

STEP 1: Login to the AWS management console

STEP 1: Login to the AWS management console

Services

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New EC2 Experience
Tell us what you think

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Snapshots

Lifecycle Manager

Resources

EC2 Global view

You are using the following Amazon EC2 resources in the Europe (Stockholm) Region:

| | | | | | |
|---------------------|---|---------------------|---|-----------------|----|
| Instances (running) | 1 | Auto Scaling Groups | 1 | Dedicated Hosts | 0 |
| Elastic IPs | 0 | Instances | 5 | Key pairs | 5 |
| Load balancers | 0 | Placement groups | 0 | Security groups | 12 |
| Snapshots | 0 | Volumes | 1 | | |

Launch instance

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

Launch instance

Migrate a server

Note: Your instances will launch in the Europe (Stockholm) Region

Scheduled events

Service health

AWS Health Dashboard

Region
Europe (Stockholm)

Zones

| Zone name | Zone ID |
|-------------|----------|
| eu-north-1a | eun1-az1 |

Account attributes

Default VPC

vpc-0f24128f6e15e4969

Settings

Data protection and security New

Zones

EC2 Serial Console

Default credit specification

Console experiments

Explore AWS

Up to 40% better performance; 20% lower cost

Move your compute workloads to Graviton-based instances for better price performance compared to x86 instances. Get started.

Amazon GuardDuty Malware Protection

GuardDuty now provides agentless malware detection in Amazon EC2 & EC2 container workloads. Learn more

CloudShell

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STEP 2: To check the Load balancer working atleast we need 2-3 instances, here we are creating 3 instances at a time with required configuration.

1. Search the service called EC2 it will redirect to EC2 dashboard and click on Launch instances

aws

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Instances (6)

Info

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Connect

Instance state

Actions

Launch instances

Find instance by attribute or tag (case-sensitive)

| <input type="checkbox"/> | Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DNS |
|--------------------------|------|---------------------|----------------|---------------|--------------|--------------|-------------------|-----------------|
| <input type="checkbox"/> | - | i-010b3bba489253275 | Terminated | t3.micro | - | No alarms | eu-north-1c | - |
| <input type="checkbox"/> | - | i-0f5e7cfebe3611ca5 | Terminated | t3.micro | - | No alarms | eu-north-1c | - |
| <input type="checkbox"/> | - | i-095132523ece947ca | Terminated | t3.micro | - | No alarms | eu-north-1c | - |
| <input type="checkbox"/> | - | i-0a6f0d7f4391f7a5b | Terminated | t3.micro | - | No alarms | eu-north-1a | - |
| <input type="checkbox"/> | - | i-0b509c99e36f7a752 | Terminated | t3.micro | - | No alarms | eu-north-1b | - |
| <input type="checkbox"/> | - | i-0397a30bf9f400125 | Terminated | t3.micro | - | No alarms | eu-north-1b | - |

