APPLICATION LOAD BALANCER:

A *load balancer* serves as the single point of contact for clients. Clients send requests to the load balancer, and the load balancer sends them to targets, such as EC2 instances.

To configure your load balancer, you create target groups, and then register targets with your target groups.

You also create listeners to check for connection requests from clients, and listener rules to route requests from clients to the targets in one or more target groups.

- **APPLICATION LOAD BALANCER IS MICROSERVICE ARCHITECTURE**
- **IT WORK PATH BASED ROUTING.**

STEPS TO CREATE APPLICATION LOAD BALANCER:

STEP1: Create two linux instance(eg.orkut &facebook)

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Create orkut instance (add security group http)

↓

Advanced --->user data---->

```
#! /bin/bash

yum install httpd -y

service httpd start

mkdir /var/www/html/orkut

echo "This is my Orukut instance"    > /var/www/html/orkut/index.html
```

Orkut instance created..

STEP2: Create two linux instance(eg.orkut &facebook)

↓

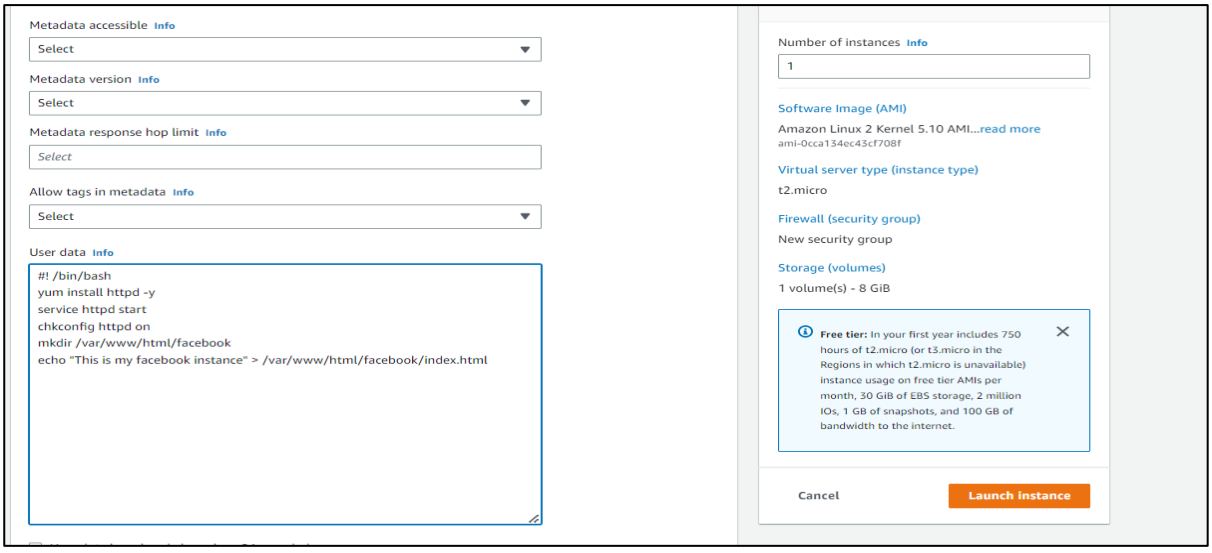
Create facebook instance (add security group http)

↓

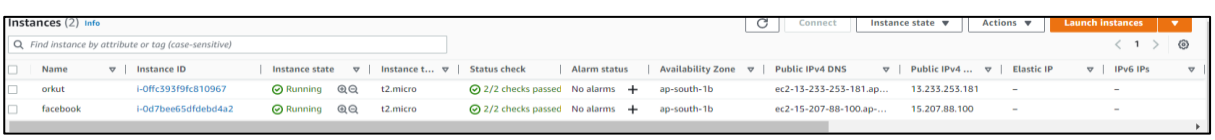
Advanced --->user data---->

```
#! /bin/bash

yum install httpd -y

service httpd start

mkdir /var/www/html/facebook

echo "This is my facebook  instance"    > /var/www/html/facebook/index.html
```

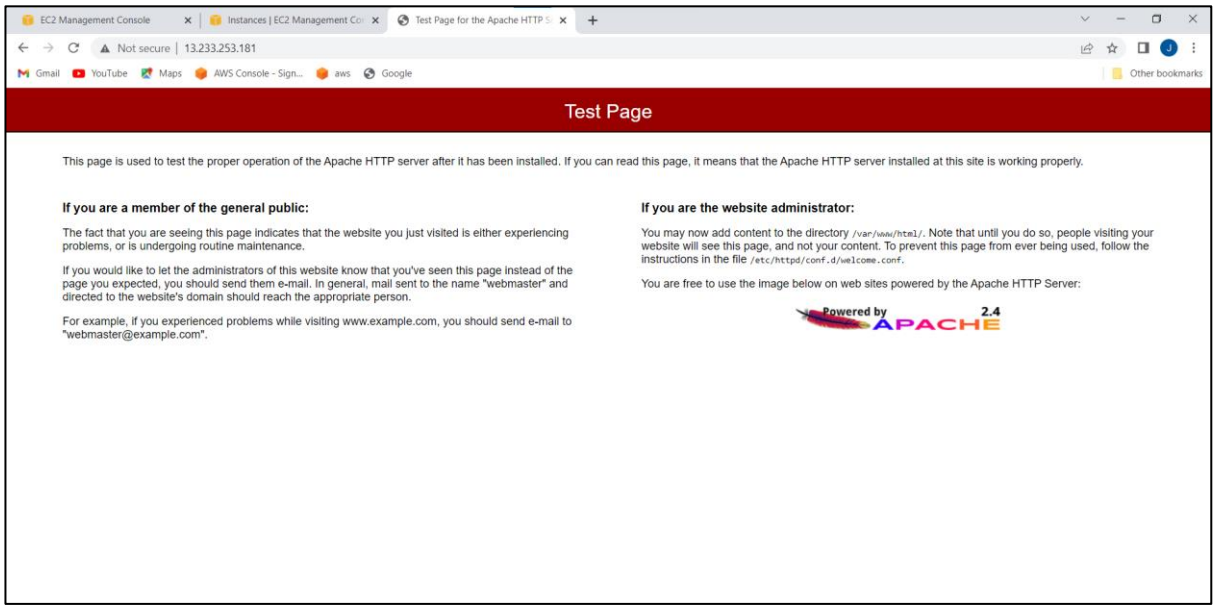
facebook instance created..



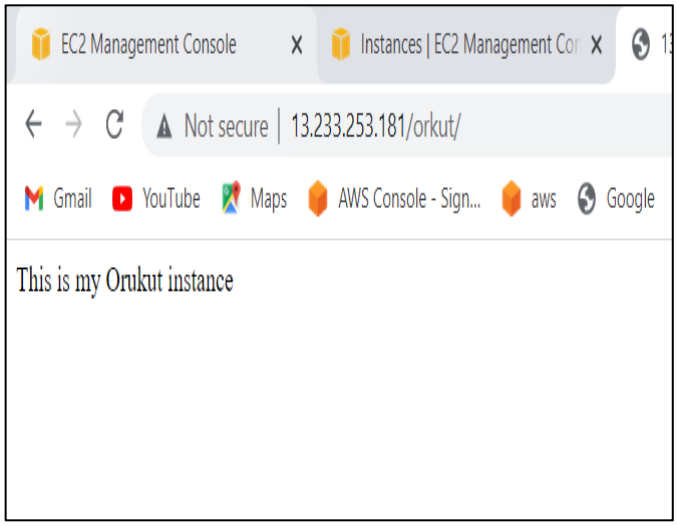
Two instance are created..

