

Load Balancer

Classic load balance in windows

Create EC2 instance

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
server-A	i-0fa2c5da0397cb7e	Running	t2.micro	Initializing	No alarms	us-east-2a	ec2-3-17-184-

Connect and Password change (Admin@123)

Enable IIS

Open server manager and click roles and features option

Enable IIS option

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results

Select one or more roles to install on the selected server.

Roles

- Active Directory Domain Services
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services
- Device Health Attestation
- DHCP Server
- DNS Server
- Fax Server
- File and Storage Services (1 of 12 installed)
 - Host Guardian Service
 - Hyper-V
 - Network Controller
 - Network Policy and Access Services
 - Print and Document Services
 - Remote Access
 - Remote Desktop Services
 - Volume Activation Services
 - Web Server (IIS)
 - Windows Deployment Services
 - Windows Server Update Services

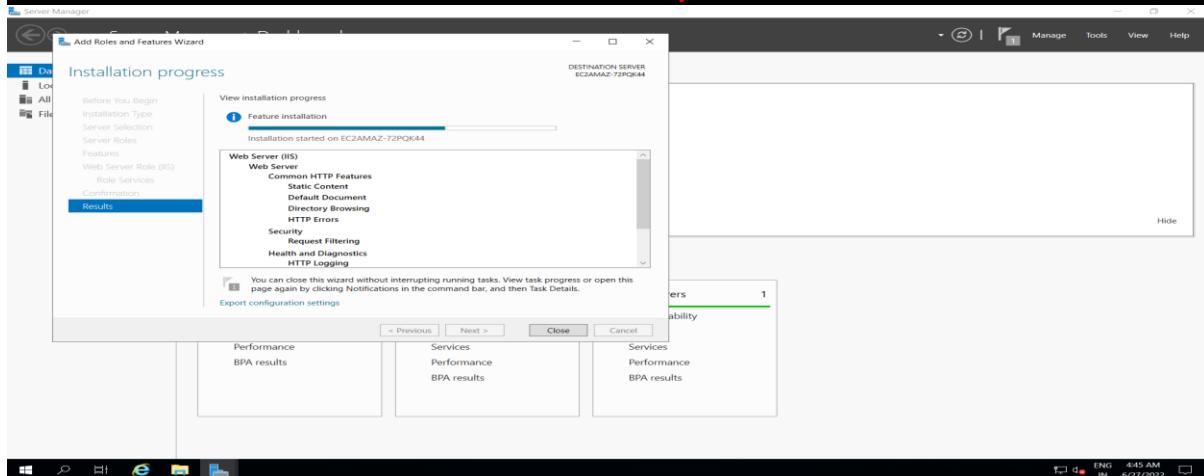
Description

Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.

