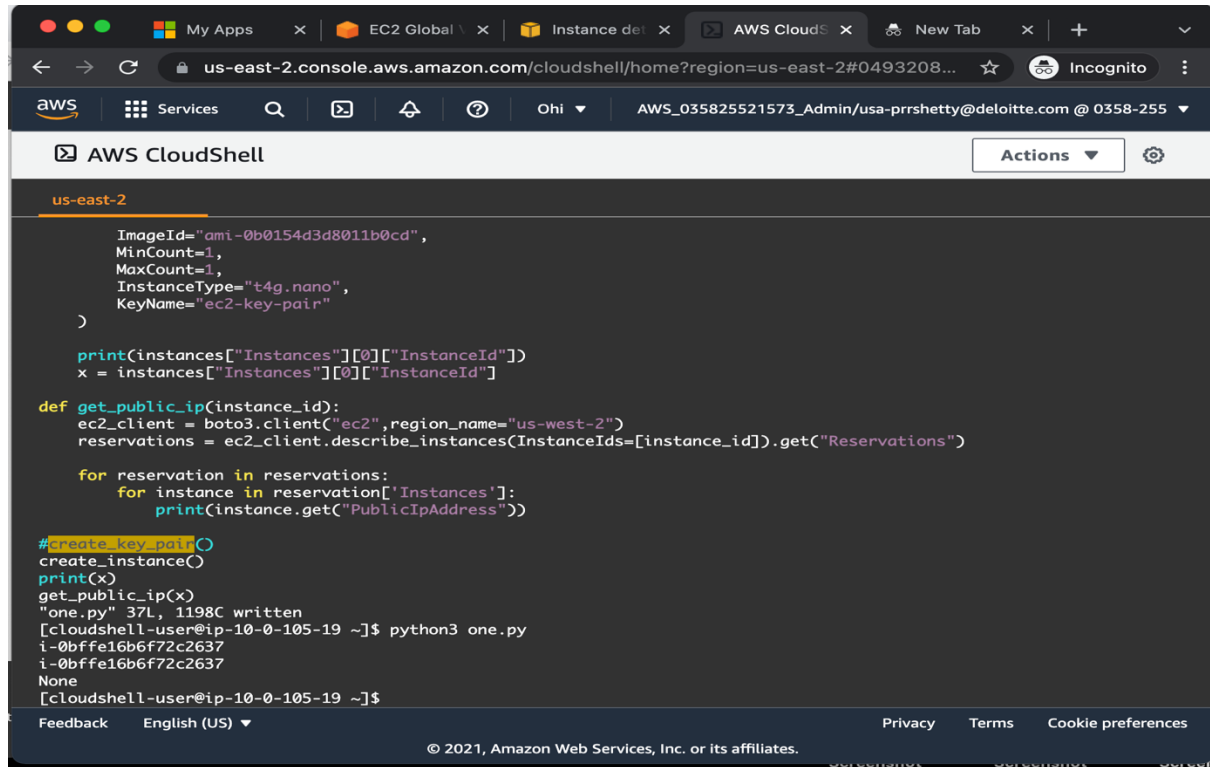


BOTO3 ASSIGNMENT

1. Write a Script that builds 3 8gb EC2 instances using the ubuntu Ami and type as t2.micro.



The screenshot shows the AWS CloudShell interface in a web browser. The terminal displays a Python script that defines a function to create EC2 instances. The script includes comments and code for creating a key pair, creating an instance, and printing the public IP address. The script is executed, and the output shows the instance details, including the public IP address.

```
us-east-2

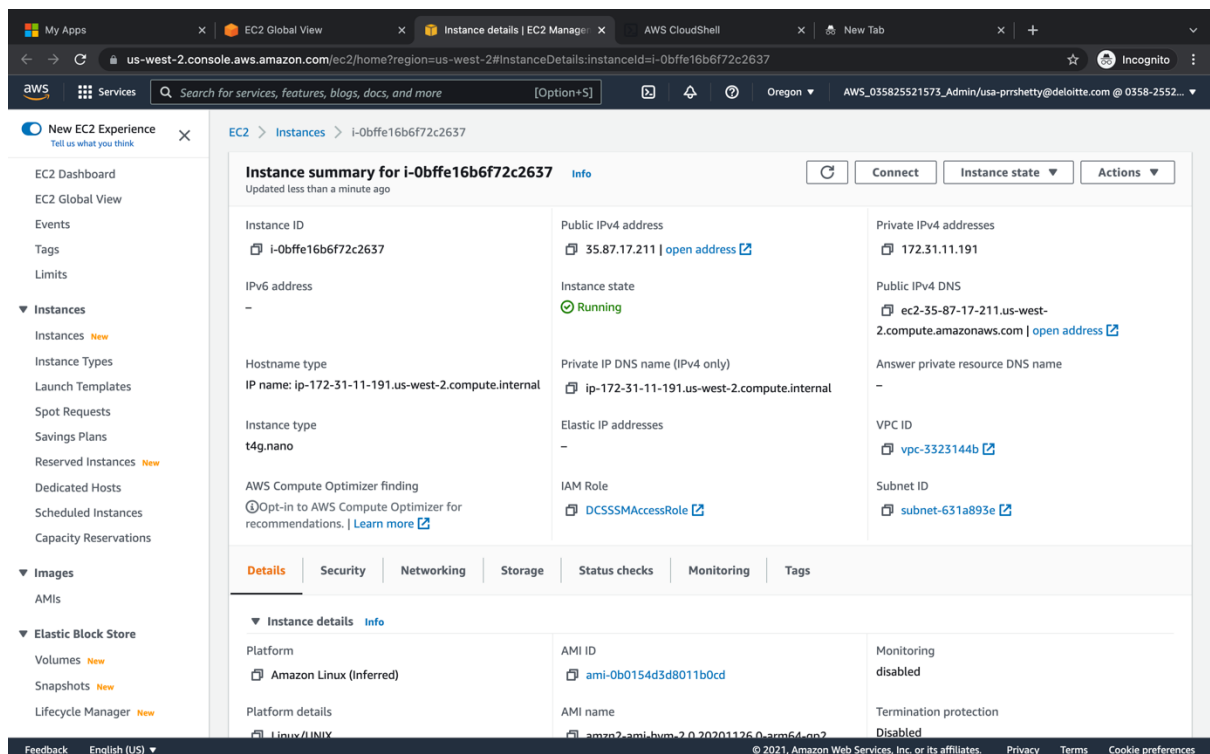
ImageId="ami-0b0154d3d8011b0cd",
MinCount=1,
MaxCount=1,
InstanceType="t4g.nano",
KeyName="ec2-key-pair"
)

print(instances["Instances"][0]["InstanceId"])
x = instances["Instances"][0]["InstanceId"]

def get_public_ip(instance_id):
    ec2_client = boto3.client('ec2', region_name="us-west-2")
    reservations = ec2_client.describe_instances(InstanceIds=[instance_id]).get("Reservations")

    for reservation in reservations:
        for instance in reservation["Instances"]:
            print(instance.get("PublicIpAddress"))

# Create key pair
create_key_pair()
create_instance()
print(x)
get_public_ip(x)
"one.py" 37L, 1198C written
[cloudshell-user@ip-10-0-105-19 ~]$ python3 one.py
i-0bffe16b6f72c2637
i-0bffe16b6f72c2637
None
[cloudshell-user@ip-10-0-105-19 ~]$
```



