

Quick Tutorial for

AWS - Python –Boto3



How to install Pycharm IDE?

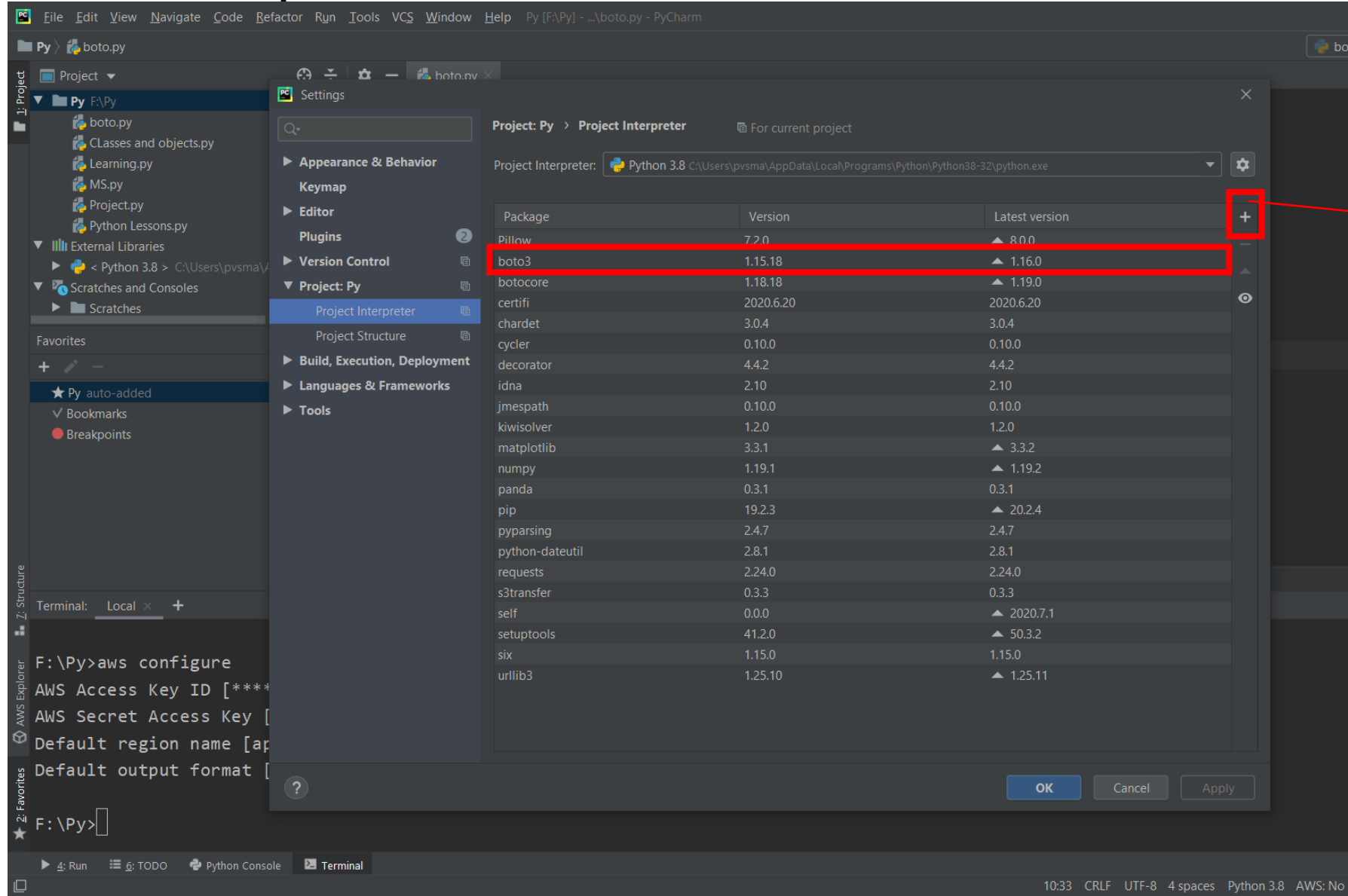
- How to install Pycharm and set system interpreter(as python) 2020

