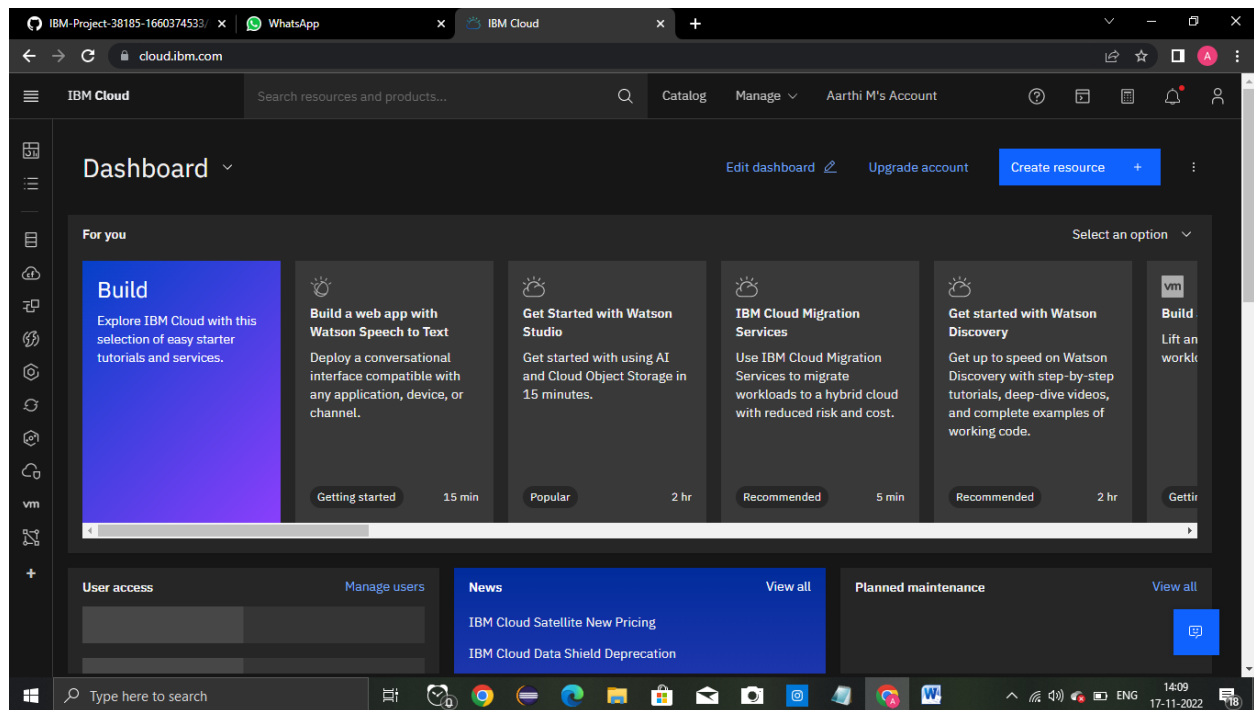
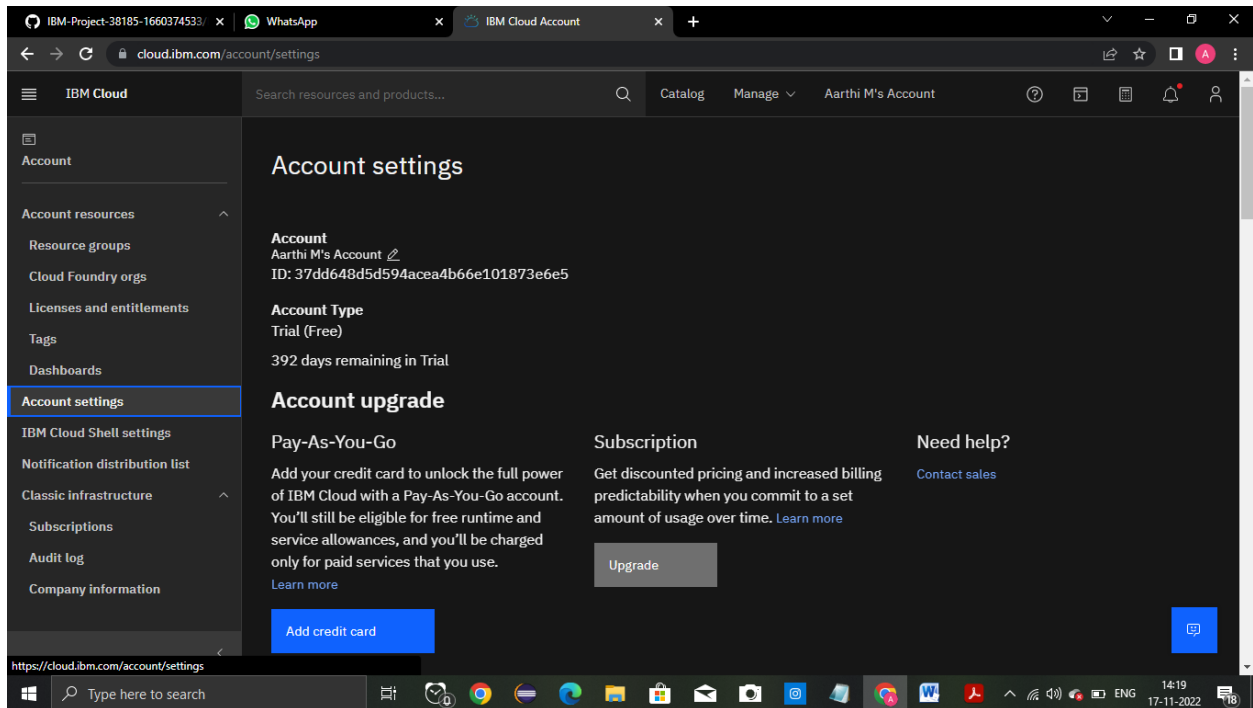