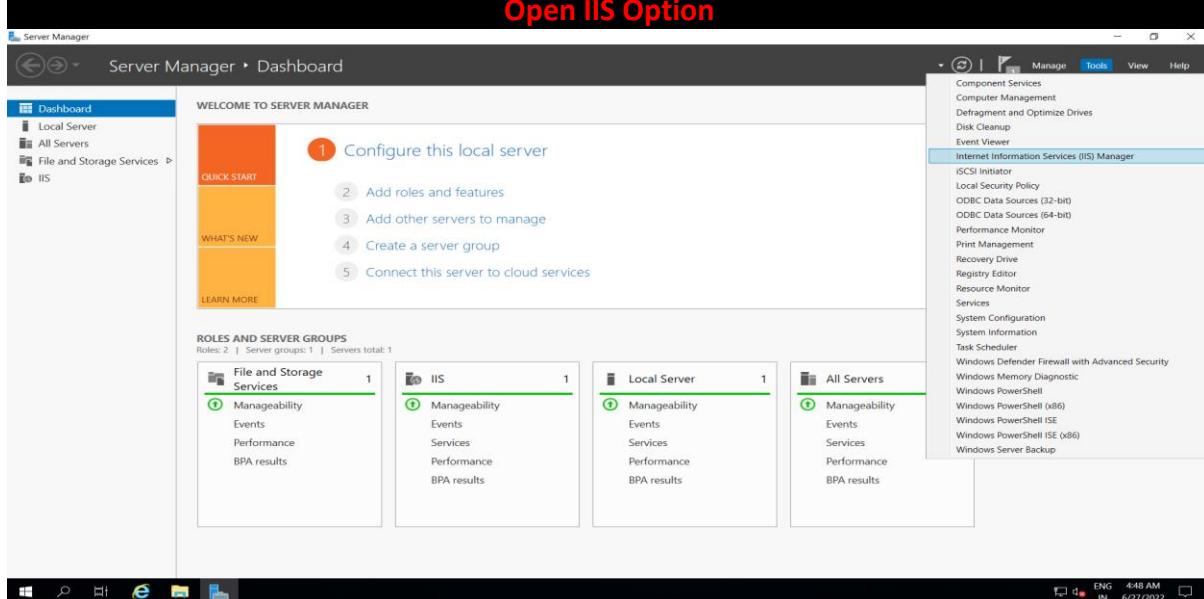
< Previous Next > Install Cancel

Load Balancer

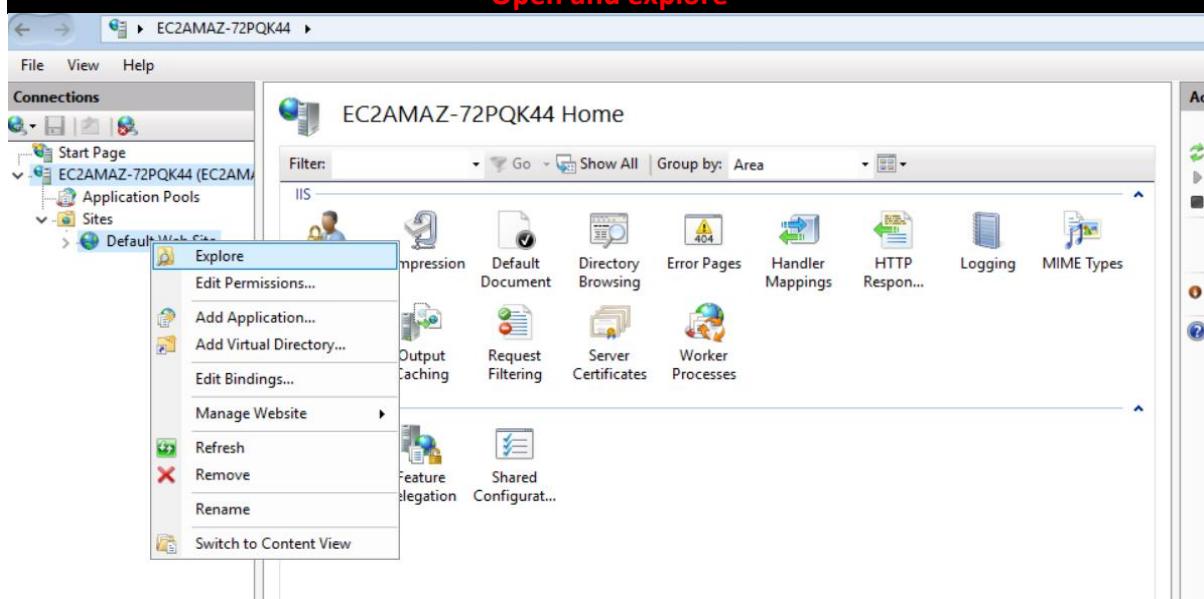
Install IIS steps



Open IIS Option

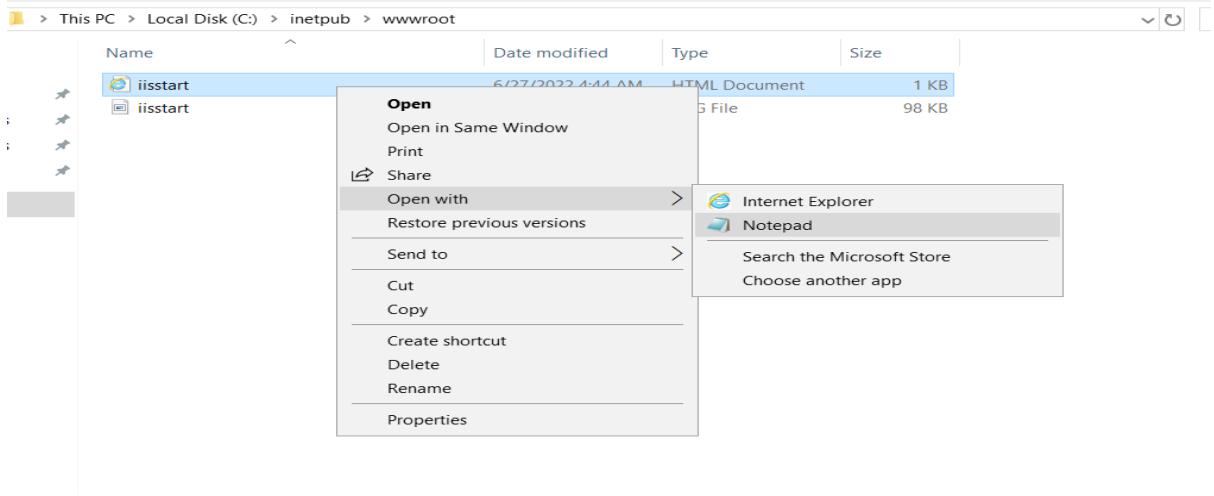


Open and explore



Load Balancer

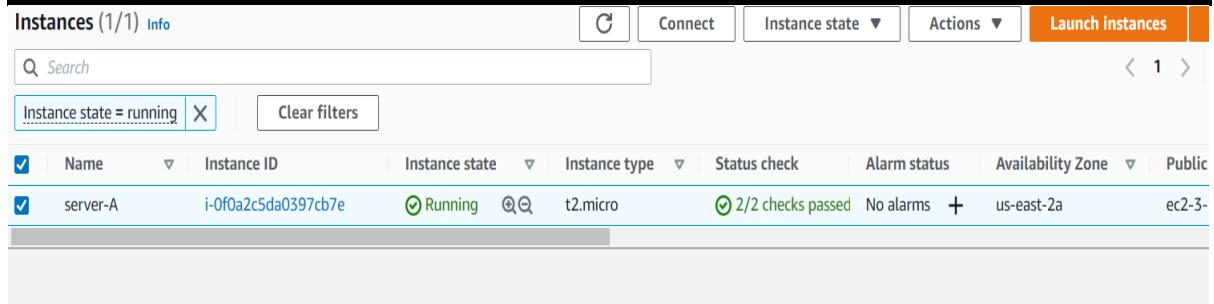
Open html file



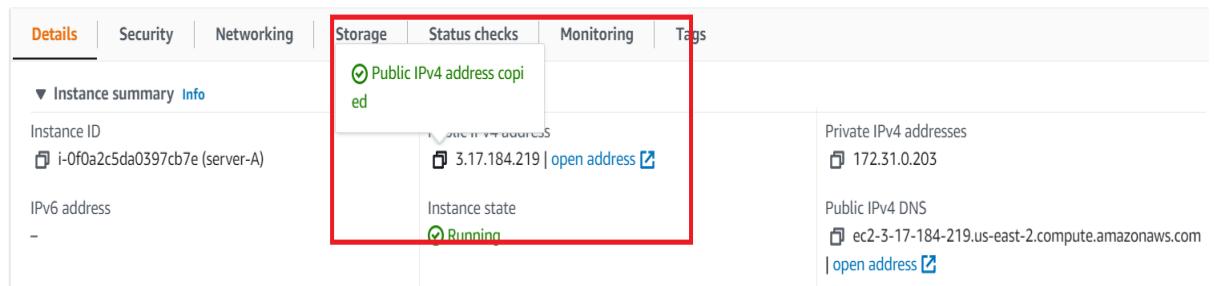
Add SERVER-A



Check IIS enable or not browse Public IP

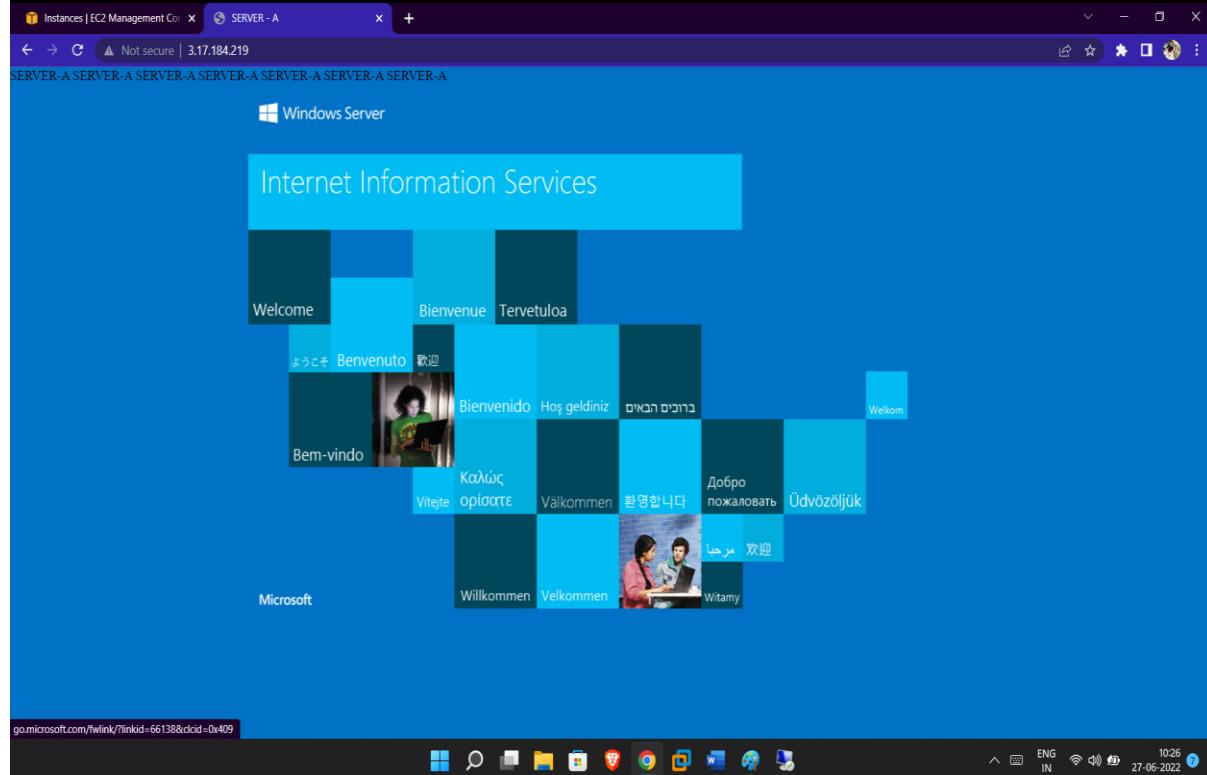


Instance: i-0f0a2c5da0397cb7e (server-A)



Load Balancer

Open IIS page



Create same AMI and launch in different AZ

Select EC2 and click to create image

Name	Instance ID	Instance state	Instance type	Status check	Alarm
server-A	i-0f0a2c5da0397cb7e	Running	t2.micro	2/2 checks passed	No alarm
SERVER-C	i-0ed49693567a4857f	Terminated	t2.micro	-	No alarm
z1	i-0b96779d51966e591	Shutting-down	t2.micro	2/2 checks passed	No alarm

Check To AMI option

Name	AMI ID	AMI name	Status	Creation date	Platform
IIS SERVER IMAGE	ami-0718d5bedd8058c95	SERVER-B	6...	2022/06/27 10:40 GMT+5:30	Windows

Launch AMI

SERVER-B - ami-0718d5bedd8058c95
SERVER-B WITH AMI IMAGE
Root device type: ebs Virtualization type: hvm Owner: 659202326636 ENA Enabled: Yes

Select 64-bit (x86)

Load Balancer

Change AZ

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an ac

Number of instances Launch into Auto Scaling Group [\(i\)](#)

Purchasing option Request Spot instances

Network [\(i\)](#) vpc-0c930c8f6492bbf6c | D-VPC (default) [\(i\)](#) [Create new VPC](#)

Subnet [\(i\)](#) subnet-07663653eeb747912 | Default in us-east-2c [\(i\)](#) No preference (default subnet in any Availability Zone) [\(i\)](#) subnet-09270613a3c12521f | Default in us-east-2a [\(i\)](#) subnet-039d04a563f0ce14c | Default in us-east-2b [\(i\)](#) subnet-07663653eeb747912 | Default in us-east-2c [\(i\)](#) [Create new subnet](#)

Auto-assign Public IP [\(i\)](#)

Hostname type [\(i\)](#) Use subnet setting (IP name) [\(i\)](#)

DNS Hostname [\(i\)](#) Enable IP name IPv4 (A record) DNS requests

Create successfully

Instances (2) [Info](#)

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
<input type="checkbox"/>	server-A	i-0f0a2c5da0397cb7e	Running	t2.micro	2/2 checks passed	No alarms	us-east-2a	ec2-3-17-18
<input type="checkbox"/>	server-B	i-0696e324097e5e3e4	Running	t2.micro	2/2 checks passed	No alarms	us-east-2c	ec2-3-16-89