https://www.youtube.com/watch?v=EpjDOovzgrc&ab_channel=Pytholic

Boto3 Documentation -

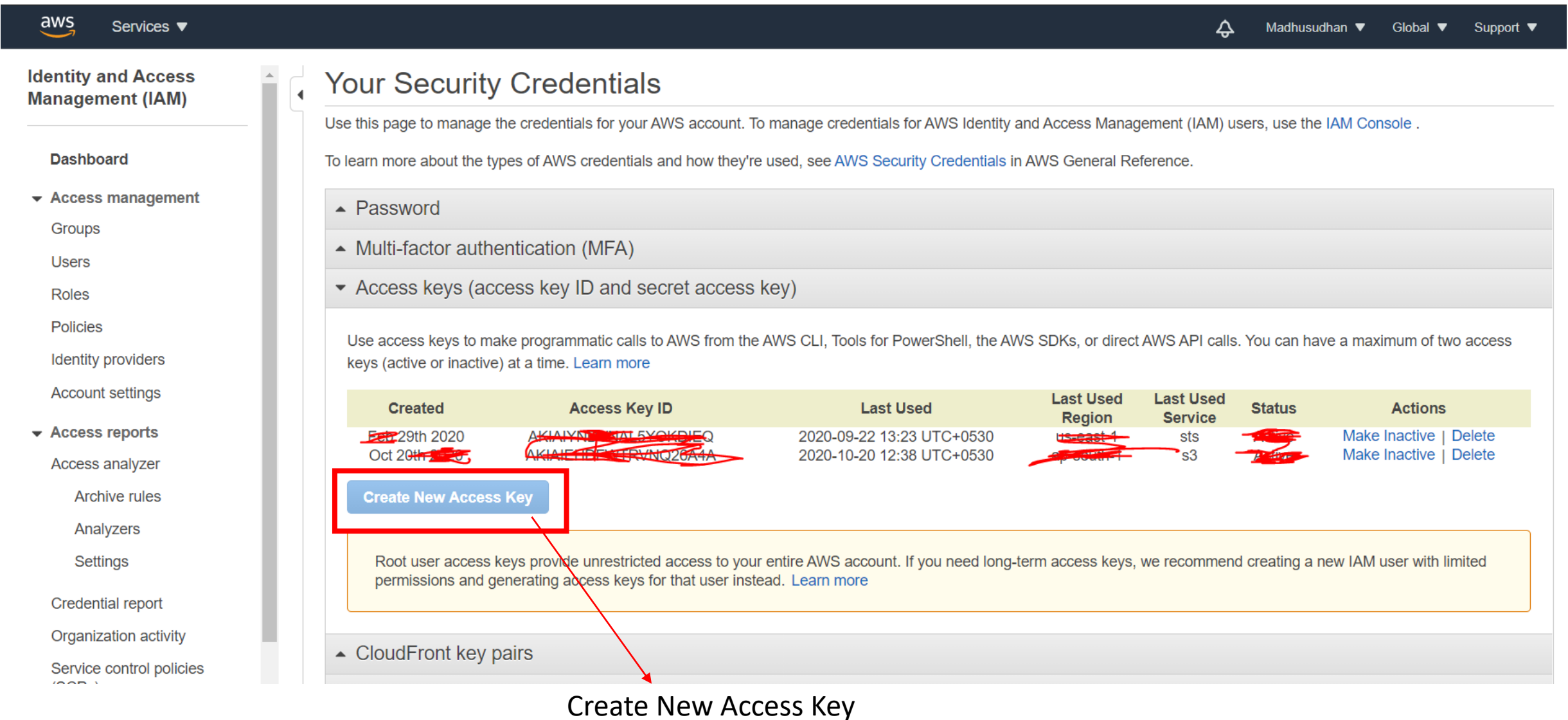
<https://boto3.amazonaws.com/v1/documentation/api/latest/index.html>

1. Adding Boto3 Plugin – Go to File – Settings-Project – Project Interpreter



Click on '+' Add symbol to add the plugin

1.1 Get the Access Key And ID from AWS



Identity and Access Management (IAM)

- Dashboard
- Access management
 - Groups
 - Users
 - Roles
 - Policies
 - Identity providers
 - Account settings
- Access reports
 - Access analyzer
 - Archive rules
 - Analzers
 - Settings
 - Credential report
 - Organization activity
 - Service control policies

Your Security Credentials

Use this page to manage the credentials for your AWS account. To manage credentials for AWS Identity and Access Management (IAM) users, use the [IAM Console](#).

