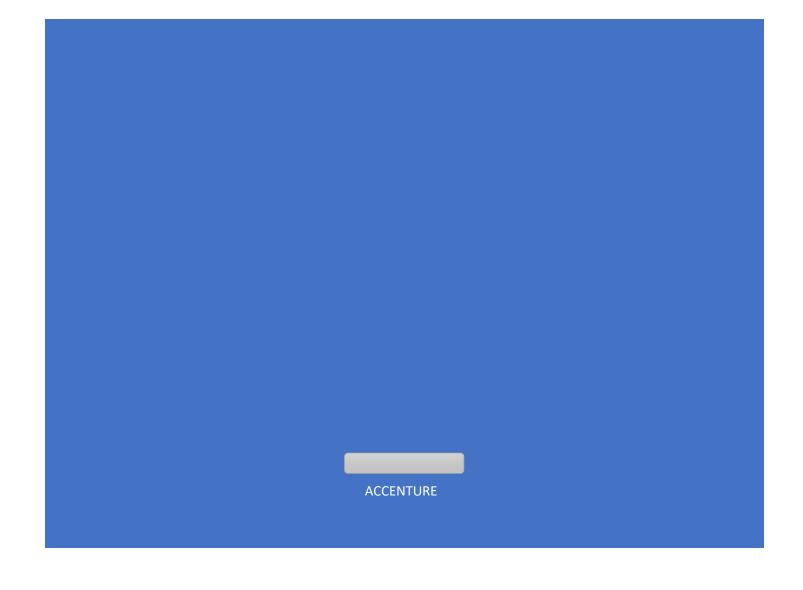
AWS CLI & BOTO3 SDK FOR PYTHON



In this Manual we are going to discuss about the Management of AWS using the command line interface sitting on top of Boto3 SDK for python and this will allows you to manage your services in AWS using command line in windows and terminal in Linux, we will proceed with the steps in configuring the AWS CLI, previously we need to download the package and setting up path are difficult. But the current process is simple. Depends on the use case we can choose any of the below path

- AWS Tools for Windows PowerShell
- AWS SDK for Java
- AWS SDK for .NET
- AWS SDK for JavaScript
- AWS SDK for Ruby
- AWS SDK for Python (Boto3)
- AWS SDK for PHP
- AWS SDK for Go
- AWS Toolkit for Eclipse
- AWS Toolkit for Visual Studio
- AWS Mobile SDK for iOS
- AWS Mobile SDK for Android

In our first step we will proceed with installation of CLI tool for windows.

Use the below link to download the CLI for Windows 64 bit -> https://s3.amazonaws.com/aws-cli/AWSCLI64.msi

Use the below link to download the CLI for Windows 32 bit -> https://s3.amazonaws.com/aws-cli/AWSCLI32.msi

Once the installation is completed in a typical manner of windows software installation, please follow the steps for the configuration.

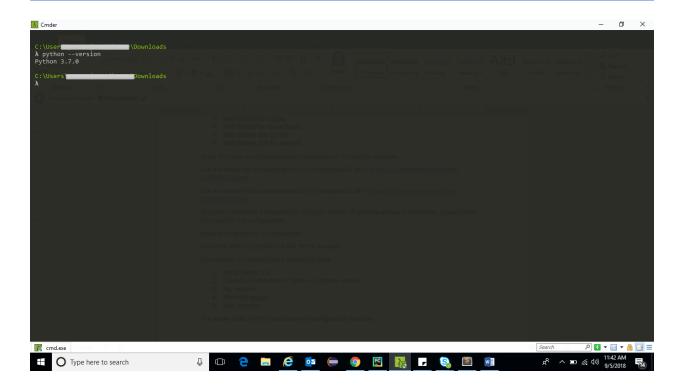
Steps with Python for CLI Installation:

Install the AWS CLI, Python 3.6 and PIP for windows

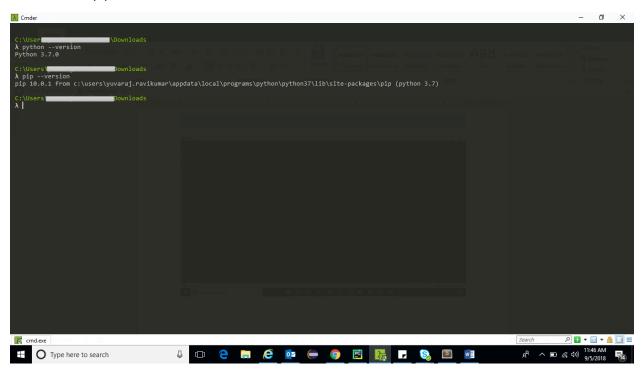
Once python is installed please follow the steps