Only change in html file name

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head> SERVER-B SERVER-B SERVER-B SERVER-B SERVER-B SERVER-B SERVER-B
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>SERVER - B</title>
<style type="text/css">
<!--
body {
    color:#000000;
    background-color:#0072C6;
    margin:0;

```

Copy public in server -b

<input type="checkbox"/>	server-A	i-0f0a2c5da0397cb7e	Running	t2.micro	2/2 checks passed	No alarms	+	us-east-2a
<input checked="" type="checkbox"/>	server-B	i-0696e324097e5e3e4	Running	t2.micro	2/2 checks passed	No alarms	+	us-east-2c

Instance: i-0696e324097e5e3e4 (server-B)

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

Instance summary [Info](#)

Instance ID [i-0696e324097e5e3e4 \(server-B\)](#)

IPv6 address -

Public IPv4 address copied [View IP address](#)

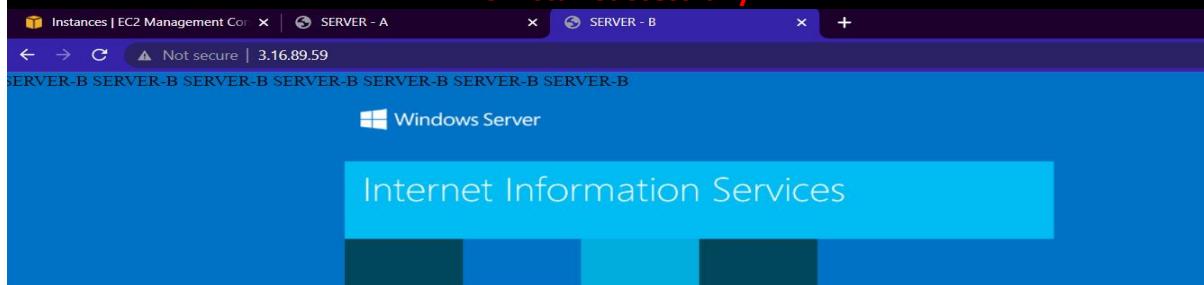
3.16.89.59 | [open address](#)

Instance state Running

Private IPv4 addresses [172.31.32.49](#)

Public IPv4 DNS [ec2-3-16-89-59.us-east-2.compute.amazonaws.com](#)

IIS install successfully



Load Balancer

Click to create load balance

Create Load Balancer Actions ▾

Filter by tags and attributes or search by keyword

Name DNS name State VPC ID

Select a load balancer



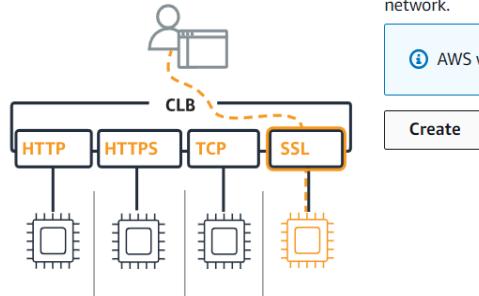
Select classic LB

▼ Classic Load Balancer - previous generation

Classic Load Balancer Info

Choose a Classic Load Balancer when you have an existing application running in the EC2-Classic network.

AWS will be retiring the EC2-Classic network on August 15, 2022. [Learn more](#)



Insert name and configure options

1. Define Load Balancer 2. Assign Security Groups 3. Configure Security Settings 4. Configure Health Check 5. Add EC2 Instances 6. Add Tags 7. Review

Step 1: Define Load Balancer

Basic Configuration

This wizard will walk you through setting up a new load balancer. Begin by giving your new load balancer a unique name so that you can identify it from other load balancers you might create. You will need to configure ports and protocols for your load balancer. Traffic from your clients can be routed from any load balancer port to any port on your EC2 instances. By default, we've configured your load balancer with a standard web server on port 80.

Load Balancer name: SERVER-LB

Create LB Inside: My Default VPC (172.31.0.0/16) | D-VPC

Create an internal load balancer: (what's this?)

Enable advanced VPC configuration:

Listener Configuration:

Load Balancer Protocol	Load Balancer Port	Instance Protocol	Instance Port
HTTP	80	HTTP	80

Add

Add SG

1. Define Load Balancer 2. Assign Security Groups 3. Configure Security Settings 4. Configure Health Check 5. Add EC2 Instances 6. Add Tags 7. Review

Step 2: Assign Security Groups

You have selected the option of having your Elastic Load Balancer inside of a VPC, which allows you to assign security groups to your load balancer. Please select the security groups to assign to this load balancer. This can be changed at any time.

Assign a security group: Create a new security group Select an existing security group

Filter [VPC security group]

Security Group ID	Name	Description	Actions
sg-0f23f5d6233025ab0	default	default VPC security group	Copy to new
sg-0562b1014908e2127	LB-SG	launch-wizard-1 created 2022-06-27T10:03:59.074+05:30	Copy to new

Load Balancer

Check all option and modify(CHANGE PATH)

Step 4: Configure Health Check

Your load balancer will automatically perform health checks on your EC2 instances and only route traffic to instances that pass the health check. If an instance fails the health check, it is automatically removed from the load balancer. Customize the health check to meet your specific needs.

Ping Protocol	HTTP
Ping Port	80
Ping Path	/iisstart.htm

Advanced Details

Response Timeout	5	seconds
Interval	10	seconds
Unhealthy threshold	2	
Healthy threshold	2	

Select instance

Step 5: Add EC2 Instances

The table below lists all your running EC2 Instances. Check the boxes in the Select column to add those instances to this load balancer.

VPC vpc-0c930c8f6492bbf6c (172.31.0.0/16) | D-VPC

Instance	Name	State	Security groups	Zone	Subnet ID	Subnet CIDR
<input checked="" type="checkbox"/> i-0696e324097e5e3e4	server-B	running	LB-SG	us-east-2c	subnet-0766365...	172.31.32.0/20
<input checked="" type="checkbox"/> i-0f0a2c5da0397cb7e	server-A	running	LB-SG	us-east-2a	subnet-0927061...	172.31.0.0/20

Availability Zone Distribution

1 instance in us-east-2a

1 instance in us-east-2c

Enable Cross-Zone Load Balancing

Enable Connection Draining

300 seconds

Add tags

Step 6: Add Tags

Apply tags to your resources to help organize and identify them.

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#) about tagging your Amazon EC2 resources.

Key	Value
name	SERVER-LB

Create Tag

Create successfully

Load Balancer Creation Status



Successfully created load balancer

Load balancer SERVER-LB was successfully created.

Note: It may take a few minutes for your instances to become active in the new load balancer.

Load Balancer

If system was not communicate status (out of service)

The screenshot shows the AWS Load Balancer console for a load balancer named SERVER-LB. The Instances tab is selected. Two instances are listed: server-B and server-A. Both instances are in the 'OutOfService' status, indicated by a red box around their status column.

Instance ID	Name	Availability Zone	Status	Actions
i-0696e324097e5e3e4	server-B	us-east-2c	OutOfService ⓘ	Remove from Load Balancer
i-0f0a2c5da0397cb7e	server-A	us-east-2a	OutOfService ⓘ	Remove from Load Balancer

Communication successfully

The screenshot shows the AWS Load Balancer console for the same load balancer. The Instances tab is selected. The two instances, server-B and server-A, are now in the 'InService' status, indicated by a red box around their status column.

Instance ID	Name	Availability Zone	Status	Actions
i-0696e324097e5e3e4	server-B	us-east-2c	InService ⓘ	Remove from Load Balancer
i-0f0a2c5da0397cb7e	server-A	us-east-2a	InService ⓘ	Remove from Load Balancer

Copy DNS IP

The screenshot shows the AWS Load Balancer console for the load balancer. The Instances tab is selected. The basic configuration section shows the copied DNS IP: SERVER-LB-1486423475.us-east-2.elb.amazonaws.com (A Record).

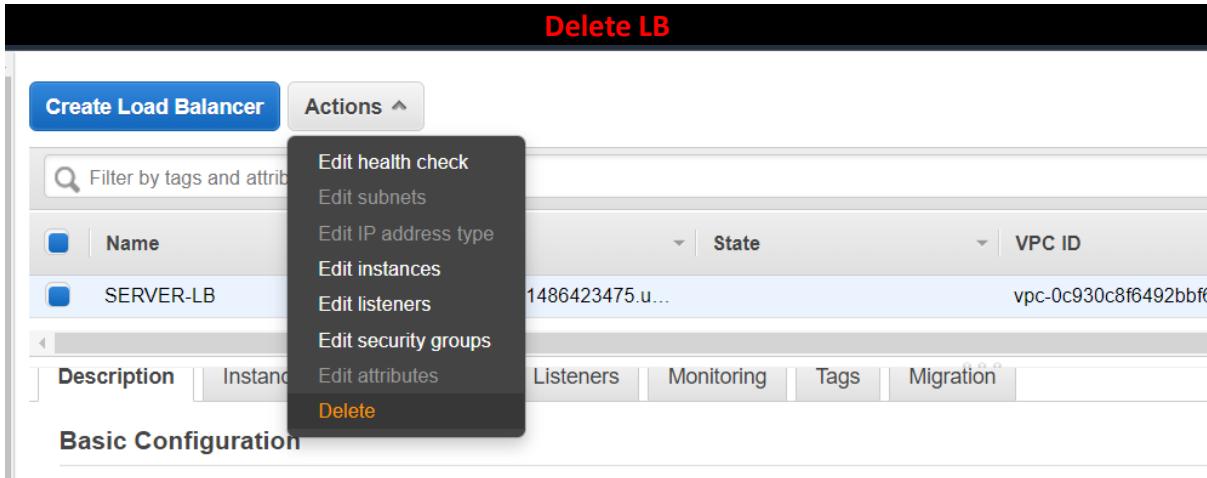
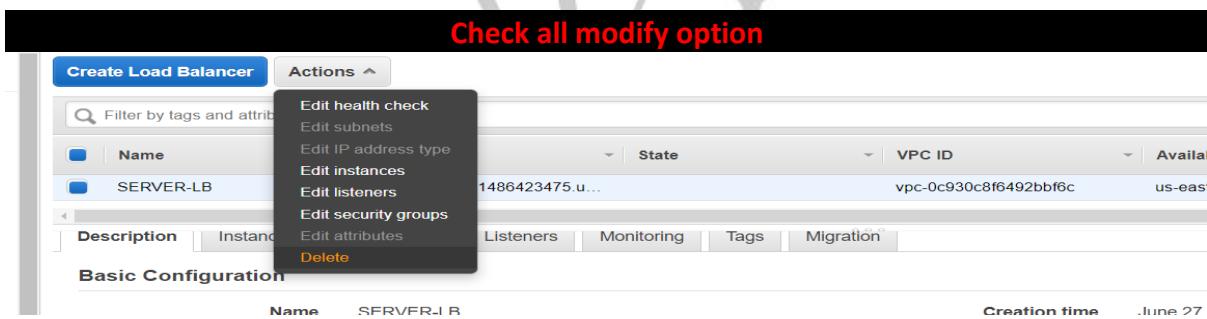
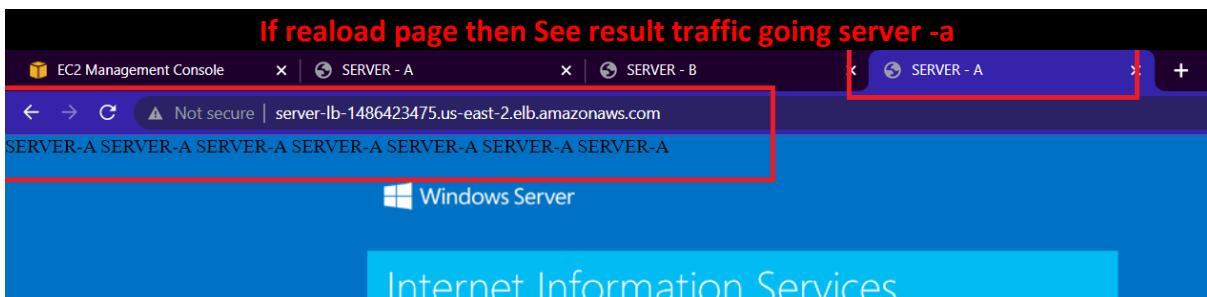
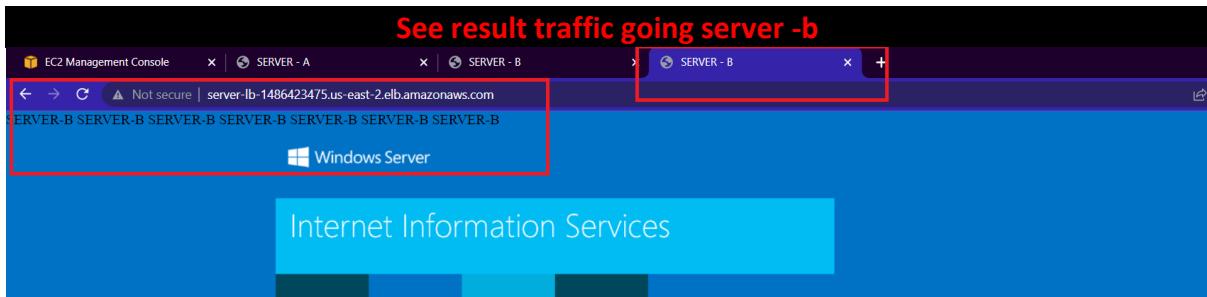
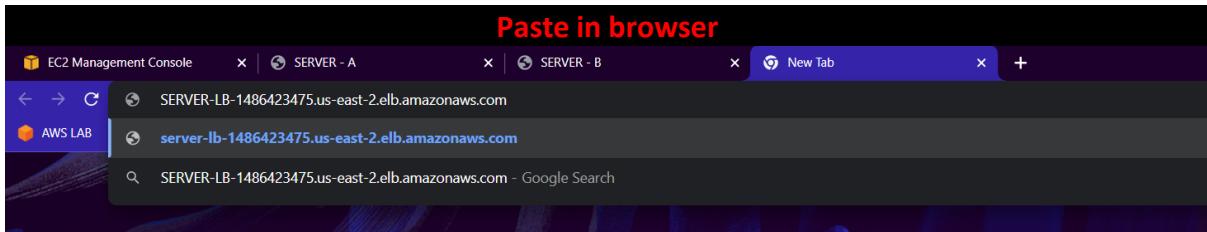
Name	DNS name	State	VPC ID	Availability Zones	Type
SERVER-LB	SERVER-LB-1486423475.u...	Active	vpc-0c930c8f6492bbf6c	us-east-2c, us-east-2b, ...	classic

Basic Configuration

Name	SERVER-LB
* DNS name	SERVER-LB-1486423475.us-east-2.elb.amazonaws.com (A Record)
Type	Classic (Migrate Now)
Scheme	internet-facing
Availability Zones	subnet-039d04a563f0ce14c - us-east-2b, subnet-07663653eeb747912 - us-east-2c, subnet-a09270613a3c12521f - us-east-2a

Creation time: June 27, 2022 at 11:18:13 AM UTC+5:30
Hosted zone: Z3AADJGX6KTTL2
Status: 2 of 2 instances in service
VPC: vpc-0c930c8f6492bbf6c

Load Balancer



Load Balancer

Classic load balance in Ubuntu

Create EC2 instance

Launch instance

To get started, launch an Amazon EC2 Instance, which is a virtual server in the cloud.

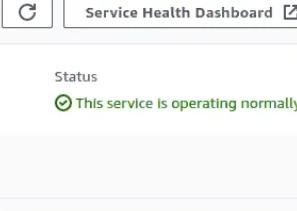
Launch instance

Note: Your Instances will launch in the US East (N. Virginia) Region

Service health

Region: US East (N. Virginia) Status: **This service is operating normally**

Zone status



Select ubuntu

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-085925f297f89fce1 (64-bit x86) / ami-05d7ab19b28efa213 (64-bit Arm)

Ubuntu Server 18.04 LTS (HVM) EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Free tier eligible Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select 64-bit (x86)

64-bit (x86) 64-bit (Arm)



Add script (Apache server enable)

Step 3: Configure Instance Details

IAM role: None Create new IAM role

Shutdown behavior: Stop

Stop - Hibernate behavior: Enable hibernation as an additional stop behavior

Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring Additional charges apply

Tenancy: Shared - Run a shared hardware instance Additional charges may apply when launching Dedicated instances.

Elastic Inference: Add an Elastic Inference accelerator Additional charges apply

T2/T3 Unlimited: Enable Additional charges may apply

File systems: Add file system Create new file system

Advanced Details

Metadata accessible: Enabled

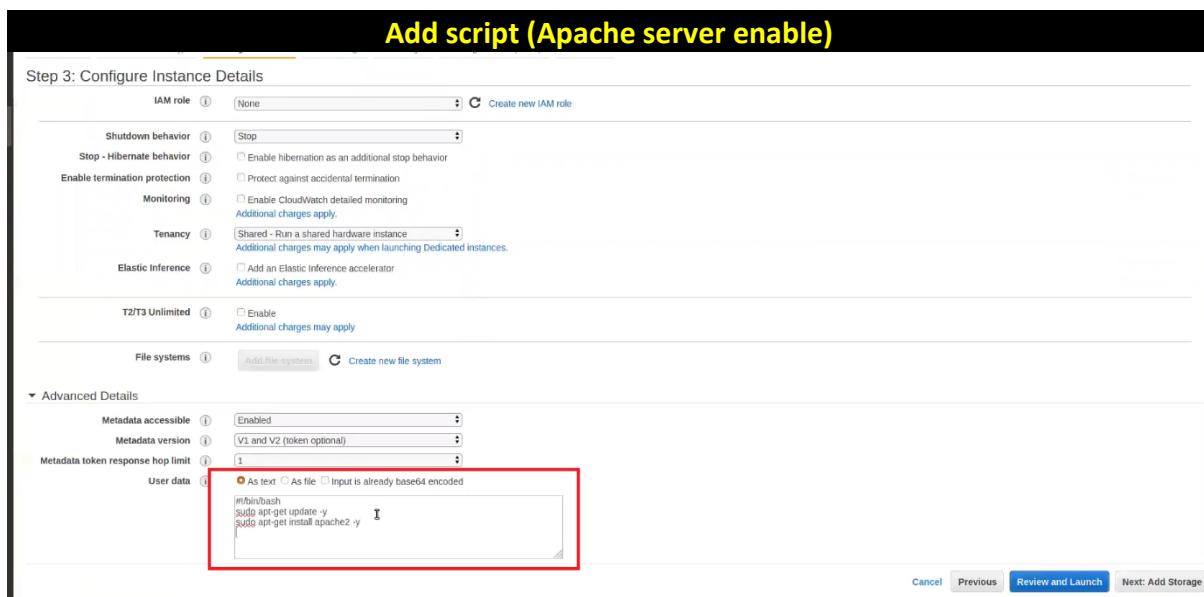
Metadata version: V1 and V2 (token optional)

Metadata token response hop limit: 1

User data:

```
#!/bin/bash
sudo apt-get update -y
sudo apt-get install apache2 -y
```

Cancel Previous Review and Launch Next: Add Storage

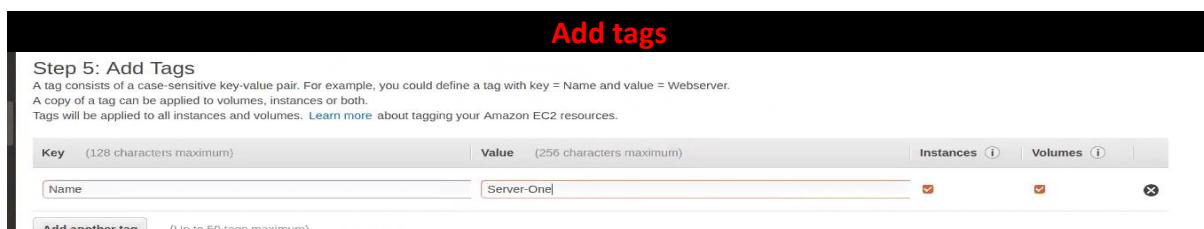


Add tags

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes
Name		Server-One		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Add another tag (Up to 50 tags maximum)					



Select SG

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

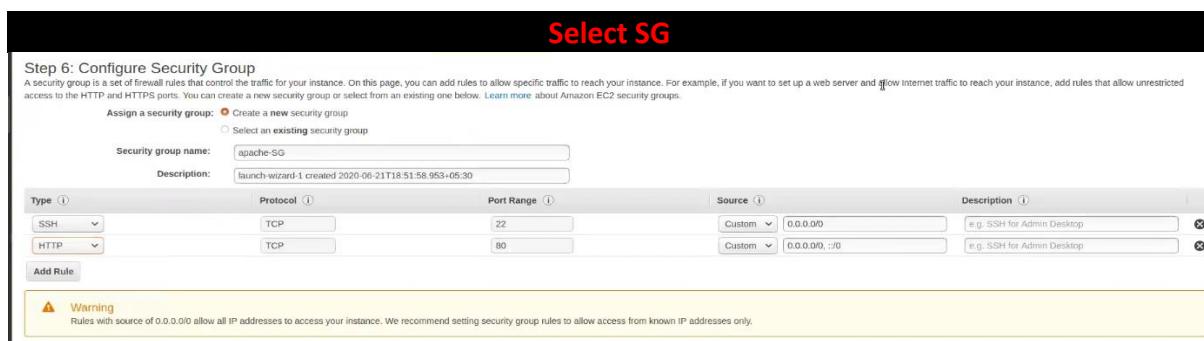
Assign a security group: Create a new security group Select an existing security group

Security group name: apache-SG

Description: launch-wizard-1 created 2020-06-21T18:51:58.953+05:30

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Warning Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.



Load Balancer

Successfully create

The screenshot shows the AWS CloudFormation console with a table of resources. One resource, 'Server-One', is listed with the following details:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name	Monitoring
Server-One	i-0cfb38a2d67909268	t2.micro	us-east-1e	running	Initializing	None	ec2-100-26-250-122.co...	100.26.250.122	-	first-vm-keys	disabled

Launch make same

The screenshot shows the AWS CloudFormation console with a table of stacks. One stack, 'Server-One', is selected. A context menu is open over the stack, showing options like 'Get Windows Password', 'Create Template From Instance', and 'Launch More Like This'. The 'Launch More Like This' option is highlighted.

Create successfully

The screenshot shows the AWS CloudFormation console with a table of stacks. Two stacks are listed:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name	Monitoring
Server-Two	i-0b4f85f37236970bf	t2.micro	us-east-1e	running	Initializing	None	ec2-54-160-121-143.co...	54.160.121.143	-	first-vm-keys	disabled
Server-One	i-0cfb38a2d67909268	t2.micro	us-east-1e	running	Initializing	None	ec2-100-26-250-122.co...	100.26.250.122	-	first-vm-keys	disabled

Copy key SSH

The screenshot shows the AWS CloudFormation console with a 'Connect to your instance' dialog open. The dialog provides instructions for connecting via SSH:

- Connection method: A standalone SSH client (selected).
- To access your instance:
 - Open an SSH client. (find out how to [connect using PuTTY](#))
 - Locate your private key file (first-vm-keys.pem). The wizard automatically detects the key you used to launch the instance.
 - Your key must not be publicly viewable for SSH to work. Use this command if needed:
chmod 400 first-vm-keys.pem
- Connect to your instance using its Public DNS:
ec2-100-26-250-122.compute-1.amazonaws.com

Example:
ssh -i "first-vm-keys.pem" ubuntu@ec2-100-26-250-122.compute-1.amazonaws.com

Please note that in most cases the username above will be correct, however please ensure that you read your AMI usage instructions to ensure that the AMI owner has not changed the default AMI username.

If you need any assistance connecting to your instance, please see our [connection documentation](#).

Insert CMD SSH

```
(base) prabhakar@Sun Jun 21-18:55:28:~$ cd ~/Downloads/awsKeys/
(base) prabhakar@Sun Jun 21-18:55:42:~/Downloads/awsKeys$ ssh -i "first-vm-keys.pem" ubuntu
@ec2-100-26-250-122.compute-1.amazonaws.com
```

Load Balancer

OPEN HTML file

```
ubuntu@ip-172-31-60-11:~$ cd /var/www/html/  
ubuntu@ip-172-31-60-11:/var/www/html$ ls  
index.html  
ubuntu@ip-172-31-60-11:/var/www/html$ sudo vi index.html
```

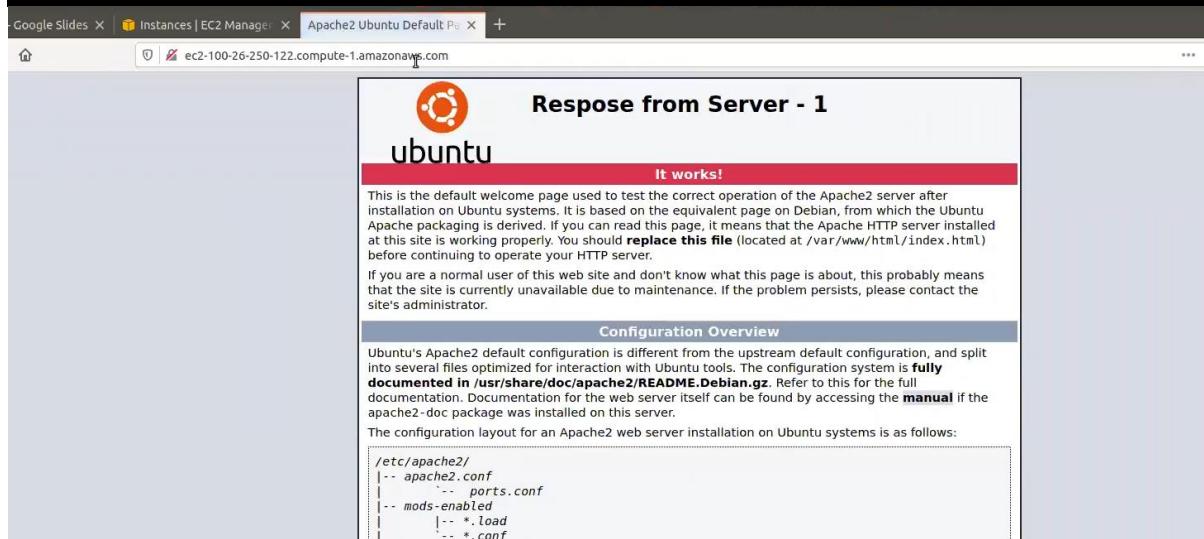
Change name and save