To learn more about the types of AWS credentials and how they're used, see [AWS Security Credentials](#) in AWS General Reference.

- ▲ Password
- ▲ Multi-factor authentication (MFA)
- ▼ Access keys (access key ID and secret access key)

Use access keys to make programmatic calls to AWS from the AWS CLI, Tools for PowerShell, the AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time. [Learn more](#)

Created	Access Key ID	Last Used	Last Used Region	Last Used Service	Status	Actions
Feb 29th 2020	AKIAIYNM...	2020-09-22 13:23 UTC+0530	us-east-1	sts	Active	Make Inactive Delete
Oct 20th 2020	AKIAI...	2020-10-20 12:38 UTC+0530	us-east-1	s3	Active	Make Inactive Delete

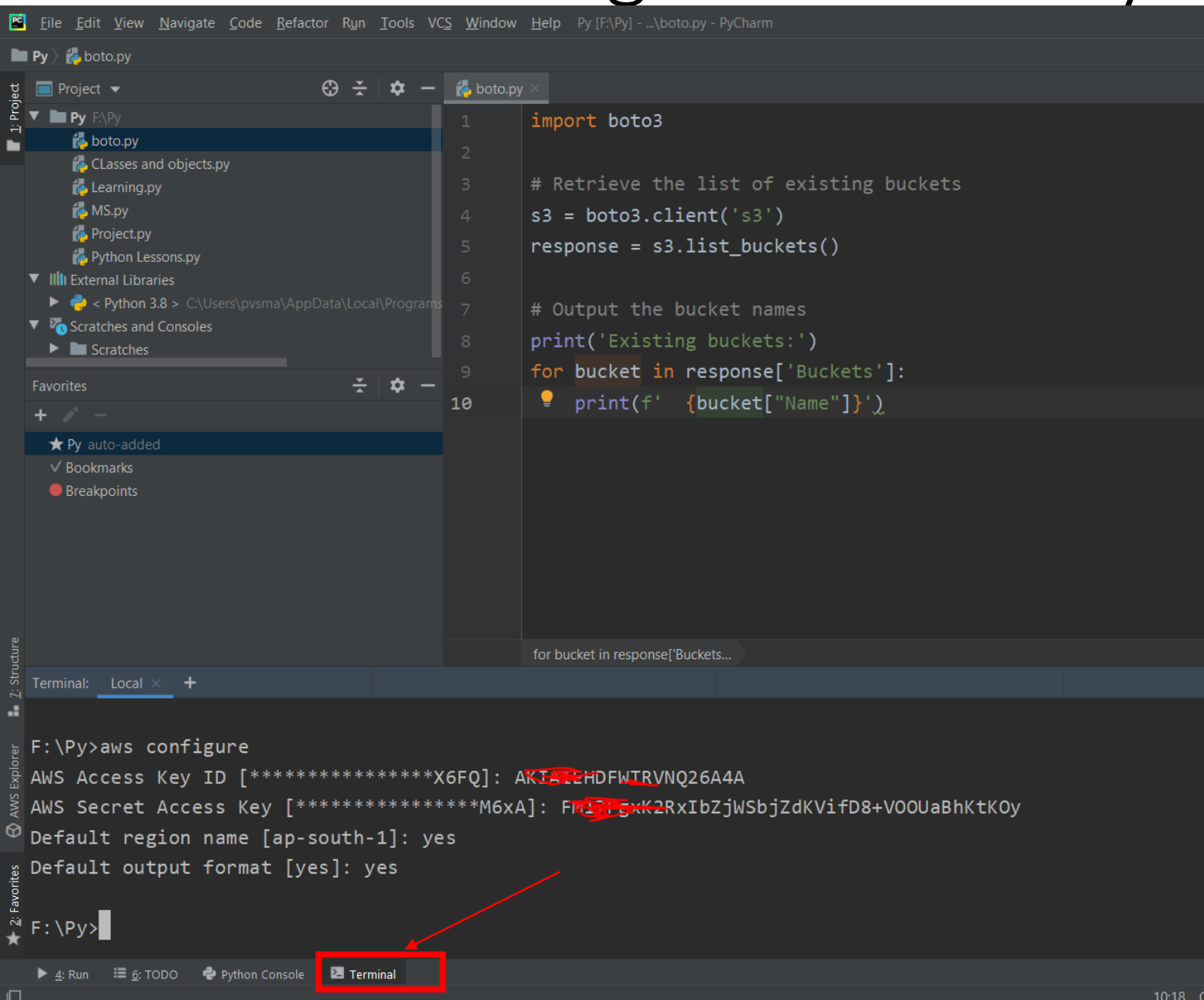
Create New Access Key

Root user access keys provide unrestricted access to your entire AWS account. If you need long-term access keys, we recommend creating a new IAM user with limited permissions and generating access keys for that user instead. [Learn more](#)

