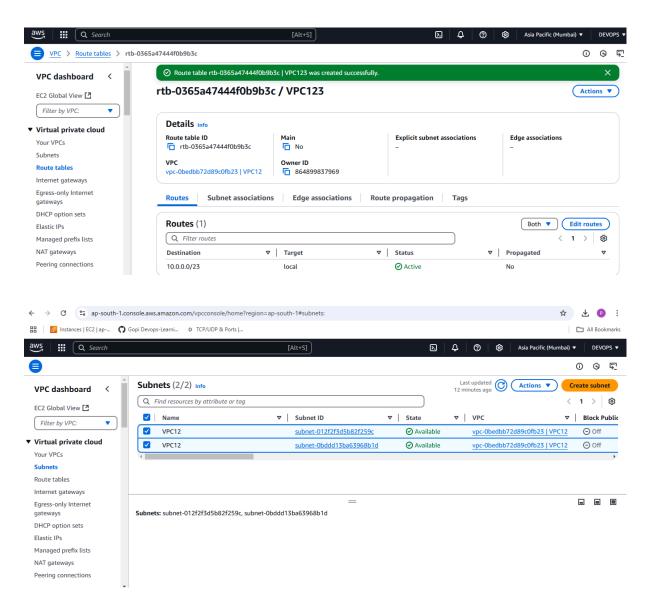Set up a VPC with an Internet gateway, create a public subnet with 256 IP addresses, a private subnet with 256 IP addresses, make a route table connecting the Internet gateway and the subnets, and launch a Linux EC2 instance by using the above VPC and public subnet.

```
root@MYWORLD:~# ls
1.txt  3.txt  95198.pem      ipaddress.pem      missippi.txt  pallavi  qas.pem  rpds.pem  shell     untu.pem
2.pl   4.txt  downloads.txt  ipaddress.pem.pub  new.pem       pols.pem  res.pem  script.sh  test.txt  wedta.pem
root@MYWORLD:~# vi vpc1234.pem
root@MYWORLD:~# chmod 400 "VPC1234.pem"
chmod: cannot access 'VPC1234.pem': No such file or directory
root@MYWORLD:~# mv vpc1234.pem VPC1234.pem
root@MYWORLD:~# ls
1.txt  4.txt       downloads.txt      missippi.txt  pols.pem  rpds.pem   test.txt
2.pl   95198.pem   ipaddress.pem      new.pem       qas.pem   script.sh  untu.pem
3.txt  VPC1234.pem ipaddress.pem.pub  pallavi       res.pem   shell      wedta.pem
root@MYWORLD:~# chmod 400 "VPC1234.pem"
root@MYWORLD:~# ssh -i "VPC1234.pem" ec2-user@ec2-98-81-91-35.compute-1.amazonaws.com
The authenticity of host 'ec2-98-81-91-35.compute-1.amazonaws.com (98.81.91.35)' can't be established.
ED25519 key fingerprint is SHA256:Zns4KDzGGmYW8BS3E8n/8qDd7QTkrcupSsrqrtEO4Ok.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-98-81-91-35.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
    ,       #_
   ~\_  ####_          Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___    https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-172-31-20-155 ~]$
```