```
  
<span class="floating_element">  
    Response from Server - 1  
</span>  
</div>  
    <div class="table_of_contents floating_element">
```

Copy public IP

Public DNS (IPv4)	ec2-100-26-250-122.compute-1.amazonaws.com
IPv4 Public IP	100.26.250.122
IPv6 IPs	-
Elastic IPs	
Availability zone	us-east-1e
Security groups	apache-SG, view inbound rules, view outbound rules

Browse



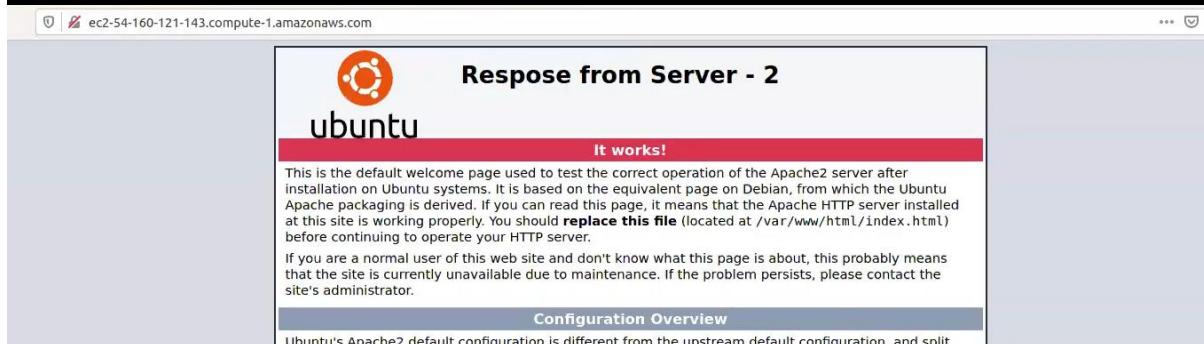
All step follows to server -2

Load Balancer

Copy to server2

Public DNS (IPv4)	ec2-54-160-121-143.compute-1.amazonaws.com
IPv4 Public IP	54.160.121.143
IPv6 IPs	-
Elastic IPs	
Availability zone	us-east-1e
Security groups	apache-SG. view inbound rules. view outbound rules
Scheduled events	No scheduled events

browse



Click to create load balance

The screenshot shows the AWS CloudFormation 'Create Load Balancer' interface. It includes a 'Create Load Balancer' button, an 'Actions' dropdown, a search bar, and filters for 'Name', 'DNS name', 'State', and 'VPC ID'. Below the search bar is a 'Select a load balancer' section with a blue circular icon.

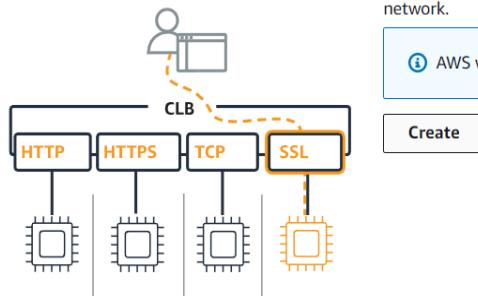
Select classic LB

▼ Classic Load Balancer - previous generation

Classic Load Balancer [Info](#)

Choose a Classic Load Balancer when you have an existing application running in the EC2-Classic network.

i AWS will be retiring the EC2-Classic network on August 15, 2022. [Learn more](#)



Load Balancer

Insert name and configure options

1. Define Load Balancer 2. Assign Security Groups 3. Configure Security Settings 4. Configure Health Check 5. Add EC2 Instances 6. Add Tags 7. Review

Step 1: Define Load Balancer

Basic Configuration

This wizard will walk you through setting up a new load balancer. Begin by giving your new load balancer a unique name so that you can identify it from other load balancers you might create. You will also need to configure ports and protocols for traffic to be routed from any load balancer port to any port on your EC2 instances. By default, we've configured your load balancer with a standard web server on port 80.

Load Balancer name:

Create LB Inside:

Create an internal load balancer: (what's this?)

Enable advanced VPC configuration:

Listener Configuration:

Load Balancer Protocol	Load Balancer Port	Instance Protocol	Instance Port
HTTP	80	HTTP	80
<input type="button" value="Add"/>			

Add SG

Step 2: Assign Security Groups

You have selected the option of having your Elastic Load Balancer inside of a VPC, which allows you to assign security groups to your load balancer. Please select the security groups to assign to this load balancer.

Assign a security group: Create a new security group
 Select an existing security group

Security Group ID	Name	Description
<input type="checkbox"/> sg-04d8ffd73ad9f16ec	apache	launch-wizard-1 created 2020-06-21T17:32:29.894+05:30
<input checked="" type="checkbox"/> sg-095aa568791cb0ebc	apache-SG	launch-wizard-1 created 2020-06-21T18:51:58.953+05:30
<input type="checkbox"/> sg-f353f2d1	default	default VPC security group

Check all option and modify (CHANGE PATH)

1. Define Load Balancer 2. Assign Security Groups 3. Configure Security Settings 4. Configure Health Check 5. Add EC2 Instances 6. Add Tags 7. Review

Step 4: Configure Health Check

Your load balancer will automatically perform health checks on your EC2 instances and only route traffic to instances that pass the health check. If an instance fails the health check, it is removed from the list of healthy instances until it passes the health check again.

Ping Protocol:

Ping Port:

Ping Path:

Advanced Details

Response Timeout: seconds

Interval: seconds

Unhealthy threshold:

Healthy threshold:

Load Balancer

Select instance

Step 5: Add EC2 Instances

The table below lists all your running EC2 Instances. Check the boxes in the Select column to add those instances to this load balancer.

VPC vpc-6438241e (172.31.0.0/16)

Instance	Name	State	Security groups
<input checked="" type="checkbox"/> i-0cfb38a2d67909268	Server-One	running	apache-SG
<input checked="" type="checkbox"/> i-0b4f85f372369708f	Server-Two	running	apache-SG

Availability Zone Distribution

2 instances in us-east-1e

Enable Cross-Zone Load Balancing (i)

Enable Connection Draining (i) 300 seconds

Create successfully

Load Balancer Creation Status



Successfully created load balancer

Load balancer prabhakasr-clb was successfully created.

Note: It may take a few minutes for your instances to become active in the new load balancer.

Communication successfully

Create Load Balancer Actions ▾

Q Filter by tags and attributes or search by keyword

Name	DNS name	State	VPC ID	Availability Zones	Type	Created At	Monitoring
prabhakasr-clb	prabhakasr-clb-1530697023....	vpc-6438241e	us-east-1f, us-east-1e, ...	classic	June 21, 2020 at 7:00:35 P...		

Load balancer: prabhakasr-clb

Description Instances Health check Listeners Monitoring Tags Migration

Connection Draining: Enabled, 300 seconds (Edit)

Edit Instances

Instance ID	Name	Availability Zone	Status	Actions
i-0cfb38a2d67909268	Server-One	us-east-1e	InService (i)	Remove from Load Balancer
i-0b4f85f372369708f	Server-Two	us-east-1e	InService (i)	Remove from Load Balancer

Edit Availability Zones

Availability Zone	Subnet ID	Subnet CIDR	Instance Count	Healthy?	Actions
us-east-1f	subnet-142e941a	172.31.64.0/20	0	No (Availability Zone contains no healthy targets)	Remove from Load Balancer
us-east-1e	subnet-520a1d6c	172.31.48.0/20	2	Yes	Remove from Load Balancer
us-east-1d	subnet-5165a80e	172.31.32.0/20	0	No (Availability Zone contains no healthy targets)	Remove from Load Balancer
us-east-1c	subnet-600f9f2d	172.31.16.0/20	0	No (Availability Zone contains no healthy targets)	Remove from Load Balancer
us-east-1b	subnet-39fd531c	172.31.80.0/20	0	No (Availability Zone contains no healthy targets)	Remove from Load Balancer
us-east-1a	subnet-b2d111d4	172.31.0.0/20	0	No (Availability Zone contains no healthy targets)	Remove from Load Balancer

Load Balancer

Copy DNS IP

The screenshot shows the AWS Load Balancers console. At the top, there are buttons for 'Create Load Balancer' and 'Actions'. Below is a search bar and a table with one row. The table columns are: Name, DNS name, State, VPC ID, Availability Zones, Type, Created At, and Monitoring. The single row shows 'prabhakar-clb' with its DNS name as 'prabhakar-clb-1530697023.us-east-1.elb.amazonaws.com'. The status is 'Active', it's associated with 'vpc-6438241e', located in 'us-east-1f, us-east-1e, ...' availability zones, is of type 'classic', and was created on 'June 21, 2020 at 7:00:35 P...'. Below the table, there's a detailed view for 'prabhakar-clb' with tabs for Description, Instances, Health check, Listeners, Monitoring, Tags, and Migration. The 'Description' tab is selected. It shows basic configuration details: Name (prabhakar-clb), DNS name (prabhakar-clb-1530697023.us-east-1.elb.amazonaws.com), Type (Classic (Migrate Now)), Scheme (internet-facing), and Availability Zones (subnet-142e941a - us-east-1f). Creation time is June 21, 2020 at 7:00:35 PM UTC+5:30, Hosted zone is Z35SXDOTRQ7X7K, Status is 2 of 2 instances in service, and VPC is vpc-6438241e.

Paste in browser

See result traffic going server -1

The screenshot shows a web browser window with multiple tabs open. The active tab is for the URL 'prabhakar-clb-1530697023.us-east-1.elb.amazonaws.com'. The page title is 'Response from Server - 1'. It features the Ubuntu logo and the text 'It works!'. Below this, a paragraph explains the purpose of the page: 'This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should [replace this file](#) (located at /var/www/html/index.html) before continuing to operate your HTTP server.' A 'Configuration Overview' section at the bottom provides more details about the Apache2 configuration.

If reload page then See result traffic going server -2

The screenshot shows a web browser window with multiple tabs open. The active tab is for the URL 'prabhakar-clb-1530697023.us-east-1.elb.amazonaws.com'. The page title is 'Response from Server - 2'. It features the Ubuntu logo and the text 'It works!'. Below this, a paragraph explains the purpose of the page: 'This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should [replace this file](#) (located at /var/www/html/index.html) before continuing to operate your HTTP server.' A 'Configuration Overview' section at the bottom provides more details about the Apache2 configuration.

Load Balancer

Create Application LB (old wizard)

Create ec2

Filter by tags and attributes or search by keyword								
	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
	11	i-02a0ec7c19cf52811	t2.large	us-east-1a	running	2/2 checks...	None	ec2-54-197-36-51.co
	12	i-0bcd0c5937fbaf551	t2.large	us-east-1a	running	2/2 checks...	None	ec2-34-226-136-176.

Create work.html file in instance

The screenshot shows a Windows File Explorer window with the path: Computer > Local Disk (C:) > inetpub > wwwroot. A 'work' folder is selected. Inside 'work', there are three files: 'iisstart.htm', 'test.html', and 'welcome.png'. A tooltip for 'welcome.png' indicates it is an HTML file (Type: HTML File), 22 bytes in size, and was modified on 7/28/2017 at 8:23 AM.

Browse done

The screenshot shows an Internet Explorer browser window with the URL 'http://localhost/test.html'. The page content displays the text 'test file'.

Create folder and create one html file

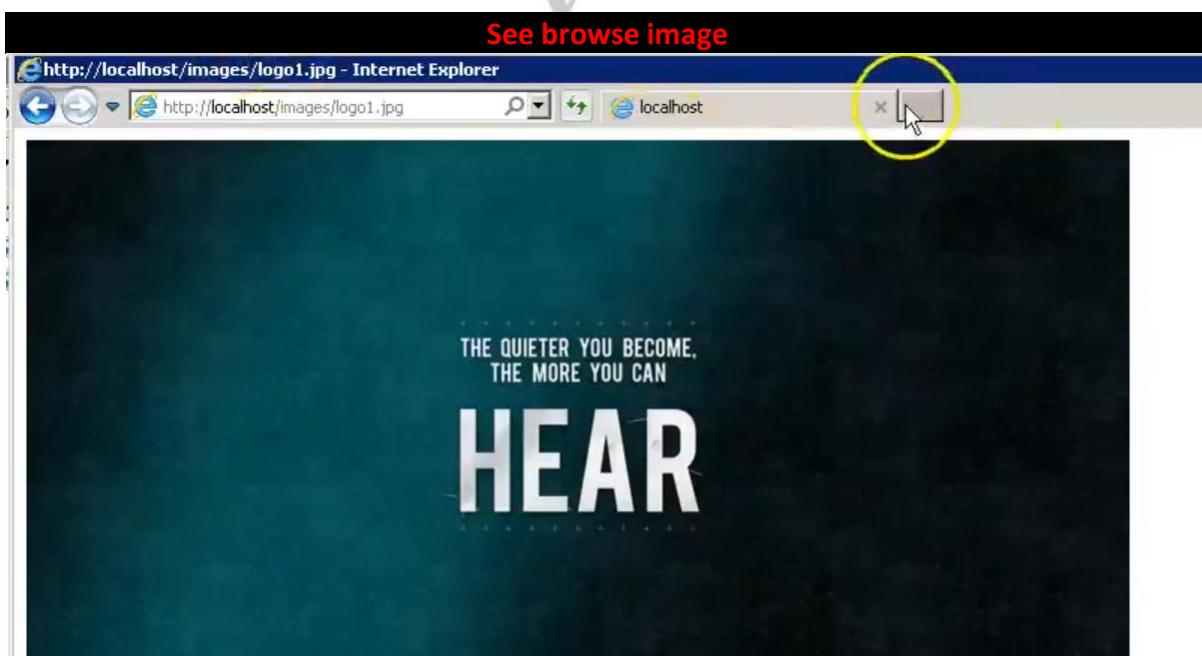
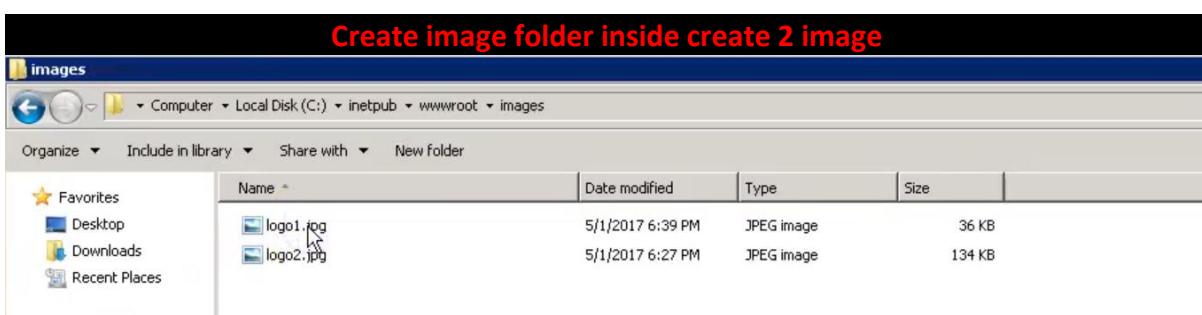
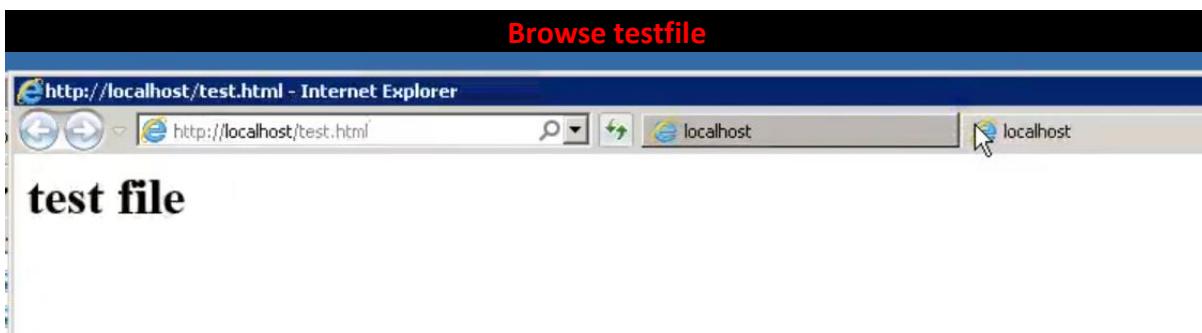
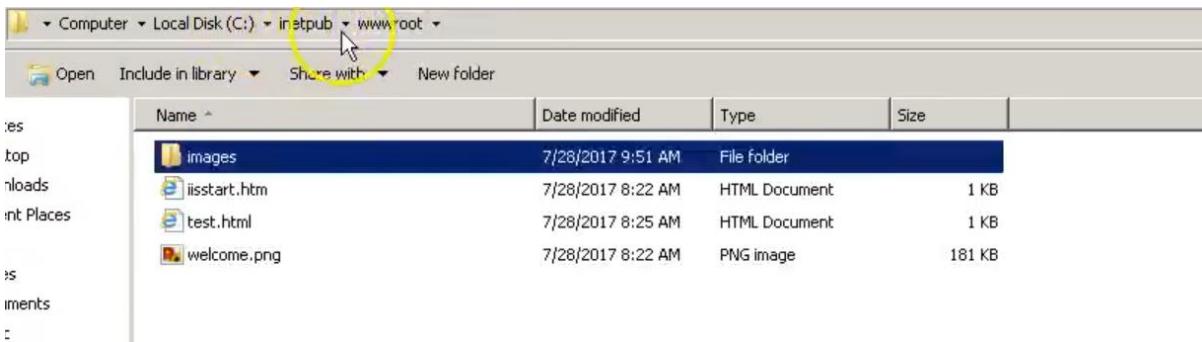
The screenshot shows a Windows File Explorer window with the path: Computer > Local Disk (C:) > inetpub > wwwroot > work. A new file 'workpage.html' is visible in the 'work' folder, highlighted with a yellow circle. The file was created on 7/28/2017 at 9:51 AM.

