**LOAD BALANCER**

A Load blancer is accepts incoming traffic from clients and routes requests to Ec2-instance. (targets)

The load balancer also monitors the health of its registered targets and ensure that it route traffic only to health targets.

When the load balancer detects an unhealthy targets , it stops routing traffic to target . it then resumes routing traffic to that target when it detects that the target is healthy again.

Step :1 Create a linux machine

Launch instance --- amazon linux ---no.of instance -1 ----subnet –souteast-1a –name tag -webserver-1-----security group—mysecurity group

Then open the two ports

1. ssh 22 anywere

2. http 80 anywere

**Then launch**

**Step 2: Acces the machine**

**Step 3: run the commands to install web package**

sudo –i

yum update –y

yum install httpd -y

cd /var/www/html

echo “webserver-1” > index.html

service httpd start

chkconfig httpd on

**step 5: Access the webserver by using public ip or DNS**

**step 6: launch one more linux machine and install web package**

Launch instance --- amazon linux ---no of instance -1 ----subnet –souteast-1b –name tag -webserver-2 -----security group—mysecurity group

**---step important : Advance details –user data**

#!/bin/bash

sudo su

yum update –y

yum install httpd -y

cd /var/www/html

echo “webserver-2” > index.html

service httpd start

chkconfig httpd on

ls

tags –webserver-2 ---securitygroup----mysecuritygroup – it will open the **ssh** and **http** ports.

**Step 7 : Create a load blancer**

**Selecte the classic load blancer**

**Loadblancer Name ---** **loadbalancer –next –LB INSIDE ---MYVPC-----select the subnets1a&1b exactly what we need,TARGET GROUP NAME--------Mytarget123-----selecte the exisiting security group –next –step 4:**

**Advance details :**

**Response Time out - 2 seconds**

**Interval -- 5 seconds**

**Unhealthy threshold -2**

**Healthy threshold - 2**

**Next --- Attach the both subnets**

**Next --- Attach the both instances**

**Next --- next ---create**

**Step 8: lets verify the 2nd instance manually**

**Select the public ip & paste in browser**

**Step 9: Access the load blancer by using DNS**

**Example:** myload-1887706558.ap-southeast-1.elb.amazonaws.com

**And experience the load balancer.**

**Step 10 : if one server is down,it should redirect the traffic to another server .**

1. **Then we can stop/terminate the machine**
2. **Remove the file / rename the file**