Karthik Pradeep Hegadi

2KE20CS032

Assignment 41

Understood. To follow the provided instructions and create the files/directory using the same name and case as provided in the task steps, please provide me with the specific names and case instructions for the files/directory you want to create.

AWS

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Assignment:8 Load_Configure Application Load Balancer

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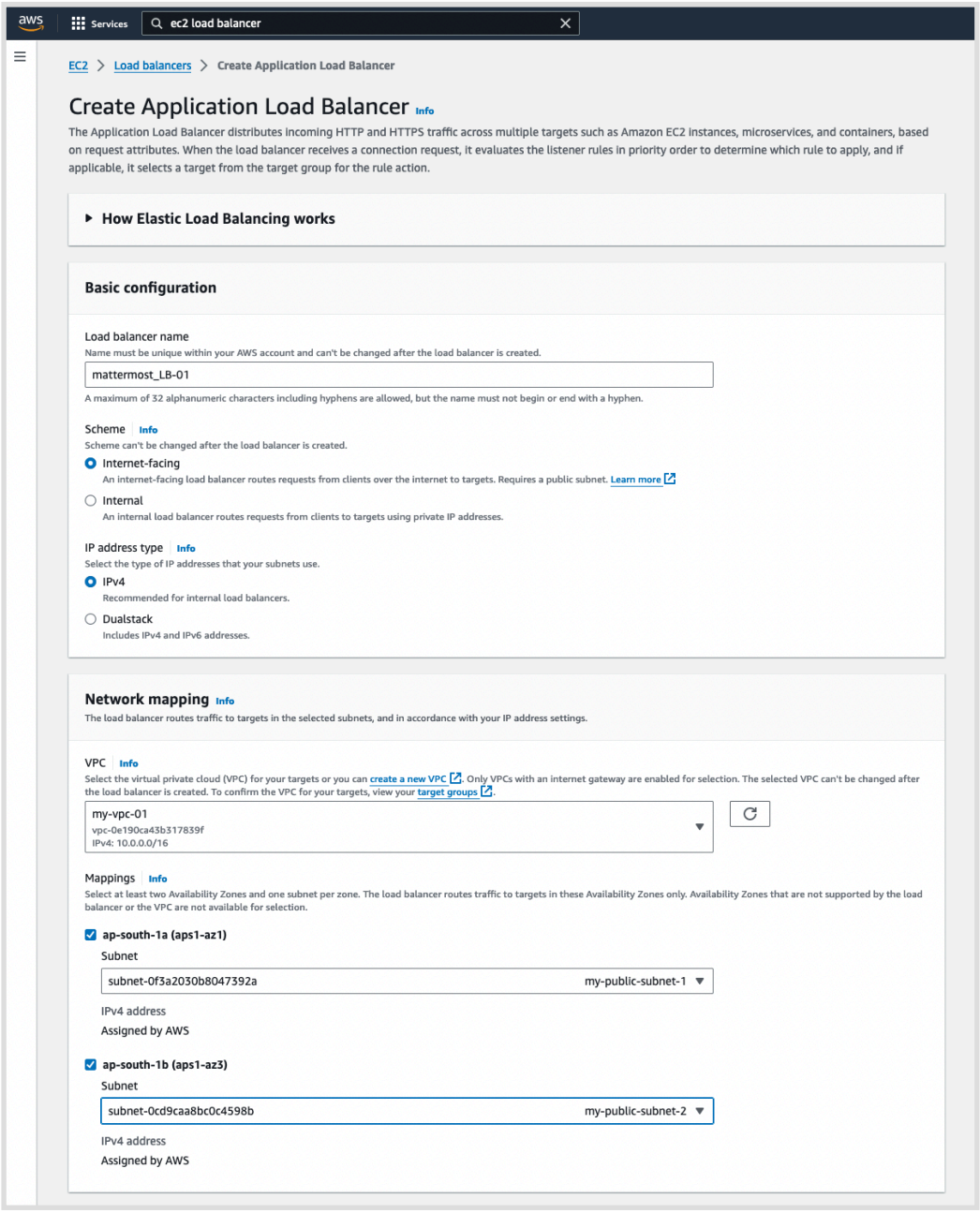
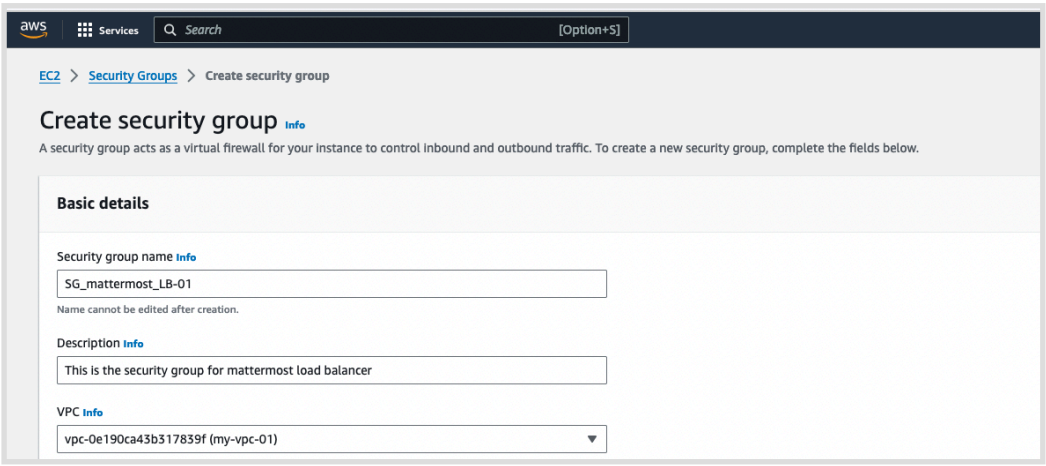
Create Application Load Balancer

1. Navigate to EC2 Load Balancer and click on Create Load Balancer
2. In the Load Balancer type choose Application Load Balancer and click on Create option
3. Provide the load balancer name, select Internet-facing, and IPv4 address type
4. In the network mapping select your VPC
5. In the subnet mapping select the availability zones and select public subnets that you have created from the dropdown