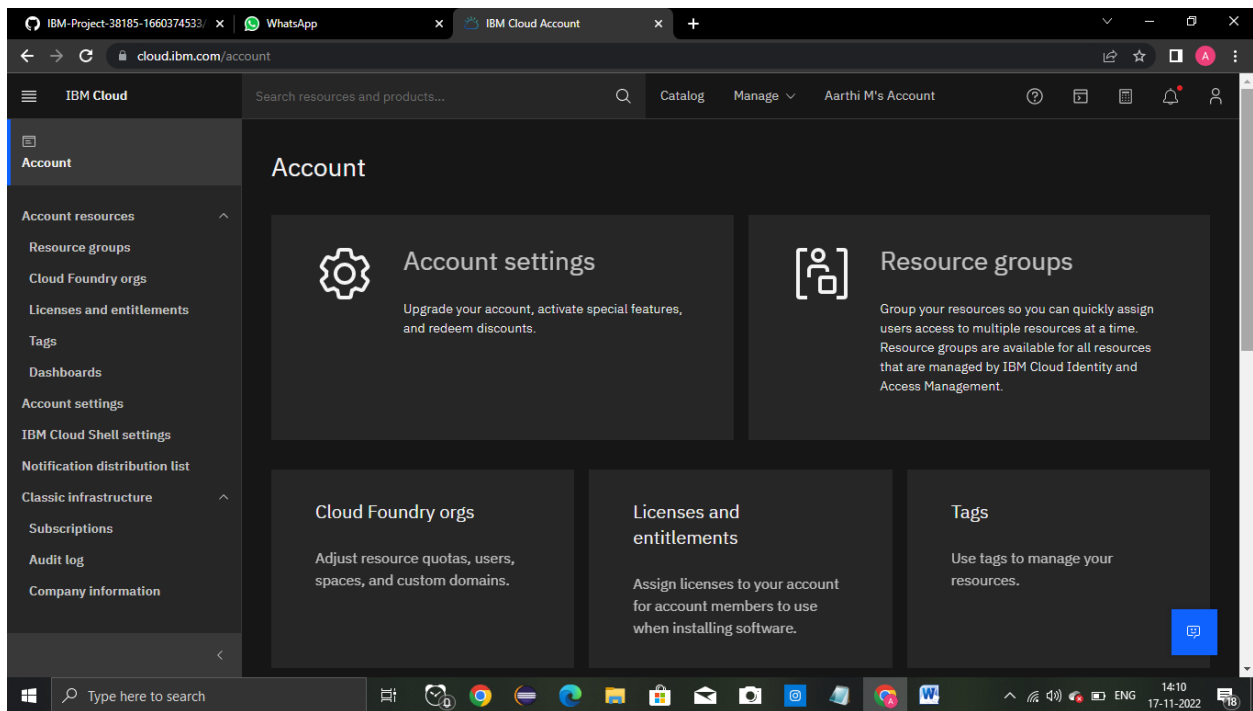


