Load Balancer Project

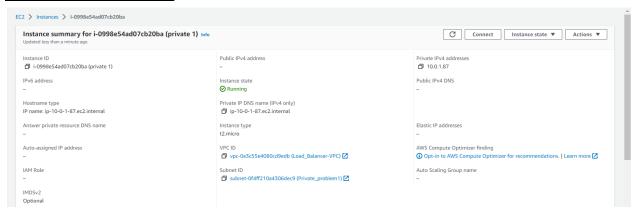
1- Launch a Jump host.

Public IP 35.173.228.101 &

Private IP 10.0.0.102



Private IP 10.0.1.87



ssh from bastion host to private machine

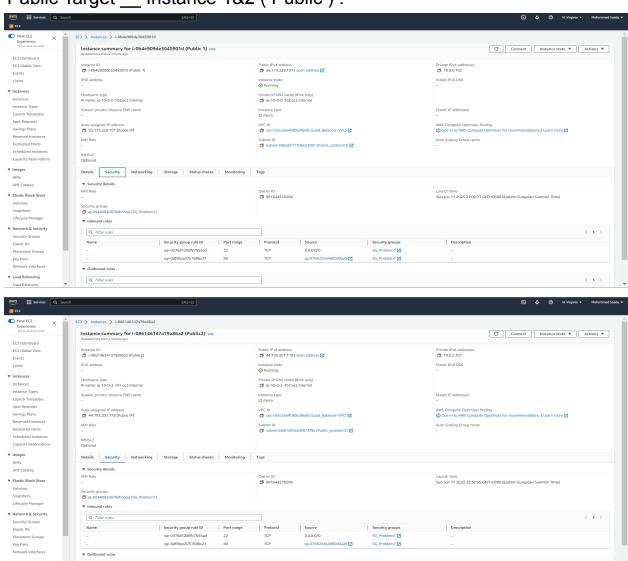
```
ubuntu@ip-10-0-0-102:~$ vi Bastion-Key
ubuntu@ip-10-0-0-102:~$ chmod 400 Bastion-Key
ubuntu@ip-10-0-0-102:~$ ssh -i Bastion-Key ubuntu@10.0.1.87
The authenticity of host '10.0.1.87 (10.0.1.87)' can't be established.
ED25519 key fingerprint is SHA256:eGcfVOdoUH4GBYppN3iUXGNYUBQjANLUvqdZmVKJ6vw.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.1.87' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.19.0-1025-aws x86_64)
 * Documentation: https://help.ubuntu.com
 * Management:
                        https://landscape.canonical.com
                        https://ubuntu.com/advantage
 * Support:
  System information as of Sun Jun 11 18:05:17 UTC 2023
  System load: 0.02978515625
Usage of /: 20.6% of 7.57GB
                                                                          99
                                           Users logged in:
  Memory usage: 23%
                                           IPv4 address for eth0: 10.0.1.87
  Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
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.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '10.0.1.87' (ED25519) to the list of known hosts. Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.19.0-1025-aws x86_64)
 * Documentation: https://help.ubuntu.com

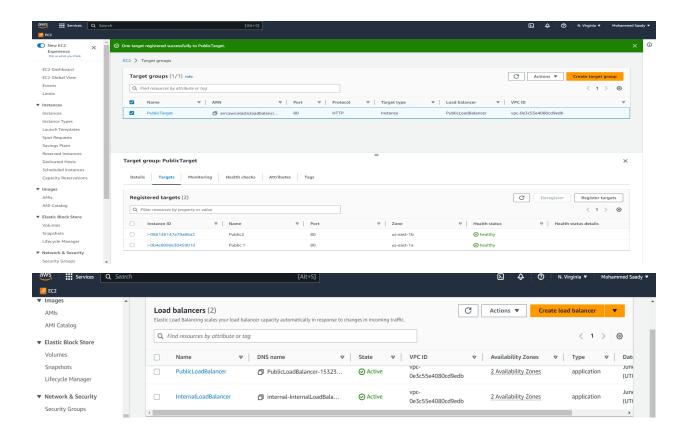
* Management: https://landscape.canonical.com

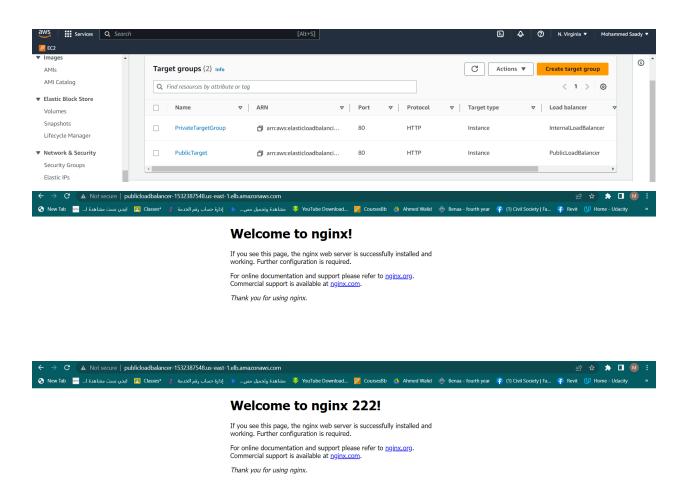
* Support: https://ubuntu.com/advantage
  System information as of Sun Jun 11 18:05:17 UTC 2023
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 nable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
 o 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-10-0-1-87:~$ ls
ubuntu@ip-10-0-1-87:~$
```

2- Creating 2 Proxies connected to load balancer leading to 2 Nginx servers connected to load balancer

Pablic Target __ Instance 1&2 (Public) :-







Configuration Nginx

```
## Services Q Search [Alt+5]

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***User www-data?

**worker processes auto;

**poid /run/nginx.pid;

**Include /etc/nginx/modules-enabled/*.conf;

**worker_connections 768;

**multi_accept on;

}

**http {

**server |

**listen 80;

**location / {

**proxy_pass http://:internal-InternalLoadBalancer-859658911.us-east-1.elb.amazonaws.com

}

**Basic Settings

**sendfile on;

**top_nopush on;

**types_hash max_size 2048;

**INERT --

**INE
```

Auto Scaling