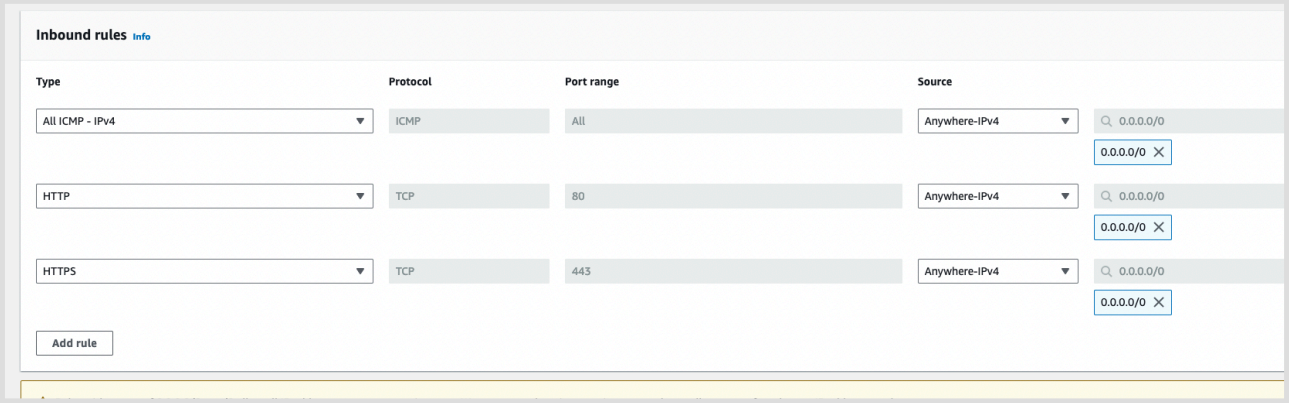


6. In the Security groups, click on create new security group and create as inbound and outbound rules as below

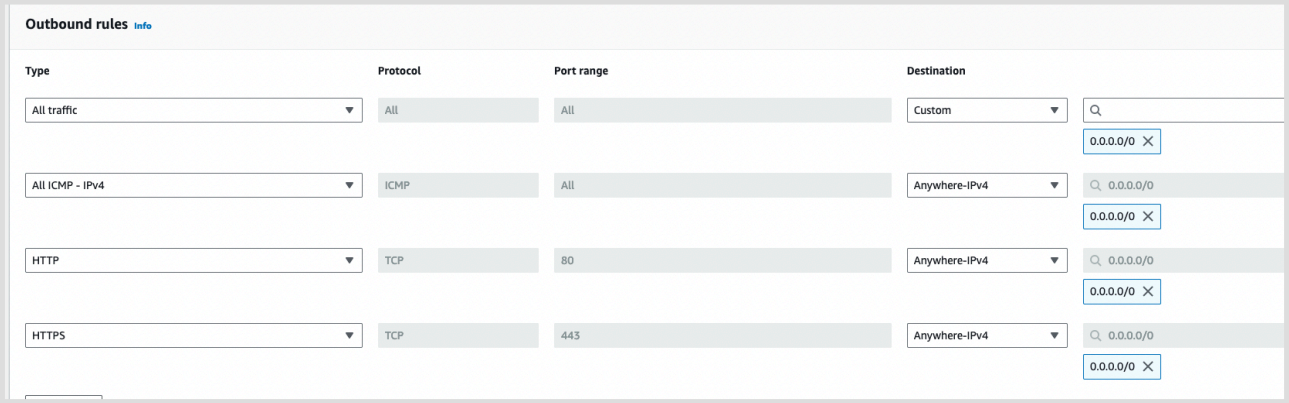


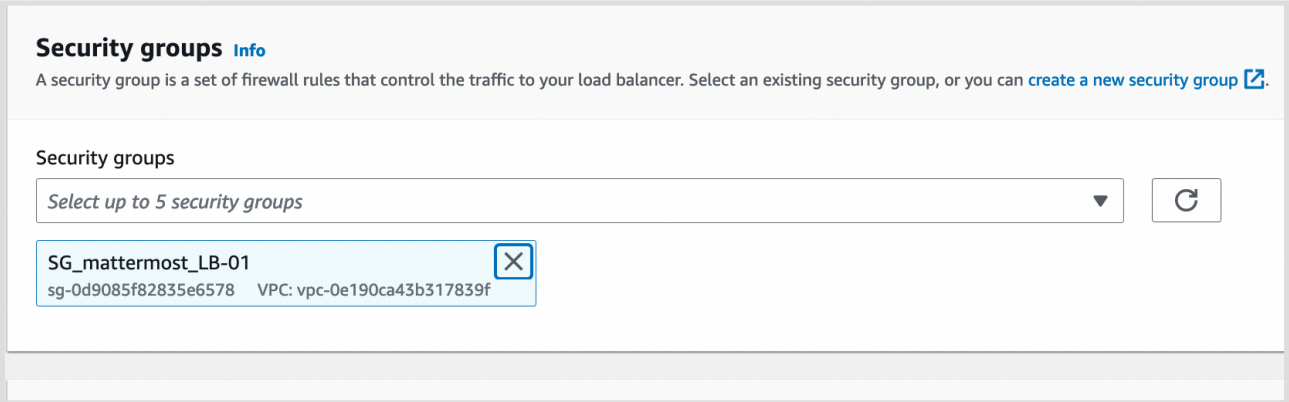
7. Once you create, select the security group and map it

