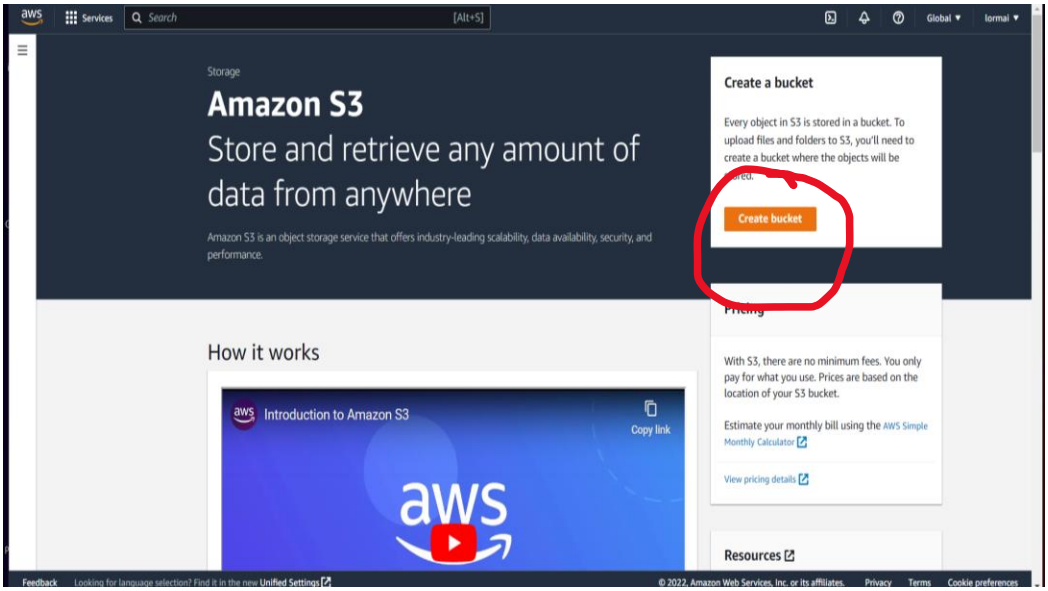
Team 3 –Prototype Version 1

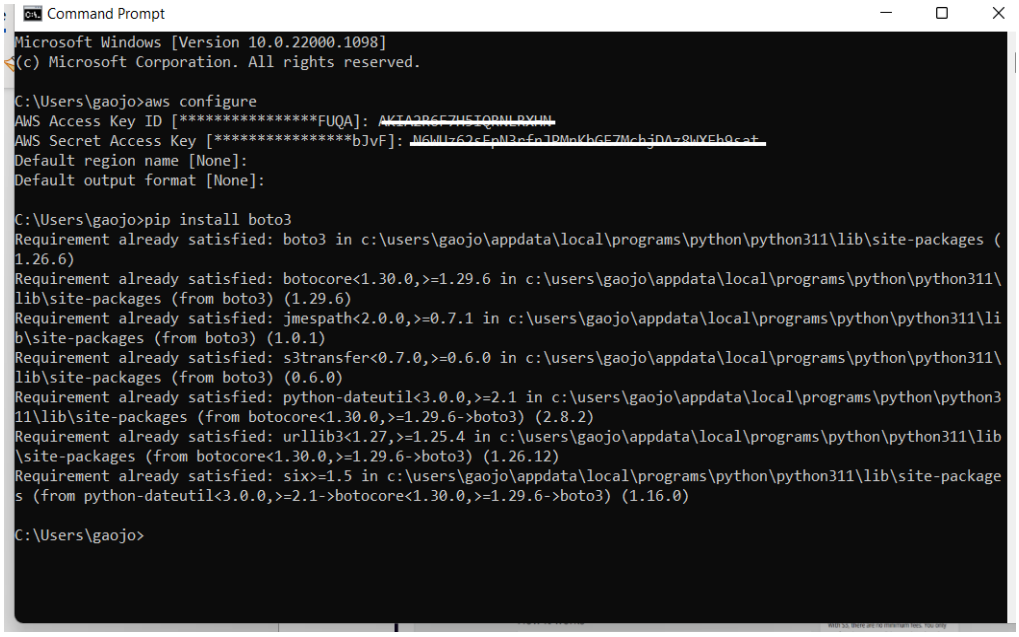
Prototype uses the following Use Case: Uploading File

Before being able to upload files or do anything with AWS s3 Bucket, you must create an account here. Next, you will want to create a bucket where your objects will be stored in.