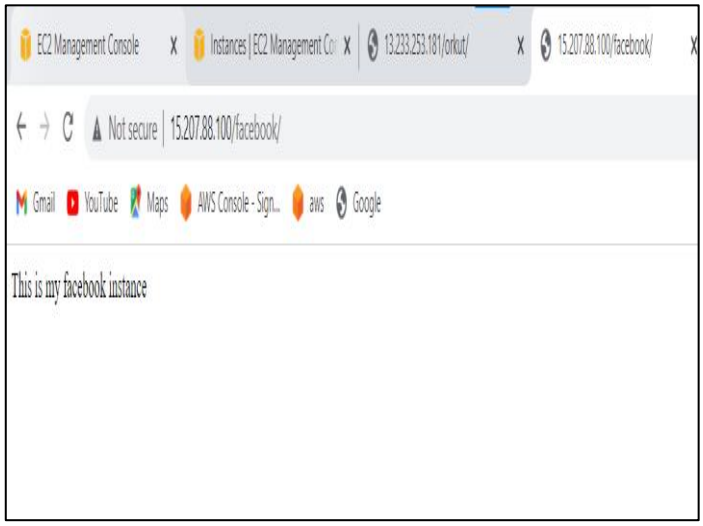


STEP3: both instance public ip copy and put chrome text page--->text page open



STEP4: now both instance public ip copy(eg: 13.233.253.181/orkut)and(eg: 13.233.253.181/facebook) and put chrome text page

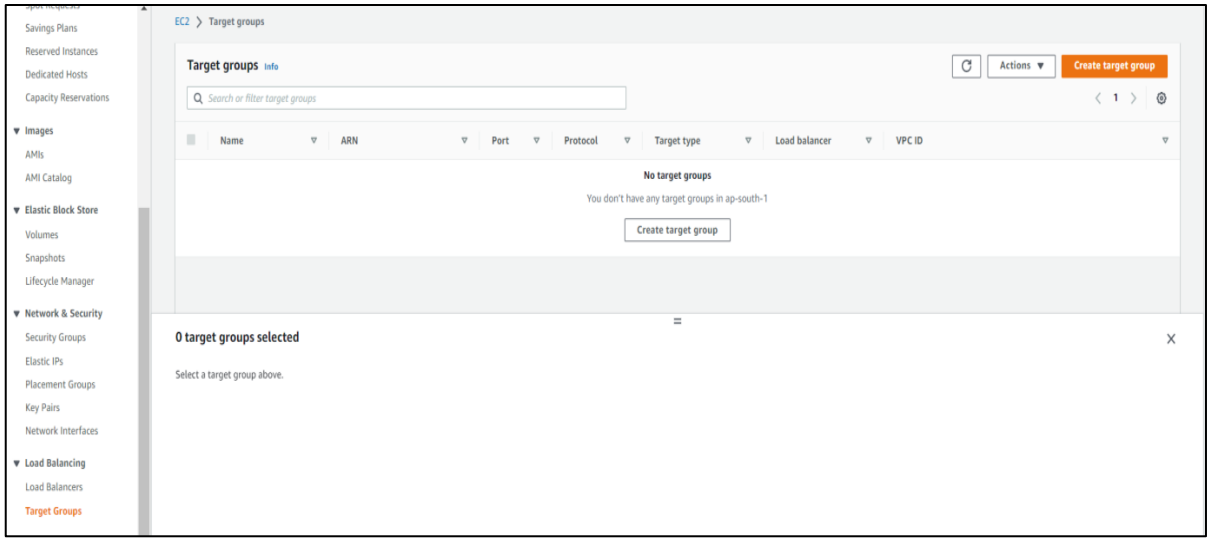




Our given contents shown success..

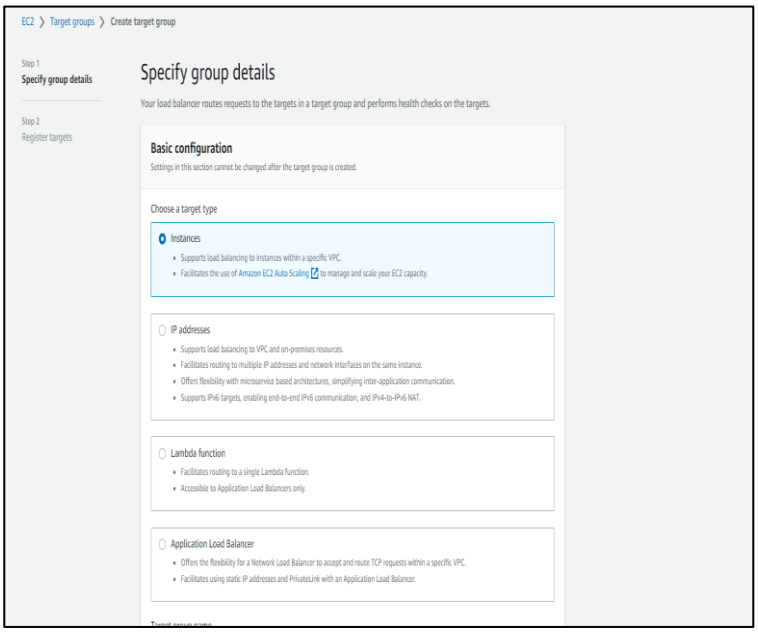
STEP5:Create Target Group for orkut

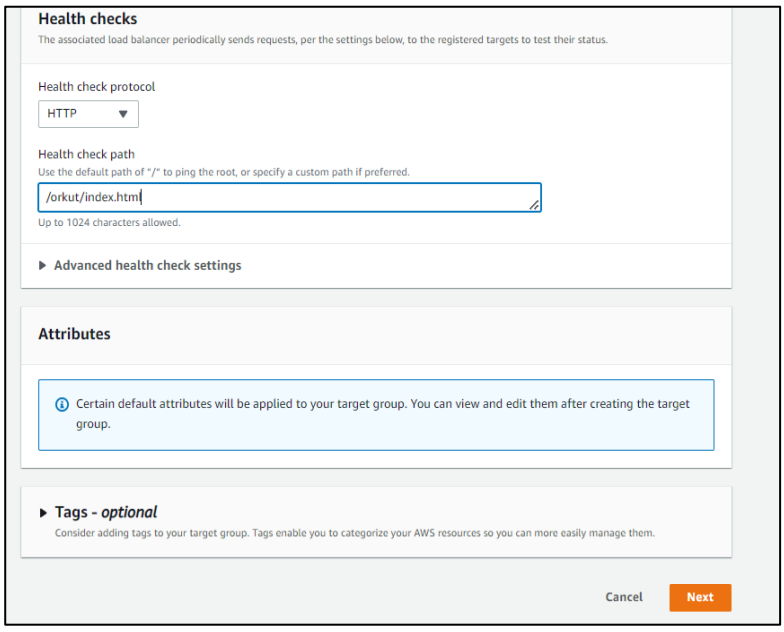
Load balancer------>target group---->create target group



