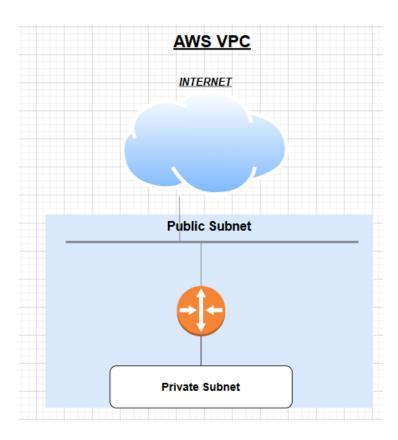
AWS Task-2

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.

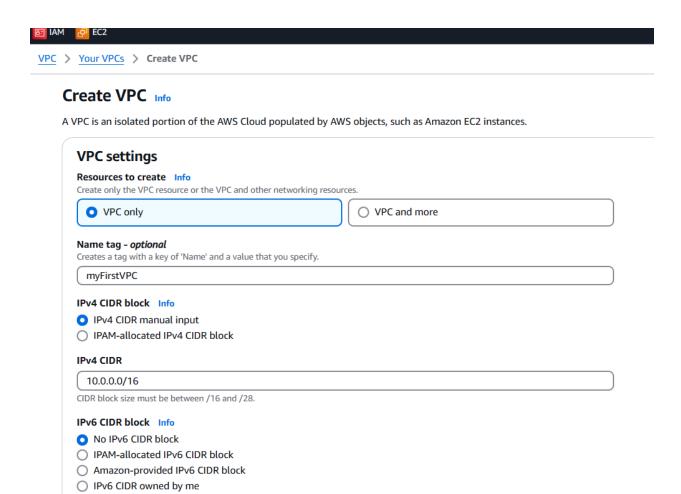
Techstacks needs to be used:

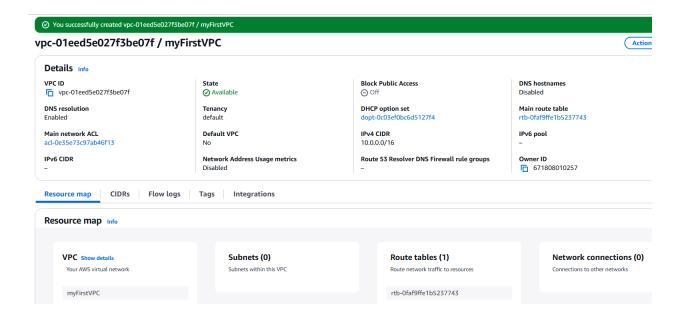
- AWS VPC
- AWS EC2



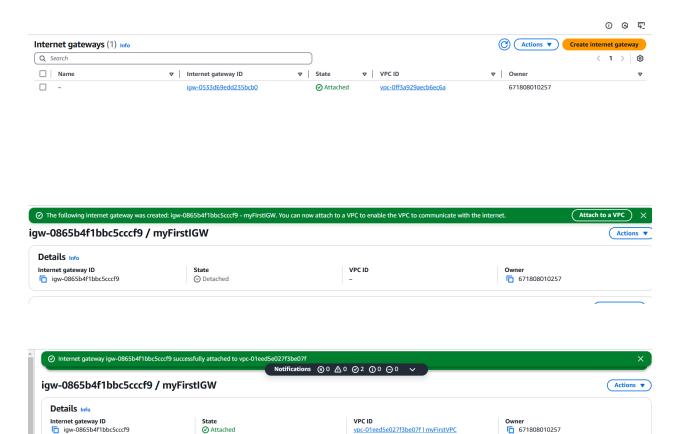
Step1: Create VPC

Tenancy Info





Step2 now create Internet gateway.