When you create a bucket, you will name your bucket. No special characters and names that has been used. After creating the bucket, you will create or generate a policy and assign it to a user. That way, the user can have access to the bucket through ACL, SDK ,etc... Creating a user will generate an access key and secret key; these allows users the authorized user to get into the bucket. You will download the access key and secret key. You will use command prompt to connect to the bucket. You will use the command:

aws configure



It will ask for the access key and the secret key along with the region that you are using.

To begin uploading in the bucket, I am connected to AWS CLI and using Pycharm which allows me to use boto3 from python. I will import boto3; boto3 allows you to build applications on top of AWS S3 and many other services on AWS.

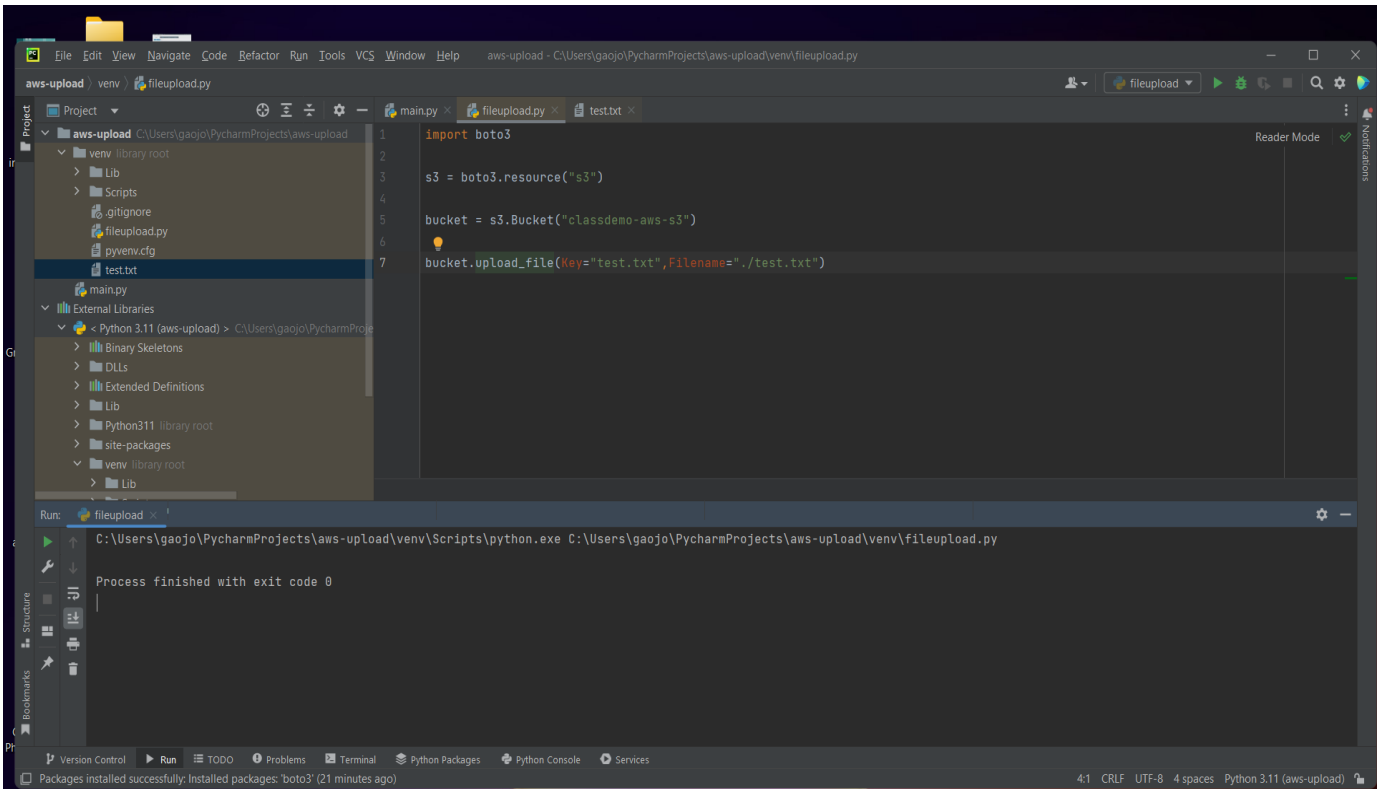
Next I need to call my bucket using

Bucket = s3.Bucket(“name of bucket”)

To upload:

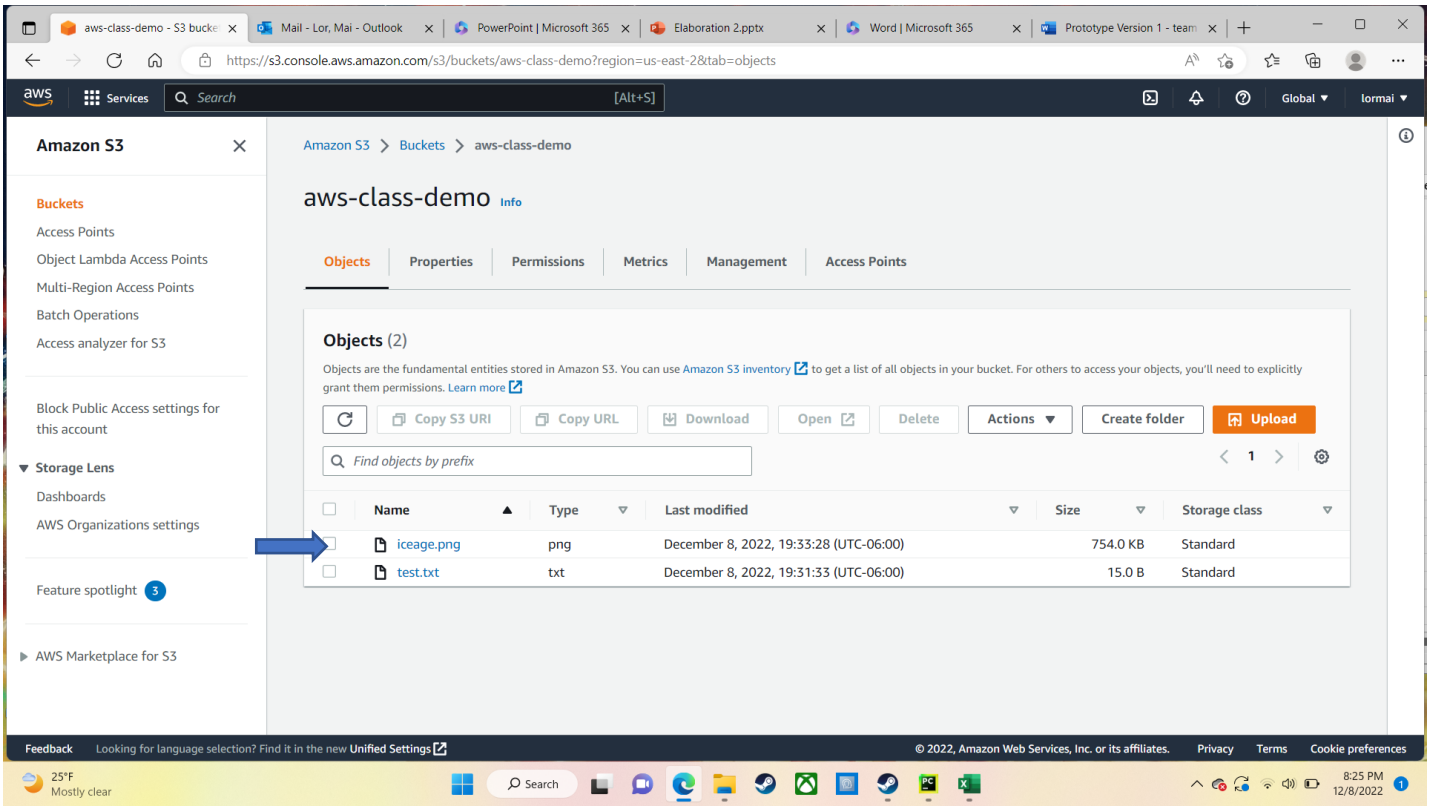
Bucket.upload_file(Key=”name of file uplaoding”,Filename= “./location”

This is the full prototype:

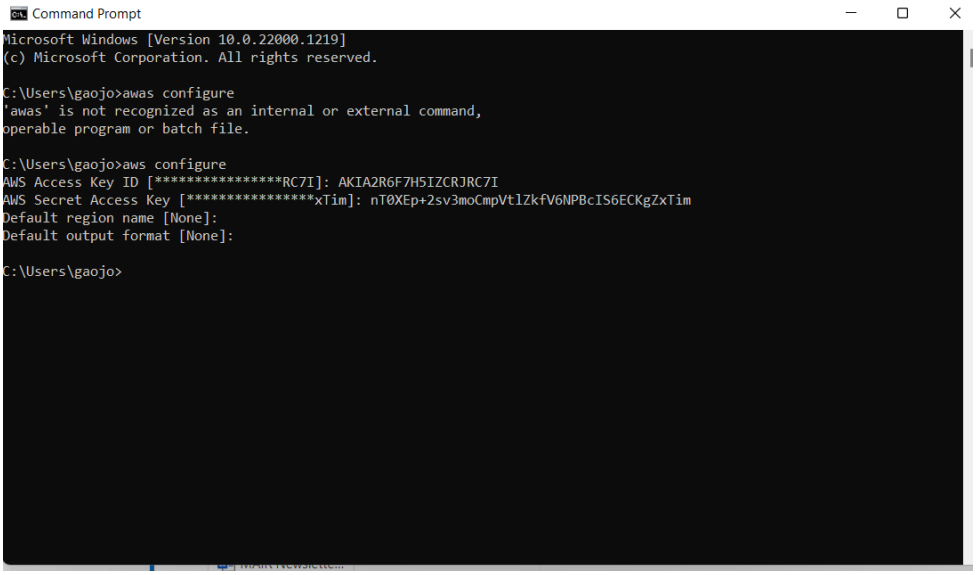


Demo #2 : Demonstrating downloading object use case

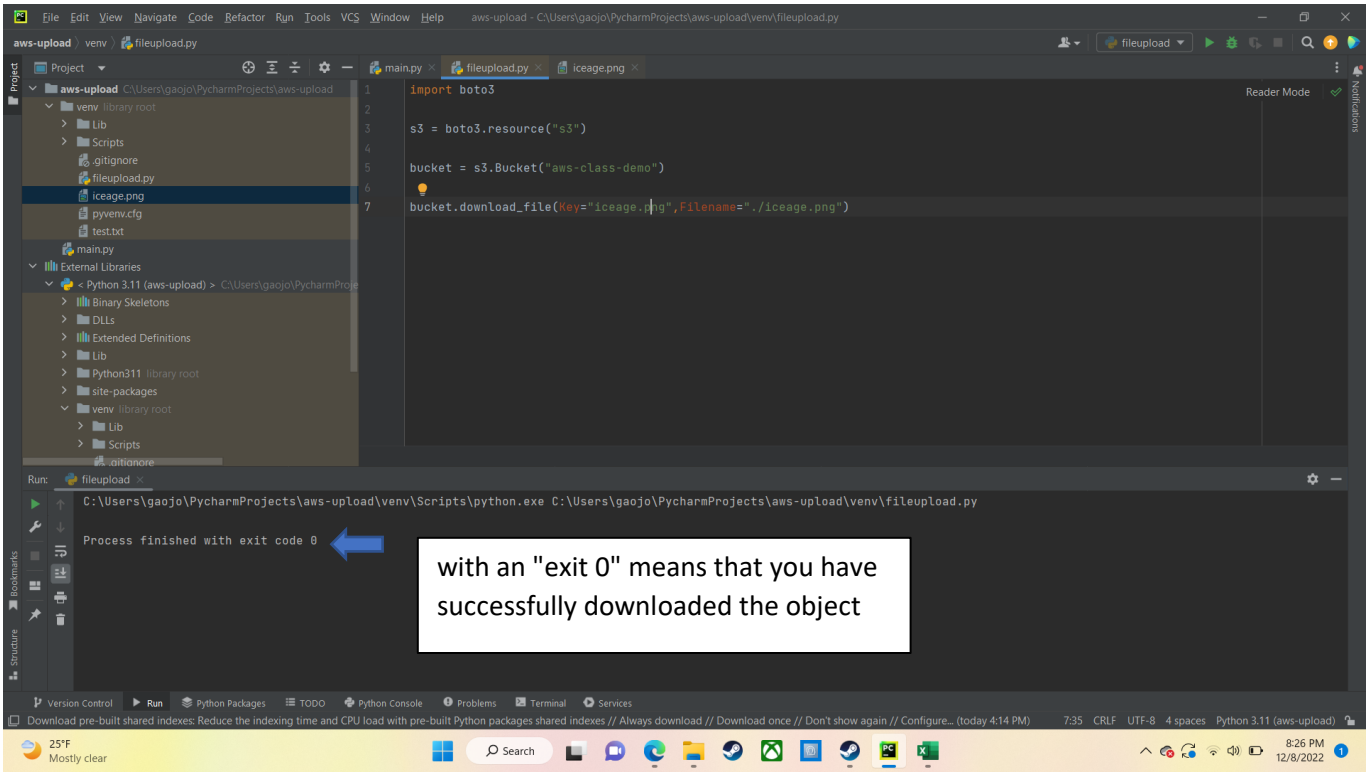
In this second demo, I demonstrated downloading an image from my AWS S3 bucket to my domain user; downloading object use case. In my bucket, I have already downloaded an image which of ice age and the goal is to download that.