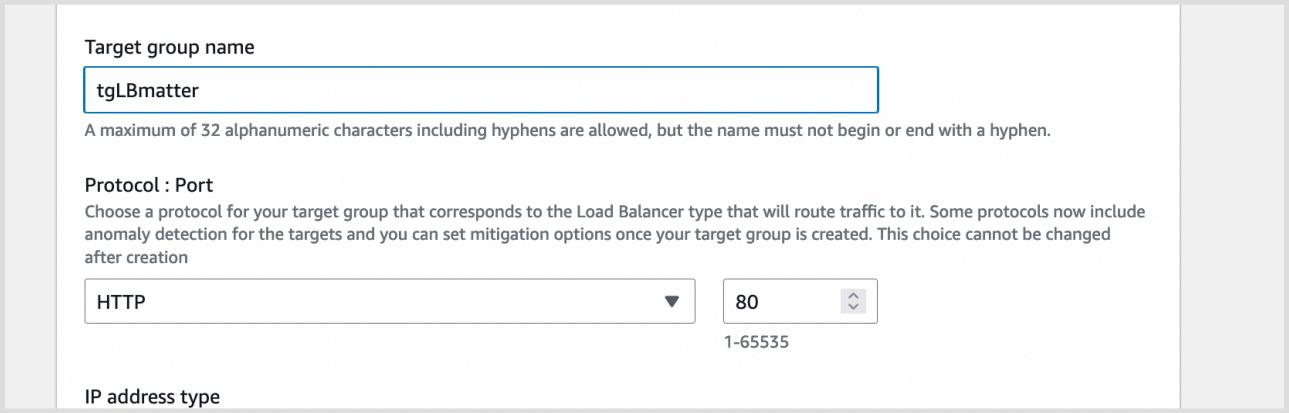
INBOUND



OUTBOUND



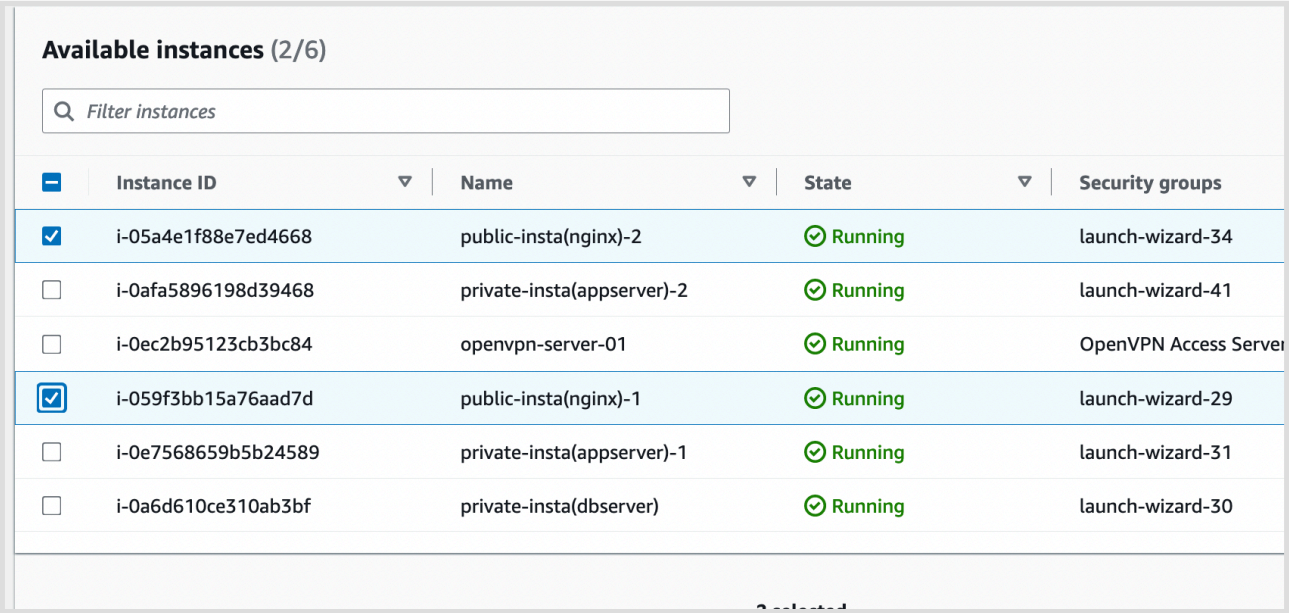


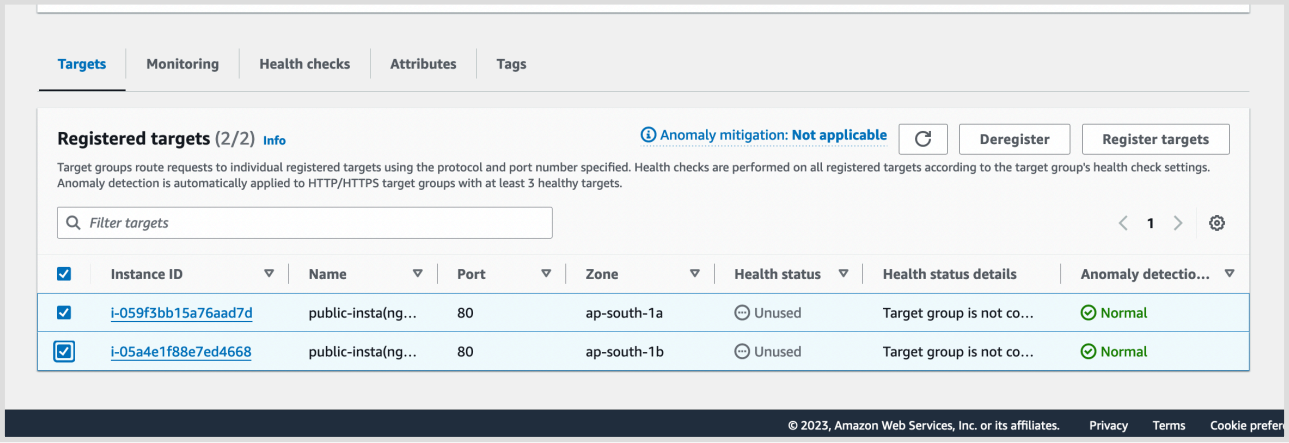


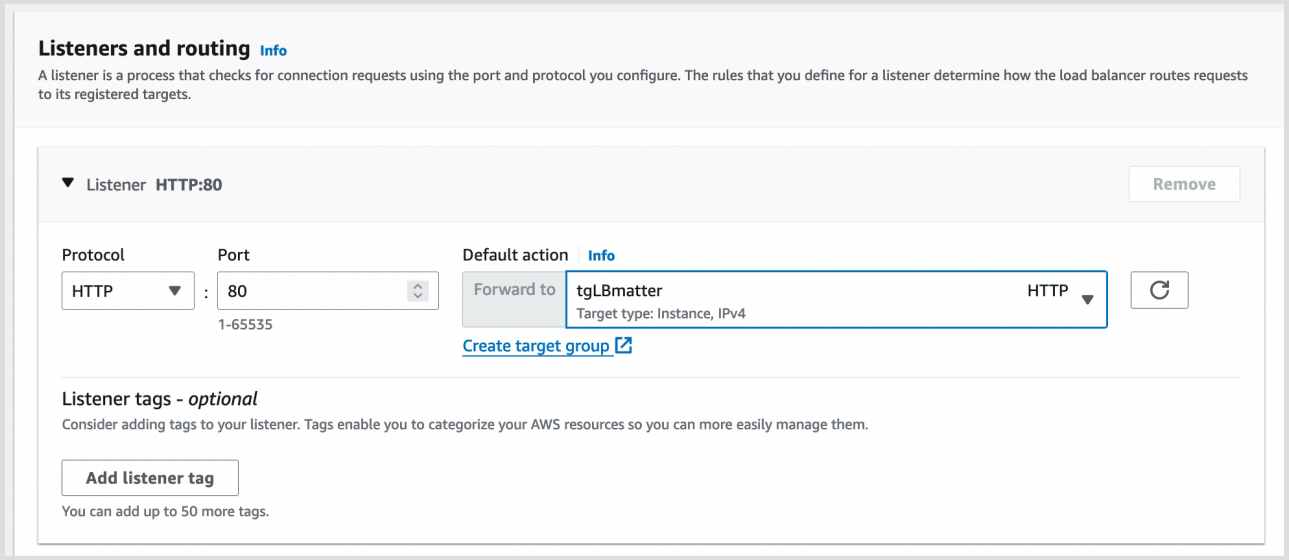
8. In the Listeners and Routing, click on Create target group,select your VPC provide target group name from the list. Other options can be default.

9. In the Advanced health check settings you can give your custom values in the traffic port. (you can leave as default if you don't wish to change it)

10. Click on 'Next' option and in the List of Registered Instances select your public instances where your nginx server runs , click 'include as pending now option and then Create the Target Group

