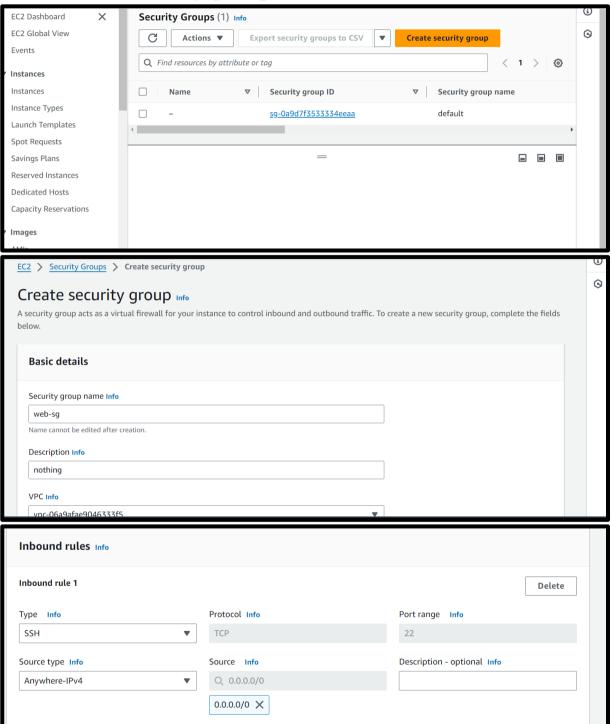


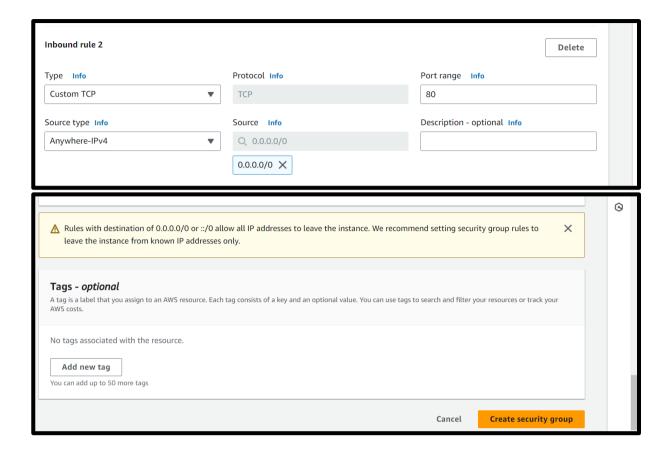
ASSIGNMENT-2

❖ Load balancer

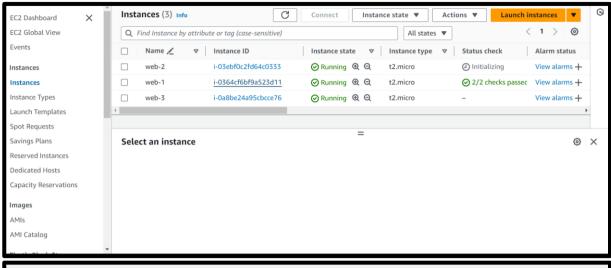
Name: Bontha lakshmi prasanna Gmail: <u>prannapranna36@gmail.com</u>