Select an instance

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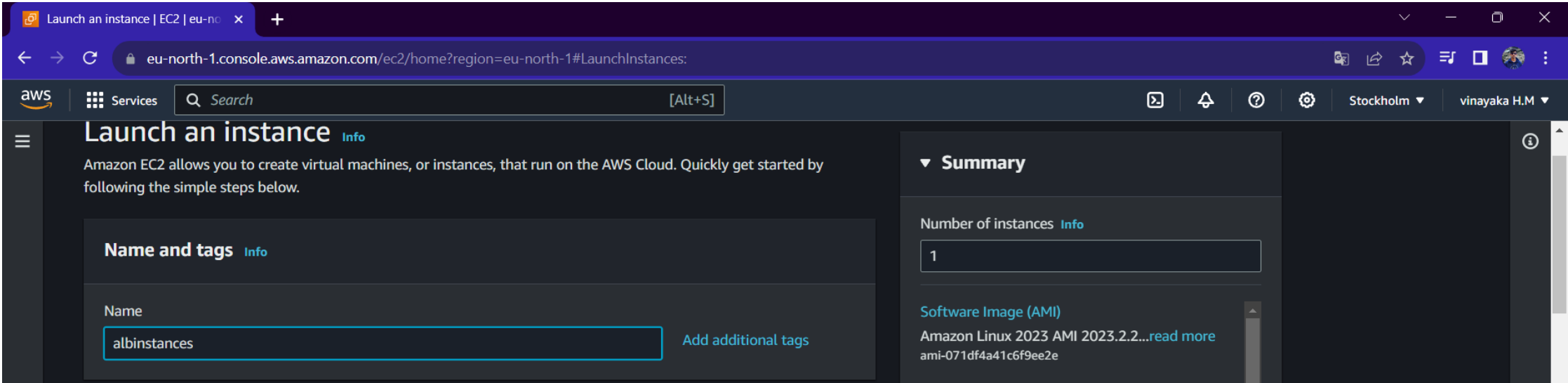
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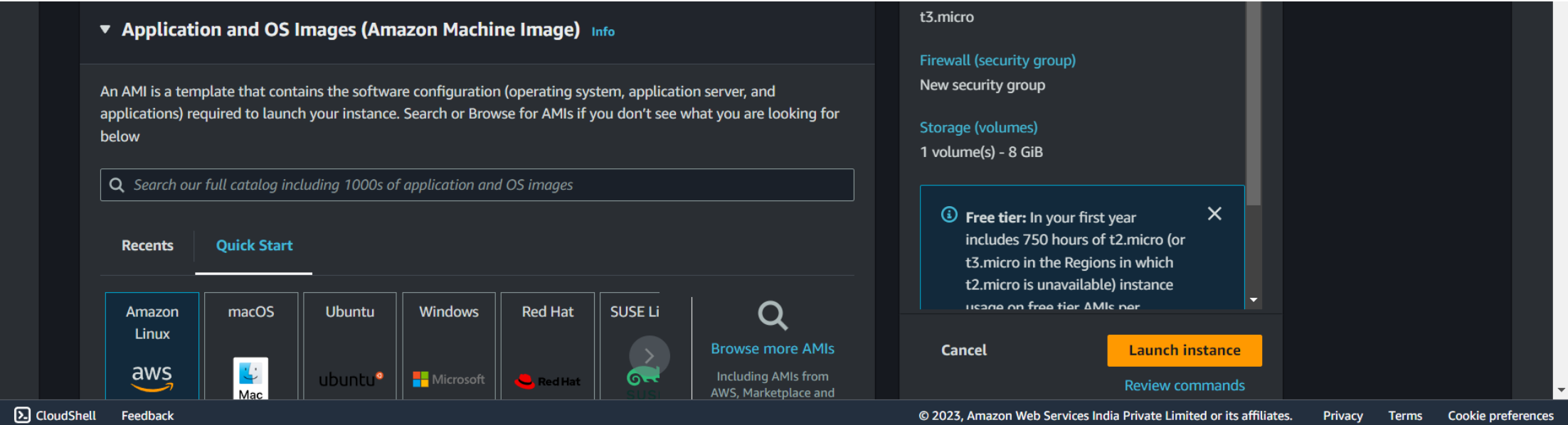
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2. Provide proper name for instances.



3. Choose required AMI(Here we are choosing Amazon Linux).and free tier eligible



4. Choose Required instance type and keypair.

aws

Services

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Architecture

64-bit (x86)

AMI ID

ami-071df4a41c6f9ee2e

Verified provider

▼ Instance type Info

Instance type

t3.micro

Family: t3 2 vCPU 1 GiB Memory Current generation: true

On-Demand RHEL base pricing: 0.0708 USD per Hour

On-Demand SUSE base pricing: 0.0108 USD per Hour

On-Demand Linux base pricing: 0.0108 USD per Hour

On-Demand Windows base pricing: 0.02 USD per Hour

Free tier eligible

☐ All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

▼ Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

My-Instance

Create new key pair

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.2.2...read more

ami-071df4a41c6f9ee2e

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per

Cancel

Launch instance

Review commands

CloudShell

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5. In network setting we can allow SSH and HTTP because we are hosting sample web server for that we need HTTP traffic.

