# Setup AWS CLI and AWS access from python boto library

## 1. Create Access Key ID & Secret Access Key in AWS Console UI

To generate these, you need to go to the **IAM (Identity and Access Management)** section.

**Steps:**

1. Go to <https://console.aws.amazon.com/iam/>
2. On the left sidebar, click **Users**
3. Click your username (the one you're logged in as)
4. Go to the **Security credentials** tab
5. Scroll down to **Access keys** section
6. Click **Create access key**
7. Choose **Command Line Interface (CLI)** as the use case and click **Next**
8. Click **Create access key**
9. **Copy the Access Key ID and Secret Access Key** — save them securely. You won’t be able to see the Secret again.

**Note:** You must have permissions to create access keys. If this option is greyed out, you may need to ask your AWS admin.

## 2. Note the Default Region

* Pick the AWS region where you primarily operate (e.g., us-east-1, ap-south-1, etc.)
* If unsure, look at the region dropdown in the top-right corner of your console UI — that is your current region.

Example:

us-east-1 (N. Virginia)

ap-south-1 (Mumbai)

## 3. Download the AWS CLI Client

Windows:

https://awscli.amazonaws.com/AWSCLIV2.msi

Test:

From command prompt:

aws –version

aws configure

Specify the requested information:

**AWS Access Key ID**

**AWS Secret Access Key**

**Default region** (e.g., us-east-1)

**Default output format** (e.g., json)

## 4. Install the boto library

In VS Code, activate the virtual environment,

pip install boto3

## 5. Python code to test AWS access

Create a python file test\_aws.py with following code:

import boto3

from botocore.exceptions import NoCredentialsError, PartialCredentialsError, ClientError

def test\_aws\_login():

try:

sts\_client = boto3.client('sts')

identity = sts\_client.get\_caller\_identity()

print("Successfully authenticated to AWS.")

print(f"Account: {identity['Account']}")

print(f"User ARN: {identity['Arn']}")

print(f"User ID: {identity['UserId']}")

except NoCredentialsError:

print(" No AWS credentials found. Please run `aws configure` or set env variables.")

except PartialCredentialsError:

print(" Incomplete AWS credentials found.")

except ClientError as e:

print(f"AWS Client Error: {e}")

except Exception as e:

print(f"Unknown Error: {e}")

if \_\_name\_\_ == "\_\_main\_\_":

test\_aws\_login()