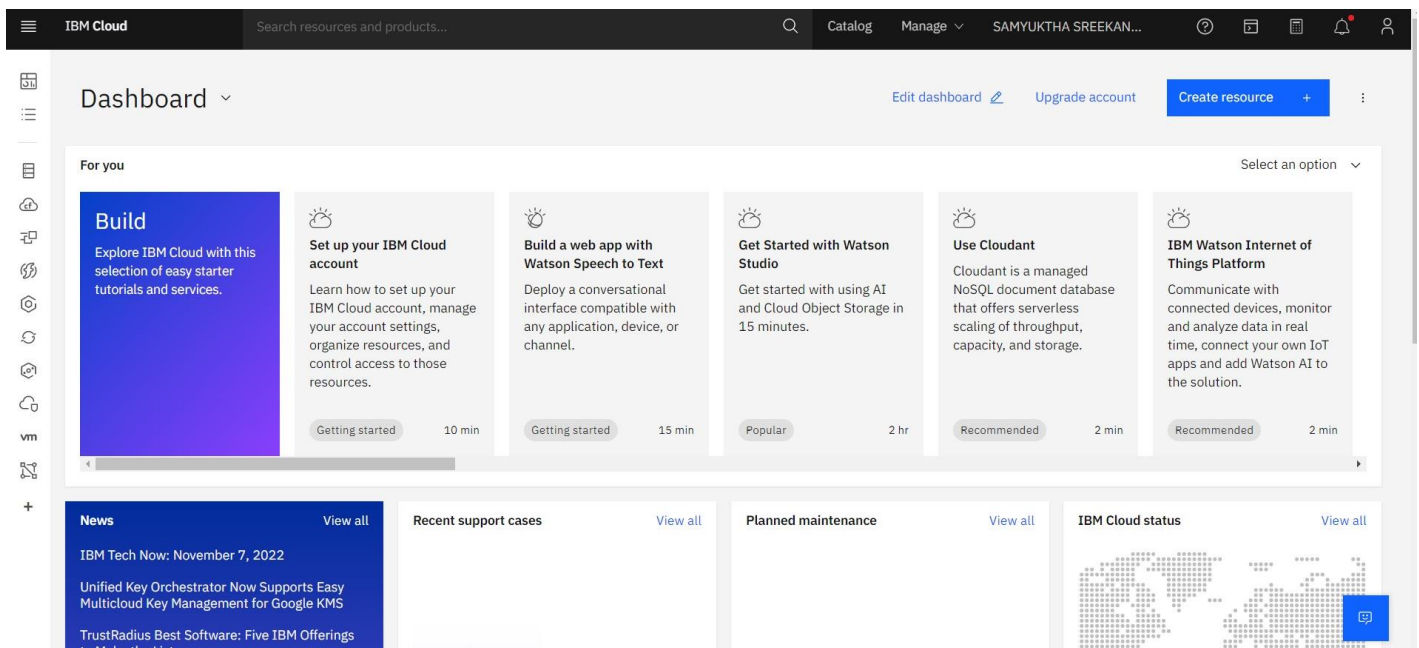
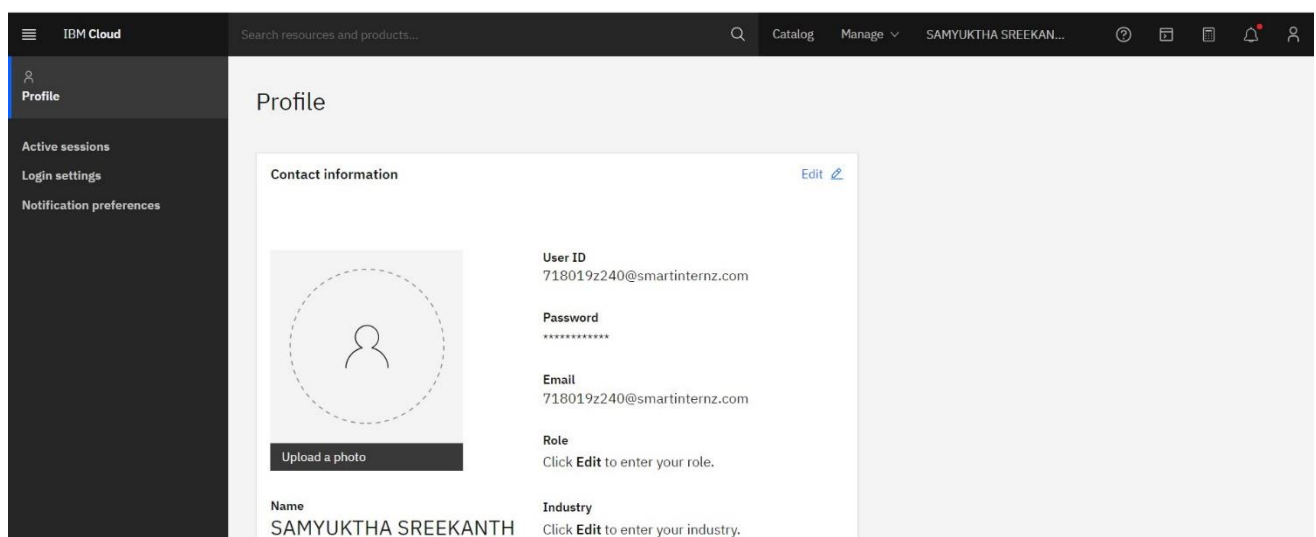