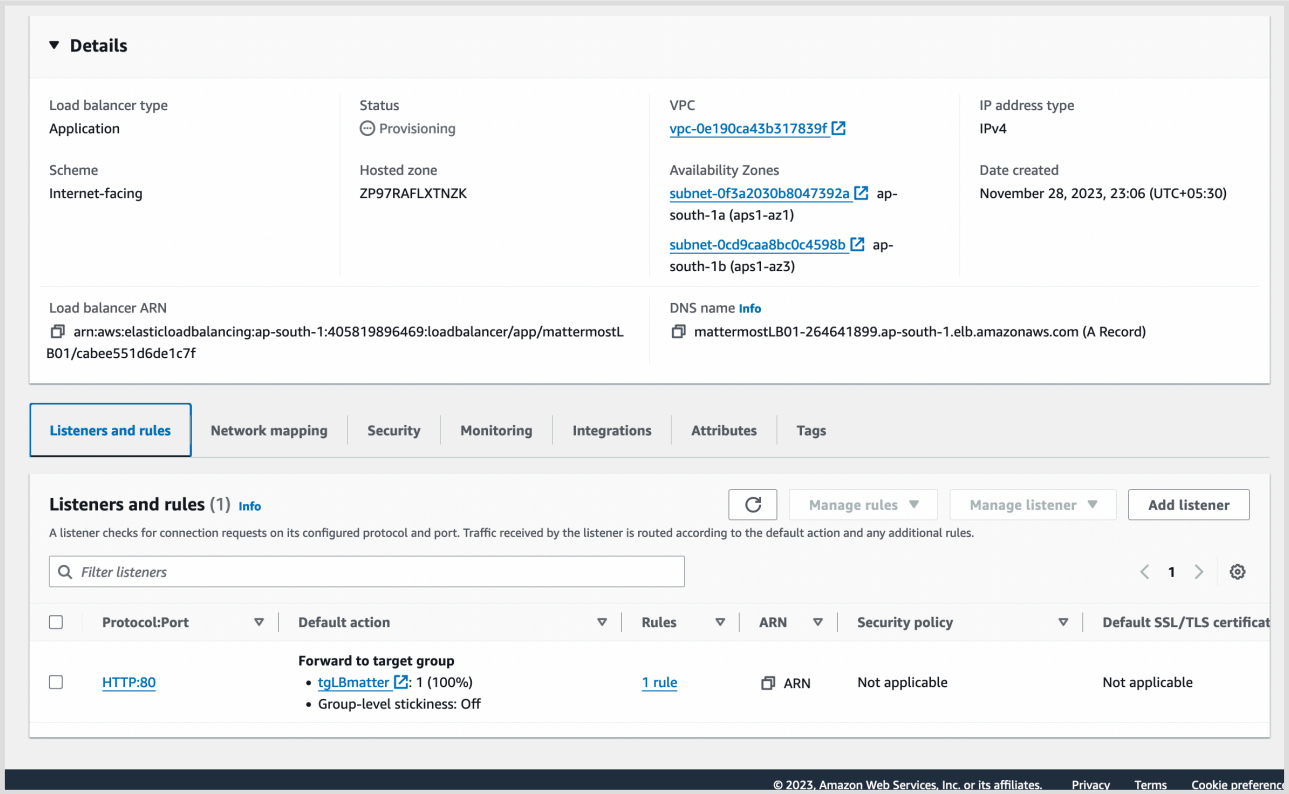




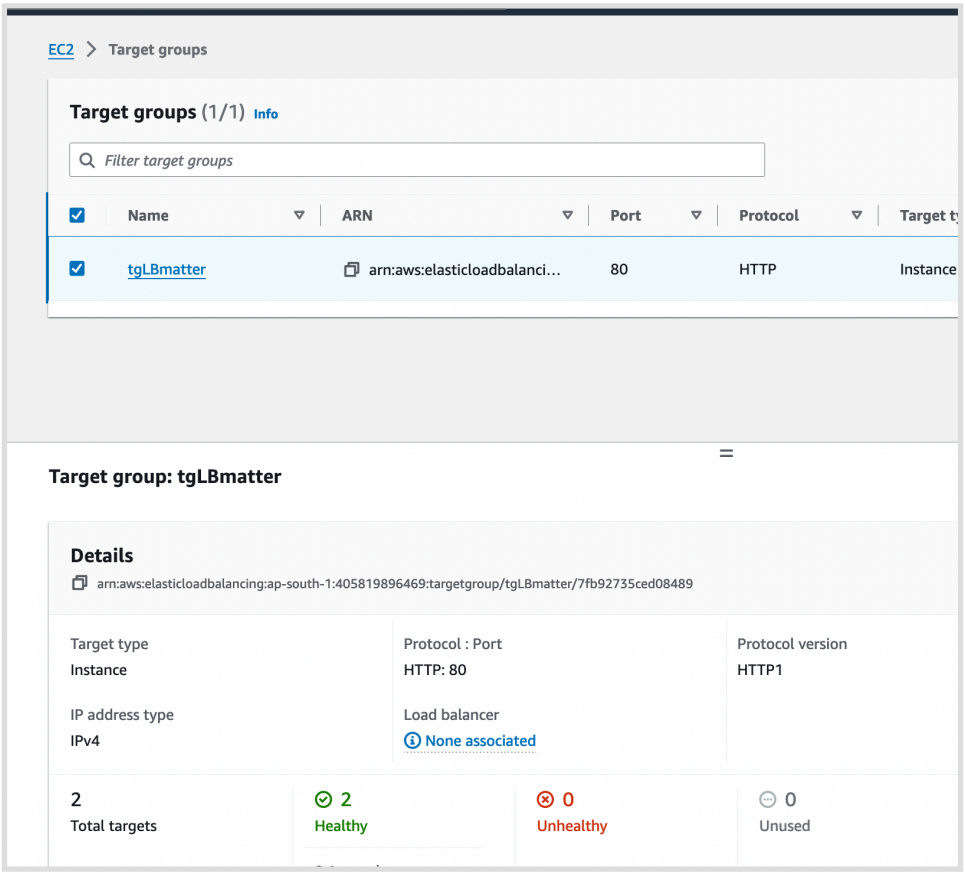


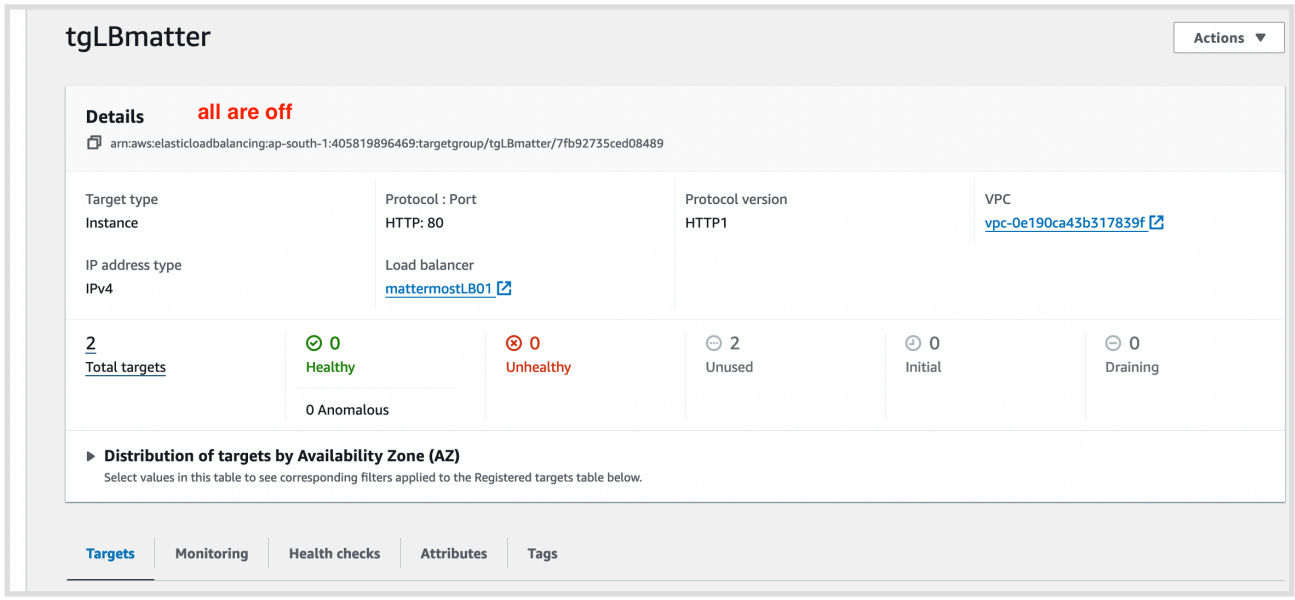
11. Map the Target group in the Load balancer configuration
12. Now click on Create Load Balancer and it should now be created successfully
13. Navigate to Listeners tab in the Load balancer click in the Target group, select your target
14. Navigate to target group and you can see the the details of the targets
15. You can launch the Load Balancer using the DNS name as marked below
16. Once you access the Load balancer DNS name the web server page should be displayed on the basis of round robin schedule which is been