Browse file

The screenshot shows an Internet Explorer browser window with the URL 'http://localhost/work/workpage.html'. The page content displays the text 'this is work page, served from WORK folder'.

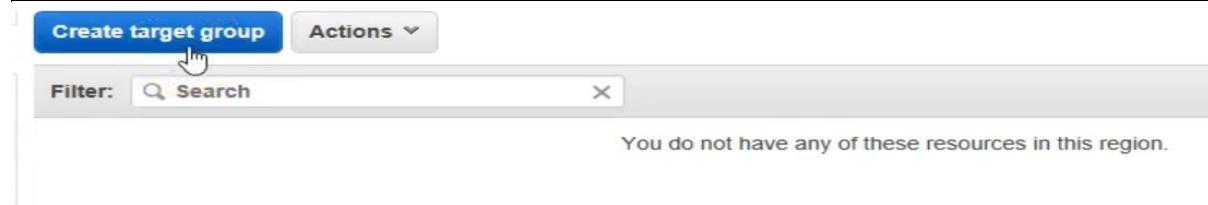
Server 2 create test.html file

Load Balancer



Load Balancer

Create target group



Insert name and path

Create target group

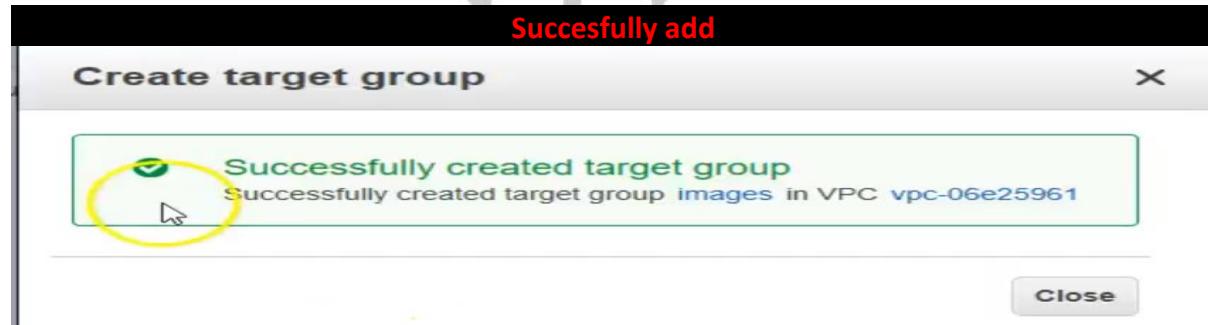
Your load balancer routes requests to the targets in a target group using the protocol and port that you specify, and performs health checks on the targets.

Target group name	(i)	<input type="text" value="images"/>
Protocol	(i)	<input type="text" value="HTTP"/>
Port	(i)	<input type="text" value="80"/>
VPC	(i)	<input type="text" value="vpc-06e25961 (172.31.0.0/16) (My Default VPC)"/>

Health check settings

Protocol	(i)	<input type="text" value="HTTP"/>
Path	(i)	<input type="text" value="/test.html"/>

Successfully add



Click to register and deregister targets

Create target group

Actions ▾

Filter:

Name

images

Edit target group

Register and deregister targets

Edit attributes

Delete

Load Balancer

Select instance and add

Register and deregister targets

Registered targets

To deregister instances, select one or more registered instances and then click Remove.

[Remove](#)

<input type="checkbox"/>	Instance	Name	Port	State	Security groups	Zone
No instances available.						

Instances

To register additional instances, select one or more running instances, specify a port, and then click Add. The default port is the port specified for the target group. If the instance is already registered on the specified port, you must specify a different port.

[Add to registered](#) on port 80

<input type="checkbox"/>	Instance	Name	State	Security	Zone	Subnet ID	Subnet CIDR
<input checked="" type="checkbox"/>	i-0bcd0c5937fbaf551	12	running	launch-wizard-2	us-east-1a	subnet-0102272b	172.31.48.0/20
<input type="checkbox"/>	i-02a0ec7c19cf52811	11	running	launch-wizard-2	us-east-1a	subnet-0102272d	172.31.40.0/20

Add successfully

Register and deregister targets

Registered targets

To deregister instances, select one or more registered instances and then click Remove.

[Remove](#)

<input type="checkbox"/>	Instance	Name	Port	State	Security groups	Zone
<input checked="" type="checkbox"/>	i-0bcd0c5937fbaf551	12	80	running	launch-wizard-2	us-east-1a

Instances

To register additional instances, select one or more running instances, specify a port, and then click Add. The default port is the port specified for the target group. If the instance is already registered on the specified port, you must specify a different port.

[Add to registered](#) on port 80

<input type="checkbox"/>	Instance	Name	State	Security	Zone	Subnet ID	Subnet CIDR
<input checked="" type="checkbox"/>	i-0bcd0c5937fbaf551	12	running	launch-wizard-2	us-east-1a	subnet-0102272b	172.31.48.0/20
<input type="checkbox"/>	i-02a0ec7c19cf52811	11	running	launch-wizard-2	us-east-1a	subnet-0102272d	172.31.40.0/20

Same steps follows to create new target

[Create target group](#)

Actions ▾



Filter: Search

< < 1 to 2 of 2 >

<input type="checkbox"/>	Name	Port	Protocol	VPC ID	Monitoring
<input type="checkbox"/>	images	80	HTTP	vpc-06e25961	
<input checked="" type="checkbox"/>	work	80	HTTP	vpc-06e25961	

Load Balancer

Add instance in target (image instance add)

Name	Port	Protocol	VPC ID	Monitoring
img	80	HTTP	vpc-06e25961	
work	80	HTTP	vpc-06e25961	

Target group: img

Description Targets Health checks Monitoring Tags

The load balancer starts routing requests to a newly registered target as soon as the registration process completes and the target passes the initial health checks. If demand on your targets increases, you can register additional targets. If demand on your targets decreases, you can deregister targets.

Edit

Registered targets

Instance ID	Name	Port	Availability Zone	Status
i-0bcd0c5937fbaf551	12	80	us-east-1a	healthy

Availability Zones

Also, one instance in another target (work instance add)

img	80	HTTP	vpc-06e25961
work	80	HTTP	vpc-06e25961

Target group: work

Description Targets Health checks Monitoring Tags

The load balancer starts routing requests to a newly registered target as soon as the registration process completes and the target passes the initial health checks. If demand on your targets increases, you can register additional targets. If demand on your targets decreases, you can deregister targets.

Edit

Registered targets

Instance ID	Name	Port	Availability Zone	Status
i-02a0ec7c19cf52811	11	80	us-east-1a	healthy

Availability Zones

Check health

Name	Port	Protocol	VPC ID	Monitoring
img	80	HTTP	vpc-06e25961	
work	80	HTTP	vpc-06e25961	

Target group: img

Description Targets Health checks Monitoring Tags

Edit

Protocol HTTP
Path /test.html
Port traffic port
Healthy threshold 5
Unhealthy threshold 2
Timeout 5
Interval 30
Success codes 200

Load Balancer

Create LB

[Create Load Balancer](#) [Actions ▾](#)

Filter: Search [X](#)

You do not have any of these resources

INSERT name and add listeners

Step 1: Configure Load Balancer

Basic Configuration

To configure your load balancer, provide a name, select a scheme, specify one or more listeners, and select a network. The default configuration is an Internet-facing load balancer with a listener that receives HTTP traffic on port 80.

Name demo1

Scheme Internet-facing Internal

IP address type ipv4

Listeners

A listener is a process that checks for connection requests, using the protocol and port that you configured.

Load Balancer Protocol	Load Balancer Port
HTTP	80

[Add listener](#)

Select AZ

Availability Zones

Specify the Availability Zones to enable for your load balancer. The load balancer routes traffic to the targets in these Availability Zones only. You can specify up to five Availability Zones. You must specify subnets from at least two Availability Zones to increase the availability of your load balancer.

VPC	<input type="text"/> vpc-06e25961 (172.31.0.0/16) (default)		
Availability Zone	Subnet ID	Subnet IPv4 CIDR	Name
<input checked="" type="checkbox"/> us-east-1a	subnet-0102272b	172.31.48.0/20	
<input checked="" type="checkbox"/> us-east-1b	subnet-016d7877	172.31.0.0/20	
<input type="checkbox"/> us-east-1c	subnet-06dff85e	172.31.16.0/20	
<input type="checkbox"/> us-east-1e	subnet-2bb48d16	172.31.32.0/20	

Create rules

Step 3: Configure Security Groups

A security group is a set of firewall rules that control the traffic to your load balancer. On this page, you can add rules to allow specific traffic to reach your load balancer. First, decide whether to create a new security group or select an existing one.

Assign a security group: Create a new security group Select an existing security group

Security group name: load-balancer-wizard-2

Description: load-balancer-wizard-2 created on 2017-07-28T15:45:26.668+05:30

Type	Protocol	Port Range	Source
Custom TCP Rule	TCP	80	Custom 0.0.0.0/0, ::/0

[Add Rule](#)

Load Balancer

Select existing target group and next

Step 4: Configure Routing

Your load balancer routes requests to the targets in this target group using the protocol and port that you specify, and performs health checks on each target group. Each target group can be associated with only one load balancer.

Target group

Target group	<input type="button" value="Existing target group"/>
Name	<input type="button" value="images"/>
Protocol	<input type="button" value="HTTP"/>
Port	<input type="button" value="80"/>

Health checks

Protocol	<input type="button" value="HTTP"/>
Path	<input type="button" value="/test.html"/>

[Advanced health check settings](#)

Successfully created

Create Load Balancer					
Actions					
Filter: <input type="text"/> Search					
	Name	DNS name	State	VPC ID	Availability Zones
<input type="checkbox"/>	demo1	demo1-1801888419.us-east-...	provisioning	vpc-06e25961	us-east-1a, us-east-1b

Select rules option

Create Load Balancer					
Actions					
Filter: <input type="text"/> Search					
	Name	DNS name	State	VPC ID	Availability Zones
<input type="checkbox"/>	demo1	demo1-1801888419.us-east-...	provisioning	vpc-06e25961	us-east-1a, us-e

Load balancer: demo1

Description **Listeners** Monitoring Tags

A listener checks for connection requests using its configured protocol and port, and the load balancer uses the listener rules to route requests to targets. You can add, remove, or update listeners and listener rules.

Add listener

Actions

	Listener ID	Security policy	SSL Certificate	Default action	Rules
<input checked="" type="checkbox"/>	HTTP : 80	N/A	N/A	Forward to images	View/edit rules >

Load Balancer

Click to create new rule

The screenshot shows the AWS Load Balancer configuration interface. A yellow circle highlights the 'Create New Rule' button (a plus sign icon) in the top left corner. The interface displays a single rule: 'HTTP 80: default action' (disabled). Below it is a detailed rule configuration: IF 'Requests otherwise not routed' THEN 'Forward to images'.

Select path and name

This is a modal dialog titled 'Select path and name'. It contains fields for 'RULE ID' (disabled), 'IF' (Host Path, 'is "images"'), and 'THEN' (Forward to 'images'). A yellow circle highlights the 'Save' button. A message at the bottom says 'Insert Rule: Click a location for your new rule.'

All configuration done

The screenshot shows the Load Balancer configuration interface with three rules listed: 1. ARN (Path is "work") - Forward to work. 2. ARN (Path is "images") - Forward to images. 3. HTTP 80: default action (disabled). A green success message at the top states 'New rule was created successfully.' A yellow circle highlights the 'Save' button in the previous dialog.