Specific group details--->basic configuration--->instance-->target groupname(any name)---->Health checks(/orkut/index.html)

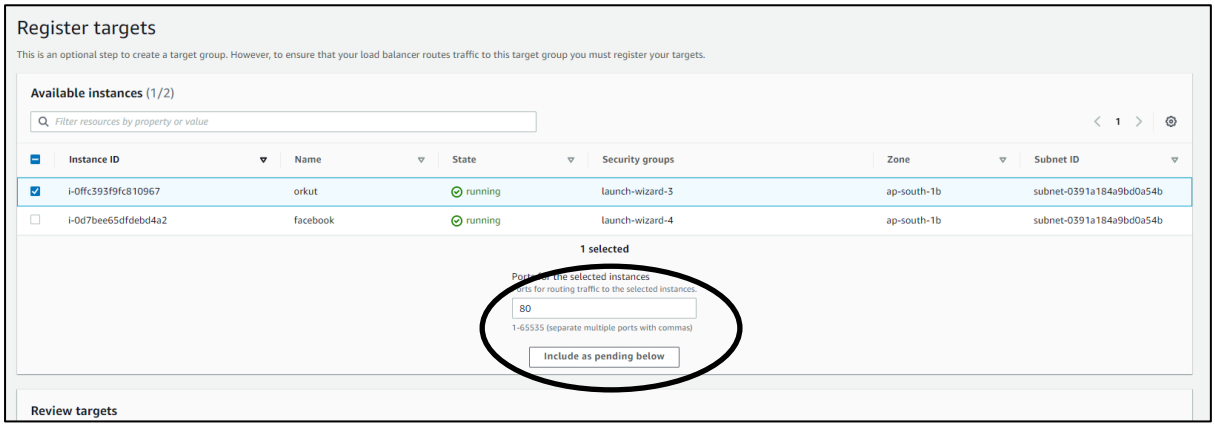
(health check default path--->var/www/html)

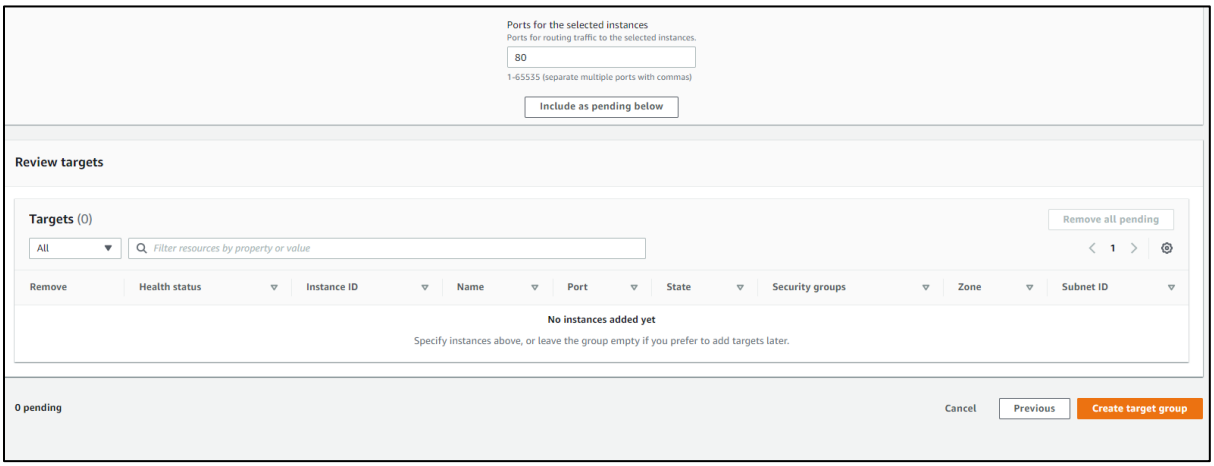




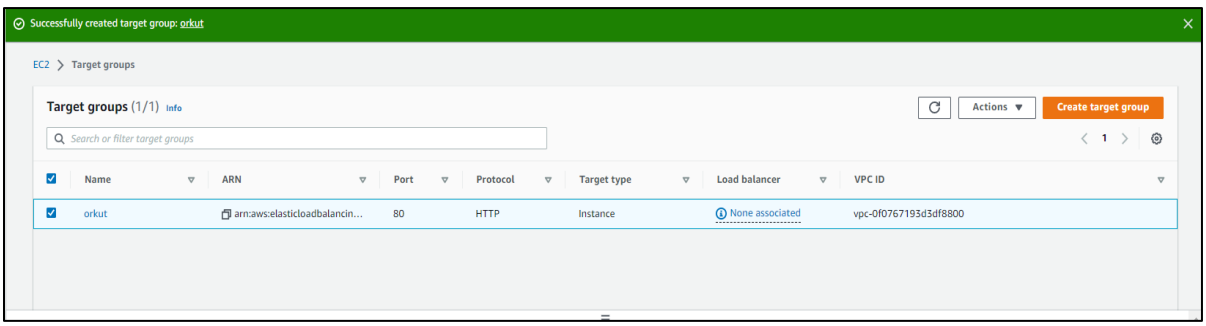
Next...