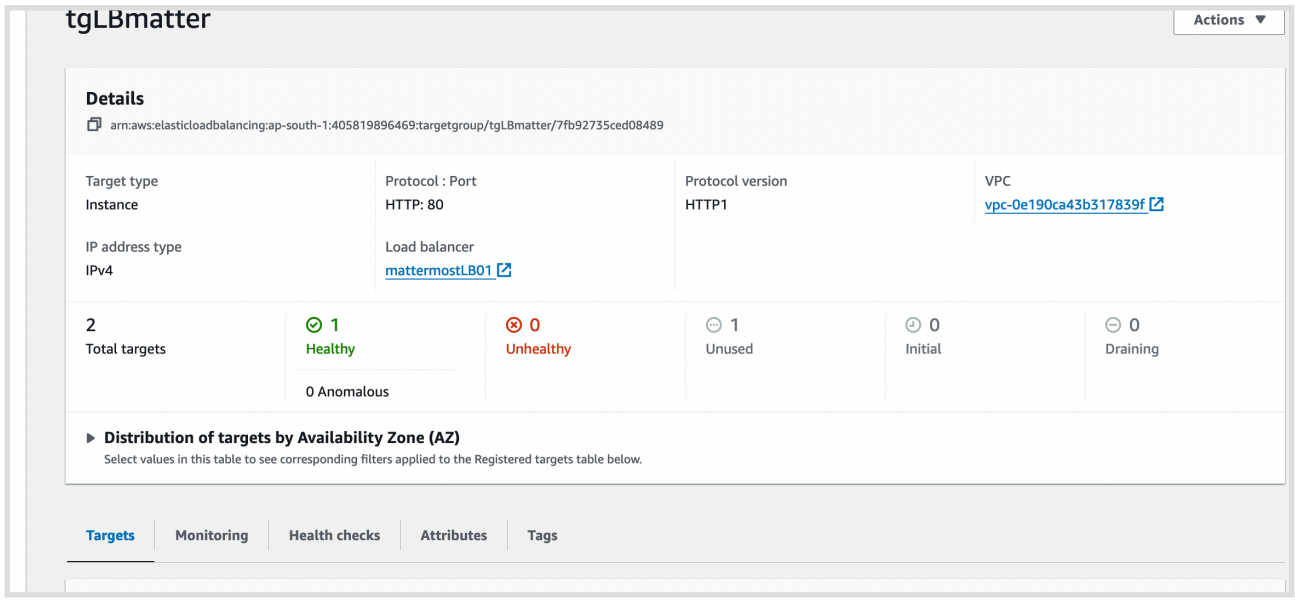
Dashboard

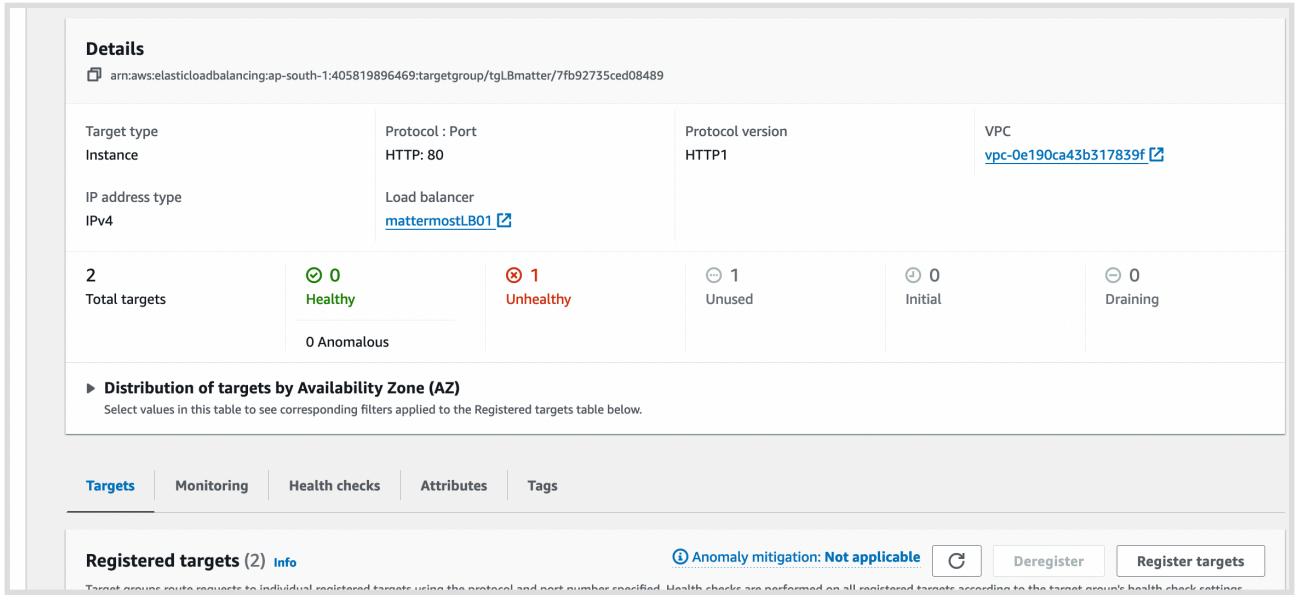


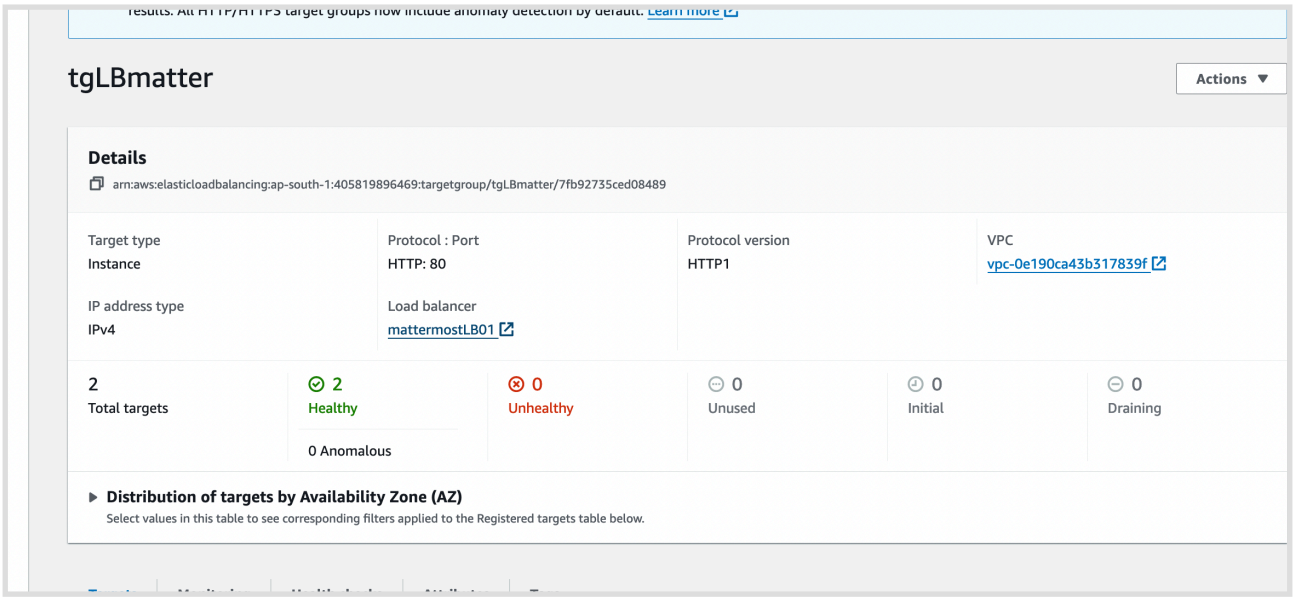
Health checkup



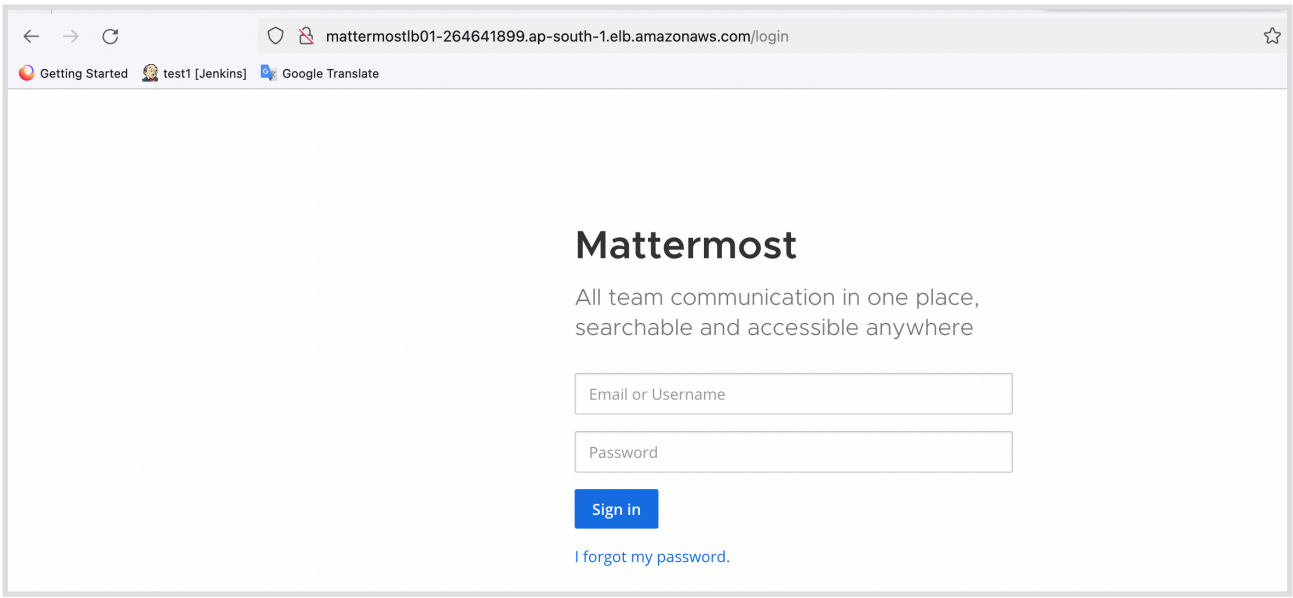

tgLBmatter
Actions
Details
all are off
arn:aws:elasticloadbalancing:ap-south-1:405819896469:targetgroup/tgLBmatter/7fb92735ced08489
Target type
Instance
Protocol : Port
HTTP: 80
Protocol version
HTTP1
VPC
vpc-0e190ca43b317839f
IP address type
IPv4
Load balancer
mattermostLB01
2
Total targets
0
Healthy
0 Anomalous
0
Unhealthy
2
Unused
0
Initial
0
Draining
Distribution of targets by Availability Zone (AZ)
Select values in this table to see corresponding filters applied to the Registered targets table below.
Targets
Monitoring
Health checks
Attributes
Tags


tgLBmatter
Actions
Details
arn:aws:elasticloadbalancing:ap-south-1:405819896469:targetgroup/tgLBmatter/7fb92735ced08489
Target type
Instance
Protocol : Port
HTTP: 80
Protocol version
HTTP1
VPC
vpc-0e190ca43b317839f
IP address type
IPv4
Load balancer
mattermostLB01
2
Total targets
1
Healthy
0 Anomalous
0
Unhealthy
1
Unused
0
Initial
0
Draining
Distribution of targets by Availability Zone (AZ)
Select values in this table to see corresponding filters applied to the Registered targets table below.
Targets
Monitoring
Health checks
Attributes
Tags


