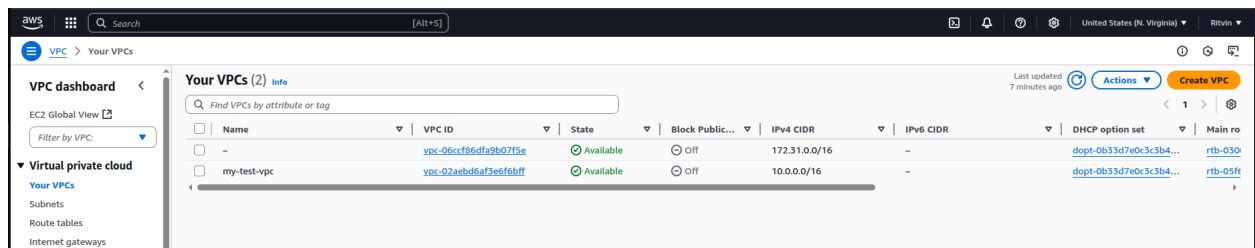


AWS Task-2

Task Description:

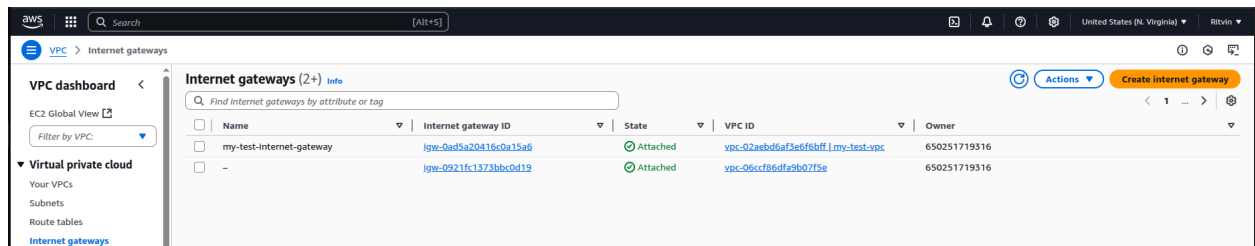
Set up a VPC with an Internet gateway, create a public subnet with 256 IP addresses, a private subnet with 256 IP addresses, make a route table connecting the Internet gateway and the subnets, and launch a Linux EC2 instance by using the above VPC and public subnet.

1) VPC setup:



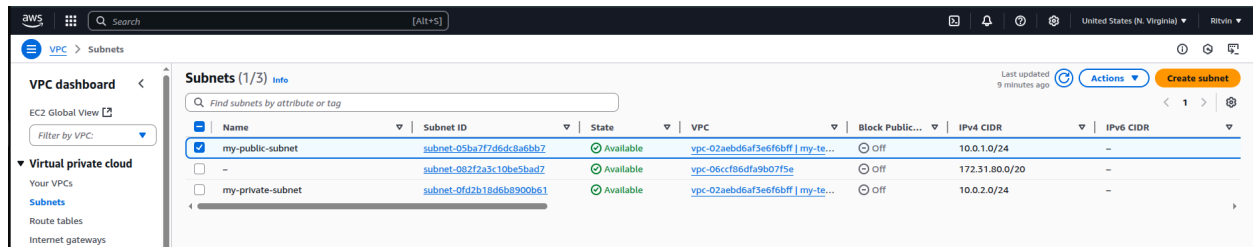
- Name: my-test-vpc
- IPV4 CIDR block: 10.0.0.0/16

2) Internet Gateway:



- Name: my-test-internet-gateway
- Attached to: my-test-vpc

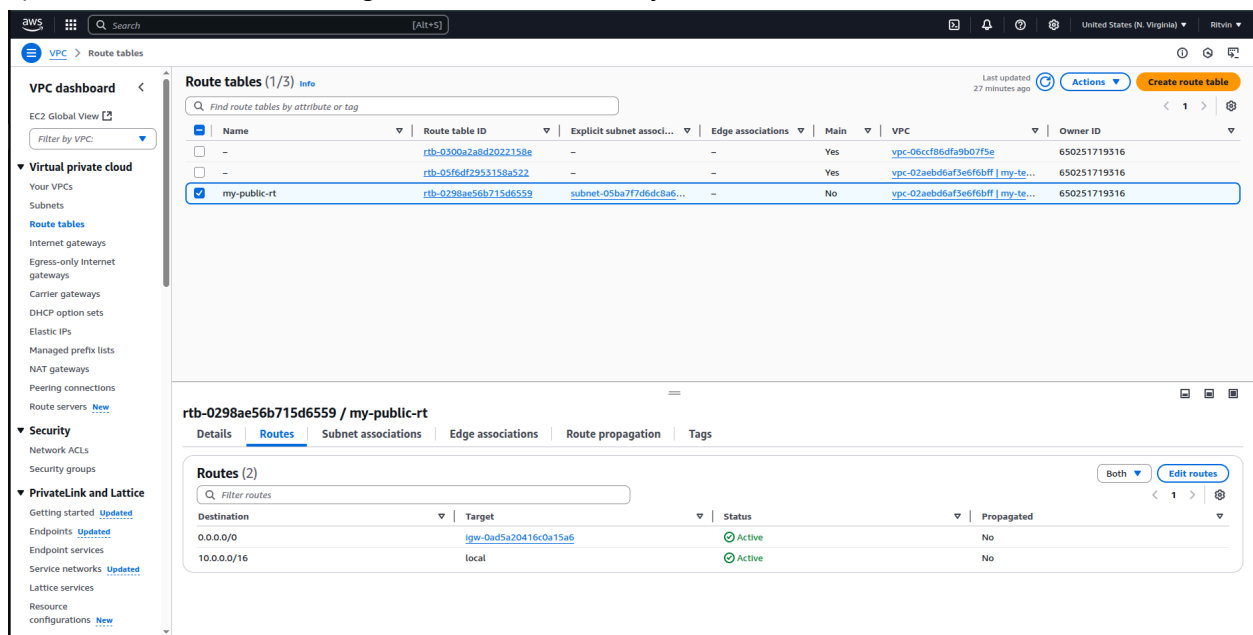
3) Public & Private Subnet with 256 IP addresses:



Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR	IPv6 CIDR
my-public-subnet	subnet-05ba7f7d6dc8a6b7	Available	vpc-02aebd6af3e6f6bff my-te...	Off	10.0.1.0/24	-
-	subnet-082f2a3c10be5bae7	Available	vpc-06ccf86dfa9b07f5e	Off	172.31.80.0/20	-
my-private-subnet	subnet-0fd2b18d6b8900b61	Available	vpc-02aebd6af3e6f6bff my-te...	Off	10.0.2.0/24	-

- VPC Linked: my-test-vpc
- Subnet_name: my-public-subnet (us-east-1a)
- IPV4 CIDR: 10.0.1.0/24
- Subnet_name: my-private-subnet (us-east-1a)
- IPV4 CIDR: 10.0.2.0/24

4) Route table connecting to Internet Gateway & Subnets:



Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC	Owner ID
-	rtb-0300a2a8d2022158e	-	-	Yes	vpc-06ccf86dfa9b07f5e	650251719316
-	rtb-05f6df2953158a522	-	-	Yes	vpc-02aebd6af3e6f6bff my-te...	650251719316
my-public-rt	rtb-0298ae56b715d6559	subnet-05ba7f7d6dc8a6...	-	No	vpc-02aebd6af3e6f6bff my-te...	650251719316

rtb-0298ae56b715d6559 / my-public-rt			
Routes (2)			
Destination	Target	Status	Propagated
0.0.0.0/0	lgw-0ad5a20416c0a15a6	Active	No
10.0.0.0/16	local	Active	No

- Name: my-public-rt
- VPC Linked: my-test-vpc
- Subnet Associated: my-public-subnet (us-east-1a) - 10.0.1.0/24
- Internet Gateway linked: my-test-internet-gateway

5) Launching EC2 instance using above VPC & Subnets:

The screenshot displays the AWS Management Console interface for the EC2 service. The left-hand navigation pane shows the 'Instances' section under the 'EC2' category. The main content area is titled 'Instances (1/3)' and features a table listing three instances. The first instance, 'my-public-ec2', is in a 'Running' state. Below the table, the details for the selected instance 'i-095dd505d51e89afe (my-public-ec2)' are shown, including its hostname type, private IP DNS name, instance type, VPC ID, subnet ID, and IAM role.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic
<input checked="" type="checkbox"/> my-public-ec2	i-095dd505d51e89afe	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	-	54.175.189.49	-
<input type="checkbox"/> dev-node-01	i-023dd5e9c2f494095	Stopped	t2.micro	-	View alarms +	us-east-1c	-	-	-
<input type="checkbox"/> Windows-VM	i-05fba17b53b061d90	Stopped	t2.micro	-	View alarms +	us-east-1c	-	-	-

i-095dd505d51e89afe (my-public-ec2)

Hostname type IP name: ip-10-0-1-253.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-1-253.ec2.internal
Answer private resource DNS name -	Instance type t2.micro
Auto-assigned IP address 54.175.189.49 [Public IP]	VPC ID vpc-02aebd6af3e6f6bff (my-test-vpc)
IAM Role -	Subnet ID subnet-05ba7f7d6dc8a6bb7 (my-public-subnet)
IMDSv2 Required	Instance ARN arn:aws:ec2:us-east-1:650251719316:instance/i-095dd505d51e89afe
Operator -	Elastic IP addresses -
	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
	Auto Scaling Group name -
	Managed false

- VPC Linked: my-test-vpc
- Subnets Linked: my-public-subnet