

# creating two ec2 instance connecting it with target group and creating load banner

## 1) Creating instance 1 , summery of 1<sup>st</sup> instance

Allow tags in metadata [Info](#)

Select

User data - optional [Info](#)  
Enter user data in the field.

```
#!/bin/bash
yumupdate-y
yuminstallhttpd-y
chkconfighttpdpd
IP_ADDR=$(curlhttp://169.254.169.254/latest/meta-data/publicipv4)
echo"ManualinstancewithIP$IP_ADDR">/var/www/html/index.html
echo"ok">/var/www/html/health.html
```

☐ User data has already been base64 encoded

**Summary**

Number of instances [Info](#)  
1

Software Image (AMI)  
Amazon Linux 2 AMI (HVM) - Ker...[read more](#)  
ami-069aabee6f53e7bf

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

Cancel **Launch instance**  
[Review commands](#)

## 2) Creating 2<sup>nd</sup> instance summary image

VPC - required [Info](#)  
vpc-0ca2ee4b6488076a7 (default) [Refresh](#)

Subnet [Info](#)  
subnet-0740d4201375f21ca [Refresh](#) [Create new subnet](#)  
VPC: vpc-0ca2ee4b6488076a7 Owner: 059076428015  
Availability Zone: us-east-1b IP addresses available: 4091 CIDR: 172.31.0.0/20

Auto-assign public IP [Info](#)  
Enable

Firewall (security groups) [Info](#)  
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.  
☒ Create security group ☐ Select existing security group

Security group name - required  
launch-wizard-6  
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and \_-./!@#,%&()\*~`

Description - required [Info](#)  
launch-wizard-6 created 2023-04-16T09:46:28.042Z

**Summary**

Number of instances [Info](#)  
1

Software Image (AMI)  
Amazon Linux 2 AMI (HVM) - Ker...[read more](#)  
ami-069aabee6f53e7bf

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

Cancel **Launch instance**  
[Review commands](#)

### 3) State of both the instances are running

The screenshot displays the AWS Management Console interface. On the left, the navigation menu includes 'New EC2 Experience', 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', and 'Instances'. The 'Instances' section is expanded, showing a list of instances. Two instances are listed: 'httpserver2' (Instance ID: i-0b659a0d54d66b57a) and 'httpserver1' (Instance ID: i-0e039ae9d3347fa2f). Both instances are in the 'Running' state, with '2/2 checks passed' and 'No alarms'. The 'httpserver1' instance is selected, and its details are shown in the main pane. The details include the Instance ID, Public IPv4 address (3.235.9.93), Private IPv4 addresses (172.31.12.216), and the Instance state (Running). The bottom of the console shows the Windows taskbar with the search bar and system tray.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
httpserver2	i-0b659a0d54d66b57a	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b
httpserver1	i-0e039ae9d3347fa2f	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a

**Instance: i-0e039ae9d3347fa2f (httpserver1)**

**Details** | Security | Networking | Storage | Status checks | Monitoring | Tags

**Instance summary** Info

Instance ID: i-0e039ae9d3347fa2f (httpserver1)

Public IPv4 address: 3.235.9.93 | [open address](#)

Private IPv4 addresses: 172.31.12.216

Instance state: Running

Public IPv4 DNS: ec2-3-235-9-93.compute-1.amazonaws.com | [open address](#)

Hostname type: Private IP DNS name (IPv4 only)

### 4) Creating target group

The screenshot displays the AWS Management Console interface for creating a target group. The 'EC2 > Target groups' page is shown. A table lists the target groups, with one entry: 'web-tg' (ARN: arn:aws:elasticloadbalancing:us-east-1:123456789012:targetgroup/web-tg/12345678901234567890123456789012). The target group is associated with the 'web-tg' load balancer. The 'web-tg' target group is selected, and its details are shown in the main pane. The details include the Name, ARN, Port (80), Protocol (HTTP), Target type (Instance), and Load balancer (None associated). The bottom of the console shows the Windows taskbar with the search bar and system tray.

Name	ARN	Port	Protocol	Target type	Load balancer
web-tg	arn:aws:elasticloadbalancing:us-east-1:123456789012:targetgroup/web-tg/12345678901234567890123456789012	80	HTTP	Instance	None associated