Details
arn:aws:elasticloadbalancing:ap-south-1:405819896469:targetgroup/tgLBmatter/7fb92735ced08489
Target type
Instance
Protocol : Port
HTTP: 80
Protocol version
HTTP1
VPC
vpc-0e190ca43b317839f
IP address type
IPv4
Load balancer
mattermostLB01
2
Total targets
0
Healthy
0 Anomalous
1
Unhealthy
1
Unused
0
Initial
0
Draining
Distribution of targets by Availability Zone (AZ)
Select values in this table to see corresponding filters applied to the Registered targets table below.
Targets
Monitoring
Health checks
Attributes
Tags
Registered targets (2) Info
Anomaly mitigation: Not applicable
Deregister
Register targets



Verified: Yes it is coming in round-robin fashion



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Assignment:9 Load_Configure Network Load Balancer

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Create Network Load Balancer and configure the DNS in your web server

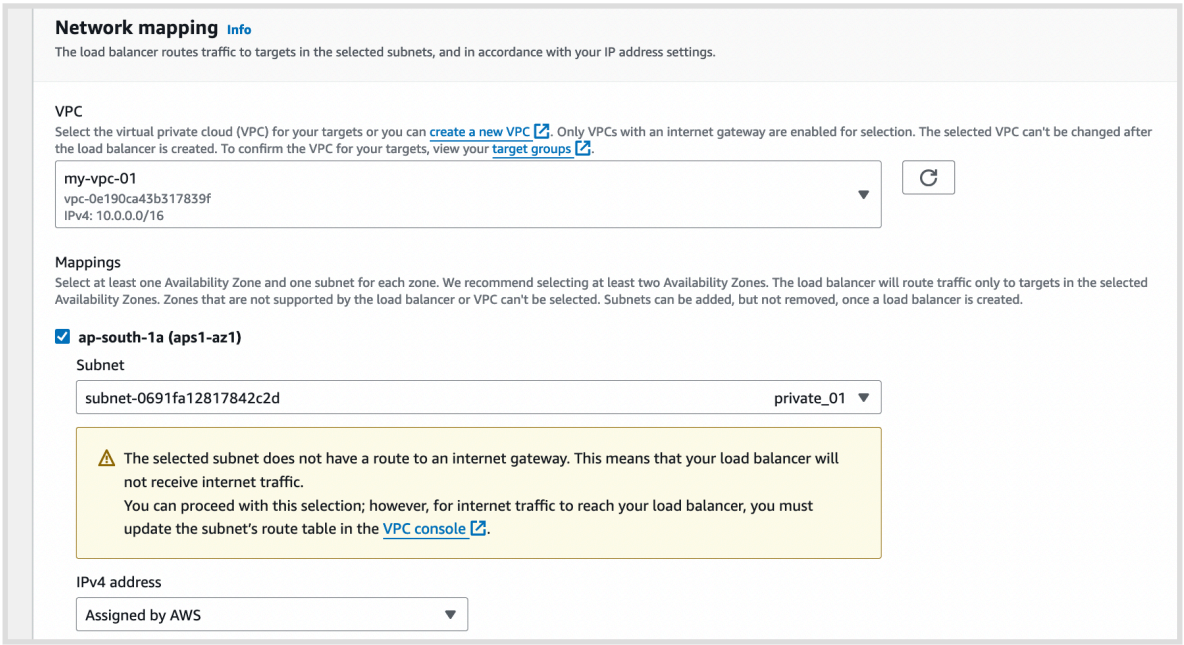
1. Navigate to EC2 Load Balancer and click on Create Load Balancer

2. In the Load Balancer type choose Network Load Balancer and click on Create option

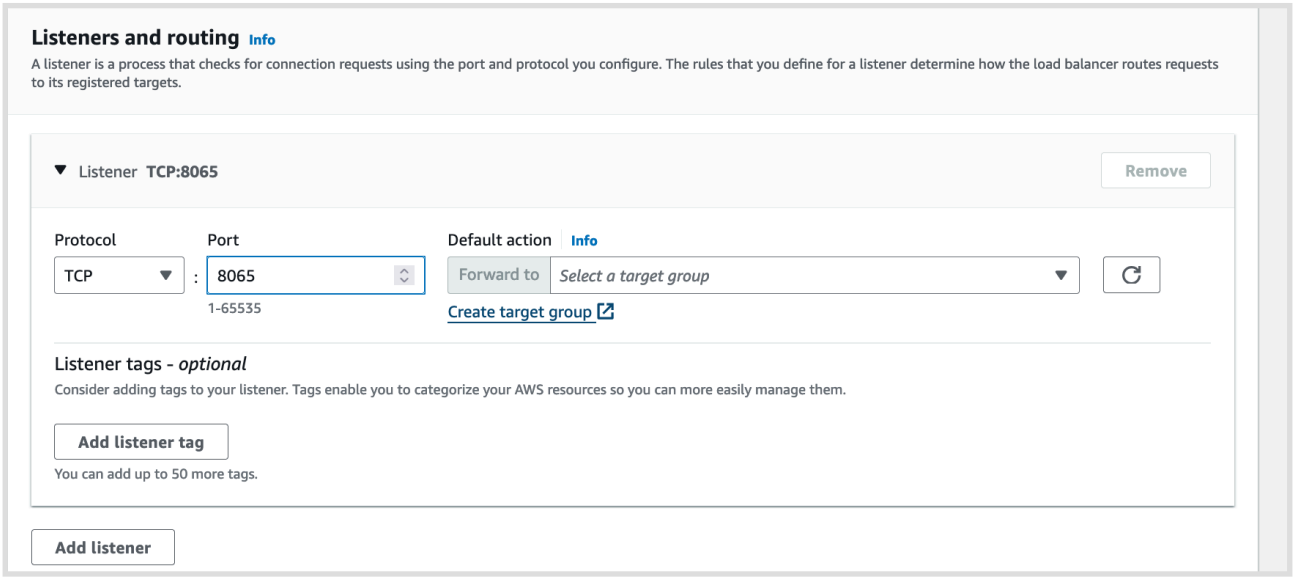
3. Provide the load balancer name, select Internal-facing, and IPv4 address type

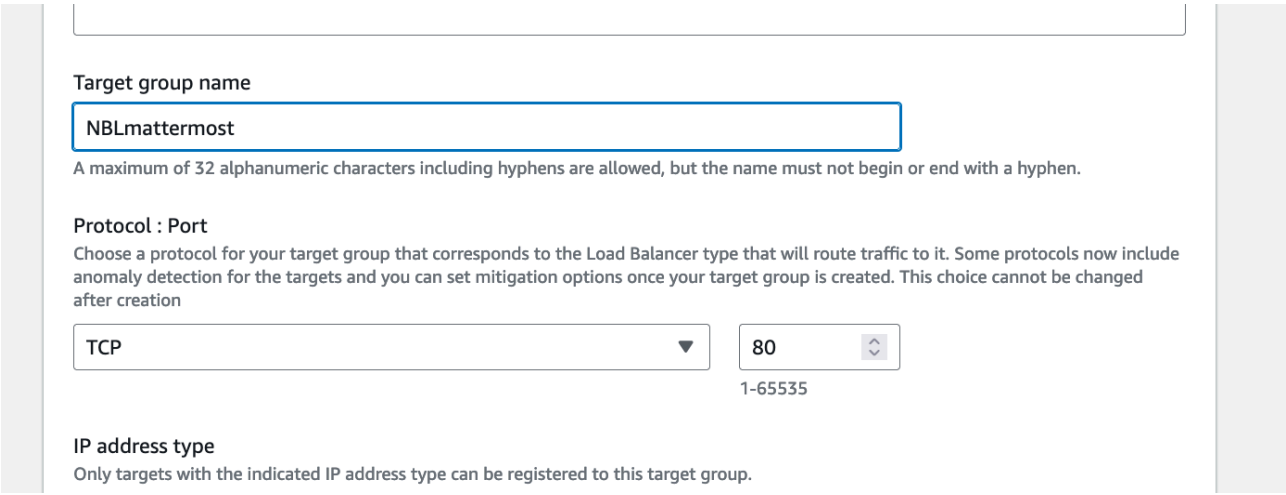
4. In the network mapping select your VPC

5. In the subnet mapping select the availability zones and select the private subnets where you run the two mattermost instance



