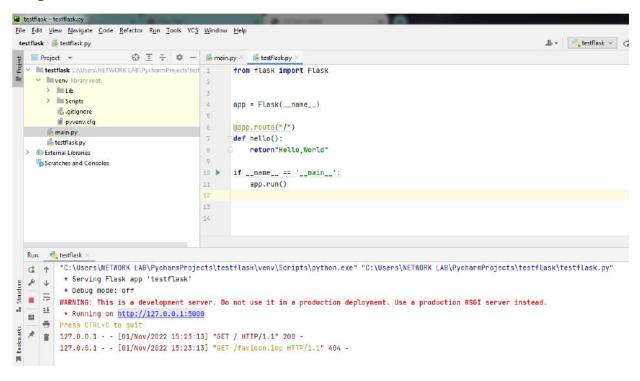
Step1: Open PyCharm in your desktop and create new project folder



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

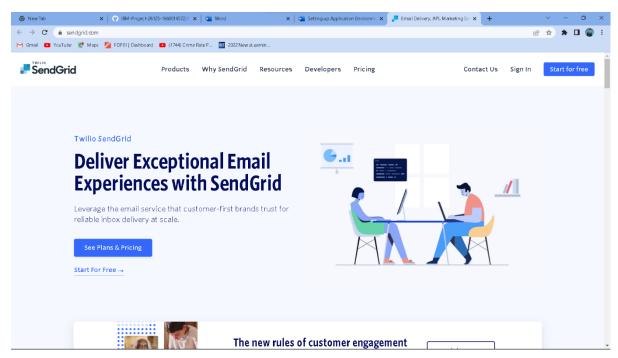


Step 4: By clicking the link in terminal, it will show "Hello World" in the browser page.



5. SENDGRID ACCOUNT CREATION:

Step1: Search for the SendGrid https://sendgrid.com/



Step 2: Registering new account and account is created.