- 1. Install Python 3.6
- 2. Check the installation of Python -> python -version
- 3. Pip –version
- 4. Pip install awscli
- 5. Aws -version

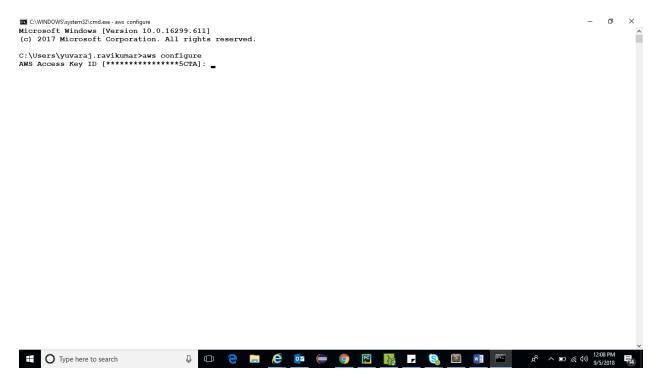
The screen shots for the installation and configuration is below.



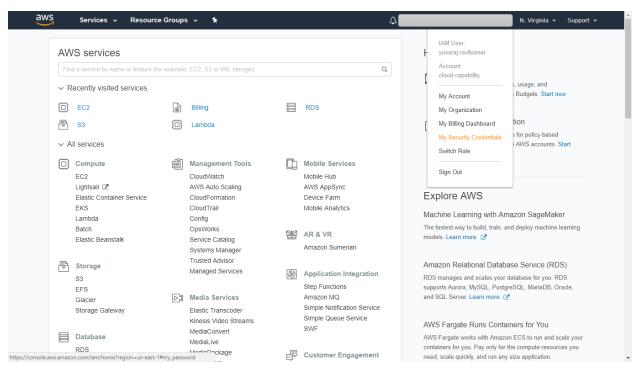
Check for the pip installation



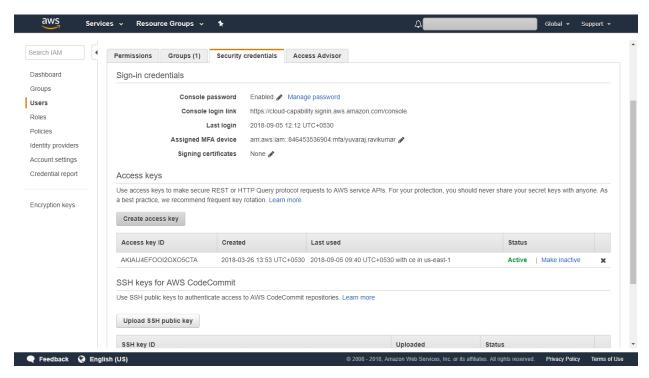
Configure aws cli with access key and secret key



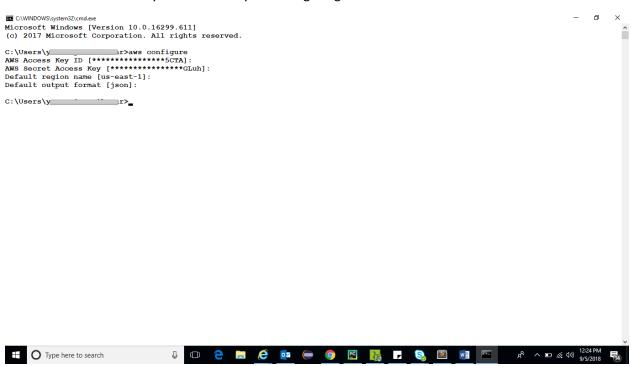
Please create your access key and secret key from the management console.



