girmiti software™

ec2-instance-launch-using-python-script Document

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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]: **IBWE0WO+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
```