Copy DNS LINK

This screenshot shows the AWS DNS interface. A table lists a single entry: 'demo1' with 'demo1-1801888419.us-east...' as the DNS name. A yellow circle highlights the copied URL 'demo1-1801888419.us-east-1.elb.amazonaws.com(A Record)'.

This screenshot shows the AWS Load Balancer configuration for 'demo1'. In the 'Basic Configuration' section, the 'DNS name' field is highlighted with a red box and a yellow circle, showing the value 'demo1-1801888419.us-east-1.elb.amazonaws.com(A Record)'. Other fields include Name: demo1, ARN: arn:aws:elasticloadbalancing:us-east-1:722204253238:loadbalancer/app/demo1/5e837a5a636dfdf0, Scheme: internet-facing, Type: application, Creation time: July 28, 2017 at 3:45:59 PM UTC+5:30, Hosted zone: Z35SXDOTRQ7X7K, State: provisioning, VPC: vpc-06e25961, IP address type: ipv4, AWS WAF Web ACL:.

Load Balancer

Normal link to open IIS

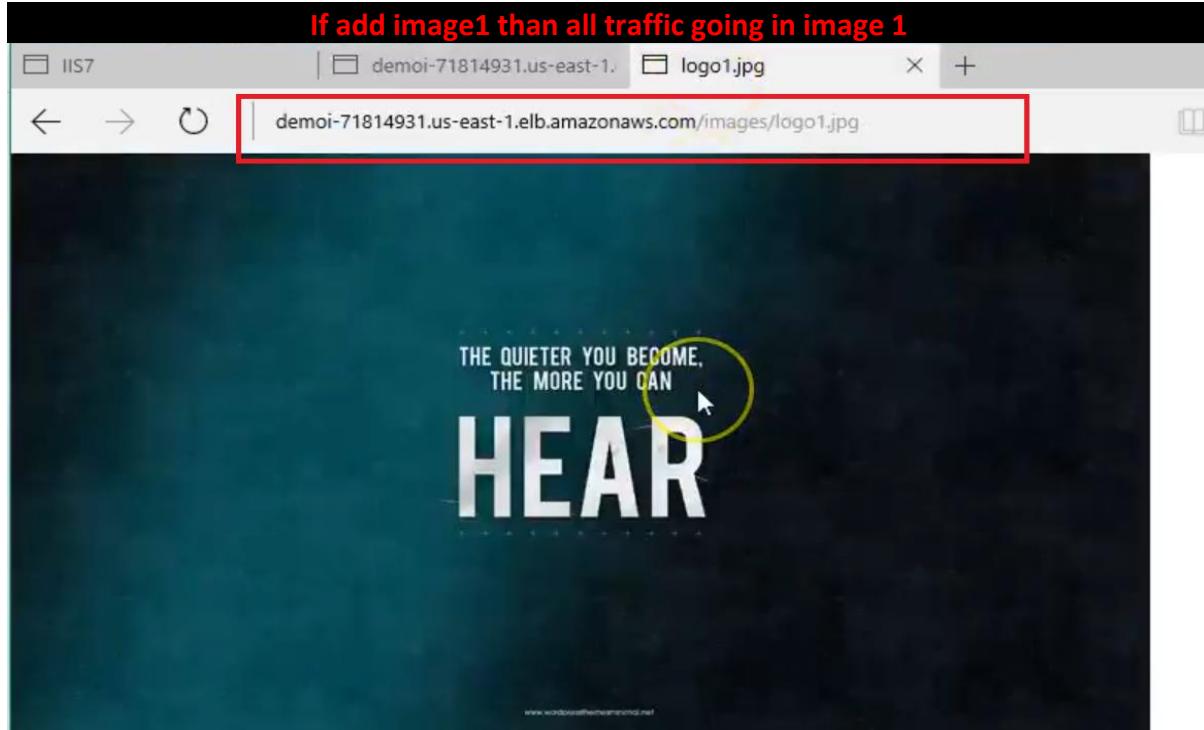


IF add work than open work.html page open all traffic going work path

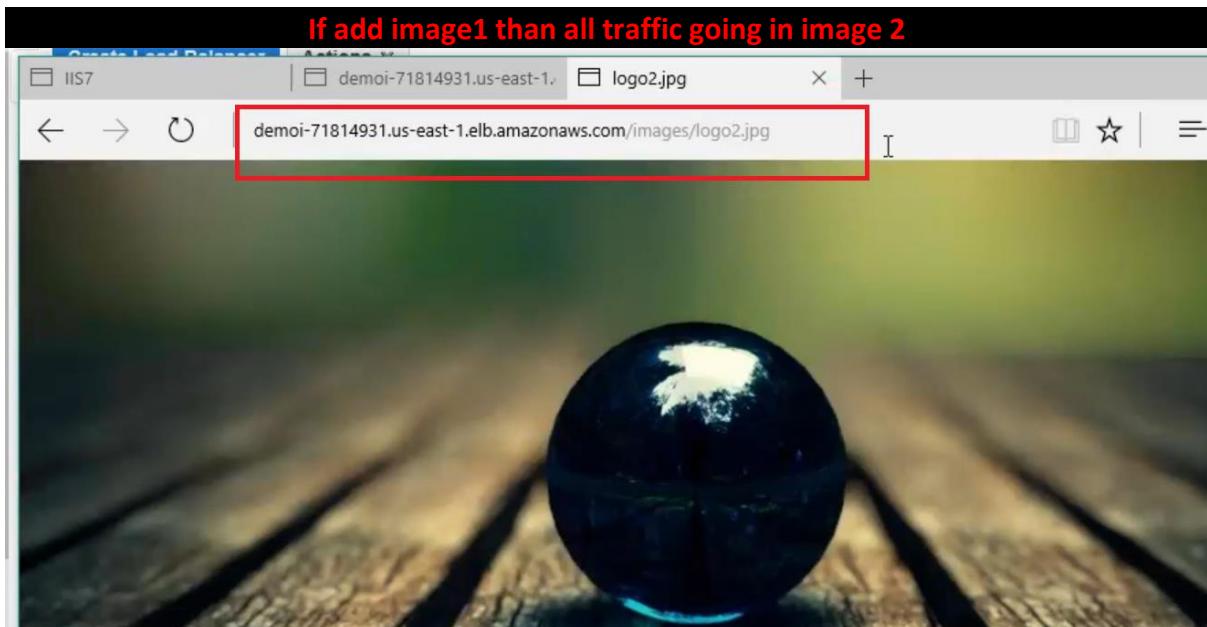


this is work page, served from WORK folder

If add image1 than all traffic going in image 1



Load Balancer



Load Balancer

Application LB (new wizard)

Create 2 instance (install Apache , Modify html file)

Instances (2) Info		Connect	Instance state	Actions	Launch instances	▼		
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	instan1	i-04aec7fbf6e48e7a2	Running  	t2.micro	2/2 checks passed	No alarms		us-east-1a ec2-54-164-62-7
<input type="checkbox"/>	instan2	i-0316341eeb094eb9	Running  	t2.micro	2/2 checks passed	No alarms		us-east-1a ec2-35-172-133-1

Create Target group

EC2 > Target groups		Actions	Create target group	▼	
Name	ARN	Port	Protocol	Target type	Load balancer
No target groups to display.					

Click to instance click

Basic configuration

Settings in this section cannot be changed after the target group is created.

Choose a target type

- Instances
Supports load balancing to instances within a specific VPC.

- IP addresses

Insert name and select protocol

Target group name

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Protocol

:

VPC

Select the VPC with the instances that you want to include in the target group.

- vpc-315f274c
- IPv4: 172.31.0.0/16

Html file name

Health checks

The associated load balancer periodically sends requests, per the settings below, to the registered targets to test their status.

Health check protocol

Health check path

Use the default path of "/" to ping the root, or specify a custom path if preferred.

Up to 1024 characters allowed.

► Advanced health check settings

Load Balancer

Select AZ and click to include pending

Available instances (2/2)

Instance ID	Name	State	Security groups	Zone	Subnet ID
i-04aec7fbf6e48e7a2	instanceearc	running	launch-wizard-2	us-east-1a	subnet-24391305
i-0316341eeb094ebe9	instanceearc	running	launch-wizard-2	us-east-1a	subnet-24391305

2 selected

Ports for the selected instances
Ports for routing traffic to the selected instances.

80
1-65535 (separate multiple ports with commas)

Include as pending below

Create target group

Review targets

Targets (2)

All	Health status	Instance ID	Name	Port	State	Security groups	Zone	Subnet ID
X	Pending	i-04aec7fbf6e48e7a2	instanceearc	80	running	launch-wizard-2	us-east-1a	subnet-24391305
X	Pending	i-0316341eeb094ebe9	instanceearc	80	running	launch-wizard-2	us-east-1a	subnet-24391305

2 pending

Cancel Previous **Create target group**

Create successfully

Successfully created target group: target-for-app-loadbal

EC2 > Target groups

Target groups (1) [Info](#)

Name	ARN	Port	Protocol	Target type	Load balancer
target-for-app-loadbal	arn:aws:elasticloadbalancing...	80	HTTP	Instance	-

Check health

Targets Monitoring Health checks Attributes Tags

Registered targets (2)

Instance ID	Name	Port	Zone	Health status	Health status details
i-0316341eeb094ebe9	instanceearc	80	us-east-1a	unused	Target group is not configured to receive traffic from the load balancer
i-04aec7fbf6e48e7a2	instanceearc	80	us-east-1a	unused	Target group is not configured to receive traffic from the load balancer

Load Balancer

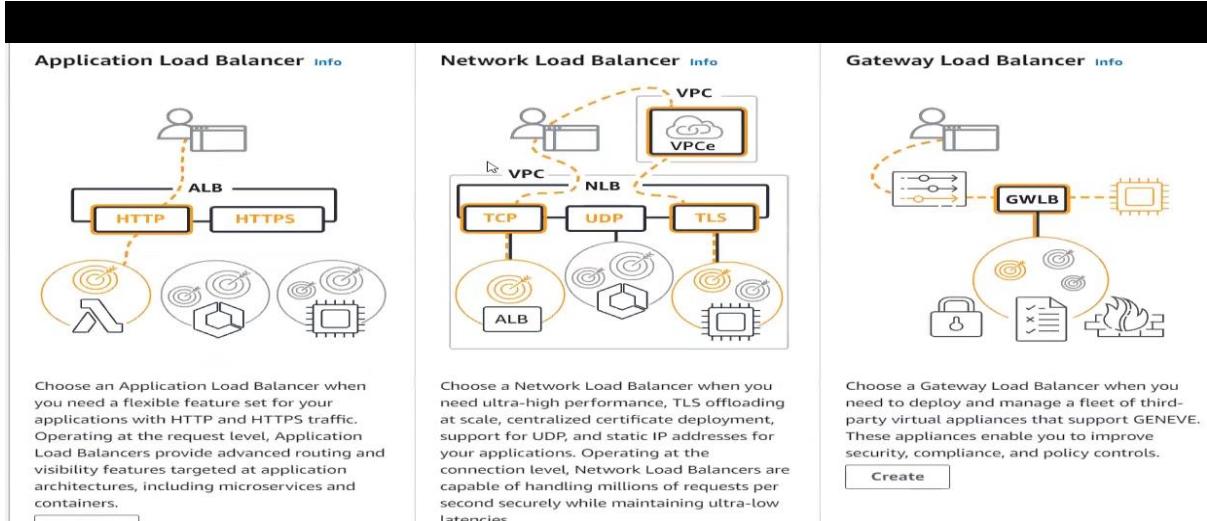
Create LB

Create Load Balancer Actions ▾

Filter by tags and attributes or search by keyword

Name	DNS name	State	VPC ID	Availability Zones	Type	Create
------	----------	-------	--------	--------------------	------	--------

You do not have any load balancers in this region.



INSERT NAME

Basic configuration

Load balancer name

Name must be unique within your AWS account and cannot be changed after the load balancer is created.

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Scheme Info

Scheme cannot be changed after the load balancer is created.

Internet-facing

An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. [Learn more](#)

Internal

An internal load balancer routes requests from clients to targets using private IP addresses.

IP address type Info

Select the type of IP addresses that your subnets use.

CLCIK TO VPC and select AZ

Network mapping Info

The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.

VPC Info

Select the virtual private cloud (VPC) for your targets. Only VPCs with an internet gateway are enabled for selection. The selected VPC cannot be changed after the load balancer is created. To confirm the VPC for your targets, view your [target groups](#)

-
vpc-315f274c
IPv4: 172.31.0.0/16



Mappings Info

Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection. Subnets cannot be removed after the load balancer is created, but additional subnets can be added. Availability Zones that are not supported by the load balancer or the VPC are disabled. At least two subnets must be specified.

 us-east-1a us-east-1b us-east-1c

Load Balancer

Select SG

Security groups Info

A security group is a set of firewall rules that control the traffic to your load balancer.

Security groups

Select security groups



Create new security group Edit

default sg-4a95615b X

VPC: vpc-315f274c Copy

Select Target group

Listeners and routing Info

A listener is a process that checks for connection requests, using the protocol and port you configure. Traffic received by the listener is then routed per your specification. You can specify multiple rules and multiple certificates per listener after the load balancer is created.

▼ Listener HTTP:80

Remove

Protocol

HTTP ▼

: 80

1-65535

Port

Default action Info

Forward to

Select a target group



Create target



target-for-app-loadbal

HTTP

Add listener

Check configuration summary

Summary

Review and confirm your configurations. Estimate cost Edit

Basic configuration Edit

app-load-bal-archit

- Internet-facing
- IPv4

Security groups Edit

- default sg-4a95615b Edit
- quick-create-archit sg-051e3ead9ffe504aa Edit

Network mapping Edit

- us-east-1a subnet-24391305 Edit
- us-east-1b subnet-48bd4204 Edit
- us-east-1c subnet-10b1984f Edit
- us-east-1d subnet-b488a4d2 Edit
- us-east-1e subnet-b3295a82 Edit
- us-east-1f subnet-db57b1da Edit

Listeners and routing Edit

- HTTP:80 defaults to target-for-app-loadbal Edit

Successfully create LB

Name	DNS name	State	VPC ID	Availability Zones	Type	Created
app-load-bal-archit	app-load-bal-archit-1970778...	Provisioning	vpc-315f274c	us-east-1c, us-east-1a, ...	application	October

Load Balancer

Copy DNS in ACTIVE state

The screenshot shows the 'Basic Configuration' section of an AWS Load Balancer named 'app-load-bal-archit'. The 'DNS name' field is highlighted with a red box and contains the value 'app-load-bal-archit-1970778841.us-east-1.elb.amazonaws.com (A Record)'. Other visible fields include Name (app-load-bal-archit), ARN (arn:aws:elasticloadbalancing:us-east-1:342780014019:loadbalancer/app/app-load-bal-archit/dcdb13bcab0db7d1), State (Active), Type (application), and Scheme (internet-facing).

Browse DNS

A screenshot of a browser window titled 'Browse DNS'. The address bar shows 'Not secure | app-load-bal-archit-1970778841.us-east-1.elb.amazonaws.com'. The page content is mostly blank, with a few small icons and text snippets visible.

This is Archit's 2nd instance

Refresh than auto change instances load

A screenshot of a browser window showing the same URL as the previous screenshot. A cursor arrow is hovering over the refresh button in the top left corner of the browser frame.

This is my first Instance

Load Balancer

Create Network LB

Create 2 EC2

<input type="checkbox"/> instnet1	i-07d6d5aacc5d44806	Running	2/2 checks passed	t2.micro	us-east-1b	ec2-34-229-94-16.compute-1.amazonaws.com
<input type="checkbox"/> instnet2	i-02b77fea9532145cd	Running	2/2 checks passed	t2.micro	us-east-1b	ec2-54-221-175-37.compute-1.amazonaws.com

CONNECT 1

Instance summary for i-07d6d5aacc5d44806 (instnet1)		Info	C	Connected	Instance state	Actions
Updated less than a minute ago						
Instance ID	i-07d6d5aacc5d44806 (instnet1)	Public IPv4 address	34.229.94.16 open address		Private IPv4 addresses	172.31.25.73
IPv6 address	-	Instance state	Running		Public IPv4 DNS	ec2-34-229-94-16.compute-1.amazonaws.com open

Copy link

[EC2 Instance Connect](#) [Session Manager](#) **SSH client** [EC2 Serial Console](#)

Instance ID

i-07d6d5aacc5d44806 (instnet1)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is `keypair_archit.pem`
3. Run this command, if necessary, to ensure your key is not publicly viewable.
`chmod 400 keypair_archit.pem`
4. Connect to your instance using its Public DNS:
`ec2-34-229-94-16.compute-1.amazonaws.com`

Example:

`ssh -i "keypair_archit.pem" ec2-user@ec2-34-229-94-16.compute-1.amazonaws.com`

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Open in cmd