Registar targets---->select orkut instance --->includind pending below





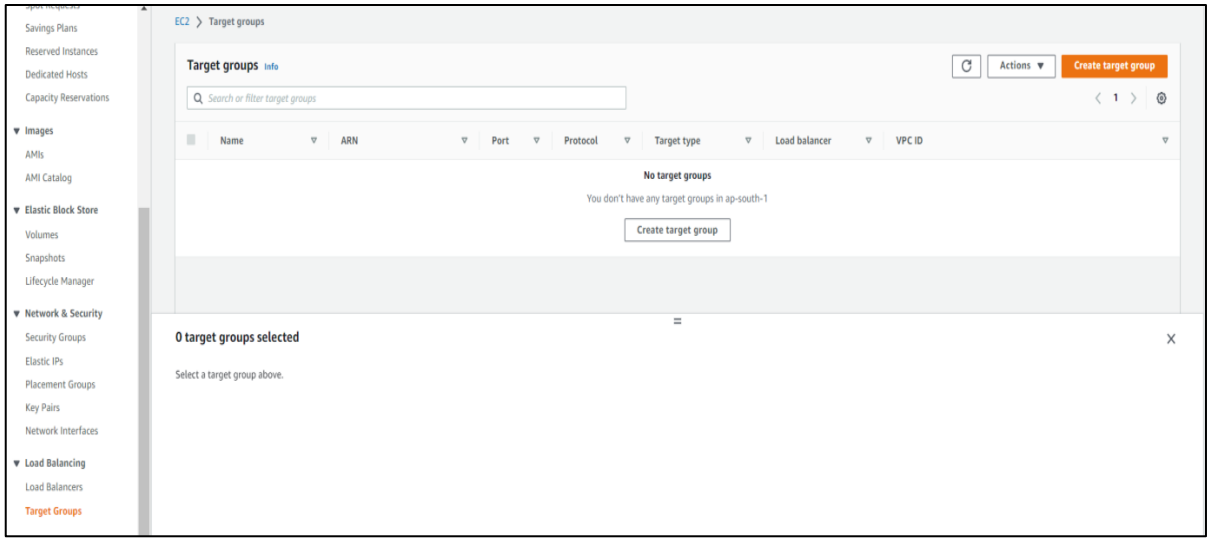
Create target group…



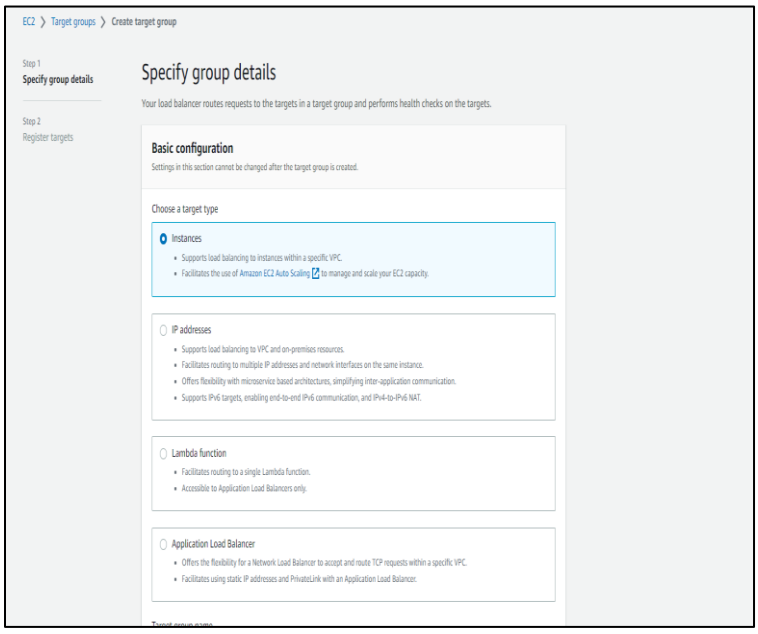
Orkut target group will created.

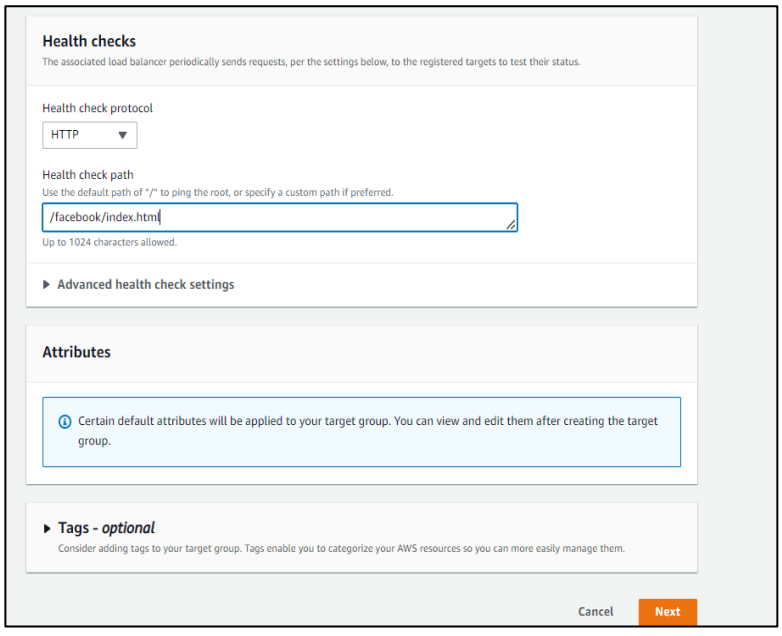
STEP6:Create Target Group forfacebook

Load balancer------>target group---->create target group



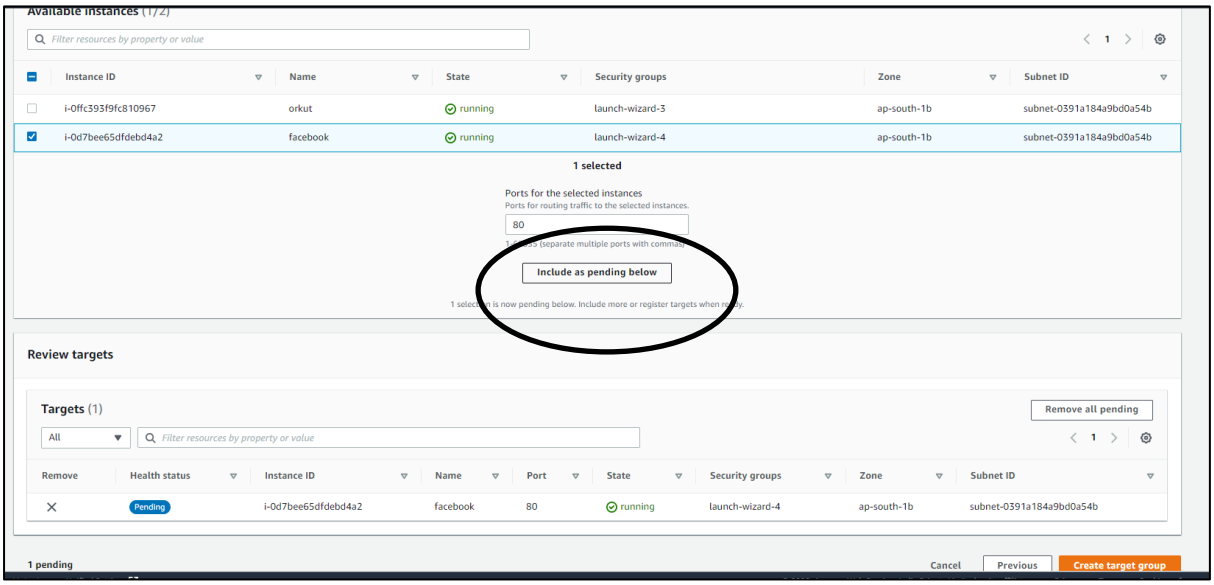
Specific group details--->basic configuration--->instance-->target groupname(any name)---->Health checks(/facebook/index.html)



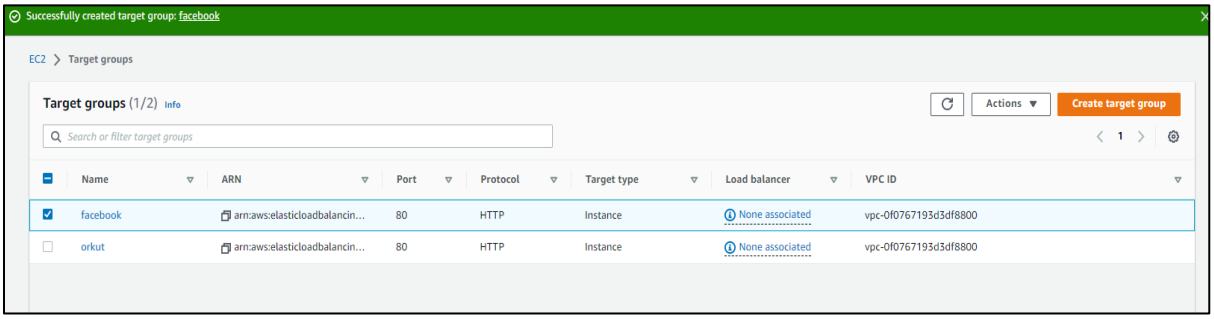


Next...