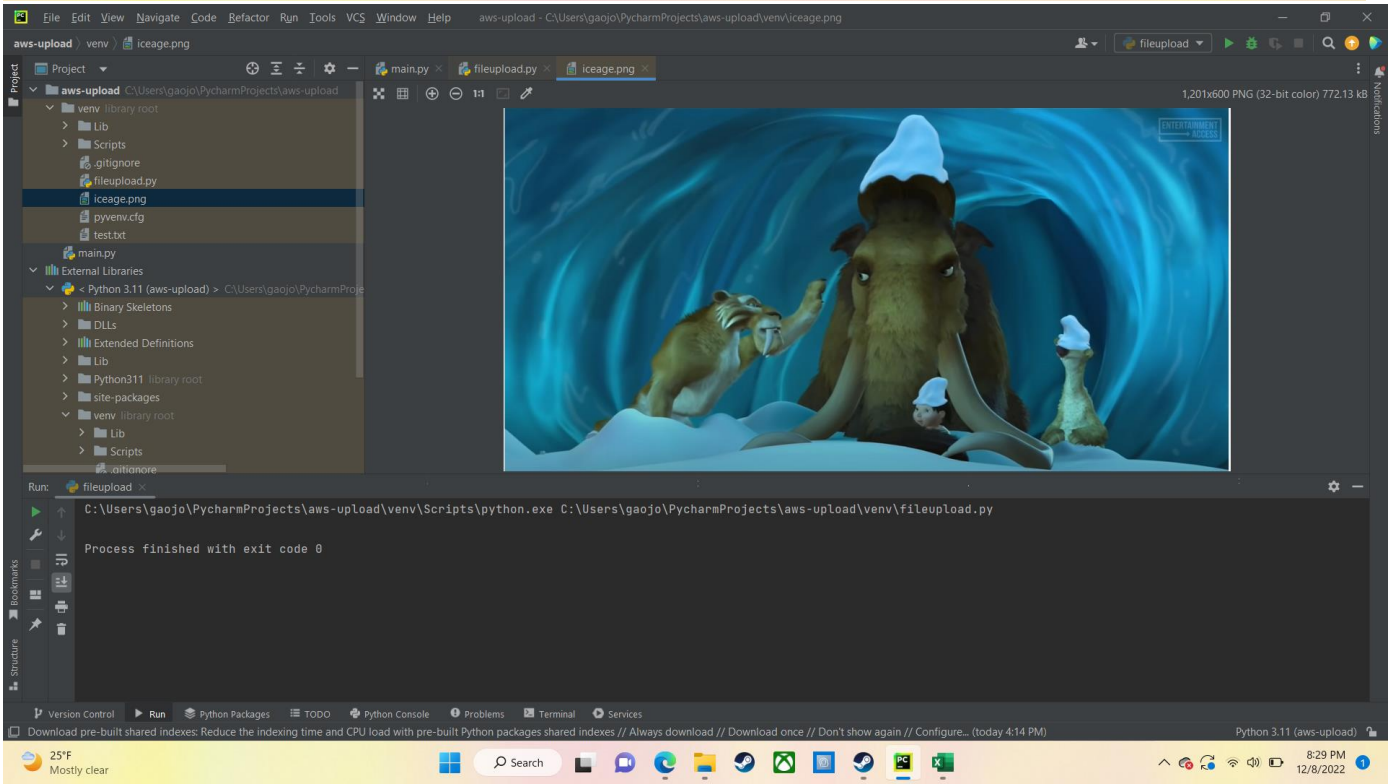


Once again, we are logging in out command prompt to get access into the bucket with the provided access key and secret key



After logging in, I import boto3 which is the SDK for python language that allows me to manage AWS services.


import boto3
s3 = boto3.resource("s3")
bucket = s3.Bucket("aws-class-demo")
bucket.download_file(Key="iceage.png",Filename="./iceage.png")
C:\Users\gaojo\PycharmProjects\aws-upload\venv\Scripts\python.exe C:\Users\gaojo\PycharmProjects\aws-upload\venv\fileupload.py
Process finished with exit code 0
with an "exit 0" means that you have successfully downloaded the object


C:\Users\gaojo\PycharmProjects\aws-upload\venv\Scripts\python.exe C:\Users\gaojo\PycharmProjects\aws-upload\venv\fileupload.py
Process finished with exit code 0

Resources:

AWS S3 MultiPart Upload with Python and Boto3 | by Niyazi Erdoğan | Medium

Uploading objects - Amazon Simple Storage Service

How To Write A File Or Data To An S3 Object Using Boto3 - Stack Vidhya

Upload and Download files from AWS S3 Bucket using python 2022 - Bing video