BOTO3

Part 1 Installation and Configuration

I opened an IDE on Cloud9, configured before using boto3. In order to see aws cli version ‘aws —version’
To install Boto3 typed ‘pip install boto3 ‘.

```
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.7/site-packages (from python-dateutil<3.0.0,>=2.1->botocore<1.30.0,>=1.29.1
61->boto3) (1.16.0)
Installing collected packages: botocore, s3transfer, boto3
Successfully installed boto3-1.26.161 botocore-1.29.161 s3transfer-0.6.1
```

To see installed packages ‘pip freeze

```
Umit:~/environment $ pip freeze
astroid==2.3.3
aws-cfn-bootstrap==2.0
backcall==0.2.0
boto3==1.26.161
botocore==1.29.161
decorator==5.1.1
Django==2.0.2
docutils==0.14
git-remote-codecommit==1.16
ikp3db==1.4.1
importlib-metadata==6.7.0
ipython==7.34.0
isort==4.3.21
jedi==0.18.2
jmespath==1.0.1
lazy-object-proxy==1.4.3
lockfile==0.11.0
matplotlib-inline==0.1.6
mccabe==0.6.1
parso==0.8.3
pbr==5.11.1
pexpect==4.8.0
pickleshare==0.7.5
prompt-toolkit==3.0.38
ptyprocess==0.7.0
Pygments==2.15.1
pylint==2.4.4
pylint-django==2.3.0
pylint-flask==0.6
pylint-plugin-utils==0.8.2
pystache==0.5.4
python-daemon==2.2.3
python-dateutil==2.8.2
pytz==2023.3
s3transfer==0.6.1
```

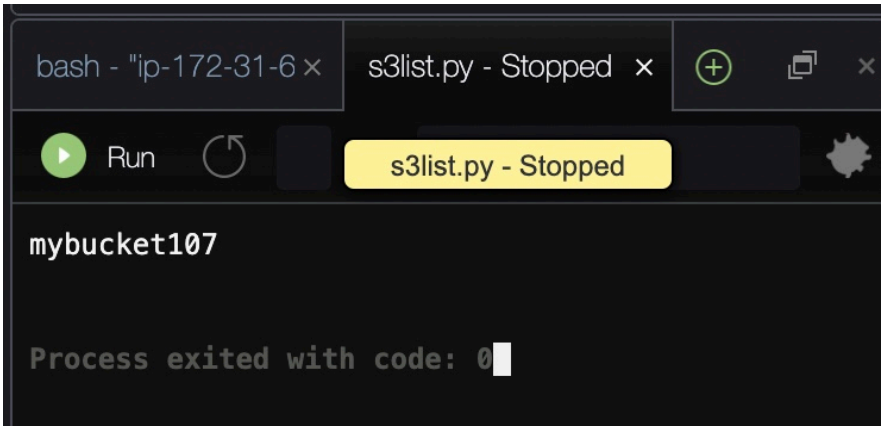
Part 2 Example of Boto3 usage

I create a file called s3list.py and put the code.

Welcome × s3list.py ×

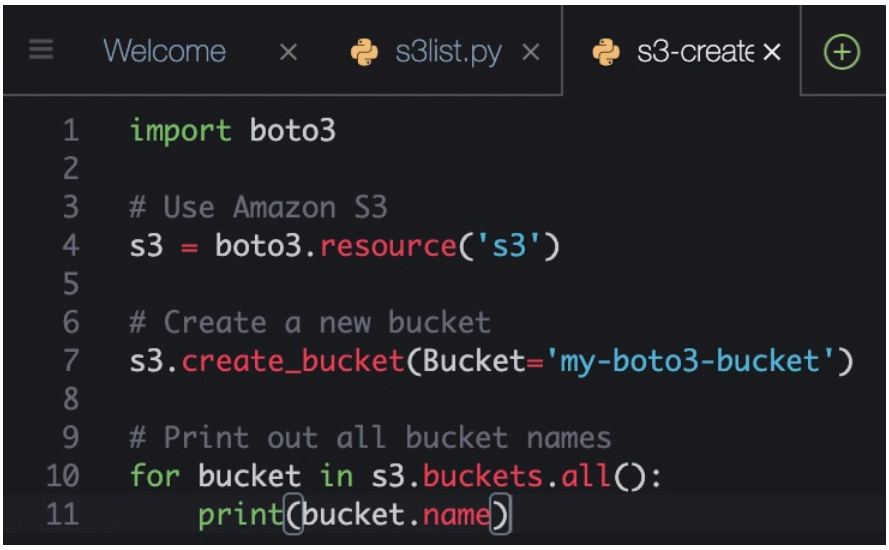
```
1  import boto3
2
3  # Use Amazon S3
4  s3 = boto3.resource('s3')
5
6  # Print out all bucket names
7  for bucket in s3.buckets.all():
8      print(bucket.name)
```