The screenshot shows the AWS Management Console interface. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The main content area displays the 'Instance summary for i-0bffe16b6f72c2637'. The summary includes details such as Instance ID, Public IPv4 address, Private IPv4 addresses, Instance state (Running), Hostname type, IP name, Instance type (t4g.nano), AWS Compute Optimizer finding, IAM Role (DCSSMAccessRole), VPC ID (vpc-3323144b), Subnet ID (subnet-631a893e), Platform (Amazon Linux (Inferred)), AMI ID (ami-0b0154d3d8011b0cd), AMI name (amazon2-ami-hvm-2.0.20201126.0-ami64-ec2), Monitoring (disabled), and Termination protection (Disabled).

Instance summary for i-0bffe16b6f72c2637		
Instance ID	Public IPv4 address	Private IPv4 addresses
i-0bffe16b6f72c2637	35.87.17.211 open address	172.31.11.191
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-35-87-17-211.us-west-2.compute.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	Answer private resource DNS name
IP name: ip-172-31-11-191.us-west-2.compute.internal	ip-172-31-11-191.us-west-2.compute.internal	-
Instance type	Elastic IP addresses	VPC ID
t4g.nano	-	vpc-3323144b
AWS Compute Optimizer finding	IAM Role	Subnet ID
Opt-in to AWS Compute Optimizer for recommendations. Learn more	DCSSMAccessRole	subnet-631a893e

Instance details		
Platform	AMI ID	Monitoring
Amazon Linux (Inferred)	ami-0b0154d3d8011b0cd	disabled
Platform details	AMI name	Termination protection
Linux/UNIX	amazon2-ami-hvm-2.0.20201126.0-ami64-ec2	Disabled