Step3 Now create subnets

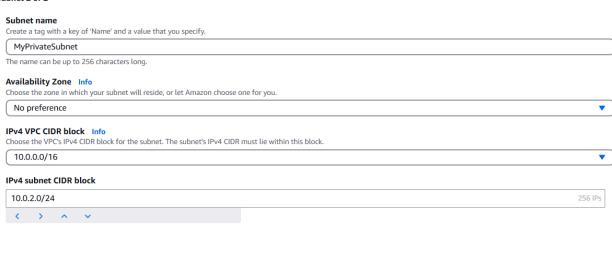
Public subnet

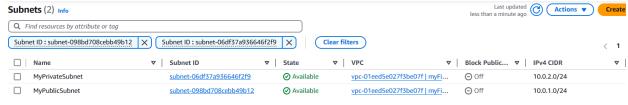
Subnet 1 of 2



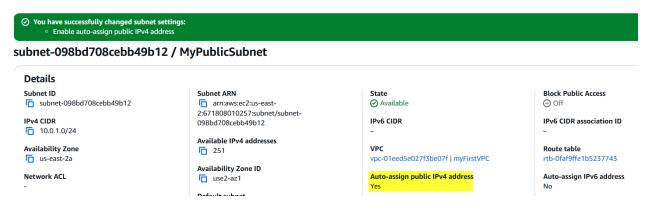
Private Subnet

Subnet 2 of 2





Enable auto assign IPV4 subnet in public subnet



Step 4: Create Route table for public subnet

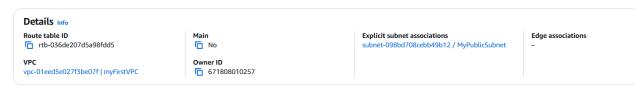


Now update routes and attach to Internet GW to route table



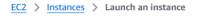
Now add subnet association in Routing table to PublicSubnet and save associations under Routing Table

rtb-036de207d5a98fdd5 / MyPublicRoute



And for private subnet we will not use private subnet to internet therefore we will not associate IGW to private subnet and leave as default

Step 5: Now we launch Linux EC2 instance and select VPC inside in it.

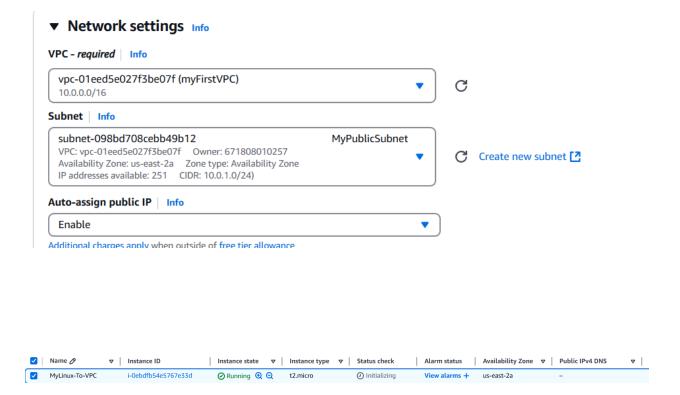


Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.



▼ Application and OS Images (Amazon Machine Image) Info An AMI is a template that contains the software configuration (operating system, application server, and applications) require to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below Q Search our full catalog including 1000s of application and OS images **Quick Start** Recents macOS Ubuntu Red Hat SUSE Linux Amazon Windows Е Linux Browse more AMIs Including AMIs from aws 6 ubuntu[®] Microsoft AWS, Marketplace and SUSE Mac the Community



Connect to EC2 Instance and found the public subnet IP 10.0.1.234 to EC2 instance

```
ec2-user@ip-10-0-1-234 ~]$ ifconfig -a
nX0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001
inet 10.0.1.234 netmask 255.255.255.0 broadcast 10.0.1.255
                                                                                                                                   [ec2-user@ip-10-0-1-234 ~]$ ping 4.2.2.2
                                                                                                                                   PING 4.2.2.2 (4.2.2.2) 56(84) bytes of data.
                                                                                                                                   64 bytes from 4.2.2.2: icmp_seq=1 ttl=51 time=10.2 ms
           inet6 fe80::14:4eff:fe17:46f3 prefixlen 64 scopeid 0x20<link>
ether 02:14:4e:17:46:f3 txqueuelen 1000 (Ethernet)
RX packets 23364 bytes 32776404 (31.2 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 4542 bytes 331959 (324.1 KiB)
                                                                                                                                   64 bytes from 4.2.2.2: icmp_seq=2 ttl=51 time=10.3 ms
                                                                                                                                   --- 4.2.2.2 ping statistics ---
                                                                                                                                  2 packets transmitted, 2 received, 0% packet loss, time 1001ms rtt min/avg/max/mdev = 10.197/10.252/10.307/0.055 ms
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
                                                                                                                                   [ec2-user@ip-10-0-1-234 ~]$ ping 8.8.8.8
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
                                                                                                                                  PING 8.8.8 (8.8.8.9) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=117 time=8.25 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=117 time=8.28 ms
           gg=/3cUP,LODEBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6::1 prefixlen 128 scopeid 0x10<host>
loop txqueuelen 1000 (Local Loopback)
RX packets 12 bytes 1020 (1020.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 12 bytes 1020 (1020.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
                                                                                                                                   --- 8.8.8.8 ping statistics ---
                                                                                                                                  2 packets transmitted, 2 received, 0% packet loss, time 1001ms rtt min/avg/max/mdev = 8.245/8.264/8.283/0.019 ms
ec2-user@ip-10-0-1-234 ~]$
                                                                                                                                   [ec2-user@ip-10-0-1-234 ~]$
```