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Key pair name - required

My-Instance

Create new key pair

▼ Network settings

Info

Edit

Network

Info

vpc-0f24128f6e15e4969

Subnet

Info

No preference (Default subnet in any availability zone)

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

We'll create a new security group called 'launch-wizard-12' with the following rules:

☒ Allow SSH traffic from

Helps you connect to your instance

Anywhere

0.0.0.0/0

☐ Allow HTTPS traffic from the internet

To set up an endpoint, for example when creating a web server

☒ Allow HTTP traffic from the internet

To set up an endpoint, for example when creating a web server

▼ Summary

Number of instances

Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.2.2...read more

ami-071df4a41c6f9ee2e

Virtual server type (instance type)

t3.micro

Firewall (security group)

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1 volume(s) - 8 GiB

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Cancel

Launch instance

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6. As we are hosting sample web server in instance we should enter userdate add it under Advance details

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Metadata response nop limit

Info

Select

Allow tags in metadata

Info

Select

User data - optional

Info

Upload a file with your user data or enter it in the field.

Choose file

```
#!/bin/bash
until ping -c1 8.8.8.8 &>/dev/null; do ;; done
sudo yum update -y
sudo yum install -y httpd
sudo systemctl start httpd
sudo systemctl enable httpd
sudo chmod 777 -R /var/www/html
echo "<h1> Hello world from $(hostname -f) </h1>" > /var/www/html/index.html
```

☐ User data has already been base64 encoded

Summary

Number of instances

Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.2.2...read more

ami-071df4a41c6f9ee2e

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per

Cancel

Launch instance

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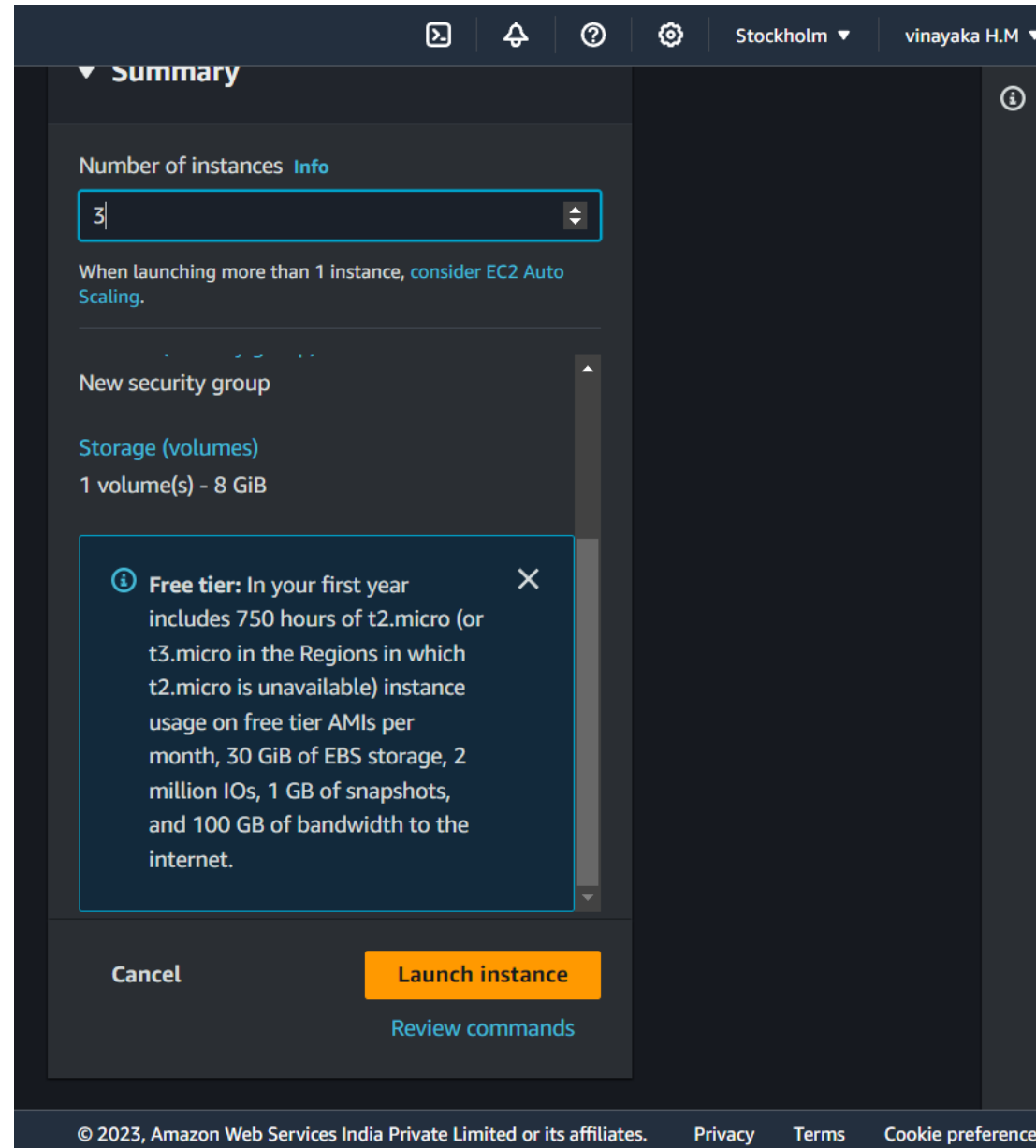
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7. Enter the number of required instances and then click on Launch instances