Registar targets---->select facebook instance --->includind pending below



Create target group..

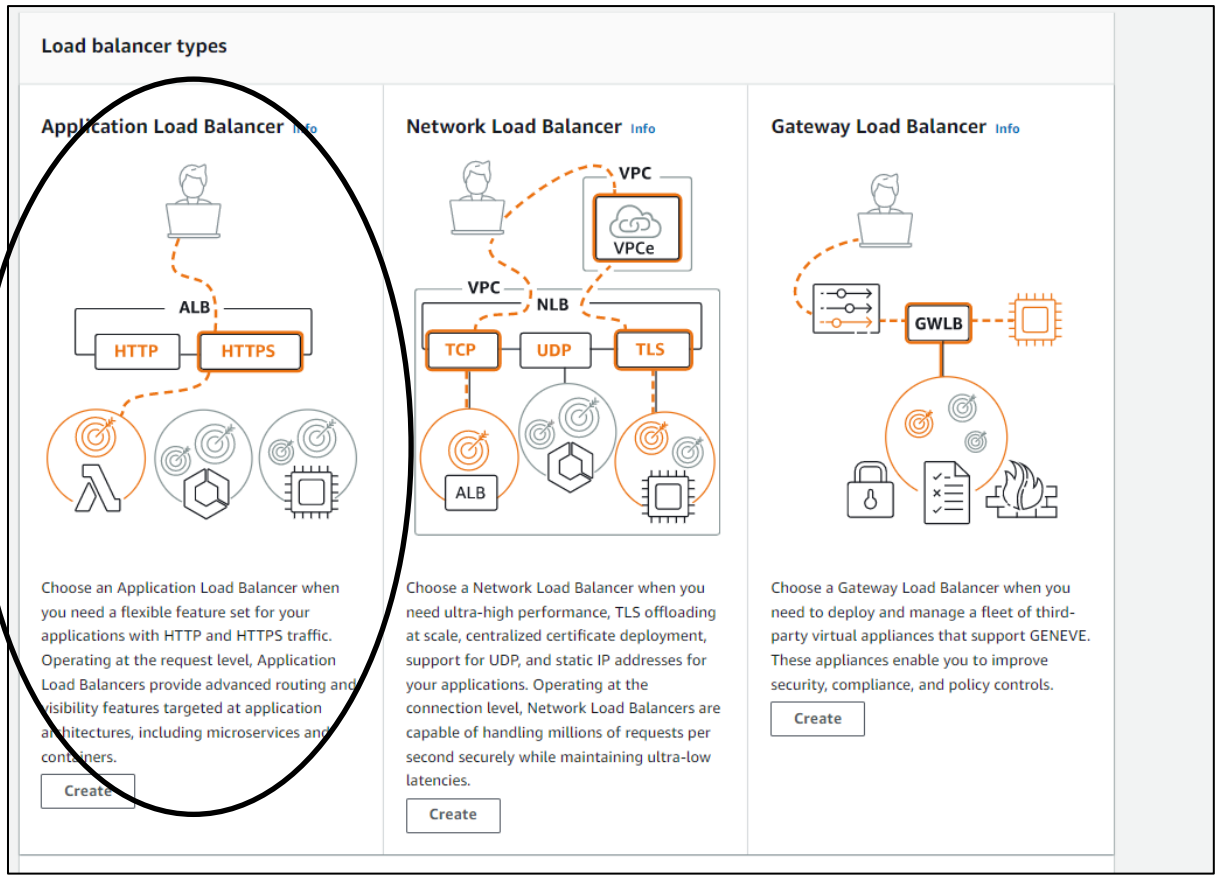


facebook target group will created.

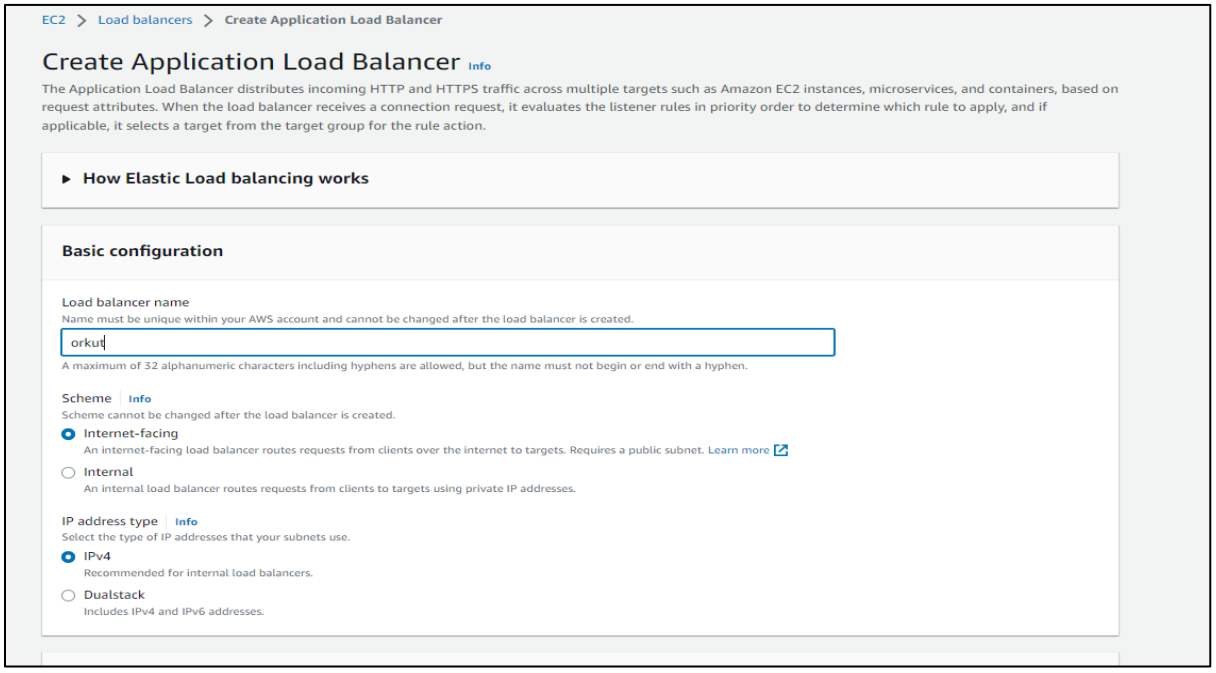
Orkut and facebook target group created…