Prerequisites

Team ID	PNT2022TMID51132
Project Name	IoT Based Smart Crop Protection System for Agriculture

1. IBM- Cloud Account Creation





2. Python Installation

```
C:\Users\VP>pip install ibm-cos-sdk
Collecting ibm-cos-sdk
  Using cached ibm-cos-sdk-2.12.0.tar.gz (55 kB)
  Preparing metadata (setup.py) ... done
Collecting ibm-cos-sdk-core==2.12.0
  Downloading ibm-cos-sdk-core-2.12.0.tar.gz (956 kB)
    ----- 956.0/956.0 kB 44.9 kB/s eta 0:00:00
  Preparing metadata (setup.py) ... done
Collecting ibm-cos-sdk-s3transfer==2.12.0
  Downloading ibm-cos-sdk-s3transfer-2.12.0.tar.gz (135 kB)
    ----- 135.7/135.7 kB 47.8 kB/s eta 0:00:00
  Preparing metadata (setup.py) ... done
Collecting jmespath<1.0.0,>=0.10.0
  Downloading jmespath-0.10.0-py2.py3-none-any.whl (24 kB)
Collecting python-dateutil<3.0.0,>=2.8.2
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
    ----- 247.7/247.7 kB 65.9 kB/s eta 0:00:00
Collecting requests<3.0,>=2.27.1
  Downloading requests-2.28.1-py3-none-any.whl (62 kB)
    ----- 62.0/62.0 kB 26.1 kB/s eta 0:00:00
Collecting urllib3<1.27,>=1.26.9
  Downloading urllib3-1.26.12-py2.py3-none-any.whl (140 kB)
    ----- 140.4/140.4 kB 54.1 kB/s eta 0:00:00
Collecting six>=1.5
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting charset-normalizer<3,>=2
  Downloading charset_normalizer-2.1.1-py3-none-any.whl (39 kB)
Collecting certifi-2021.4.17
  Downloading certifi-2022.9.24-py3-none-any.whl (161 kB)
    ----- 161.1/161.1 kB 94.7 kB/s eta 0:00:00
Collecting idna<4,>=2.5
  Downloading idna-3.4-py3-none-any.whl (61 kB)
    ----- 61.5/61.5 kB 84.2 kB/s eta 0:00:00
Building wheels for collected packages: ibm-cos-sdk, ibm-cos-sdk-core, ibm-cos-sdk-s3transfer
  Building wheel for ibm-cos-sdk (setup.py) ... done
  Created wheel for ibm-cos-sdk: filename=ibm_cos_sdk-2.12.0-py3-none-any.whl size=73910 sha256=9c7e17265f10b1b44986ba3445d1a6d7b1a431f54f857ec00b6b8fa7ffc6b0f
  Stored in directory: c:\users\vp\appdata\local\pip\cache\wheels\53\89\fa\ef16b3874af57e2233ee18a43804db6879c3aa22c58d91b82
  Building wheel for ibm-cos-sdk-core (setup.py) ... done
  Created wheel for ibm-cos-sdk-core: filename=ibm_cos_sdk_core-2.12.0-py3-none-any.whl size=562947 sha256=cbf907d52e34a11c96ed9787ad487f3d2dc45fc5876684e425bbfca9e0be9680
  Stored in directory: c:\users\vp\appdata\local\pip\cache\wheels\72\24\c4\b930b91571fe128c286726f2055a26c95ae9fa323763d42b63
  Building wheel for ibm-cos-sdk-s3transfer (setup.py) ... done
  Created wheel for ibm-cos-sdk-s3transfer: filename=ibm_cos_sdk_s3transfer-2.12.0-py3-none-any.whl size=89765 sha256=7b3a7a9c204f507a329289d5560a6626bc3e991b7e6a850a61eab3455e265365
  Stored in directory: c:\users\vp\appdata\local\pip\cache\wheels\3f\bf\b6\4c18868ed27b686342eab42be15f0c0ac136d2dd9fb86b6aa8
Successfully built ibm-cos-sdk ibm-cos-sdk-core ibm-cos-sdk-s3transfer
Installing collected packages: urllib3, six, jmespath, idna, charset-normalizer, certifi, requests, python-dateutil, ibm-cos-sdk-core, ibm-cos-sdk-s3transfer, ibm-cos-sdk
Successfully installed certifi-2022.9.24 charset-normalizer-2.1.1 ibm-cos-sdk-2.12.0 ibm-cos-sdk-core-2.12.0 ibm-cos-sdk-s3transfer-2.12.0 idna-3.4 jmespath-0.10.0 python-dateutil-2.8.2 requests-2.28.1 six-1.16.0 urllib3-1.26.12
C:\Users\VP>
```

```
C:\Users\HP>pip install resources
Collecting resources
  Downloading resources-0.0.1.tar.gz (3.7 kB)
  Preparing metadata (setup.py) ... done
Building wheels for collected packages: resources
  Building wheel for resources (setup.py) ... done
  Created wheel for resources: filename=resources-0.0.1-py3-none-any.whl size=4349 sha256=432fa8af2f440f4ed44723d1c26659eae96f6e6013940f81a432203322fccce0
  Stored in directory: c:\users\hp\appdata\local\pip\cache\wheels\47\ab\06\76a30850b09cfa89a39a89f2b736ef6891d5d5a5fb53e3ab2f
Successfully built resources
Installing collected packages: resources
Successfully installed resources-0.0.1
```

```
C:\Users\HP>pip install cloudant
Collecting cloudant
  Downloading cloudant-2.15.0-py3-none-any.whl (80 kB)
----- 80.5/80.5 kB 33.8 kB/s eta 0:00:00
Requirement already satisfied: requests<3.0.0,>=2.7.0 in c:\python310\lib\site-packages (from cloudant) (2.28.1)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\python310\lib\site-packages (from requests<3.0.0,>=2.7.0->cloudant) (2.1.1)
Requirement already satisfied: idna<4,>=2.5 in c:\python310\lib\site-packages (from requests<3.0.0,>=2.7.0->cloudant) (3.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\python310\lib\site-packages (from requests<3.0.0,>=2.7.0->cloudant) (1.26.12)
Requirement already satisfied: certifi>=2017.4.17 in c:\python310\lib\site-packages (from requests<3.0.0,>=2.7.0->cloudant) (2022.9.24)
Installing collected packages: cloudant
Successfully installed cloudant-2.15.0
```