Summary

Number of instances [Info](#)

3

When launching more than 1 instance, [consider EC2 Auto Scaling](#).

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance

[Review commands](#)

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8. Now you have successfully luanchned three instances you can view it under Ec2 dashboard

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Instances (12) Info

Refresh

Connect

Instance state

Actions

Launch instances

Find instance by attribute or tag (case-sensitive)

| | Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DNS |
|--------------------------|--------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|-----------------|
| <input type="checkbox"/> | - | i-0e48273b91fc40138 | Running | t3.micro | 2/2 checks passed | No alarms | eu-north-1c | ec2-13-49-138-5 |
| <input type="checkbox"/> | albinstances | i-048b194db9ba26b91 | Running | t3.micro | Initializing | No alarms | eu-north-1a | ec2-51-20-40-80 |
| <input type="checkbox"/> | albinstances | i-08685b8d4d450e135 | Running | t3.micro | Initializing | No alarms | eu-north-1a | ec2-51-20-135-6 |
| <input type="checkbox"/> | albinstances | i-0fa3da6dff90b8da | Running | t3.micro | Initializing | No alarms | eu-north-1a | ec2-51-20-67-10 |
| <input type="checkbox"/> | - | i-056015253e1bce21b | Running | t3.micro | 2/2 checks passed | No alarms | eu-north-1a | ec2-13-53-36-15 |
| <input type="checkbox"/> | - | i-08425b5fd8ea3f001 | Running | t3.micro | 2/2 checks passed | No alarms | eu-north-1b | ec2-16-171-174- |

Select an instance

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STEP 3: Once you launched instances check web application opening or not with their public IP address.



Hello world from ip-172-31-18-211.eu-north-1.compute.internal



Hello world from ip-172-31-16-9.eu-north-1.compute.internal



Hello world from ip-172-31-28-92.eu-north-1.compute.internal

STEP 4: Now start creating Application load balancer(ALB).Search service called Load balancer and click on create load balancer

aws

Services

Search

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EC2 > Load balancers

Load balancers

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

Filter Load balancers

Name

DNS name

State

VPC ID

Availability Zones

Type

Data

No load balancers

You don't have any load balancers in eu-north-1

0 load balancers selected

Select a load balancer above.