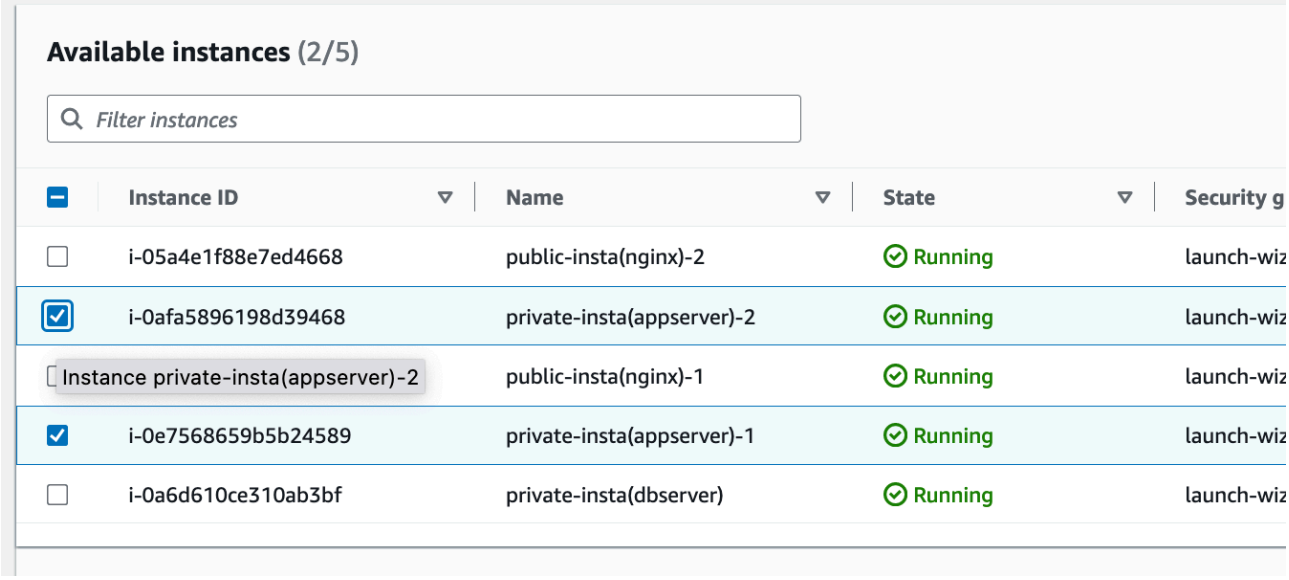
6. In the Listeners and Routing provide the TCP port 8065 , click on Create target group and select your VPC from the list, provide the target group name other options can be default.



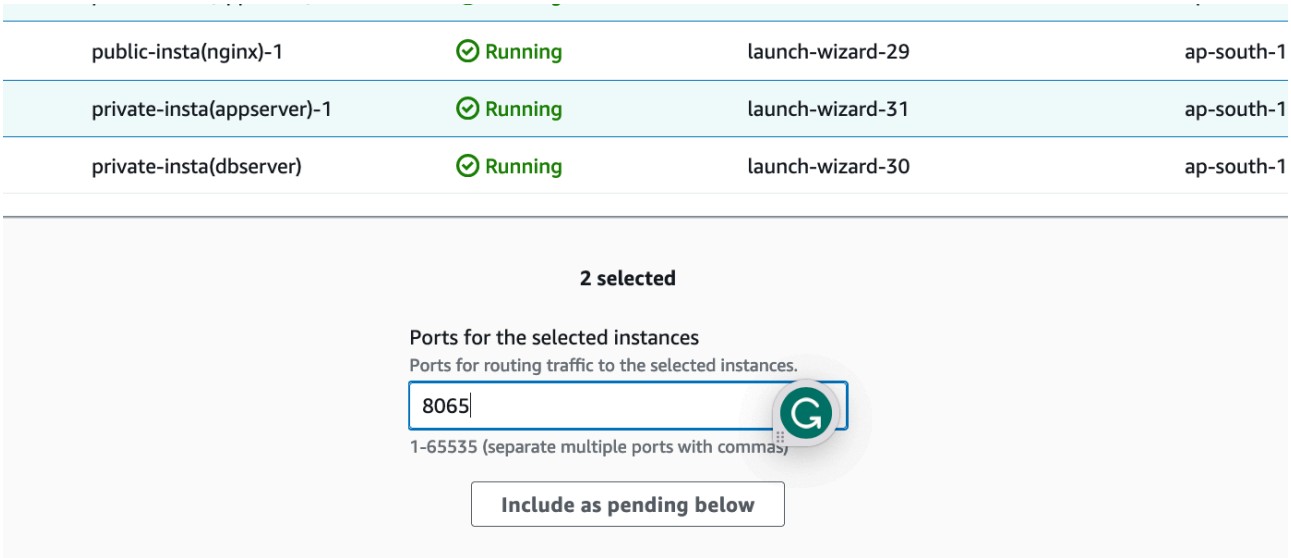


7. In the Advanced health check settings you can give your custom values in the traffic port. (you can leave as default if you don't wish to change it)

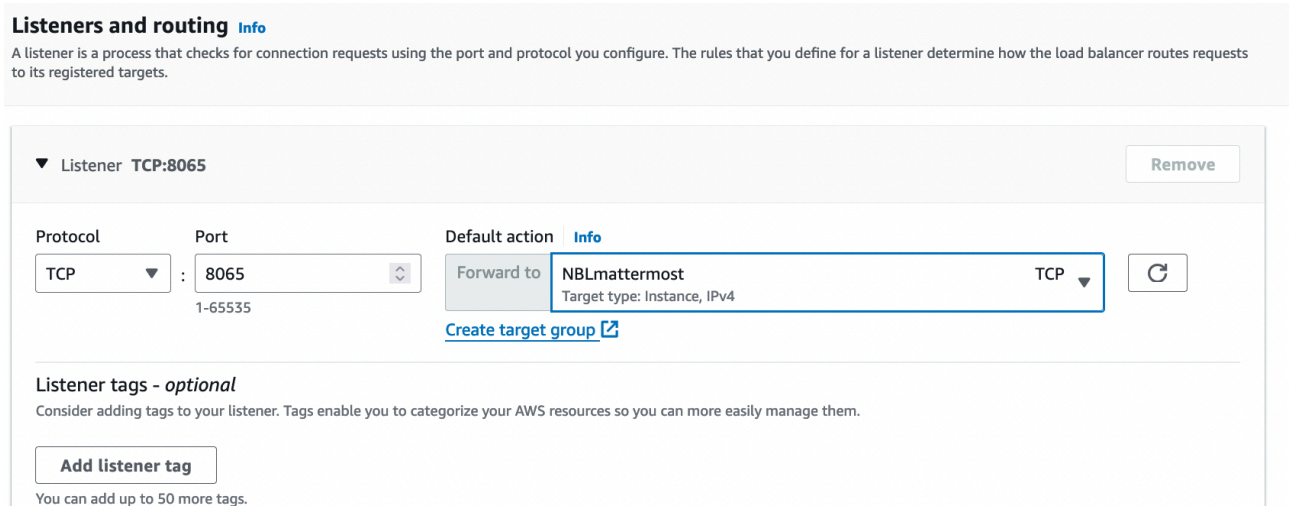
8. Click on 'Next' option and in the List of Registered Instances select your private instances where you are running the mattermost