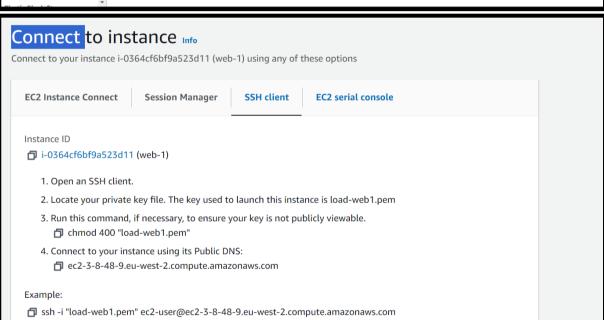
❖ Create security group





***** Create three instances





❖ Connect load-1

Now we have to Install nginx in load-1

```
ransaction Summary
Install 7 Packages
Total download size: 1.0 M
Installed size: 3.4 M
Downloading Packages:
(1/7): generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch.rpm
(2/7): ibuwnind-1.4.0-5.amzn2023.0.2.x86_64.rpm
(3/7): gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64.rpm
(4/7): nginx-124.0-1.amzn2023.0.2.x86_64.rpm
(5/7): nginx-core-1.24.0-1.amzn2023.0.2.x86_64.rpm
(6/7): nginx-core-1.24.0-1.amzn2023.0.2.x86_64.rpm
(6/7): nginx-diesystem1.24.0-1.amzn2023.0.2.noarch.rpm
(7/7): nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch.rpm
       al ning transaction check succeeded. In a control of the control o
  nstalled:
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
nginx-1:1.24.0-1.amzn2023.0.2.x86_64
nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
                                                                                                                                                  gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64
                                                                                                                                                                                                                                                                                      libunwind-1.4.0-5.amzn2023.0.2.x86_64
nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch
 Complete!
[root@ip-172-31-19-120 ~]#|
Complete!
root@ip-172-31-19-120 ~]# cd /usr/share/nginx/html
root@ip-172-31-19-120 html]# rm index.html
m: remove regular file 'index.html'? yes
[root@ip-172-31-19-120 html]# vi index.html
this is webserver1
Complete!
[root@ip-172-31-19-120 ~]# cd /usr/share/nginx/html
[root@ip-172-31-19-120 html]# rm index.html
rm: remove regular file 'index.html'? yes
 [root@ip-172-31-19-120 html]# vi index.html
  [root@ip-172-31-19-120 html]# systemctl restart nginx
  [root@ip-172-31-19-120 html]#
                                                   ⚠ Not secure 3.8.48.9
```

this is webserver1

➤ Now we have to Install nginx in load-2

```
aminidurga@LAPTOP-H3IERLUG MINGW64 /d/AWS Keys
ssh -i "load-web1.pem" ec2-user@ec2-13-40-108-21.eu-west-2.compute.amazonaws.com
te authenticity of host 'ec2-13-40-108-21.eu-west-2.compute.amazonaws.com (13.40.108.21)' can't be established.
D25519 key fingerprint is SHA256:VOXBmRq/WpbUtxnQBZE/lvlgxOrFQnnfwWu7XA+clzY.
This key is not known by any other names.
The you sure you want to continue connecting (yes/no/[fingerprint])?
The you sure you want to continue connecting (yes/no/[fingerprint])?
The you sure you want to continue connecting (yes/no/[fingerprint])?
The you sure you want to continue connecting (yes/no/[fingerprint])?
The you sure you want to continue connecting (yes/no/[fingerprint])?
The you sure you want to continue connecting (yes/no/[fingerprint])?
The you sure you want to continue connecting (yes/no/[fingerprint])?
The you sure you want to continue connecting (yes/no/[fingerprint])?
The you want to continue connecting (yes/no/[fingerprint])?
                                                                                                      Amazon Linux 2023
                                                                                                      https://aws.amazon.com/linux/amazon-linux-2023
_/m/' -'
[ec2-user@ip-172-31-42-144 ~]$|
```