After creating a bucket called mybucket107 and then hit on the run button you can see your bucket on Cloud9.

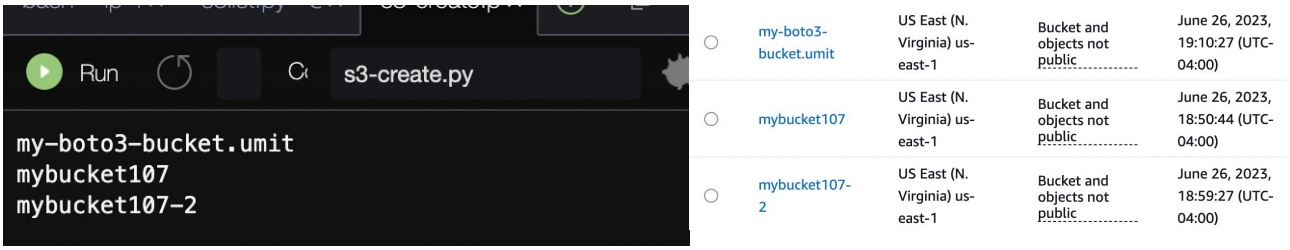


Create an S3 bucket and list buckets again

I create a python file called s3-create.py and copied the code.



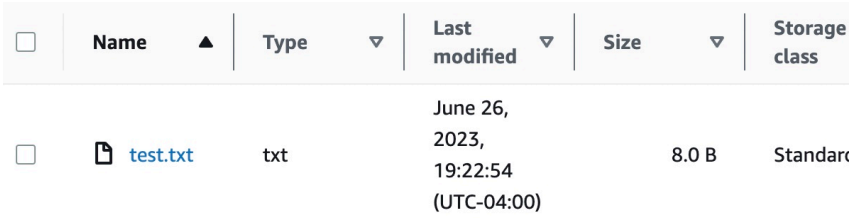
You can see the new bucket



Upload a file to the S3 Bucket

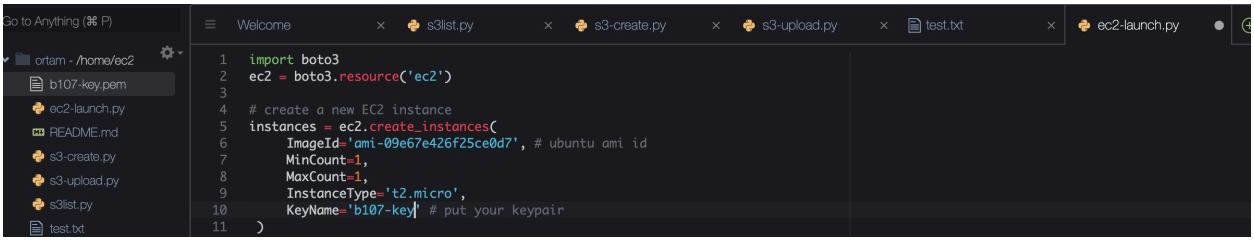
I create a file called test.txt on Boto3 and I created a file called s3-upload.py and paste the code was given.

In the my-boto3-bucket.umit file, test.txt file uploaded after click on run.