Component	Setting Up Application Environment
Team ID	PNT2022TMID12557
Project Name	Personal Expense Tracker Application

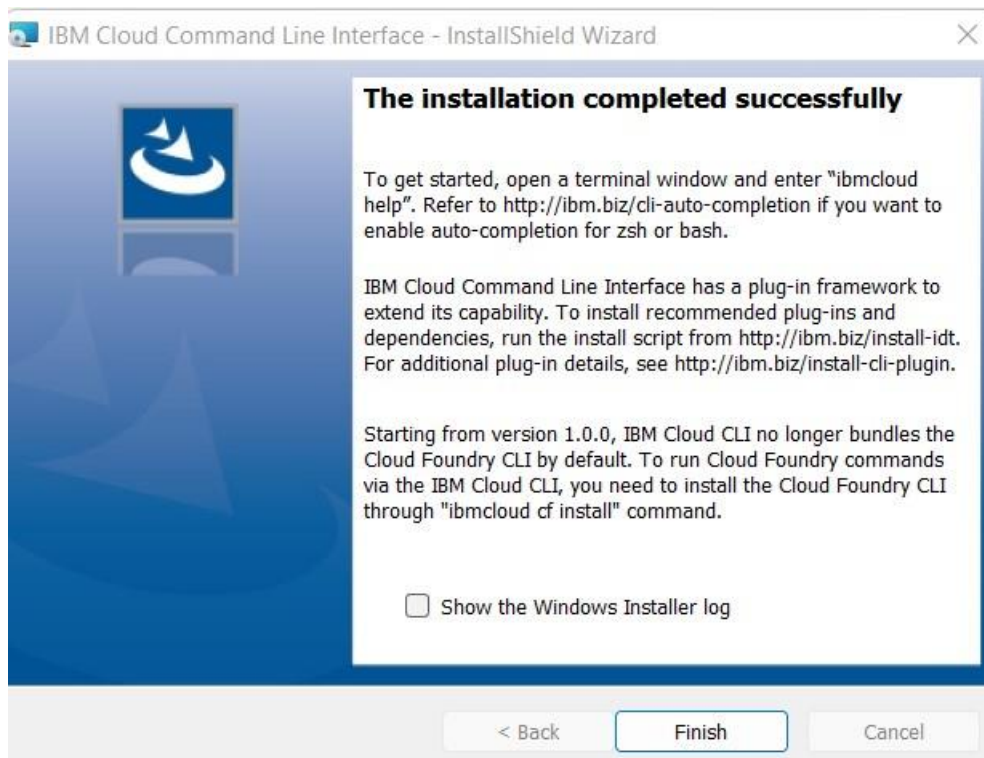
1. IBM Cloud Account Creation – Dashboard View



2. Profile View



3. IBM Cloud Command Line Installation



4. IBM cloud login using Power shell for CLI and user account integration

```
PS C:\WINDOWS\system32> ibmcloud login
API endpoint: https://cloud.ibm.com

Email> 718019z240@smartinternz.com

Password>
Authenticating...
OK

Targeted account SAMYUKTHA SREEKANTH's Account (44ce6397444a464faa0451ff58addb22)

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>

API endpoint:      https://cloud.ibm.com
Region:           718019z240@smartinternz.com
User:             718019z240@smartinternz.com
Account:          SAMYUKTHA SREEKANTH's Account (44ce6397444a464faa0451ff58addb22)
Resource group:   No resource group targeted, use 'C:\Program Files\IBM\Cloud\bin\ibmcloud.exe target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
```

5. CLI Updation

```
PS C:\WINDOWS\system32> iex (New-Object Net.WebClient).DownloadString('https://clis.cloud.ibm.com/install/powershell')
Current platform is Win64. Downloading corresponding IBM Cloud CLI...
Download complete. Executing installer...
Install complete. Please restart to make the modification effective.
PS C:\WINDOWS\system32> ibmcloud update
Checking for updates...
No update required. Your CLI is already up-to-date.
To view available plugin updates, run 'C:\Program Files\IBM\Cloud\bin\ibmcloud.exe plugin list'.
PS C:\WINDOWS\system32>
```