Lrootwip-1/2-31-11-10s ~]# yum upgate -y Last metadata expiration check: 0:21:28 ago on Thu Jul 4 13:58:24 2024. Dependencies resolved. Nothing to do. Complete! [rootwip-172-31-11-165 ~]# yum install nginx -y Last metadata expiration check: 0:21:41 ago on Thu Jul 4 13:58:24 2024. Dependencies resolved.							
Package	Architecture	Version		Reposi	tory		Size
Installing: nginX Installing dependencies: generic-logos-httpd gperftools-libs libumwind nginx-core nginx-filesystem nginx-minetypes	x86_64 noarch x86_64 x86_64 x86_64 noarch noarch	18.0.0-1 2.9.1-1. 1.4.0-5. 1:1.24.0 1:1.24.0	-1.amzn2023.0.2 2.amzn2023.0.3 amzn2023.0.3 amzn2023.0.2 -1.amzn2023.0.2 -1.amzn2023.0.2 -1.amzn2023.0.2	amazor amazor amazor amazor amazor amazor amazor	nlinux nlinux nlinux nlinux nlinux		32 k 19 k 308 k 66 k 586 k 9.1 k 21 k
Transaction Summary							
Install 7 Packages							
Total download size: 1.0 M Installed size: 3.4 M Downloading Packages: (1/7): generic-logos-httpd-18.0.0-1 (2/7): libumvind-1.4.0-5.amzn2023.0 (3/7): gperficod-1itb-2.1.1.1.2.0.1 (3/7): gpirm-1.2.1.2.1.2.1.2.0.1 (3/7): ngirm-filesystem-1.24.0-1.amcn2023 (7/7): ngirx-core-1.24.0-1.amzn2023 (7/7): ngirx-mimetypes-2.1.49-3.amz	.2.x86_64.rpm 2023.0.3.x86_64.rpm x86_64.rpm zn2023.0.2.noarch.rpm .0.2.x86_64.rpm				294 kB/s 978 kB/s 3.7 MB/s 1.6 MB/s 569 kB/s 14 MB/s 768 kB/s	66 kB 308 kB 32 kB 9.1 kB 586 kB 21 kB	00:00 00:00 00:00 00:00 00:00 00:00
Running transaction check Transaction check succeeded. Running transaction test Transaction test succeeded. Running transaction Preparing Running scriptlet: nginx-filesyst Installing : nginx-filesyst Installing : nginx-filesyst Installing : libunwind-I	em-1:1.24.0-1.amzn2023.0 em-1:1.24.0-1.amzn2023.0 s-2.1.49-3.amzn2023.0.3.r 0-5.amzn2023.0.2.x86_6 s-2.9.1-1.amzn2023.0.3.x	.2.noarch noarch			311 13/3		1/1 1/7 1/7 2/7 3/7 4/7
Running scriptlet: nginx-11.24.0 Verifying : generic-logos- Verifying : gperftcols-lib Verifying : libunwind-1.4. Verifying : nginx-11.24.0 Verifying : nginx-core-lib Verifying : nginx-core-lib Verifying : nginx-mimetype	-1.amzn2023.0.2.x86.64 -1.amzn2023.0.2.x86.64 -1.amzn2023.0.2.x86.64 -2.9.1-1.amzn2023.0.3.x6 -1.amzn2023.0.2.x86.64 -1.amzn2023.0.2.x86.64 -24.0-1.amzn2023.0.2.x86.64 -24.0-1.amzn2023.0.2.x86.64 -24.0-1.amzn2023.0.3.x6	36_64 .64 2.noarch					7/7 7/7 1/7 2/7 3/7 4/7 5/7 6/7
Installed: generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64 libunwind-1.4.0-5.amzn2023.0.2.x86_64 nginx-1:1.24.0-1.amzn2023.0.2.x86_64 nginx-1:1.24.0-1.amzn2023.0.2.x86_64 nginx-1:1.24.0-1.amzn2023.0.2.x86_64 nginx-1:1.24.0-1.amzn2023.0.2.x86_64 nginx-filesystem-1:1.24.0-1.amzn2023.0.2.x86_64 nginx-filesystem-1:1.24.0-1							ch

