**ec2-instance-launch-using-python-script**

**Document**

Date 19/04/2019

**Step 1**

Need to install boto3

**$ sudo pip install awscli boto3**

**Step 2**

Need to create a IAM user like a any user using that credentials we are configure

**$ aws configure**

AWS Access Key ID [None]: **AKIAULTODG7TAIKPVNJB**

AWS Secret Access Key [None]: **lBWE0WO+OroLSn1Zb+UoJ488Wi4g0AhgBZ2pFglJ**

Default region name [None]: **ap-south-1**

Default output format [None]: **json**

**$ cat ~/.aws/config**

[default]

output = json

region = ap-south-1

**$ cat ~/.aws/credentials**

[default]

aws\_access\_key\_id = AKIAULTODG7TAIKPVNJB

aws\_secret\_access\_key = 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

**Step 3**

Before creating ec2-instance need to create and download .pem key using python script if we run this scrpit It will download .pemkey

$ **vi pem.py**

#!/bin/python

import boto3

ec2 = boto3.resource('ec2')

# create a file to store the key locally

outfile = open('ec2-keypair.pem','w')

# call the boto ec2 function to create a key pair

key\_pair = ec2.create\_key\_pair(KeyName='ec2-keypair')

# capture the key and store it in a file

KeyPairOut = str(key\_pair.key\_material)

print(KeyPairOut)

outfile.write(KeyPairOut)

**$**  **chmod 400 ec2-keypair.pem**

**Step 4**

Using this below python script it will launch the ec2-instances.

$ **vi createec2.py**

#!/bin/python

import boto3

ec2 = boto3.resource('ec2')

# create a new EC2 instance

instances = ec2.create\_instances(

ImageId='ami-0ad42f4f66f6c1cc9',

MinCount=1,

MaxCount=2,

InstanceType='t2.micro',

KeyName='ec2-keypair'

)

**Step 5**

Using this below python script it will terminate the ec2-instances.

**$ vi stopec2.py**

#!/bin/python

import boto3

ids = ['i-068e764ec529ec0ff']

ec2 = boto3.resource('ec2')

ec2.instances.filter(InstanceIds = ids).stop() #for stopping an ec2 instance

ec2.instances.filter(InstanceIds = ids).start() #for terminating an ec2 instance