C:\Users\HP>

C:\Windows\system32\cmd.exe

```
C:\Users\HP>pip install boto3
Collecting boto3
  Using cached boto3-1.26.0-py3-none-any.whl (132 kB)
Requirement already satisfied: jmespath<2.0.0,>=0.7.1 in c:\python310\lib\site-packages (from boto3) (0.10.0)
Collecting s3transfer<0.7.0,>=0.6.0
  Using cached s3transfer-0.6.0-py3-none-any.whl (79 kB)
Collecting botocore<1.30.0,>=1.29.0
  Downloading botocore-1.29.0-py3-none-any.whl (9.8 MB)
----- 9.8/9.8 MB 111.5 kB/s eta 0:00:00
Requirement already satisfied: python-dateutil<3.0.0,>=2.1 in c:\python310\lib\site-packages (from botocore<1.30.0,>=1.29.0->boto3) (2.8.2)
Requirement already satisfied: urllib3<1.27,>=1.25.4 in c:\python310\lib\site-packages (from botocore<1.30.0,>=1.29.0->boto3) (1.26.12)
Requirement already satisfied: six>=1.5 in c:\python310\lib\site-packages (from python-dateutil<3.0.0,>=2.1->botocore<1.30.0,>=1.29.0->boto3) (1.16.0)
Installing collected packages: botocore, s3transfer, boto3
Successfully installed boto3-1.26.0 botocore-1.29.0 s3transfer-0.6.0
```

