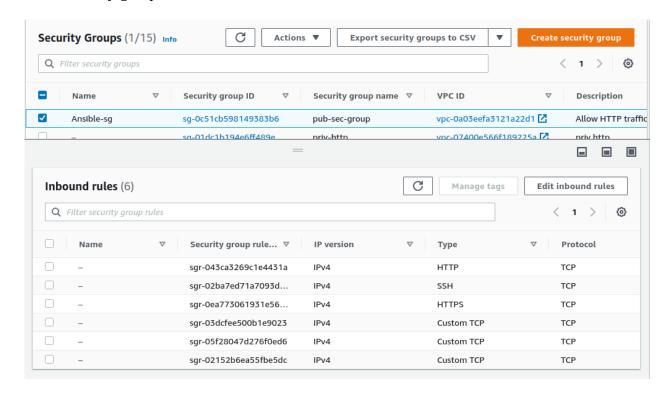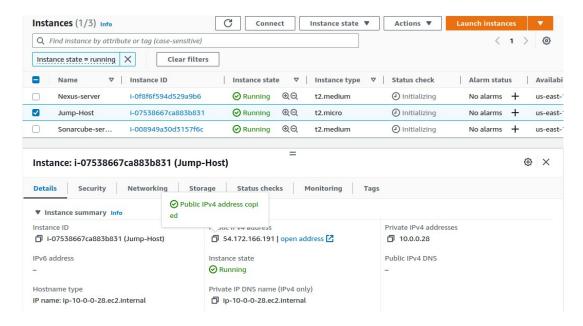Name: Salma Ashraf
Lab2: Ansible

1- Building infrastructure.
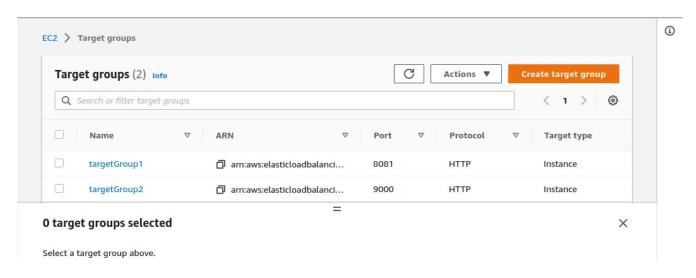
- Create VPC with 4 Subnets (2 Public & 2 Private)
- Create NAT and internet gateways.
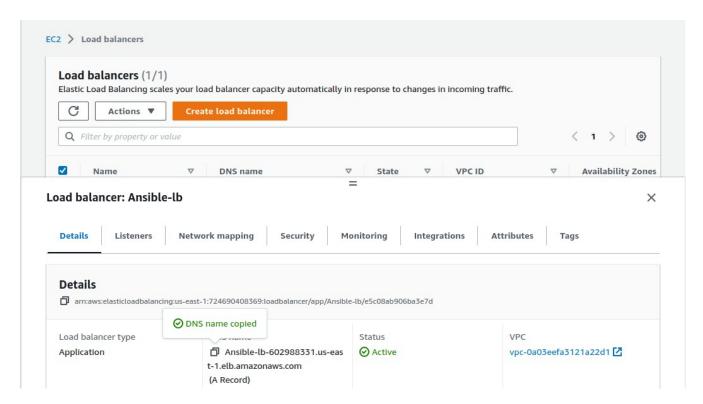- Create Security group and attach it.

- Launch 3 instances (1 public Jump Host & 2 private ones)

- Create Target groups and Load Balancer.

- In terminal: vi ~/.ssh/config

```
Host jump-host
        hostname 54.172.166.191
        user ubuntu
        port 22
        identityfile /home/salma/Desktop/Ansible/Task2/ansible-key.pem
~
~
~
~
~
~
~
~
~
~
~
~
                                                        2,31            All
```

2- Creating Roles through ansible-galaxy

```
salma @ Thu Feb 16 > ansible-galaxy init roles/nexus1
- Role roles/nexus1 was created successfully
salma @ Thu Feb 16 > ansible-galaxy init roles/sonarcube1
- Role roles/sonarcube1 was created successfully
salma @ Thu Feb 16 >
```

- Writing inventory &Playbook.

-Run Playbook.

For Nexus:

Following steps in this link:

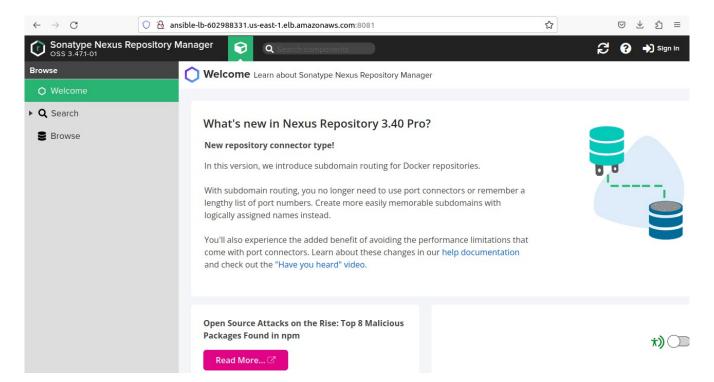https://devopscube.com/how-to-install-latest-sonatype-nexus-3-on-linux/

For Sonarcube:

Following steps in this link: Installing postgres and sonarqube.

https://www.vultr.com/docs/install-sonarqube-on-ubuntu-20-04-lts/

```
packages/ansible/plugins/filter/mathstuff.py) as it seems to be invalid: cannot
import name 'environmentfilter' from 'jinja2.filters'
(/home/salma/.local/lib/python3.8/site-packages/jinja2/filters.py)
skipping: [sonarcube]

TASK [sonarcube : Create a systemd service file to start SonarQube at system bo
ot] ***
ok: [sonarcube]

TASK [sonarcube : reboot the machine] ***************************************
*
changed: [sonarcube]

PLAY RECAP ***************************************************************
*
jump-host                   : ok=2    changed=0    unreachable=0    failed=0
skipped=0    rescued=0    ignored=0
nexus                       : ok=14   changed=4    unreachable=0    failed=0
skipped=0    rescued=0    ignored=0
sonarcube                   : ok=24   changed=8    unreachable=0    failed=0
skipped=1    rescued=0    ignored=0
```

At port: 8081

but for port: 9000 this error shows:

502 Bad Gateway