STEP7:Create application load balancer

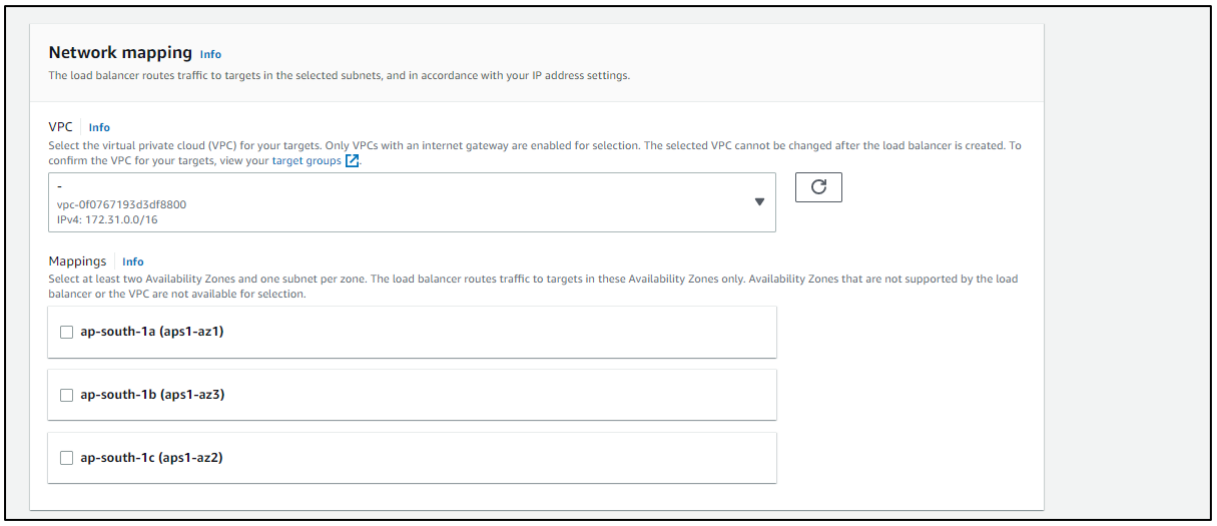
Create load balancer--->select application load balancer--->create.



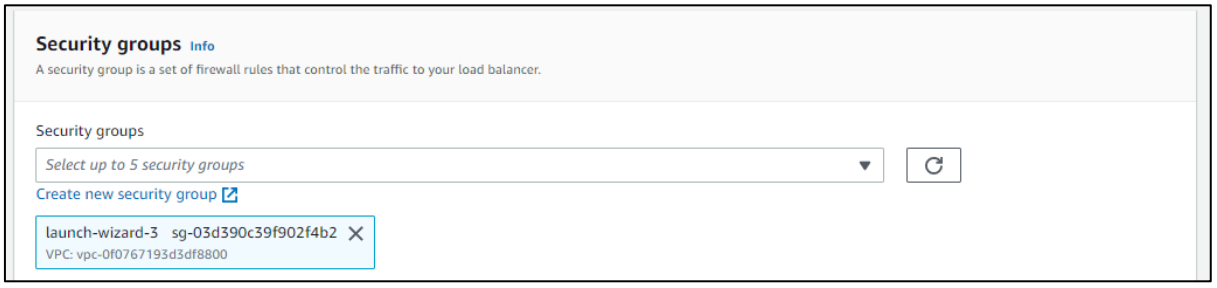
Basic configuration---->load balancer name(any)



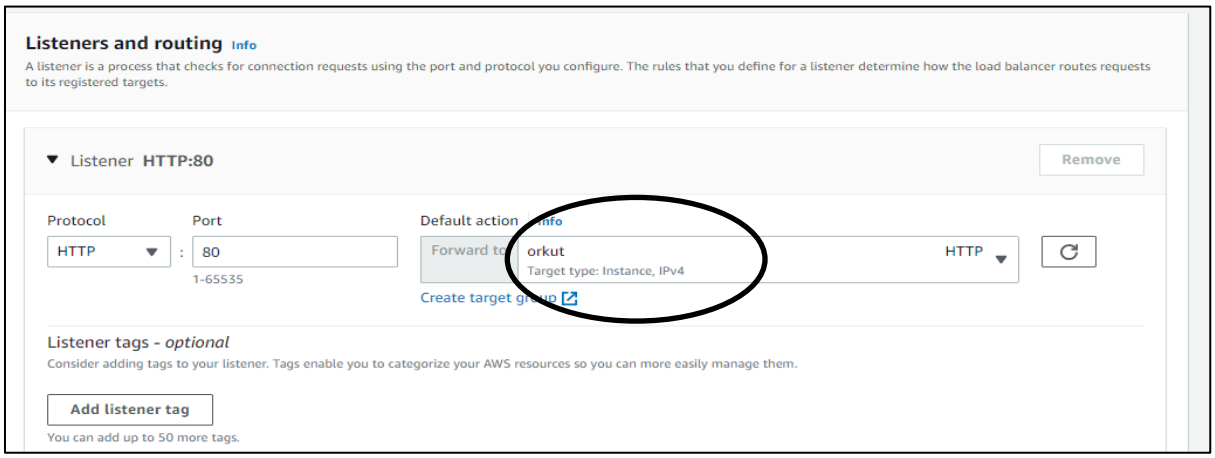
network mapping--->select 3 zone



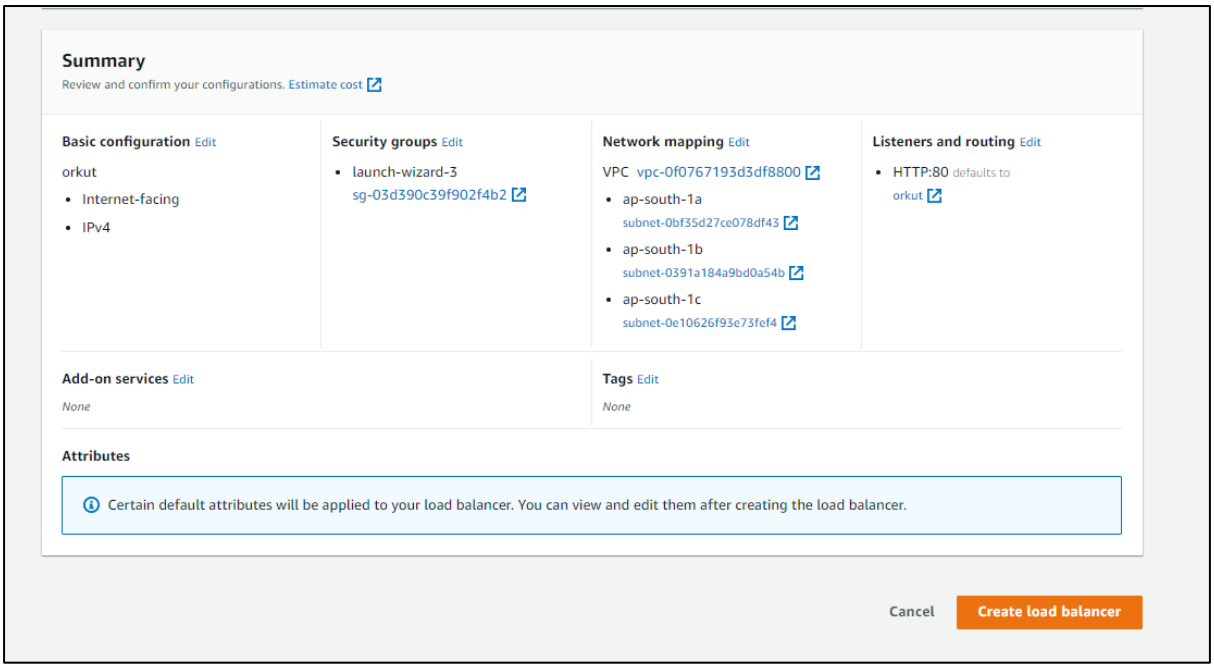
security group --->select orkut instance security(eg:wizard3)