- ▲ CloudFront key pairs

Create New Access Key

1.2 How to configure AWS in Pycharm?

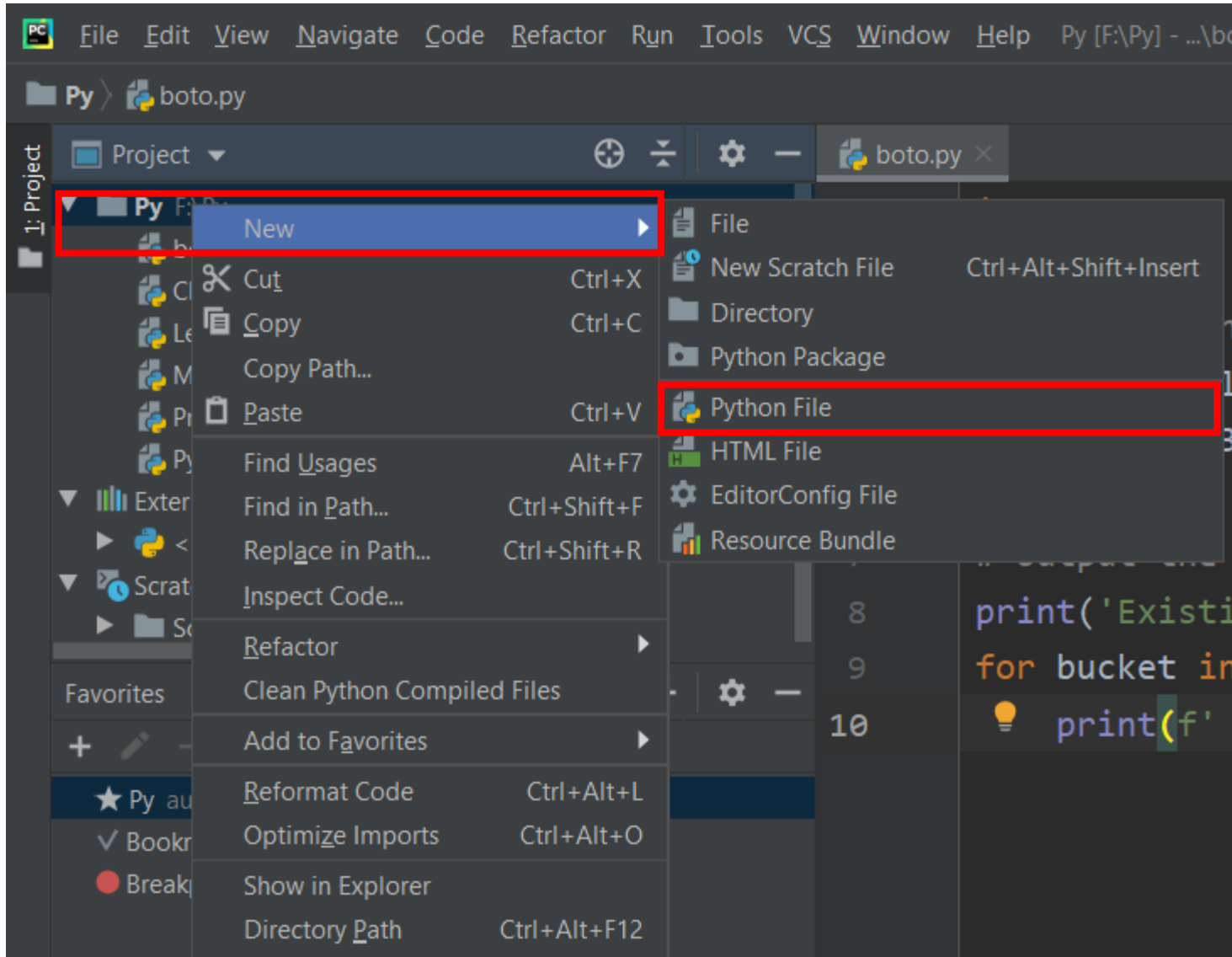


1. In the terminal,
type `aws configure`

2. Enter the AWS
Access Key ID

3. Enter the AWS
Secret Key ID

2. In Pycharm IDE add a python file, Right click on Folder-New-Python File



3. Go to Boto3 webpage e.g. List Existing S3 Buckets

<https://boto3.amazonaws.com/v1/documentation/api/latest/guide/s3-example-creating-buckets.html>

List all the existing buckets for the AWS account.

Retrieve the list of existing buckets

```
s3 = boto3.client('s3')  
response = s3.list_buckets()
```

Output the bucket names

```
print('Existing buckets:')  
for bucket in response['Buckets']:  
    print(f' {bucket["Name"]}')'
```

1. Enter the code in the python file

2. Run the File (right click on the code)

3. Check your output console, it reads and displays all the S3 buckets from your AWS account

The screenshot shows the PyCharm IDE with a file named `boto.py` open. The code in the editor is as follows:

```
1 import boto3  
2  
3 # Retrieve the list of existing buckets  
4 s3 = boto3.client('s3')  
5 response = s3.list_buckets()  
6  
7 # Output the bucket names  
8 print('Existing buckets:')  
9 for bucket in response['Buckets']:  
10     print(f' {bucket["Name"]}')
```

Below the editor, the Run console shows the output of the script:

```
Run: boto  
