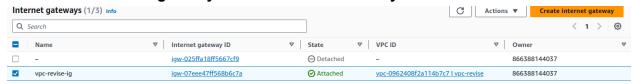
Q) Create a VPC also create a ec2 with amazon linux ami and install the webserver and host you portfolio on the ec2

General steps:

1. Create a vpc first with vpc only option



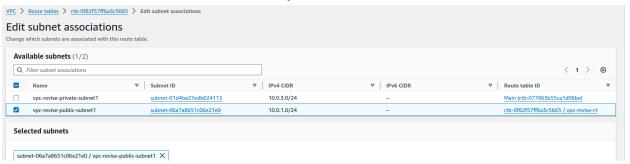
2. Now create a internet gateway and attached to the newly created VPC



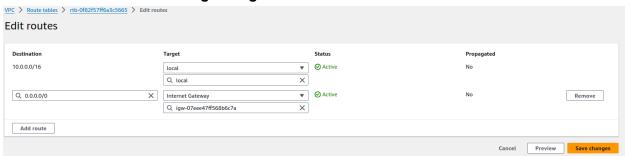
3. Create two subnet one a private subnet and another public subnet



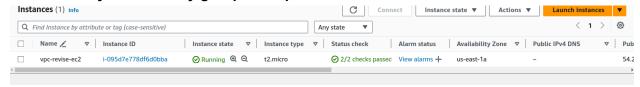
4. Now create a route table and associate a public subnet to it



5. Edit a route with the following configuration



6. Now create an EC2 instance with the created vpc and assign the public subnet there with key and security group as http and ssh



7. Install the web server on the ec2

```
ec2-user@ip-10-0-1-40 ~]$ sudo yum update
ast metadata expiration check: 9:31:29 ago on Fri Mar 1 05:21:23 2024.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-10-0-1-40 ~]$ sudo yum install httpd
ast metadata expiration check: 9:32:01 ago on Fri Mar 1 05:21:23 2024.
Package httpd-2.4.58-1.amzn2023.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-10-0-1-40 ~]$
```

8. Start the server

```
[ec2-user@ip-10-0-1-40 ~]$ sudo service httpd start
Redirecting to /bin/systemctl start httpd.service
[ec2-user@ip-10-0-1-40 ~]$
```

9. Now copy the public ip and paste on the browser

```
i-095d7e778df6d0bba (vpc-revise-ec2)
PublicIPs: 54.221.11.178 PrivateIPs: 10.0.1.40
```

See we are able to access the server through public ip

It works!

10. Now we need to upload our static site on the ec2 machine, to do so create a temp folder inside ec2 and upload the static file there

```
[ec2-user@ip-10-0-1-40 ~]$ mkdir temp
[ec2-user@ip-10-0-1-40 ~]$ ls
temp
[ec2-user@ip-10-0-1-40 ~]$ |
```

11. Now upload the static file from you local machine to ec2

Verify the uploaded file

```
[ec2-user@ip-10-0-1-40 ~]$ cd temp
[ec2-user@ip-10-0-1-40 temp]$ ls
static_site
[ec2-user@ip-10-0-1-40 temp]$ cd static_site/
[ec2-user@ip-10-0-1-40 static_site]$ ls
satish.html satish.jpg
[ec2-user@ip-10-0-1-40 static_site]$
```

12. Move the file to var/www/html

```
[ec2-user@ip-10-0-1-40 temp]$ cd static_site
[ec2-user@ip-10-0-1-40 static_site]$ ls
satish.html satish.jpg
[ec2-user@ip-10-0-1-40 static_site]$ sudo mv * /var/www/html/
[ec2-user@ip-10-0-1-40 static_site]$ ls
```

13. Check the file is moved or not

```
[ec2-user@ip-10-0-1-40 static_site]$ cd /var/www/html/
[ec2-user@ip-10-0-1-40 html]$ ls
satish.html satish.jpg static_site
```

14. Start the server

[ec2-user@ip-10-0-1-40 html]\$ sudo service httpd start
Redirecting to /bin/systemctl start httpd.service

15. Check the status

```
[ec2-user@ip-10-0-1-40 html]$ systemctl status httpd
• httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
     Active: active (running) since Fri 2024-03-01 14:54:24 UTC; 1h 8min ago
      Docs: man:httpd.service(8)
   Main PID: 3302 (httpd)
     Status: "Total requests: 16; Idle/Busy workers 100/0; Requests/sec: 0.00387; Bytes served/sec:
                                                                                                     2 B/sec"
      Tasks: 230 (limit: 1114)
     Memory: 22.1M
        CPU: 2.621s
     CGroup: /system.slice/httpd.service
             ├3302 /usr/sbin/httpd -DFOREGROUND
               -3303 /usr/sbin/httpd -DFOREGROUND
              -3304 /usr/sbin/httpd -DFOREGROUND
              -3305 /usr/sbin/httpd -DFOREGROUND
               -3306 /usr/sbin/httpd -DFOREGROUND
             _3623 /usr/sbin/httpd -DFOREGROUND
```

16. Now acces the static through public ip



FINALLY I AM ABLE TO ACCESS MY STATIC SITE THROUGH MY PUBLIC IP