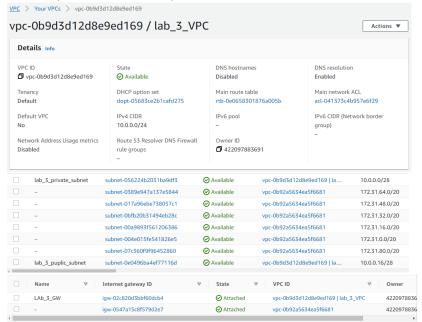
# Lab 3

## Lab3

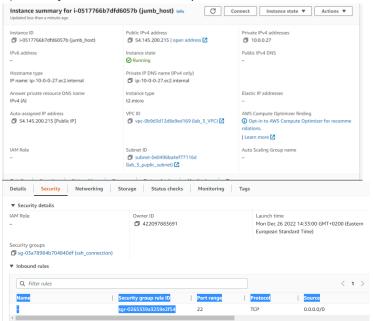
Launch a jump host

Take a screen while you are ssh to the jumphost Also When you ssh from bastion to the private machine Screenshot from the console showing the instances lps

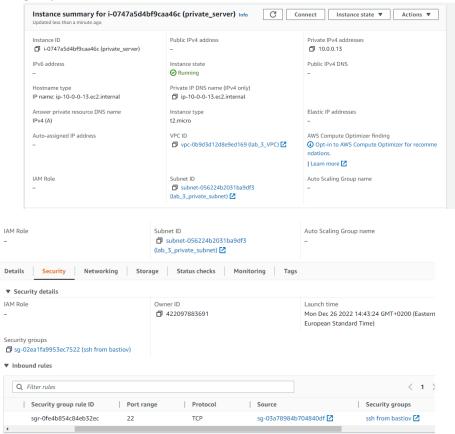
1) Create vpc, Private subnet, public, subnet ,two route table and internet GW



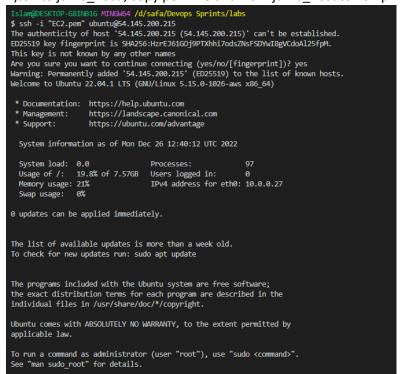
2)create jumb-host instance in public subnet and allow ssh connection only using security group



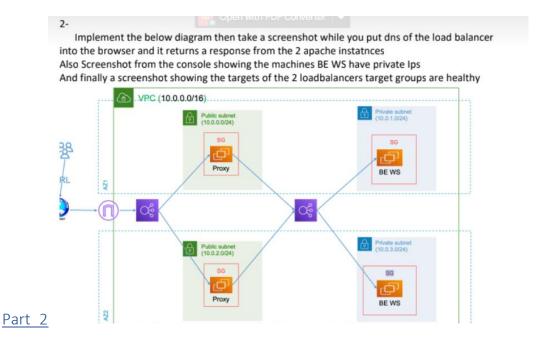
3)create private instance in the private subnet and allow only ssh from jumb\_host 's security group



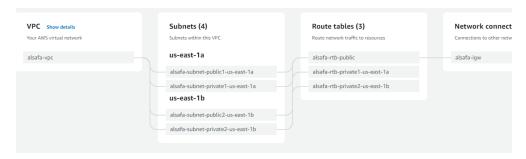
4)ssh to jumb\_host, copy pem file and from jumb\_host ssh on private instance:



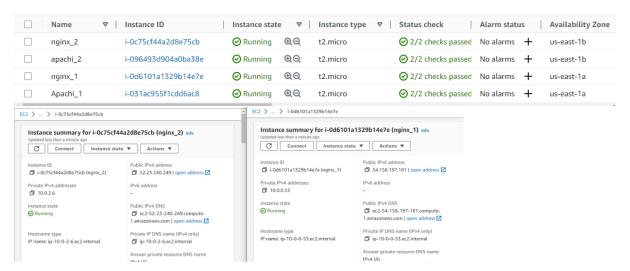
```
ubuntu@ip-10-0-0-27:~$ exit
logout
Connection to 54.145.200.215 closed.
Islam@DESKTOP-G8INB1G MINGW64 /d/safa/Devops Sprints/labs
$ scp -i EC2.pem EC2.pem ubuntu@54.145.200.215:/home/ubuntu/
EC2.pem
Islam@DESKTOP-G8INB1G MINGW64 /d/safa/Devops Sprints/labs
$ ssh -i "EC2.pem" ubuntu@54.145.200.215
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1026-aws x86 64)
 * Documentation: https://help.ubuntu.com
  * Management:
                      https://landscape.canonical.com
  * Support:
                       https://ubuntu.com/advantage
  System information as of Mon Dec 26 12:50:59 UTC 2022
  System load: 0.0
                                         Processes:
                                                                     98
  Usage of /: 20.0% of 7.57GB Users logged in:
                                                                     ø
  Memory usage: 22%
                                         IPv4 address for eth0: 10.0.0.27
  Swap usage: 0%
0 updates can be applied immediately.
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Last login: Mon Dec 26 12:40:13 2022 from 105.40.50.251
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-10-0-0-27:~$ ls
EC2.pem
ubuntu@ip-10-0-0-27:~$ ssh -i EC2.pem ubuntu@10.0.0.13
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1026-aws x86_64)
 * Documentation: https://help.ubuntu.com
 * Management:
                https://landscape.canonical.com
                https://ubuntu.com/advantage
 System information as of Mon Dec 26 12:53:43 UTC 2022
 System load: 0.0
                             Processes:
 Usage of /: 19.7% of 7.57GB Users logged in: 0
Memory usage: 20% IPv4 address for eth0: 10.0.0.13
 Memory usage: 20%
 Swap usage: 0%
0 updates can be applied immediately.
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details.
ubuntu@ip-10-0-0-13:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap
```

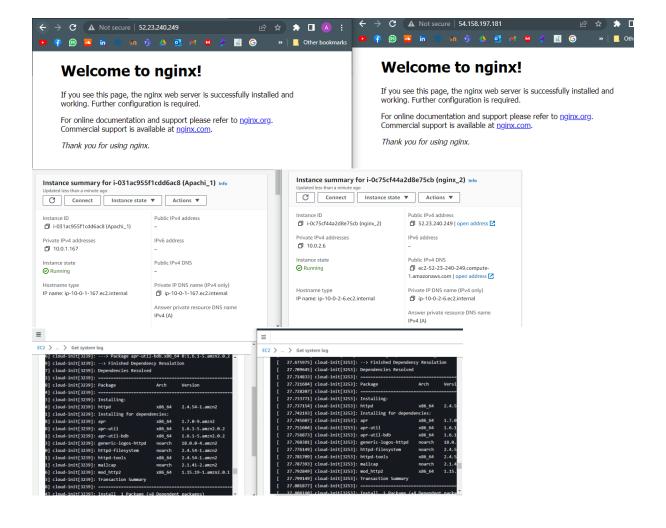


1) create vpc, subnets, and then create nat and attach it to the two private route table:

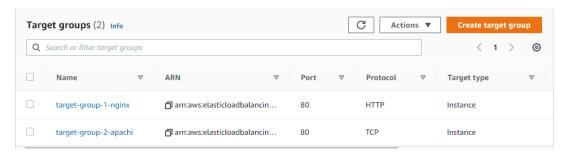


2)create two nginx instance in public subnets and two apachi in private subnet then check the nginx and apachi servers:

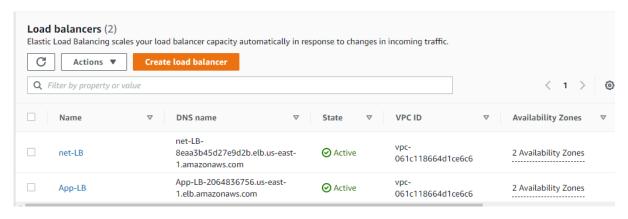




#### 3)create two target group:

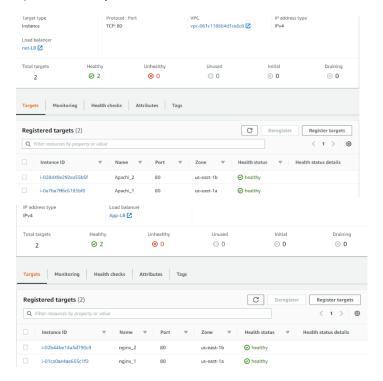


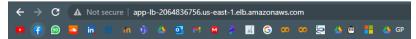
## 4)create application load balancer and net:



## 5) configure each nginx servers:

#### 6) check healthy and load balancer





"Hello World from ip-10-0-1-95.ec2.internal apachi\_1â€□



"Hello World from ip-10-0-3-92.ec2.internal apachi\_2† $\Box$