C:\Users\HP>

```
C:\Users\HP>pip install -U ibm-cos-sdk
Requirement already satisfied: ibm-cos-sdk in c:\python310\lib\site-packages (2.12.0)
Requirement already satisfied: ibm-cos-sdk-core==2.12.0 in c:\python310\lib\site-packages (from ibm-cos-sdk) (2.12.0)
Requirement already satisfied: jmespath<1.0.0,>=0.10.0 in c:\python310\lib\site-packages (from ibm-cos-sdk) (0.10.0)
Requirement already satisfied: ibm-cos-sdk-s3transfer==2.12.0 in c:\python310\lib\site-packages (from ibm-cos-sdk) (2.12.0)
Requirement already satisfied: python-dateutil<3.0.0,>=2.8.2 in c:\python310\lib\site-packages (from ibm-cos-sdk-core==2.12.0->ibm-cos-sdk) (2.8.2)
Requirement already satisfied: requests<3.0,>=2.27.1 in c:\python310\lib\site-packages (from ibm-cos-sdk-core==2.12.0->ibm-cos-sdk) (2.28.1)
Requirement already satisfied: urllib3<1.27,>=1.26.9 in c:\python310\lib\site-packages (from ibm-cos-sdk-core==2.12.0->ibm-cos-sdk) (1.26.12)
Requirement already satisfied: six>=1.5 in c:\python310\lib\site-packages (from python-dateutil<3.0.0,>=2.8.2->ibm-cos-sdk-core==2.12.0->ibm-cos-sdk) (1.16.0)
Requirement already satisfied: certifi>=2017.4.17 in c:\python310\lib\site-packages (from requests<3.0,>=2.27.1->ibm-cos-sdk-core==2.12.0->ibm-cos-sdk) (2022.9.24)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\python310\lib\site-packages (from requests<3.0,>=2.27.1->ibm-cos-sdk-core==2.12.0->ibm-cos-sdk) (2.1.1)
Requirement already satisfied: idna<4,>=2.5 in c:\python310\lib\site-packages (from requests<3.0,>=2.27.1->ibm-cos-sdk-core==2.12.0->ibm-cos-sdk) (3.4)
```

3. Create an Account in Clarifai

The screenshot shows the Clarifai website homepage. The browser's address bar displays 'clarifai.com'. The top navigation bar includes links for 'Solutions', 'Platform', 'Explore Community', 'Company', 'Support', and 'Pricing'. A blue banner at the top features the headline 'The World's AI™ Audio' and a sub-headline 'Clarifai named a Leader in IDC MarketScape: Worldwide General-Purpose Computer Vision AI Software Platforms 2022.' Below the headline, there are two buttons: 'Download report' and 'Request a demo'. To the right of the text, there is a graphic showing the IDC MarketScape report cover and a chart titled 'IDC MarketScape Worldwide General-Purpose Computer Vision AI Software Platforms, 2022'. The chart is a bubble chart with various companies plotted, including Google, Microsoft, Amazon, Facebook, and Clarifai. The bottom of the page shows a Windows taskbar with various application icons and a system clock indicating 14:38 on 17-11-2022.

Exciting news ★ The IDC MarketScape names Clarifai a Leader for Computer Vision AI Software Platforms. [Download now](#) → [Join Slack Group](#) [Login](#)

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The World's AI™ Audio

Clarifai named a Leader in IDC MarketScape: Worldwide General-Purpose Computer Vision AI Software Platforms 2022.

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https://clarifai.com/signup?utm_source=clarifai&utm_medium=referral

Type here to search

14:38 17-11-2022

IBM-Project-38185-1f x WhatsApp x IBM Cloud Account x PDF to Word Convert x The World's AI | Clarifai x Clarifai Community x

clarifai.com/signup?utm_source=clarifai&utm_medium=referral

Clarifai named a Leader in IDC MarketScape

Read our vendor assessment in IDC MarketScape: Worldwide General-Purpose Computer Vision AI Software Platforms.

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IBM-Project-38185-1f x WhatsApp x IBM Cloud Account x PDF to Word Convert x The World's AI | Clarifai x Clarifai Community x Clarifai | Terms of Service x Clarifai | Privacy Policy x

clarifai.com/5zqabl2swv1/apps

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In the spirit of community, please tell us more about yourself.

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Job Title Select your Job Role

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Aarthi M
5zqabl2swv1
[Edit Profile](#)

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