```
C:\Users\archi>cd Downloads
C:\Users\archi\Downloads>ssh -i "keypair_archit.pem" ec2-user@ec2-34-229-94-16.compute-1.amazonaws.com
The authenticity of host 'ec2-34-229-94-16.compute-1.amazonaws.com (34.229.94.16)' can't be established.
ECDSA key fingerprint is SHA256:KWD7XiU3J2MLqdxQ0V8PfnzQWnsTmt89X6srDH8BEPs.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-34-229-94-16.compute-1.amazonaws.com,34.229.94.16' (ECDSA) to the list of known hosts.

[ec2-user@ip-172-31-25-73 ~]$
```

Load Balancer

Login to root and update yum

```
[root@ip-172-31-25-73 ~]# sudo su
[root@ip-172-31-25-73 ec2-user]# yum update -y
```

Install httpd

```
glibc-minimal-langpack.x86_64 0:2.26-55.amzn2
kernel-tools.x86_64 0:4.14.248-189.473.amzn2
openssl.x86_64 1:1.0.2k-19.amzn2.0.8
grubby.x86_64
libcrypt.x86_64
openssl-libs.x86_64

Complete!
[root@ip-172-31-25-73 ec2-user]# yum install -y httpd
```

Start and enable service

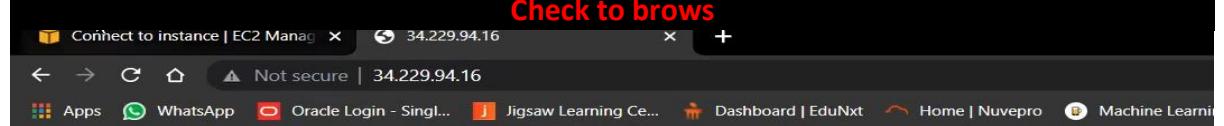
```
mailcap.noarch 0:2.1.41-2.amzn2
mod_http2.x86_64

Complete!
[root@ip-172-31-25-73 ec2-user]# systemctl start httpd
[root@ip-172-31-25-73 ec2-user]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
```

Send html file line

```
bash: !st: event not found
[root@ip-172-31-25-73 ec2-user]# echo "<h1>1st instance for Network Load Balancer</h1>" > /var/www/html/index.html
[root@ip-172-31-25-73 ec2-user]#
```

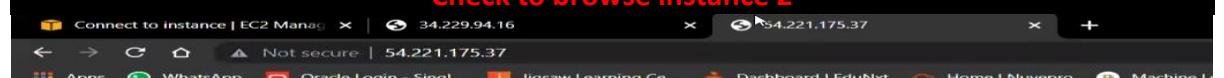
Check to brows



1st instance for Network Load Balancer

Same step follows in 2 instance

Check to browse instance 2



2nd instance for Network Load Balancer

Create name

Basic configuration

Load balancer name

Name must be unique within your AWS account and cannot be changed after the load balancer is created.

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Scheme

Scheme cannot be changed after the load balancer is created.

 Internet-facing

An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. [Learn more](#)

 Internal

An internal load balancer routes requests from clients to targets using private IP addresses.

Load Balancer

Select VPC &AZ

Network mapping Info

The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.

VPC

Select the virtual private cloud (VPC) for your targets. Only VPCs with an internet gateway are enabled for selection. The selected VPC cannot be changed after the load balancer is created. Confirm the VPC for your targets, view your target groups [\[2\]](#).

-

vpc-315f274c
IPv4: 172.31.0.0/16



Mappings

Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection. Subnets cannot be removed after the load balancer is created, but additional subnets can be added. Availability Zones that are not supported by the load balancer or the VPC are disabled. At least one subnet must be specified.

us-east-1a

Create target group from here

Listeners and routing Info

A listener is a process that checks for connection requests, using the protocol and port you configure. Traffic received by the listener is then routed per your specification.

▼ Listener TCP:80

[Remove](#)

Protocol Port

TCP : 80
1-65535

Default action

Forward to [Select a target group](#)
[Create target group \[2\]](#)



Redirect page and choose target type

Basic configuration

Settings in this section cannot be changed after the target group is created.

Choose a target type

Instances

- Supports load balancing to instances within a specific VPC.

Insert name and chose port

Target group name

⚠ Target group name cannot be empty.

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Protocol Port

TCP : 80

VPC

Select the VPC with the instances that you want to include in the target group.

-
vpc-315f274c
IPv4: 172.31.0.0/16



Load Balancer

Select AZ and include

Available instances (2/2)

Filter resources by property or value

Instance ID	Name	State	Security groups	Zone
i-07d6d5aacc5d44806	instnet1	running	launch-wizard-3	us-east-1b
i-02b77fea9532145cd	instnet2	running	launch-wizard-3	us-east-1b

2 selected

Ports for the selected instances
Ports for routing traffic to the selected instances.

80

1-65535 (separate multiple ports with commas)

[Include as pending below](#)

Review and create

Review targets

Targets (2)

[Remove all pending](#)

All

Filter resources by property or value

< 1 >

Remove Health status Instance ID Name Port State Security groups Zone Subnet ID

X	Pending	i-07d6d5aacc5d44806	instnet1	80	running	launch-wizard-3	us-east-1b	subnet-48bd4204
X	Pending	i-02b77fea9532145cd	instnet2	80	running	launch-wizard-3	us-east-1b	subnet-48bd4204

2 pending

[Cancel](#)

[Previous](#)

[Create target group](#)

Successfully create

Successfully created target group: netloadbal-tg



[EC2](#) > Target groups

Target groups (2)[Info](#)

[Actions](#) [Create target group](#)

Name	ARN	Port	Protocol	Target type	Load balancer
netloadbal-tg	arn:aws:elasticloadbalancing...	80	TCP	Instance	-

Select Target group

Listeners and routing [Info](#)

A listener is a process that checks for connection requests, using the protocol and port you configure. Traffic received by the listener is then routed per your specification.

▼ Listener TCP:80

[Remove](#)

Protocol

Port

Default action

TCP : 80
1-65535

Forward to [Select a target group](#)

[Create target](#)

netloadbal-tg
Target type: Instance

[Add listener](#)

Load Balancer

Review summary

Summary

Review and confirm your configurations. Estimate cost [?](#)

Basic configuration [Edit](#)

- net-loadbal-archit
- Internet-facing
- IPv4

Network mapping [Edit](#)

- VPC vpc-315f274c [?](#)
- us-east-1a
subnet-24391305 [?](#)
 - us-east-1b
subnet-48bd4204 [?](#)
 - us-east-1c
subnet-10b1984f [?](#)
 - us-east-1d
subnet-b488a4d2 [?](#)
 - us-east-1e
subnet-b3295a82 [?](#)
 - us-east-1f
subnet-db57b1da [?](#)

Listeners and routing [Edit](#)

- TCP:80 defaults to netloadbal-tg [?](#)

Tags [Edit](#)

None

Attributes

[?](#) Certain default attributes will be applied to your load balancer. You can view and edit them after creating the load balancer.

[Cancel](#)

[Create load balancer](#)

Create successfully and copy DNS

[Create Load Balancer](#)

[Actions ▾](#)

	Name	DNS name	State	VPC ID	Availability Zones
	net-loadbal-archit	net-loadbal-archit-499517067a399d2e.elb.us-east-1.amazonaws.com	Provisioning	vpc-315f274c	us-east-1c, us-east-1a

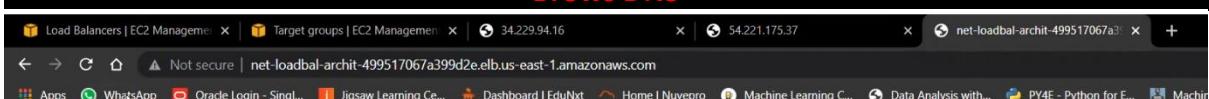
Load balancer: net-loadbal-archit

[Description](#) [Listeners](#) [Monitoring](#) [Integrated services](#) [Tags](#)

Basic Configuration

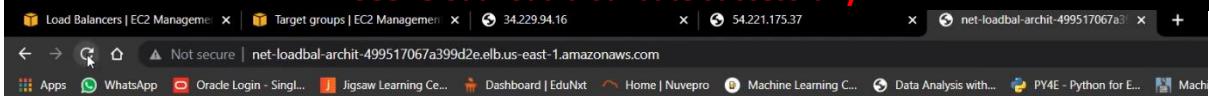
Name	net-loadbal-archit
ARN	arn:aws:elasticloadbalancing:us-east-1:342780014019:loadbalancer/net/loadbal-archit/499517067a399d2e ?
DNS name	net-loadbal-archit-499517067a399d2e.elb.us-east-1.amazonaws.com Copied (A Record)

Brows DNS



2nd instance for Network Load Balancer

See reload load distribute successfully



1st instance for Network Load Balancer

Load Balancer