6. Plug Ins Installation

- Curl
- Cloud object storage
- Container-registry
- Container-service
- Cloud-Functions

Administrator: Windows PowerShell

```
PS C:\WINDOWS\system32> curl -LO https://storage.googleapis.com/kubernetes-release/release/v1.7.0/bin/windows/amd64/kubectl.exe
```

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
			Dload Upload	Total	Spent	Left	Speed
100	69.3M	100	69.3M	0	0	2814k	0 0:00:25 0:00:25 --:--:-- 4165k

```
PS C:\WINDOWS\system32> ibmcloud plugin install cloud-object-storage
```

```
Looking up 'cloud-object-storage' from repository 'IBM Cloud'...
```

```
Plug-in 'cloud-object-storage 1.6.0' found in repository 'IBM Cloud'
```

```
Attempting to download the binary file...
```

```
16.58 MiB / 16.58 MiB [=====]
```

```
17383936 bytes downloaded
```

```
Installing binary...
```

```
OK
```

```
Plug-in 'cloud-object-storage 1.6.0' was successfully installed into C:\Users\samsr\bluemix\plugins\cloud-object-storage. Use 'C:\Program Files\IBM\Cloud\bin\ibmcloud.exe plugin info cloud-object-storage' to view its details.
```

```
PS C:\WINDOWS\system32> 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...
```

```
11.90 MiB / 11.90 MiB [=====]
```

```
12476416 bytes downloaded
```

```
Installing binary...
```

```
OK
```

```
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\samsr\bluemix\plugins\container-registry. Use 'C:\Program Files\IBM\Cloud\bin\ibmcloud.exe plugin info container-registry' to view its details.
```

```
PS C:\WINDOWS\system32> ibmcloud plugin install container-service
```

```
Looking up 'container-service' from repository 'IBM Cloud'...
```

```
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' found in repository 'IBM Cloud'
```

```
Attempting to download the binary file...
```

```
26.86 MiB / 26.86 MiB [=====]
```

```
28168192 bytes downloaded
```

```
Installing binary...
```

```
OK
```

```
Plug-in 'container-service 1.0.459' was successfully installed into C:\Users\samsr\bluemix\plugins\container-service. Use 'C:\Program Files\IBM\Cloud\bin\ibmcloud.exe plugin info container-service' to view its details.
```

```
PS C:\WINDOWS\system32> curl -sL https://raw.githubusercontent.com/kubernetes/helm/master/scripts/get | bash
```

```
PS C:\WINDOWS\system32> ibmcloud plugin install cloud-functions
```

```
Looking up 'cloud-functions' from repository 'IBM Cloud'...
```

```
Plug-in 'cloud-functions[wsk/functions/fn] 1.0.61' found in repository 'IBM Cloud'
```

```
Attempting to download the binary file...
```

```
13.39 MiB / 13.39 MiB [=====]
```

```
14042112 bytes downloaded
```

7. Docker installation

 Installing Docker Desktop 4.13.1 (90346)



Docker Desktop 4.13.1

Installation succeeded

You must restart Windows to complete installation.

Close and restart

8. Creation of Account in SendGrid

 Your account has been created. Welcome to Twilio SendGrid—we're happy to have you! 



Please provide further information

You will not be able to send email through SendGrid until you provide more information. Please contact Support to answer a few more questions.

Contact Support



- Python and flask Installation

```

C:\Users\samsr>python --version
Python 3.9.6

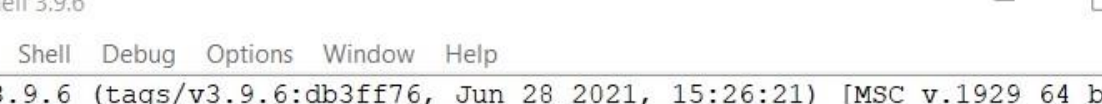
C:\Users\samsr>pip --version
pip 22.0.3 from c:\users\samsr\appdata\local\programs\python\python39\lib\site-packages\pip (python 3.9)

C:\Users\samsr>py -m flask --version
Python 3.9.6
Flask 2.0.2
Werkzeug 2.0.2

C:\Users\samsr>py -m pip --version
pip 22.0.3 from C:\Users\samsr\AppData\Local\Programs\Python\Python39\lib\site-packages\pip (python 3.9)

C:\Users\samsr>

```



The screenshot shows the IDLE Shell 3.9.6 window. The title bar reads "IDLE Shell 3.9.6". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main text area displays the following content:

```
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> import flask
>>> flask.__version__
'2.0.2'
>>>
```

[illegible]