Actions

Create load balancer

1

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STEP 5: Once you click on the Create load balancer it will redirect to compare and select load balancer type,choose application load balancer.

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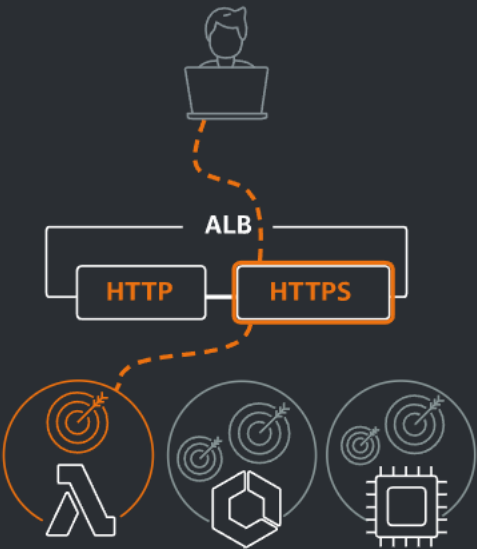
EC2 > Load balancers > Compare and select load balancer type

Compare and select load balancer type

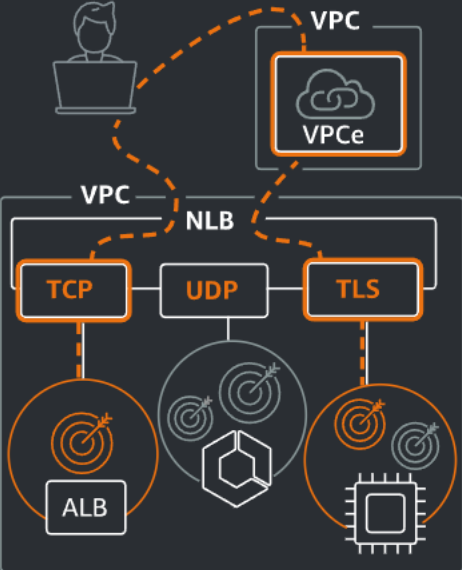
A complete feature-by-feature comparison along with detailed highlights is also available. [Learn more](#)

Load balancer types


Application Load Balancer



Network Load Balancer



Gateway Load Balancer



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STEP 6: After clicking create application load balancer we need put required basic configuration. Provide proper load balancer name, enable internet-facing under scheme, use IPv4 IP address type.

aws

Services

Search

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Basic configuration

Load balancer name

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

TestLB

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

Scheme

Info

Scheme can't 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.

☒ IPv4

Recommended for internal load balancers.

☐ Dualstack

Includes IPv4 and IPv6 addresses.

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 or you can [create a new VPC](#). Only VPCs with an internet gateway are enabled for selection. The selected VPC can't be changed after

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STEP 7: Under Network mappings,keep default VPC and select atleast 3 AZs because we launched 3 instances.

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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.

eu-north-1a (eun1-az1)

Subnet

subnet-08202a6e616d67507

IPv4 address

Assigned by AWS

eu-north-1b (eun1-az2)

Subnet

subnet-044cfe13fd5de6de5

IPv4 address

Assigned by AWS

eu-north-1c (eun1-az3)

Subnet

subnet-0c0026b2260180835

IPv4 address

Assigned by AWS

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STEP8: Select Security group which you used for instances for Load balancer

STEP9: Under listeners and routing we need to select target group,click on the create target group.

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Security groups

Info

A security group is a set of firewall rules that control the traffic to your load balancer. Select an existing security group, or you can [create a new security group](#).

Security groups

Select up to 5 security groups

launch-wizard-1

sg-049475db57a8cda7f VPC: vpc-0f24128f6e15e4969

Listeners and routing

Info

A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.

Listener HTTP:80

Remove

Protocol

HTTP

Port

80

1-65535

Default action

Info

Forward to

Select a target group

Create target group

Listener tags - optional

Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.