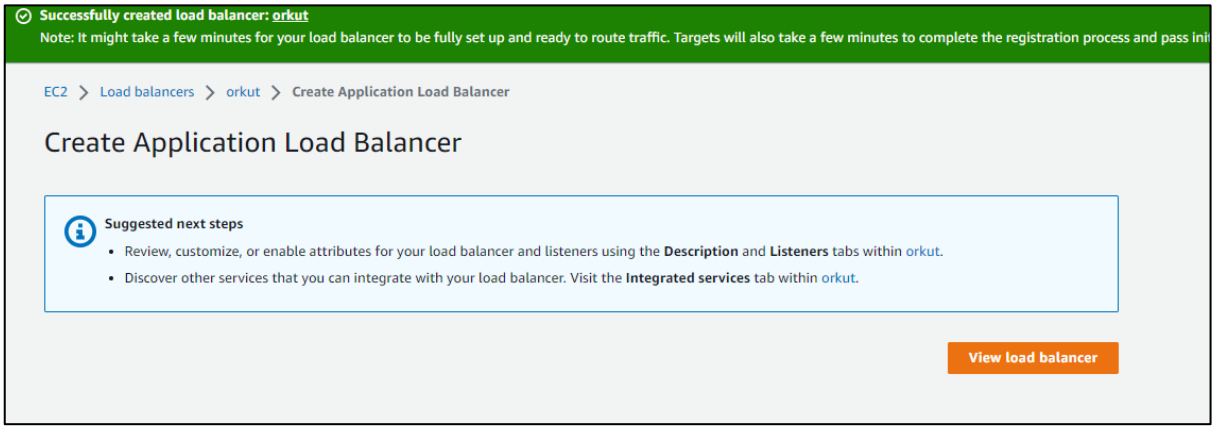
listening and routing ---->default action-→(orkut)



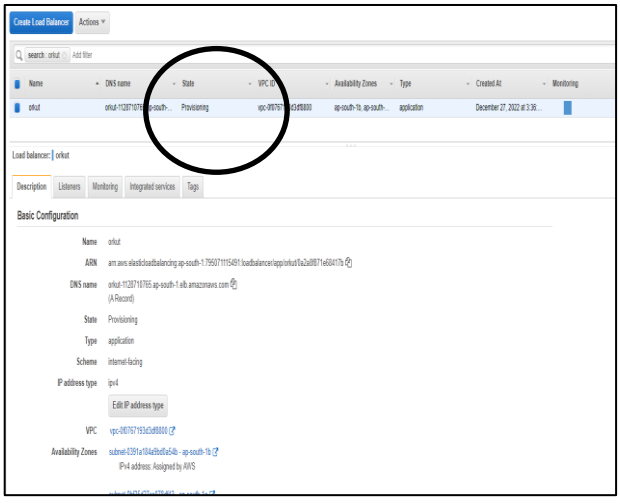
Create load balancer

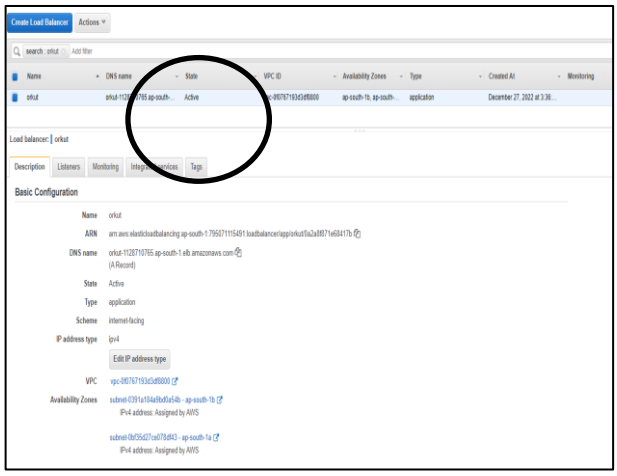


application load balancer created..

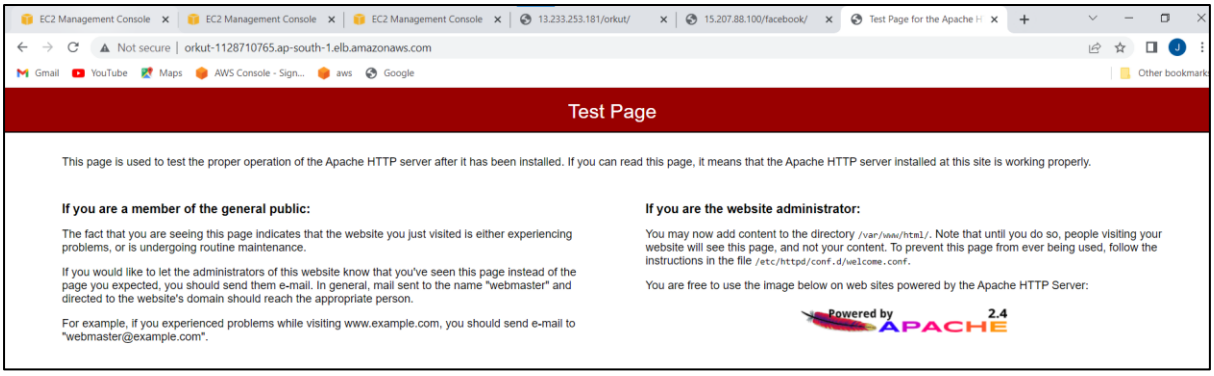


only load balancer create orkutt--->waiting for state(provisioning to active

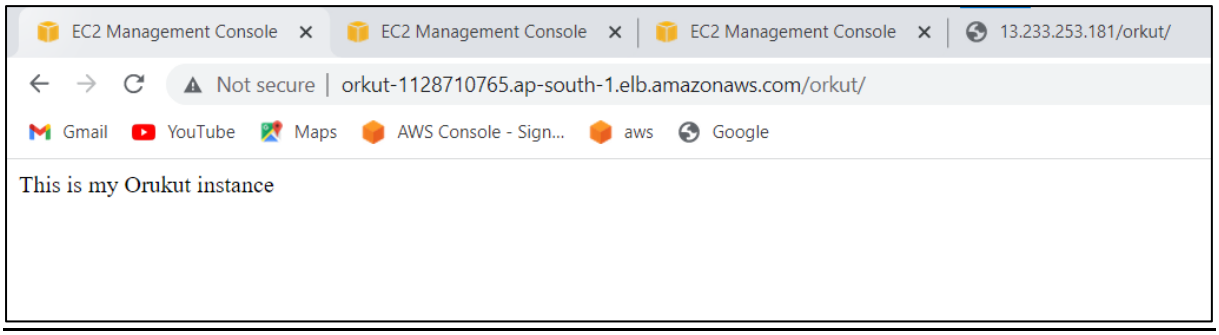




STEP8:load balancer dns copy and put google chrome text page--->text page shown



Again put dns name(eg: orkut-1128710765.ap-south-1.elb.amazonaws.com/orkut/)



Shown succefully..