C:\Users\pvsma\AppData\Local\Programs\Python\Python38-32\python.exe F:/Py/boto.py  
Existing buckets:  
    elasticbeanstalk-ap-south-1-663901591933  
    www.msaws.ga  
Process finished with exit code 0
```

Red arrows point from the instructions on the left to the corresponding parts of the screenshot: one arrow points from instruction 1 to the code editor, and another points from instruction 3 to the Run console output.

4.AWS Console – List of S3

aws

Services ▾

Amazon S3

Buckets

Batch operations

Access analyzer for S3

Block public access (account settings)

Feature spotlight 2

Access S3-backed file shares on premises and reduce local storage costs using AWS Storage Gateway. [Learn more »](#)

[Documentation](#)

We've temporarily re-enabled the previous version of the S3 console while we continue to improve the new S3 console experience. [Switch to the new console.](#)

S3 buckets

[Discover the console](#)

Q Search for buckets

All access types ▾

+ Create bucket

Edit public access settings



Empty

Delete

2 Buckets

1 Regions

↺

<input type="checkbox"/> Bucket name ▾	Access i ▾	Region ▾	Date created ▾
<input type="checkbox"/>  elasticbeanstalk-ap-south-1-663901591933	Objects can be public	ap-south-1 (Sydney)	Oct 11, 2020 1:41:16 PM GMT+0530
<input type="checkbox"/>  www.msaws.ga	Objects can be public	ap-south-1 (Sydney)	Sep 18, 2020 1:27:15 PM GMT+0530