Security credentials -> Users -> Create Access Key



Please use the Access Key and Secret Key for configuring the CLI

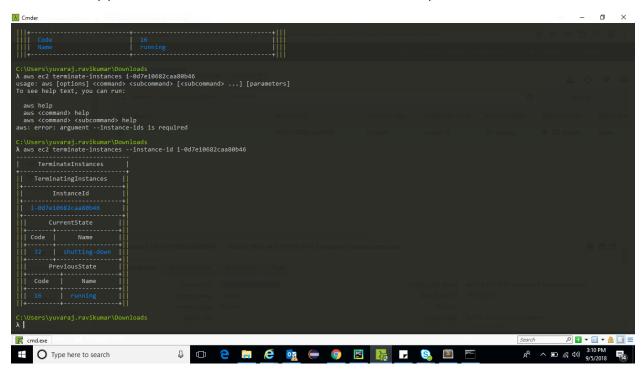


Once the access and secret key is given and configured then we can start management using the CLI commands as documented from the below link.

http://docs.aws.amazon.com/cli/latest/reference/

EC2 - Describe Instance command

In a similar way you can use the commands from the above link for any of the AWS services.



I have terminated the instance created from command line.

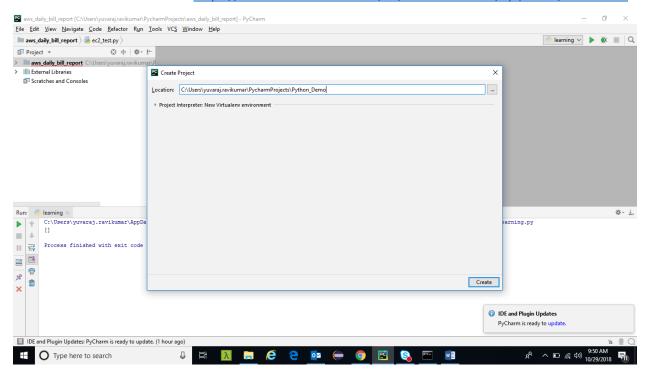
Now we can proceed with the Boto3 SDK for Management and Automation in Aws.

We need to install any one IDE for Python, here am installing PyCharm and make sure python is installed already and environment path is set.

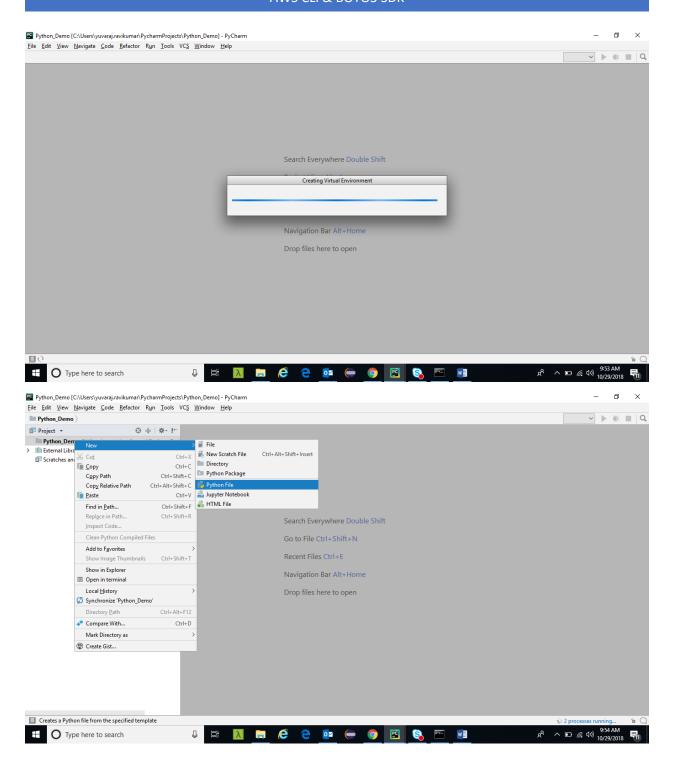
Once PyCharm is installed with the above configurations and setup, proceed for creating the new project in python.

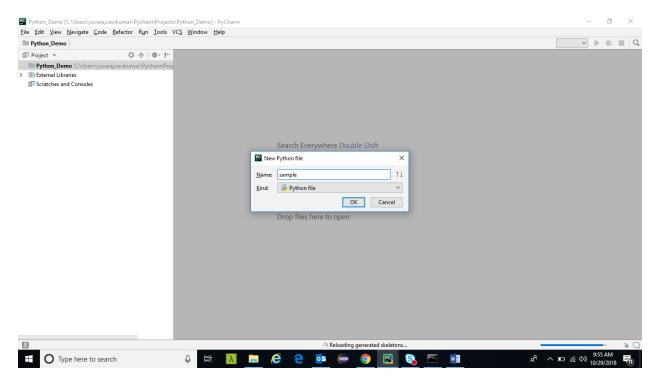
While working with Boto3 SDK please have the documentation alongside for reference.