2. Write a script that snapshots volume in us-west2.

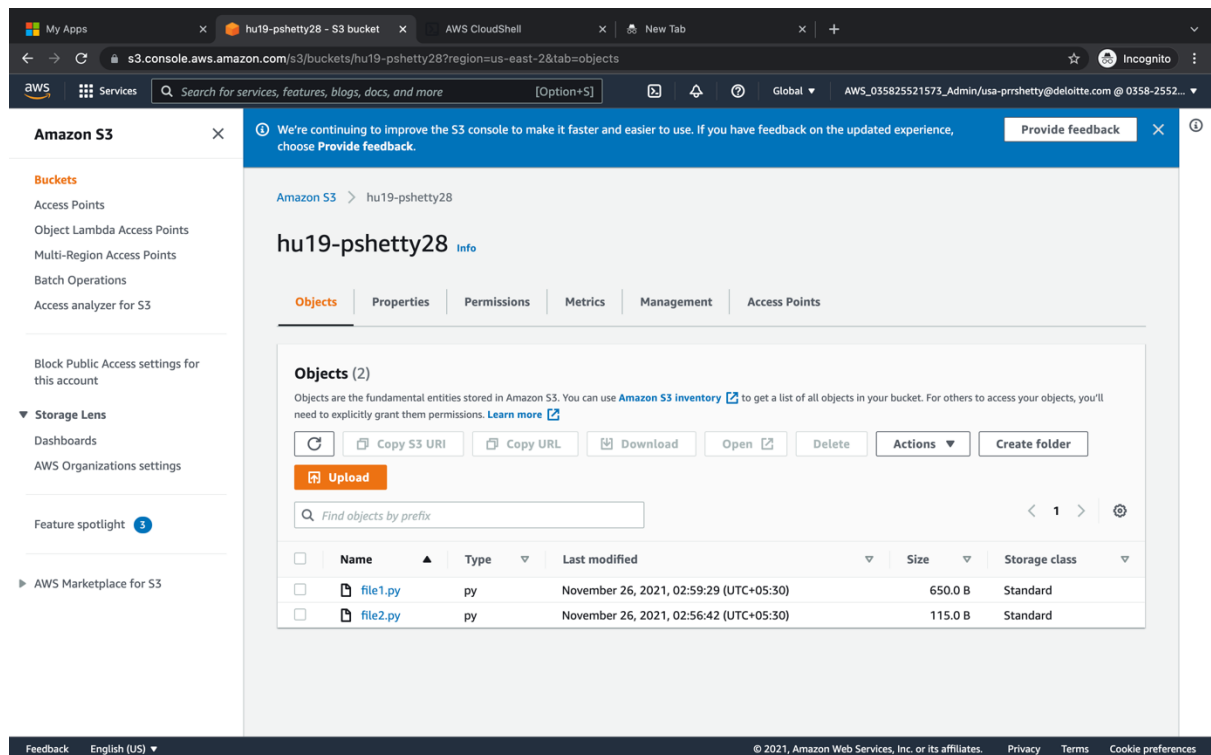
The screenshot shows the AWS Management Console for the 'us-east-2' region. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Images, Elastic Block Store, and Network & Security. The main content area displays the 'snap-09d63ac4a7d2f0e0b' snapshot details. The 'Snapshot settings' section shows the snapshot ID, size (10 GiB), owner (035825521573), volume ID (vol-00cf2e3f5a85f0b56), encryption status (Encrypted), KMS key ID (3f9de960-1a58-4457-9adf-8b22067b53ee), progress (Available 100%), and status (Completed). The 'Permissions' section shows the snapshot share permissions are Private. A warning message states: 'You can only share snapshots that are encrypted with a customer managed key.'

3. Write a script that will create 2 ec2 instances and add them to a new elastic load balancer.

The screenshot shows the AWS Management Console for the 'us-east-2' region. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Images, Elastic Block Store, and Network & Security. The main content area displays the 'Create Load Balancer' page. The 'Load balancer: prajwal-hu-loadbalancer' is selected. The 'Basic Configuration' section shows the load balancer name, DNS name (prajwal-hu-loadbalancer-166...), creation time (November 26, 2021 at 10:13:05 AM UTC+5:30), hosted zone (Z3AADJGX6KTTL2), and status (0 of 0 instances in service). The 'Instances' tab is active, showing a list of instances. The table below contains the data for the instances.

Name	DNS name	State	VPC ID	Availability Zones	Type
bcsachin-lb21	bcsachin-lb21-1207768097....	Available	vpc-b6ec71dd	us-east-2a	classic
denzil-LB	denzil-LB-1852406515.us-east-2.elb.amazonaws.com	Available	vpc-b6ec71dd	us-east-2b	classic
dhbl-sdk-elb1	dhbl-sdk-elb1-2071487989.us-east-2.elb.amazonaws.com	Available	vpc-0a6838054943aa196	us-east-2a	classic
lisha-hu19-load	lisha-hu19-load-1094973632.us-east-2.elb.amazonaws.com	Available	vpc-b6ec71dd	us-east-2a	classic
mainak-elb	mainak-elb-1201112327.us-east-2.elb.amazonaws.com	Available	vpc-b6ec71dd	us-east-2a	classic
prajwal-hu-loadbalancer	prajwal-hu-loadbalancer-166... prajwal-hu-loadbalancer-1669356750.us-east-2.elb.amazonaws.com (A Record)	Available	vpc-b6ec71dd	us-east-2b, us-east-2a	classic
suraj-lb	suraj-lb-352323504.us-east-2.elb.amazonaws.com	Available	vpc-b6ec71dd	us-east-2c	classic
681582abhishekib	681582abhishekib-9015156... 681582abhishekib-9015156.us-east-2.elb.amazonaws.com	Available	vpc-b6ec71dd	us-east-2a	classic

4. Write a script to create s3 bucket and upload a bunch of files to it.



6. Stop the instances created.

