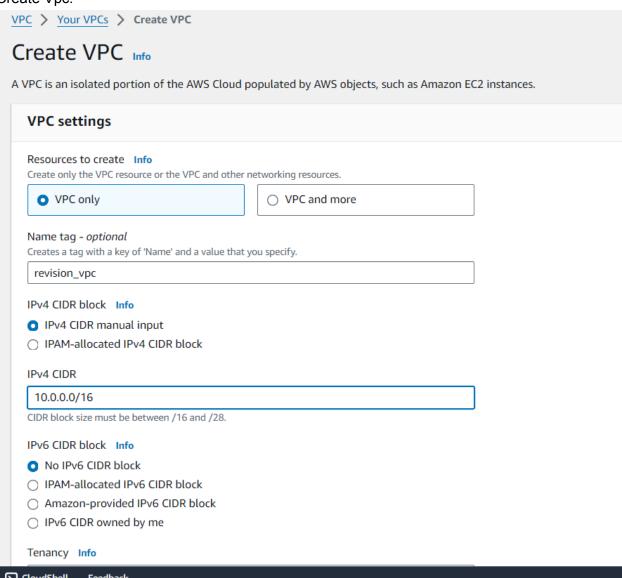
Create Vpc:



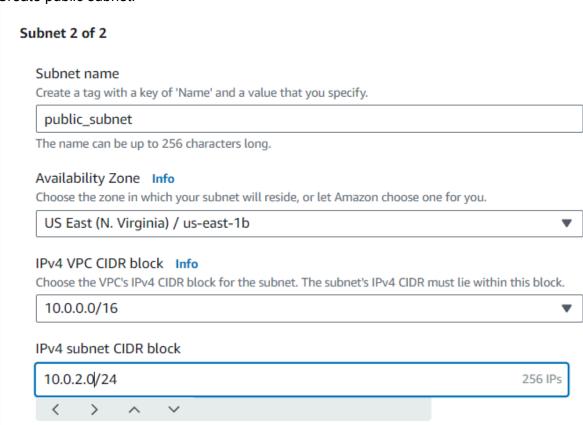
Create private subnet:

▼ Tags - optional

Subnet 1 of 2

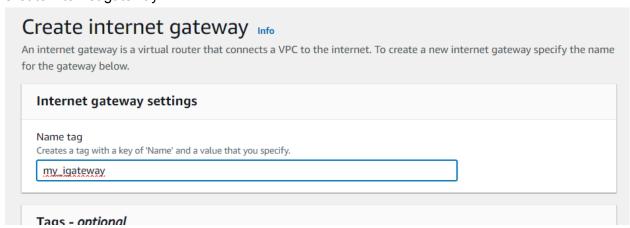
Subnet name Create a tag with a key of 'Name' and a value that you specify. private_subnet The name can be up to 256 characters long. Availability Zone Info Choose the zone in which your subnet will reside, or let Amazon choose one for you. US East (N. Virginia) / us-east-1a IPv4 VPC CIDR block Info Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block. 10.0.0.0/16 IPv4 subnet CIDR block 10.0.1.0/24 256 IPs

Create public subnet:

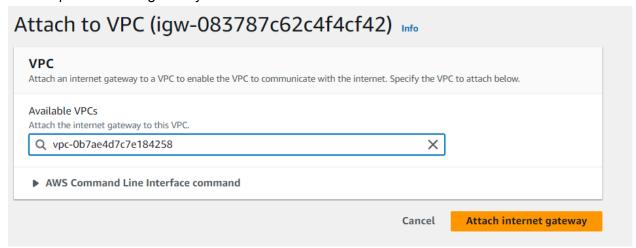


Create internet gateway

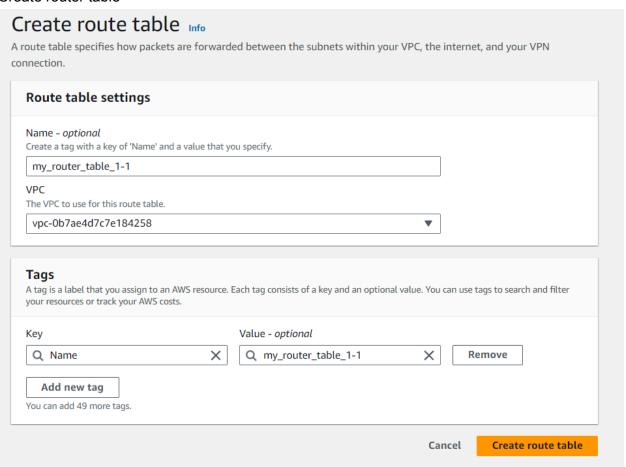
▼ Tags - optional



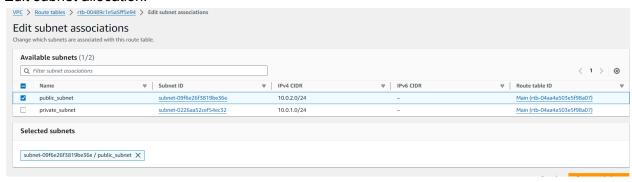
Attach vpc to internet gateway:



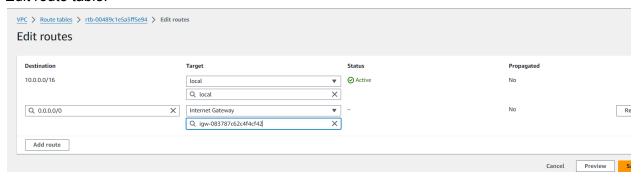
Create router table



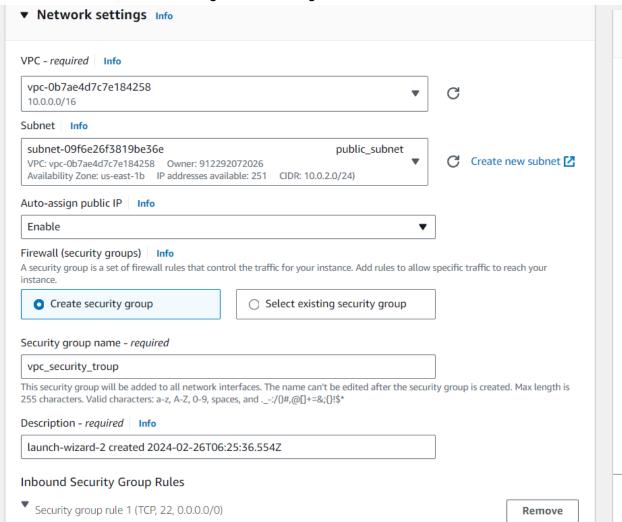
Edit subnet allocation:



Edit route table:



Create ec2 instance with following network configuration:



Install webserver:

Complete! [ec2-user@ip-10-0-2-174 ~]\$ sudo yum install httpd Last metadata expiration check: 0:03:49 ago on Mon Feb 26 06:35:41 2024. Dependencies resolved.

Start webserver:

```
[ec2-user@ip-10-0-2-174 ~]$ sudo service httpd start Redirecting to /bin/systemctl start httpd.service [ec2-user@ip-10-0-2-174 ~]$ [
```

Access the webserver public ip:

```
Redirecting to /bin/systemctl start httpd.service
[ec2-user@ip-10-0-2-174 ~]$

i-ObeOacOfc46851dae (vpc_webserver_instance)

PublicIPs: 23.22.234.0 PrivateIPs: 10.0.2.174
```

WErver server running:



It works!

Now we need to upload our static portfolio website files. For my case i upload a index.html and a image file

To upload the website file we first need to create a temp folder inside the EC2:

```
[ec2-user@ip-10-0-2-30 ~]$ mkdir temp
[ec2-user@ip-10-0-2-30 ~]$ ls
temp
```

Now upload the website files to this temp folder from local machine as:

Now with sudo permission we can move file from temp folder to /var/www/html/ folder inside ec2 machine:

```
[ec2-user@ip-10-0-2-30 ~]$ cd temp
[ec2-user@ip-10-0-2-30 temp]$ ls
index1.html ppss.jpg
[ec2-user@ip-10-0-2-30 temp]$ sudo mv * /var/www/html/
[ec2-user@ip-10-0-2-30 temp]$ cd /var/www/html/
[ec2-user@ip-10-0-2-30 html]$ ls
index1.html ppss.jpg
```

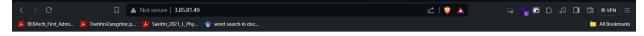
Now start the httpd servers:

```
[ec2-user@ip-10-0-2-30 /]$ sudo service httpd start
Redirecting to /bin/systemctl start httpd.service
```

Now access the side with the public ip of vpc:

```
PublicIPs: 3.85.81.49 PrivateIPs: 10.0.2
```

Finally here we go!! The simple static portfolio is hosted:



Dipesh Tripathi



Hosted file:

In this lab we learn to configure VPC and assign vpc to ec2 and finally host a static website through EC2.