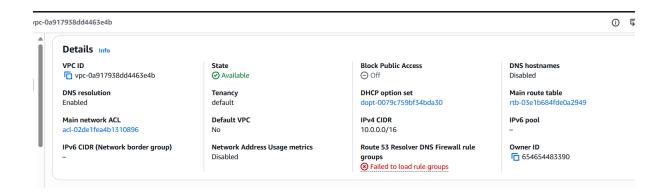
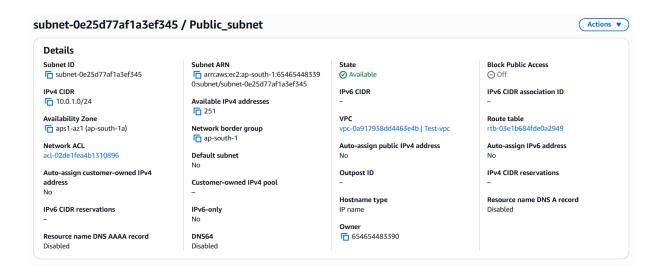
Set up a VPC with an Internet gateway, create a public subnet with 256 IP addresses, a private subnet with 256 IP addresses, make a route table connecting the Internet gateway and the subnets, and launch a Linux EC2 instance by using the above VPC and public subnet.

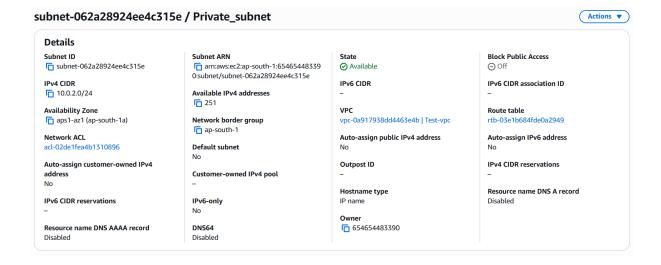
VPC Created:



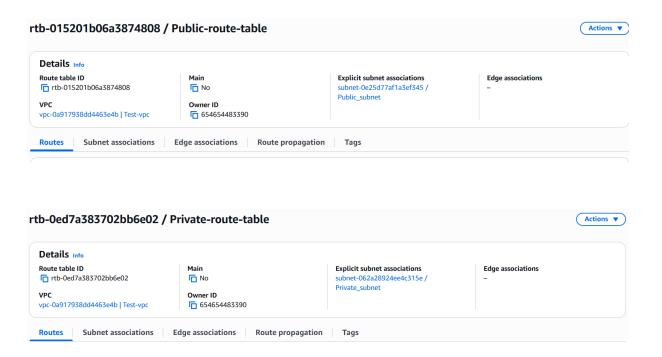
Public Subnet Created:



Private Subnet Created:



Created Route Table:



Created Internet Gateway:



Connected EC2 instance in public subnet:

```
ubuntu@ip-10-0-1-218:~$ netstat -nr
Kernel IP routing table
Destination Gateway Genu
                                                                                             Genmask
                                                                                                                                           Flags
                                                                                                                                                                  MSS Window irtt Iface
0.0.0.0
10.0.0.2
10.0.1.0
10.0.1.1
                                                                                                                                                                       0 0
                                               10.0.1.1
                                                                                             0.0.0.0 UG
255.255.255.255 UGH
255.255.255.0 U
                                                                                                                                                                                                             0 enX0
                                                                                                                                                                                                             0 enX0
                                              0.0.0.0
                                                                                                                                                                        0 0
                                                                                                                                                                                                             0 enX0
 10.0.1.1 0.0.0.0 255.255.255.0 0 0 0 0 enx0

10.0.1.1 0.0.0.0 255.255.255.255 UH 0 0 0 enx0

1. lo: <LOOPBACK, UP, LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000

1ink/loopback 00:00:00:00:00 brd 00:00:00:00:00
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00
inet 127.0.0.1/8 scope host lo
    valid_lft forever preferred_lft forever
inet6 ::1/128 scope host noprefixroute
    valid_lft forever preferred_lft forever

2: enx0: <BROADCAST,MULTICAST,UP,LOWER UP> mtu 9001 qdisc fq_codel state UP group default qlen 1000
link/ether 02:a4:a6:39:60:7d brd ff:ff:ff:ff:
    inet 10.0.1.218/24 metric 100 brd 10.0.1.255 scope global dynamic enx0
    valid_lft 3231sec preferred_lft 3231sec
    inet6 fe80::a4:a6ff:fe39:607d/64 scope link
    valid_lft forever_preferred_lft forever
 valid_lft forever preferred_lft forever
ubuntu@ip-10-0-1-218:~$ ∏
```