⚠ Not secure 13.40.108.21

this is webserver2

➤ Now we have to Install nginx in load-3

```
https://aws.amazon.com/linux/amazon-linux-2023
  [ec2-user@ip-172-31-11-165 ~]$
   rootelp-1/2-si-ii-los ~j# yum upoate -y
ast metadata expiration check: 0:21:28 ago on Thu Jul 4 13:58:24 2024.
ependencies resolved.
          lete!
@ip-172-31-11-165 -]# yum install nginx -y
metadata expiration check: 0:21:41 ago on Thu Jul 4 13:58:24 2024.
idencies resolved.
                                                                                         Architecture
                                                                                                                                                       Version
                                                                                                                                                                                                                                                         Repository
                                                                                                                                                                                                                                                                                                                                   Size
                                                                                         x86 64
                                                                                                                                                       1:1.24.0-1.amzn2023.0.2
                                                                                                                                                                                                                                                                                                                                   32 k
  nginx
Installing dependencies:
conoris-logos-httpd
                                                                                                                                                      18.0.0-12.amzn2023.0.3
2.9.1-1.amzn2023.0.3
1.4.0-5.amzn2023.0.2
1:1.24.0-1.amzn2023.0.2
1:1.24.0-1.amzn2023.0.2
2.1.49-3.amzn2023.0.3
                                                                                                                                                                                                                                                                                                                                  19 k
308 k
66 k
586 k
9.1 k
  Install 7 Packages
   oral download size: 1.0 M
nstalled size: 3.4 M
ownloading Packages:
1/7): generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch.rpm
2/7): ibumwind-1.4.0-5.amzn2023.0.2.x86.64.rpm
3/7): gperftcols-lbs-2.9.1-1.amzn2023.0.3.x86.64.rpm
4/7): nginx-1.24.0-1.amzn2023.0.2.x86.64.rpm
5/7): nginx-filesystem-1.24.0-1.amzn2023.0.2.noarch.rpm
6/7): nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch.rpm
        istalling
inning scriptlet:
irifying
irifying
irifying
irifying
irifying
  nstalled:

generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch

nginx-1:1.24.0-1.amzn2023.0.2.x85_64

nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
                                                                                                                                                                                                                             libunwind-1.4.0-5.amzn2023.0.2.x86_64
nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch
                                                                                                                     gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64
   complete!
  nstalled:
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
nginx-1:1.24.0-1.amzn2023.0.2.x86_64
nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
                                                                                                                      gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64
                                                                                                                                                                                                                             libunwind-1.4.0-5.amzn2023.0.2.x86_64
nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch
      mplete!

pot@ip-172-31-11-165 -]# cd /usr/share/nginx/html

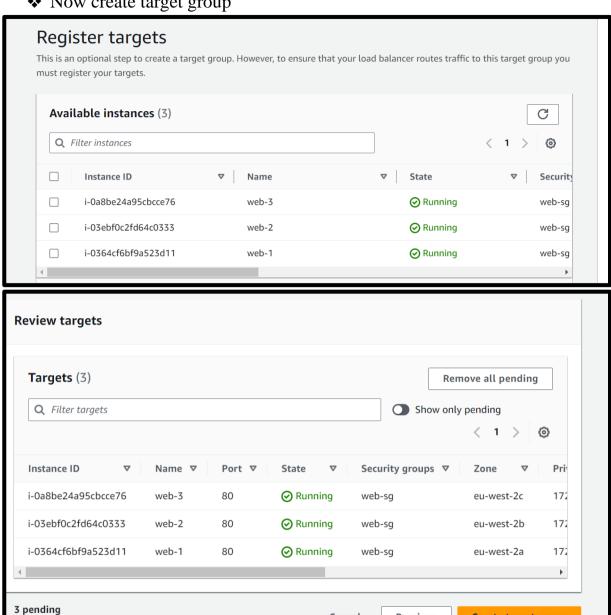
pot@ip-172-31-11-165 html]# rm index.html

remove regular file 'index.html'? yes

pot@ip-172-31-11-165 html]# vi index.html
```