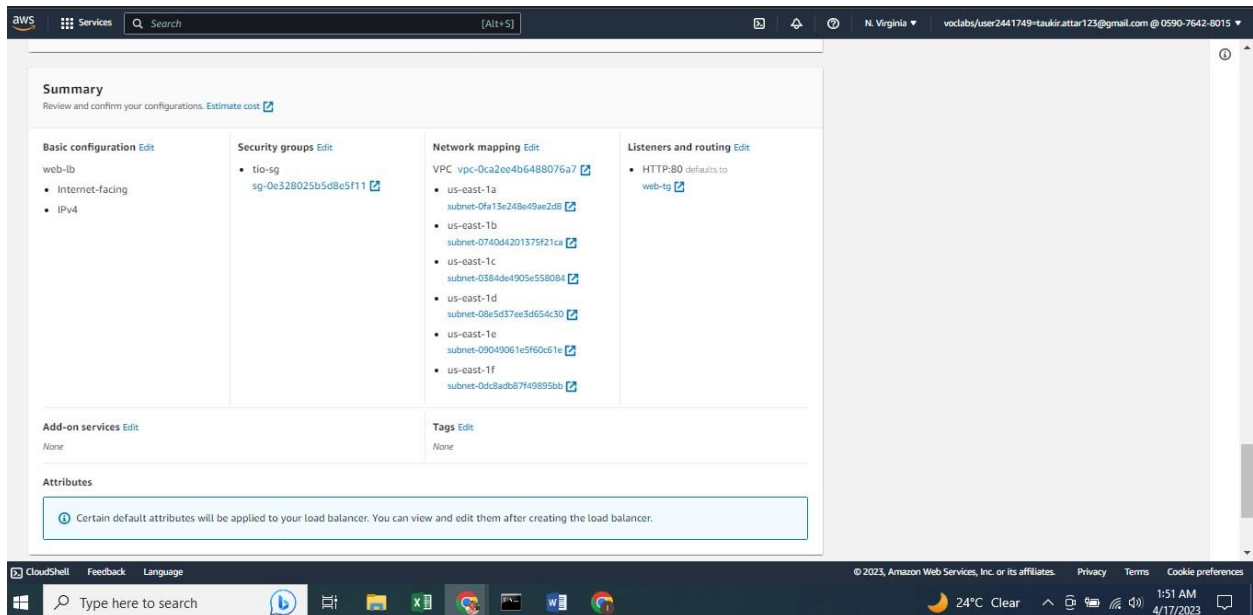
**Target group: web-tg**

**Details** | Targets | Monitoring | Health checks | Attributes | Tags

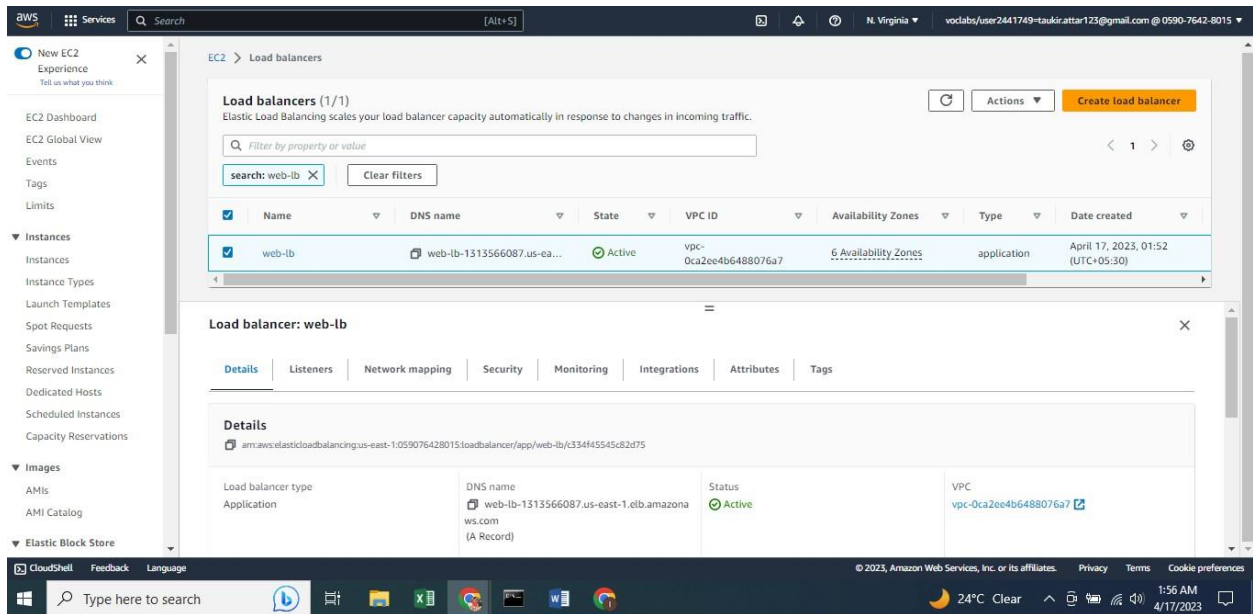
**Details**

### 5) Creating load balancer .

## Summary of load balancer imag



## 6) LOAD BALANCER IS CREATED



7) This is the dns <http://web-lb-1313566087.us-east-1.elb.amazonaws.com/>

8) Deleted the target group 9) Deleted the load balancer

10) Terminated both the  
instances

11) Project 2 is completed