PYTHON ASSIGNMENT

1. Write a program to iterate over all regions and print the running instances with their names and Instances ID

>>> import boto

>>> import boto.ec2 as ec2

>>> AWS\_ACCESS\_KEY\_ID=" "

>>> AWS\_SECRET\_ACCESS\_KEY=" "

>>> AWS\_REGION="us-east-1"

>>> connection\_ec2=ec2.connect\_to\_region(AWS\_REGION,aws\_access\_key\_id=AWS\_ACCESS\_KEY\_ID,aws\_secret\_access\_key=AWS\_SECRET\_ACCESS\_KEY)

>>> reservations=connection\_ec2.get\_all\_instances()

>>> print reservations[0]

>>> for i in AWS\_REGION:

connection\_ec2=ec2.connect\_to\_region(i,aws\_access\_key\_id=AWS\_ACCESS\_KEY\_ID,aws\_secret\_access\_key=AWS\_SECRET\_ACCESS\_KEY)

print "AWS\_REGION: ",i

reservations=connection\_ec2.get\_all\_instances()

for j in reservations:

print "AWS\_REGION",j.instances[0].tags['Name'],"Instance ID: ",j.instances[0].id

AWS\_REGION: us-east-1

AWS\_REGION USEAST1a Instance ID: i-03bd2d0878ebaa4c9

AWS\_REGION USEAST1b Instance ID: i-0c7d0e8b61cec468a

AWS\_REGION: us-east-2

AWS\_REGION USEAST2a Instance ID: i-03bc99e8634a3f7a8

1. Write a python code to stop all ec2 instances in all AWS regions

for i in AWS\_REGION:

connection\_ec2=ec2.connect\_to\_region(i,aws\_access\_key\_id=AWS\_ACCESS\_KEY\_ID,aws\_secret\_access\_key=AWS\_SECRET\_ACCESS\_KEY)

print "AWS\_REGION: ",i

reservations=connection\_ec2.get\_all\_instances()

for j in reservations:

print "AWS\_REGION",j.instances[0].tags['Name'],"Instance ID: ",j.instances[0].id

j.instances[0].stop()

print j.instances[0].state

AWS\_REGION: us-east-1

AWS\_REGION USEAST1a Instance ID: i-03bd2d0878ebaa4c9

stopping

AWS\_REGION USEAST1b Instance ID: i-0c7d0e8b61cec468a

stopping

AWS\_REGION: us-east-2

AWS\_REGION USEAST2a Instance ID: i-03bc99e8634a3f7a8

Stopping

AWS\_REGION: us-east-1

AWS\_REGION USEAST1a Instance ID: i-03bd2d0878ebaa4c9

stopped

AWS\_REGION USEAST1b Instance ID: i-0c7d0e8b61cec468a

stopped

AWS\_REGION: us-east-2

AWS\_REGION USEAST2a Instance ID: i-03bc99e8634a3f7a8

Stopped

1. Python code to Stop all instances except the exceptions given in list

Exception\_list=[“us-east-1b”] example

>>> import boto

>>> import boto.ec2 as ec2

>>> AWS\_ACCESS\_KEY\_ID=" "

>>> AWS\_SECRET\_ACCESS\_KEY=" "

>>> AWS\_REGION="us-east-1"

>>> connection\_ec2=ec2.connect\_to\_region(AWS\_REGION,aws\_access\_key\_id=AWS\_ACCESS\_KEY\_ID,aws\_secret\_access\_key=AWS\_SECRET\_ACCESS\_KEY)

>>> reservations=connection\_ec2.get\_all\_instances()

>>> print reservations[0]

##############################################Printing each id

>>> for x in reservations:

print x.instances[0]

Instance:i-03bd2d0878ebaa4c9

Instance:i-0c7d0e8b61cec468a

############################Printing name and id

>>> for x in reservations:

print x.instances[0].tags['Name']," Instance ID: ", x.instances[0].id

**USEAST1a** Instance ID: i**-03bd2d0878ebaa4c9**

**USEAST1b** Instance ID: i**-0c7d0e8b61cec468a**

####################Connect through dfferent regions

>>> AWS\_REGION=["us-east-1","us-east-2"]

>>> for i in AWS\_REGION:

connection\_ec2=ec2.connect\_to\_region(i,aws\_access\_key\_id=AWS\_ACCESS\_KEY\_ID,aws\_secret\_access\_key=AWS\_SECRET\_ACCESS\_KEY)

print connection\_ec2

EC2Connection:ec2.**us-east-1.**amazonaws.com

EC2Connection:ec2.**us-east-2**.amazonaws.com

for i in AWS\_REGION:

connection\_ec2=ec2.connect\_to\_region(i,aws\_access\_key\_id=AWS\_ACCESS\_KEY\_ID,aws\_secret\_access\_key=AWS\_SECRET\_ACCESS\_KEY)

print "AWS\_REGION: ",i

reservations=connection\_ec2.get\_all\_instances()

for j in reservations:

print "AWS\_REGION",j.instances[0].tags['Name'],"Instance ID: ",j.instances[0].id

AWS\_REGION: us-east-1

AWS\_REGION USEAST1a Instance ID: i-03bd2d0878ebaa4c9

AWS\_REGION USEAST1b Instance ID: i-0c7d0e8b61cec468a

AWS\_REGION: us-east-2

AWS\_REGION USEAST2a Instance ID: i-03bc99e8634a3f7a8