❖ Now create target group

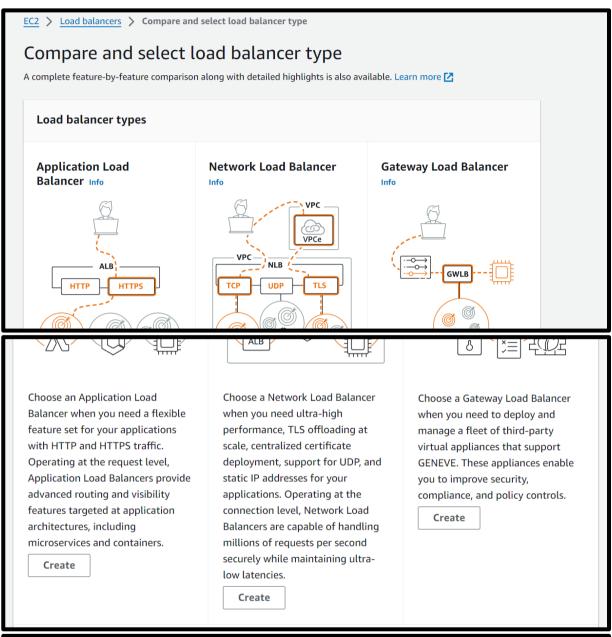


Previous

Cancel

Create target group

Create load balancer

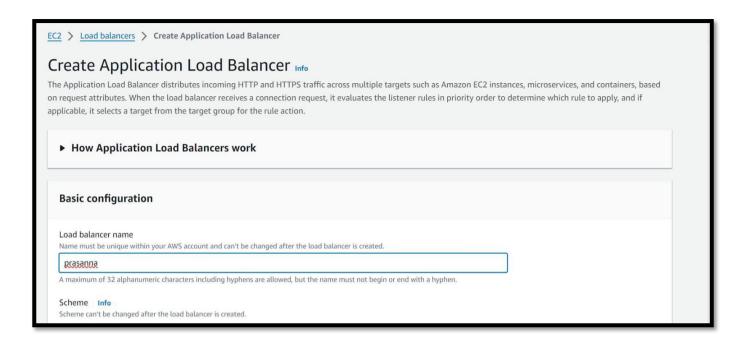


EC2 > Load balancers > Create Application Load Balancer

Create Application Load Balancer Info

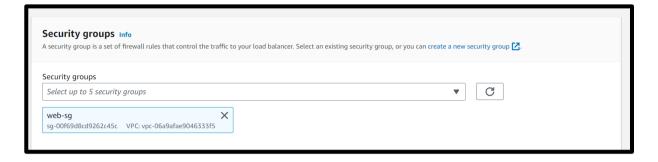
The Application Load Balancer distributes incoming HTTP and HTTPS traffic across multiple targets such on request attributes. When the load balancer receives a connection request, it evaluates the listener reapplicable, it selects a target from the target group for the rule action.

▶ How Application Load Balancers work

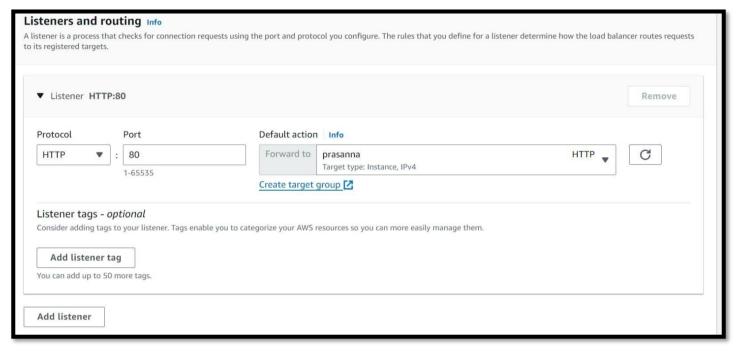


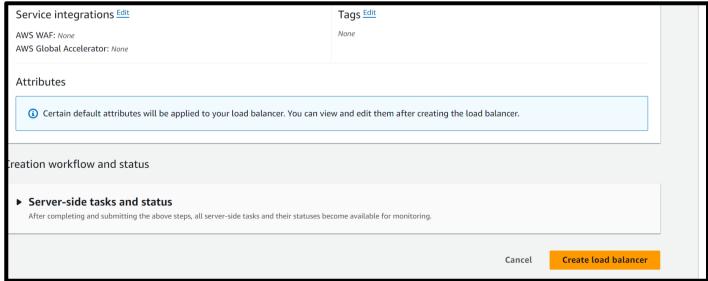


❖ Attach security group



❖ Attach target group

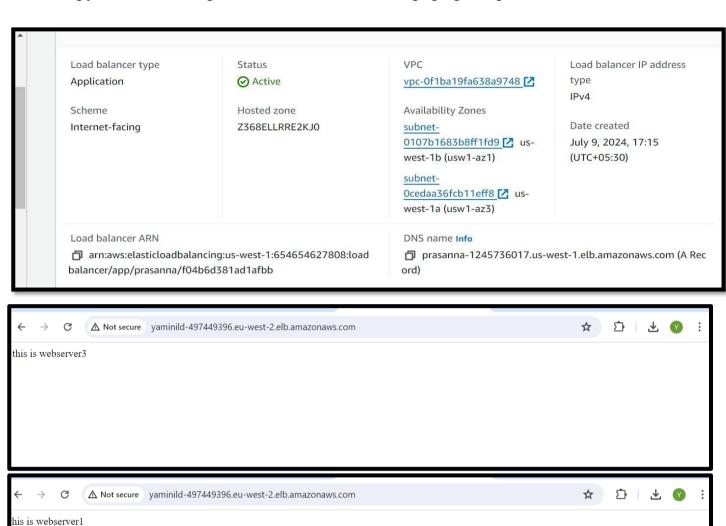




❖ Copy DNS link and paste it on browser and the page gets update

→ C A Not secure yaminild-497449396.eu-west-2.elb.amazonaws.com

this is webserver2



☆ ▷ □ ★ 🕠