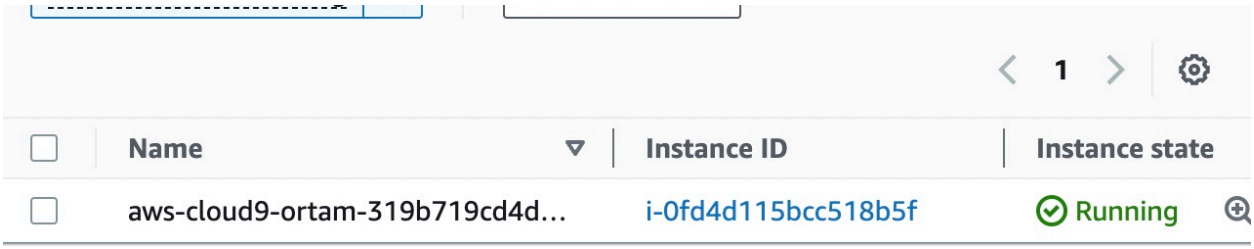


Launch, Stop and Terminate Instances

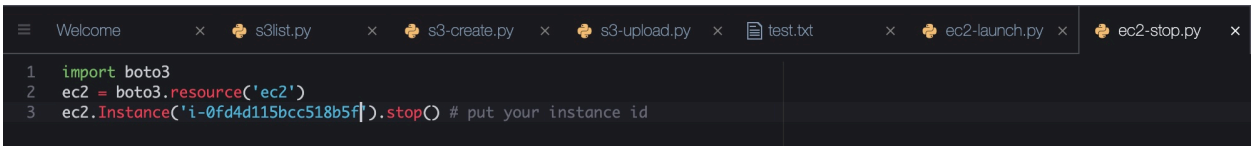
I created a file called ec2-launch.py and launch Ubuntu instance. You can also change the instance ID to create different types of instances.



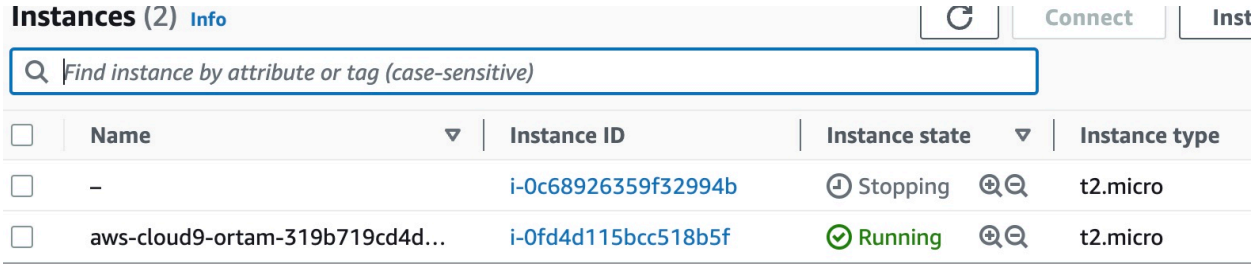
The code had initiated an instance.



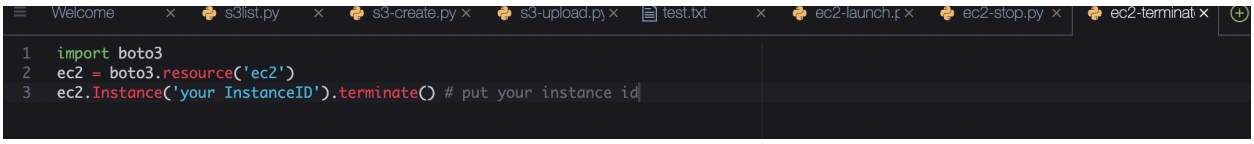
To stop EC2 instance via boto3, I created a file called ec2-stop.py and put the code already given. I put my instance id.



After hit on run, the instance had stopped.



To terminate EC2 instance via boto3, I created a file called ec2-terminate.py and put the code already given. I put my instance id.



After hit on run, the instance had terminated.