STEP9:now permission give to facebook

Create load balancer--->listners

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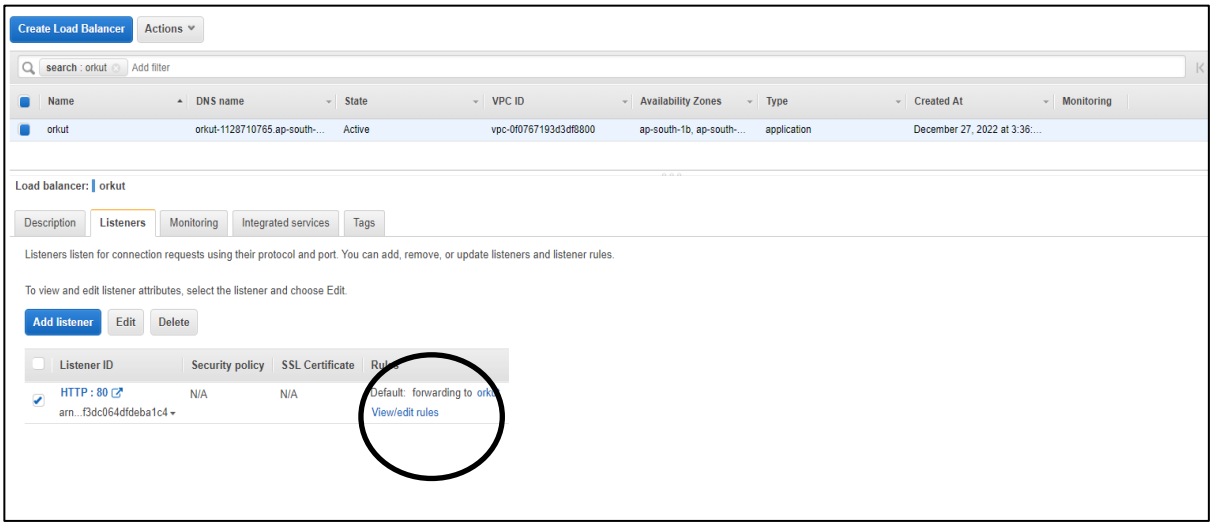
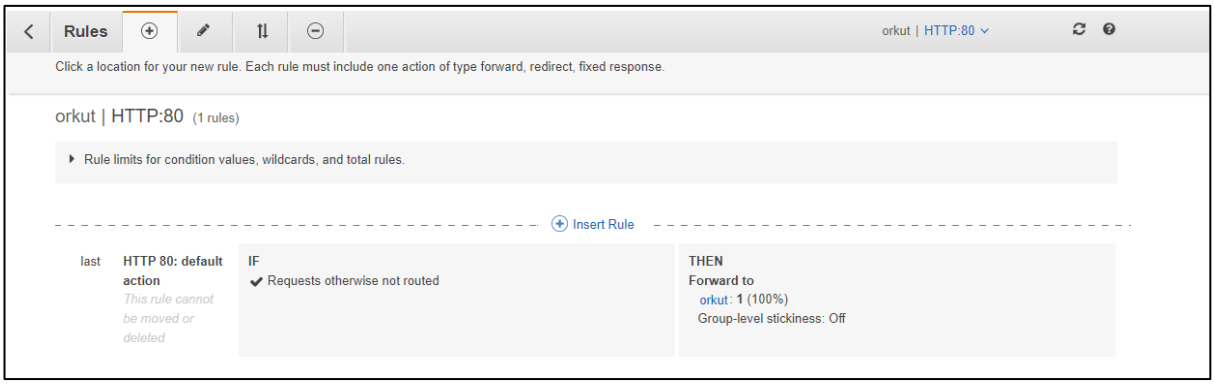
Select:HTTP------>orkut view and edit rules



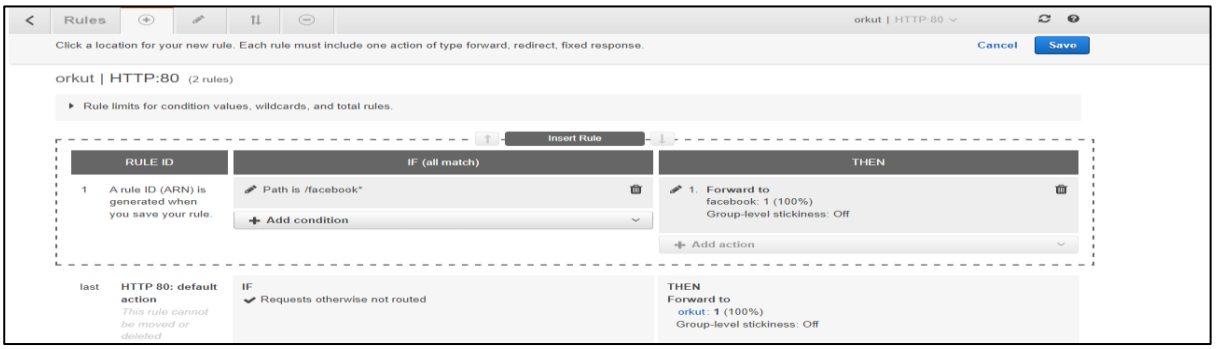
view and edit--->rules--->(+)--->(+)insert rules



IF-→add condition-->path(/facebook*)

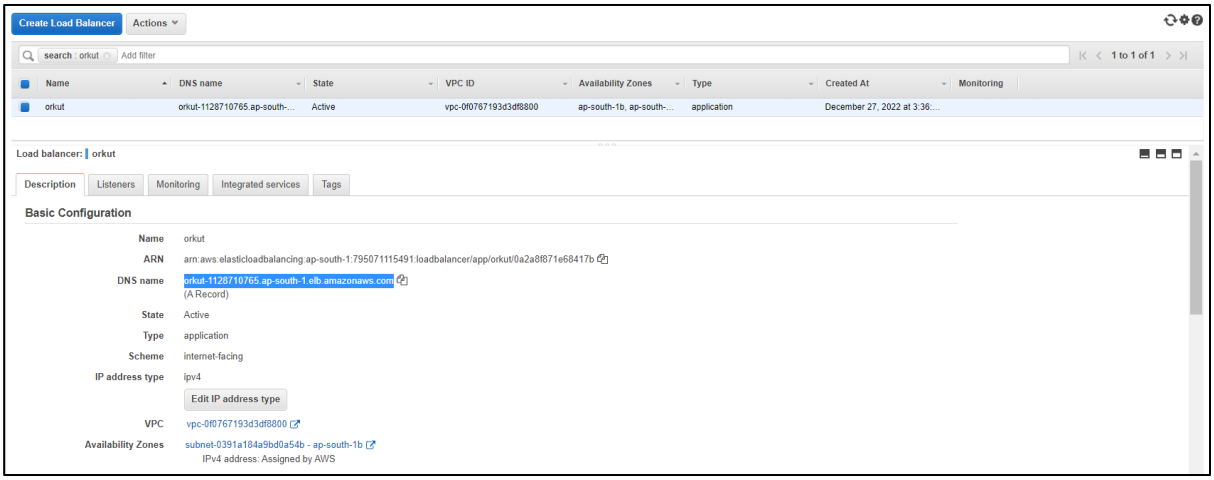
THEN--->add action-->forward to-->(facebook)

save...



load balancer home--->description --->copy DNS name/facebook

(eg: orkut-1128710765.ap-south-1.elb.amazonaws.com/facebook/**)**



Finally show..