9. Change the port number to 8065 and 'click include as pending below' and then create the target group.

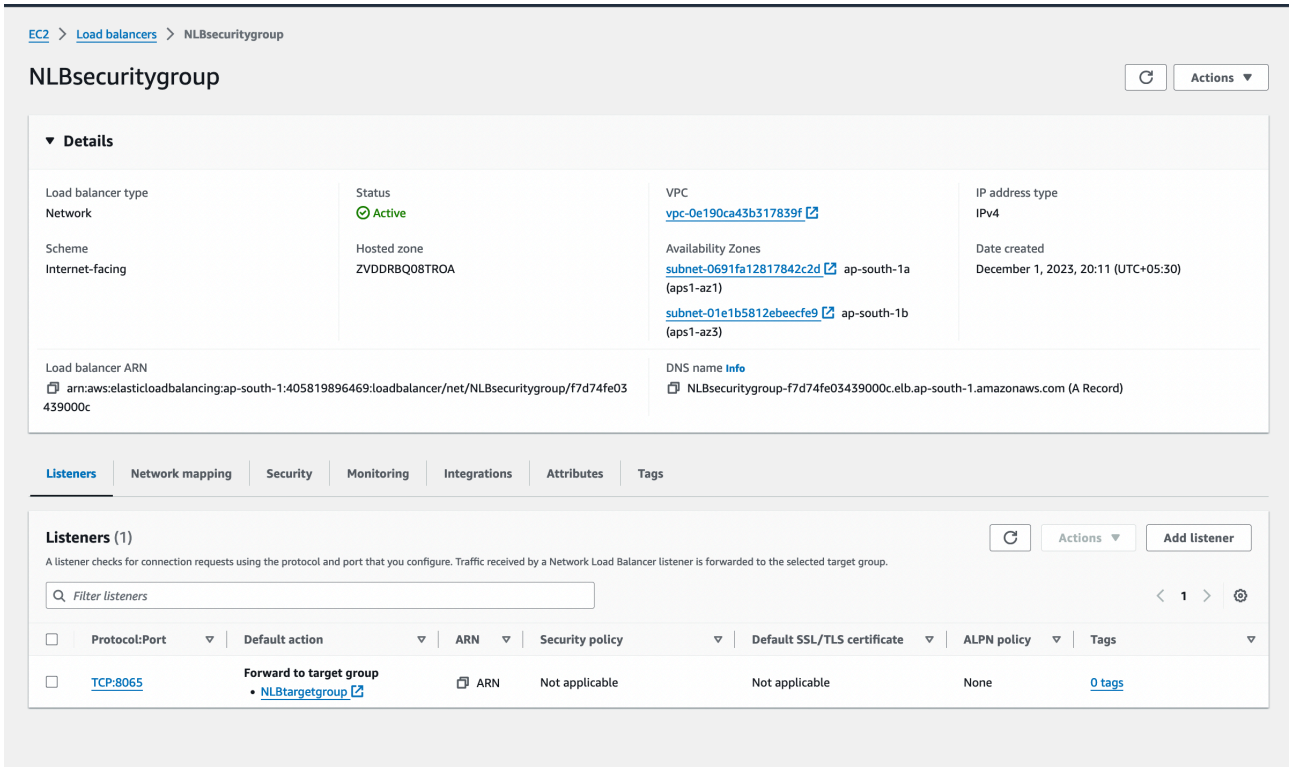


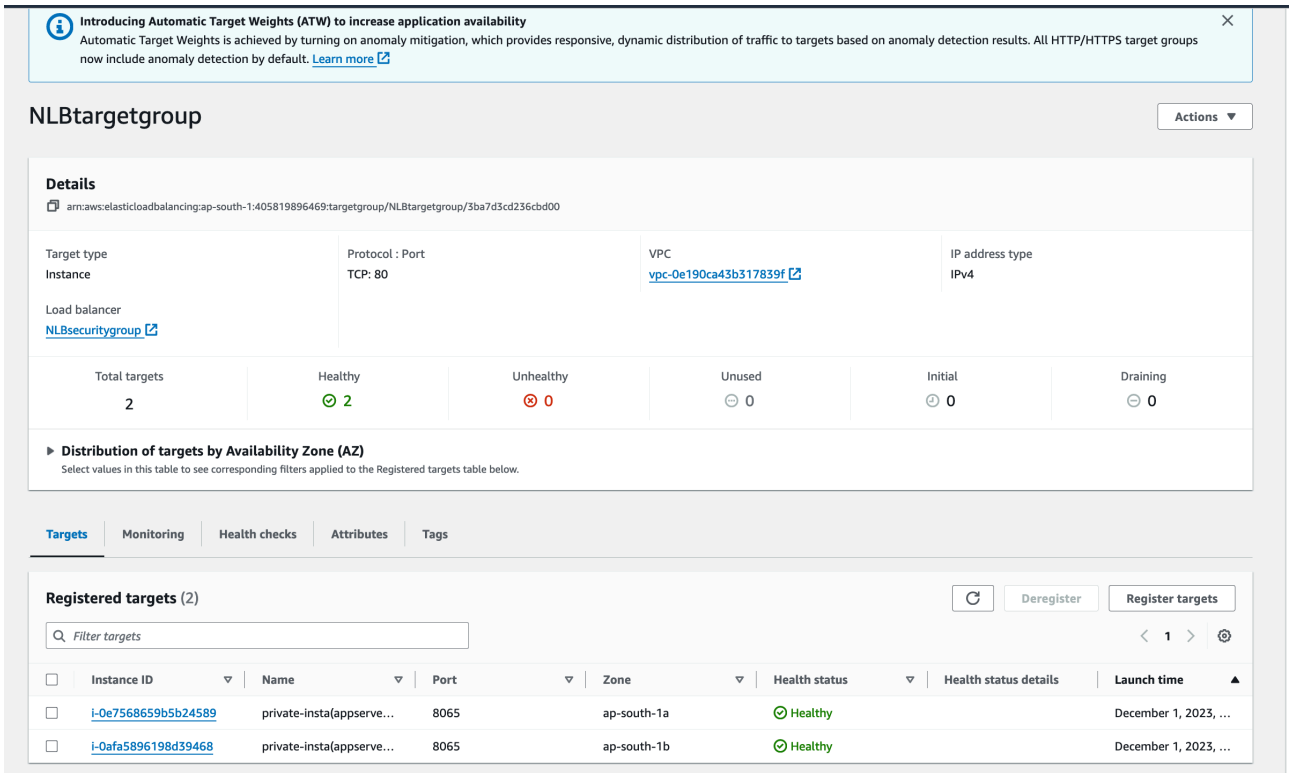
10. Map the Target group in the Load balancer configuration



11. Click on Create Load Balancer and it should now be created successfully

12. Navigate to target group and you can see the the details of the targets

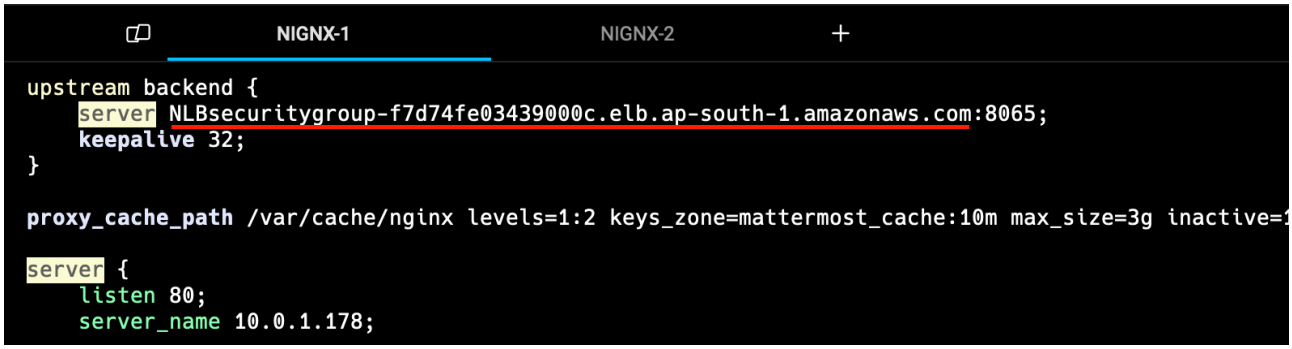




13.0pen your web server Instance , navigate to /etc/nginx/conf.d/mattermost.

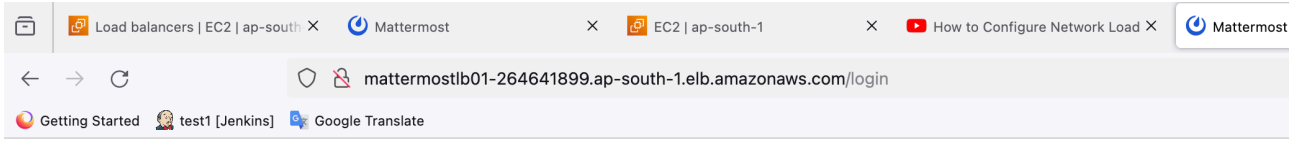
Provide the DNS of your Network Load Balancer

For both machine I have done



14. Now try to access your mattermost using the DNS of Application Load balancer

15. Now check the load balancing works by stopping the service / instance and also make a check on the Target health



After launching DNS

Mattermost

All team communication in one place, searchable and accessible anywhere

Email or Username

Password

Sign in

I forgot my password.