<https://linuxacademy.com/howtoguides/posts/show/topic/14209-automating-aws-with-python-and-boto3>

**Create EC2 instances using :**

Create an Instance using Ubuntu:

* Sudo Apt-get update
* Sudo apt-get install python-pip
* which python (to check if python is installed)
* python -V
* pip install awscli boto3 -U --ignore-installed six
* aws --version (to check if awscli is installed to congif aws)

create IAM to get access key and security key. give the following permission to the user:

1)amazonec2full access

2)amazons3fullaccess

3)amazonRDSfullaccess

and download the csv file of access key and password

* aws configure :

AWS Access Key ID [\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*h2BW]: AKIAJHOCWKBU7ZNGJNIA

AWS Secret Access Key [\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*sole]: 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

Default region name [us-east-1]: us-east-1

Default output format [text]: text

* aws ec2 describe-instances

then you see some list of output

* vi list\_instances\_py (create a file)

#!/usr/bin/env python

import boto3

ec2 = boto3.resource('ec2')

for instance in ec2.instances.all():

print instance.id, instance.state

* chmod +x list\_instances.py
* ./list\_instances.py (executing that file)

now, we need to create an instance.

* vi create\_instance

#!/usr/bin/env python

import boto3

ec2 = boto3.resource('ec2')

instance = ec2.create\_instances(

ImageId=**'ami-1e299d7e',**

MinCount=1,

MaxCount=1,

InstanceType='t2.micro')

print instance[0].id

(# the AMI id in the above program must be the instance you want to create)

* chmod +x create\_instance
* ./create\_instance

Id:…..

Then you get an ID, when you run ./list\_instances you see a drop down list of the instance that are running