Boto3 Documentation Link → https://boto3.amazonaws.com/v1/documentation/api/latest/index.html



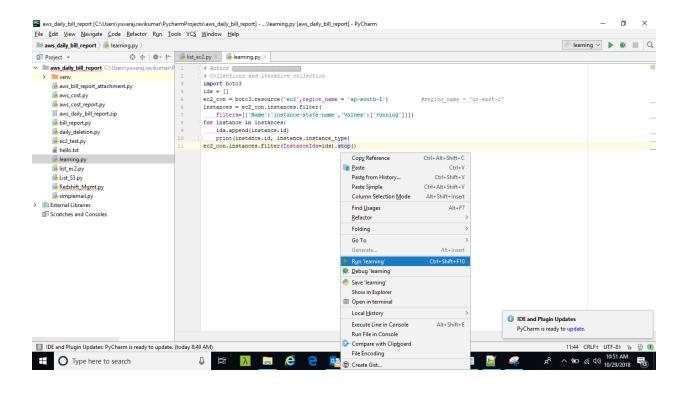
Create a New Project and proceed with the sample template below for creating EC2 Instance with reference to Boto3 Documentation.

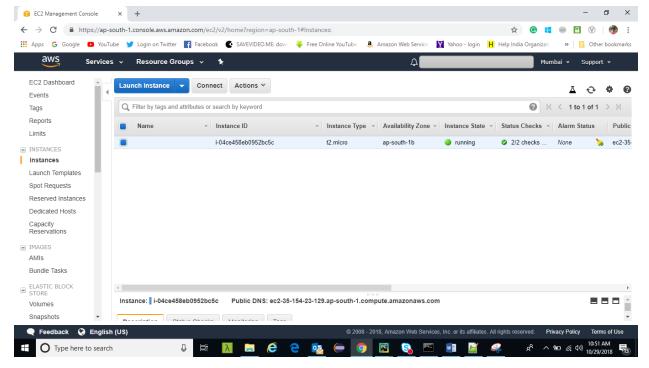




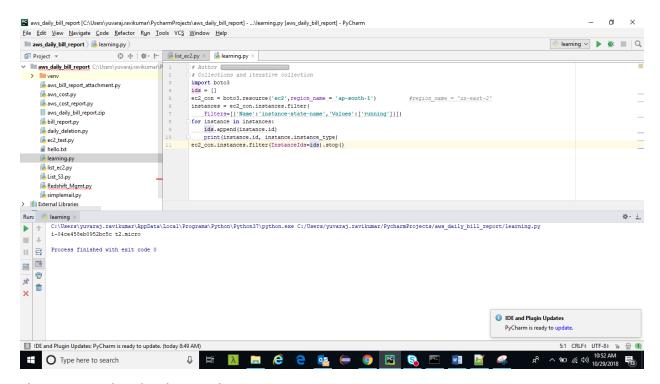
Please proceed with the below sample code to stop the instances running via python code using Boto3 SDK

The above snipped of code will lists the available instances in the region and stop all the instances Replace the access keys and secret keys with your access and secret keys respectively.

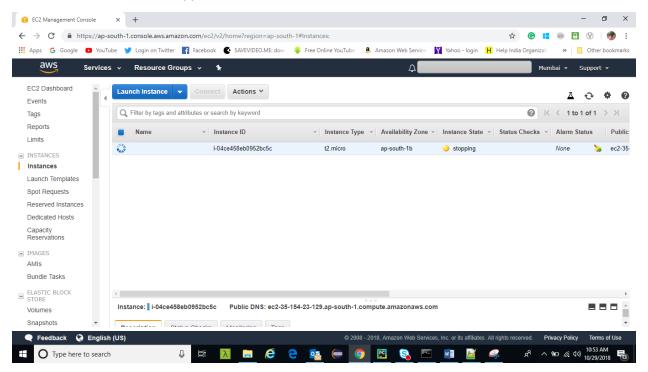




The above instance is running in the Mumbai region ap-south-1



The instance is listed and stopped.



In	a similar way	v we can do	automation or	n AWS accoun	t with P	vthon Boto3.

Hope you all uncovering the document accessible and useful.

If you have any demanding question which is mentioned in the document, please feel free to contact us.

Happy Learning

LKM