Add listener tag

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STEP 10: Once you click on the target group you will redirect to create tar

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EC2 > Target groups

Target groups

Info

Actions

Create target group

Filter target groups

< 1 >

| | Name | ARN | Port | Protocol | Target type | Load balancer |
|--|------|-----|------|----------|-------------|---------------|
| <div>No target groups</div> <div>You don't have any target groups in eu-north-1</div> <div>Create target group</div> | | | | | | |

0 target groups selected

Select a target group above.

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STEP11: Once you click on the create target group need to specify group details,choose target type as instances.

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EC2 > Target groups > Create target group

Step 1

Specify group details

Step 2

Register targets

Specify group details

Your load balancer routes requests to the targets in a target group and performs health checks on the targets.

Basic configuration

Settings in this section can't be changed after the target group is created.

Choose a target type

☒ Instances

- Supports load balancing to instances within a specific VPC.
- Facilitates the use of [Amazon EC2 Auto Scaling](#) to manage and scale your EC2 capacity.

☐ IP addresses

- Supports load balancing to VPC and on-premises resources.
- Facilitates routing to multiple IP addresses and network interfaces on the same instance.
- Offers flexibility with microservice based architectures, simplifying inter-application communication.
- Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.

☐ Lambda function

- Facilitates routing to a single Lambda function.
- Accessible to Application Load Balancers only.

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STEP12: Provide proper name fot target group and keep remaining all default and then click on next.

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Target group name

TestTg

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

Protocol

HTTP

:

Port

80

1-65535

IP address type

Only targets with the indicated IP address type can be registered to this target group.

☒ IPv4

Each instance has a default network interface (eth0) that is assigned the primary private IPv4 address. The instance's primary private IPv4 address is the one that will be applied to the target.

☐ IPv6

Each instance you register must have an assigned primary IPv6 address. This is configured on the instance's default network interface (eth0). [Learn more](#)

VPC

Select the VPC with the instances that you want to include in the target group. Only VPCs that support the IP address type selected above are available in this list.

-

vpc-0f24128f6e15e4969

IPv4: 172.31.0.0/16

Protocol version

☒ HTTP1

Send requests to targets using HTTP/1.1. Supported when the request protocol is HTTP/1.1 or HTTP/2.

☐ HTTP2

Send requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.

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STEP 13: Once you click on the next it will redirect to register targets choose instances which all you want to register and then click on include as pending below

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EC2 > Target groups > Create target group

Step 1

[Specify group details](#)

Step 2

Register targets

Register targets

This is an optional step to create a target group. However, to ensure that your load balancer routes traffic to this target group you must register your targets.

Available instances (6)

Filter instances

< 1 >

| | Instance ID | Name | State | Security groups | Zone |
|--------------------------|---------------------|--------------|---------|------------------|--------|
| <input type="checkbox"/> | i-0e48273b91fc40138 | | Running | default | eu-nor |
| <input type="checkbox"/> | i-056015253e1bce21b | | Running | default | eu-nor |
| <input type="checkbox"/> | i-08425b5fd8ea3f001 | | Running | default | eu-nor |
| <input type="checkbox"/> | i-048b194db9ba26b91 | albinstances | Running | launch-wizard-12 | eu-nor |
| <input type="checkbox"/> | i-08685b8d4d450e135 | albinstances | Running | launch-wizard-12 | eu-nor |
| <input type="checkbox"/> | i-0fa3da6fdff90b8da | albinstances | Running | launch-wizard-12 | eu-nor |

0 selected

Ports for the selected instances

Ports for routing traffic to the selected instances.

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STEP 14: Once you click on the next it will redirect to register targets choose instances which all you want to register and then click on include as pending below

aws

Services

Search

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EC2 > Target groups > Create target group

Step 1

[Specify group details](#)

Step 2

Register targets

Register targets

This is an optional step to create a target group. However, to ensure that your load balancer routes traffic to this target group you must register your targets.

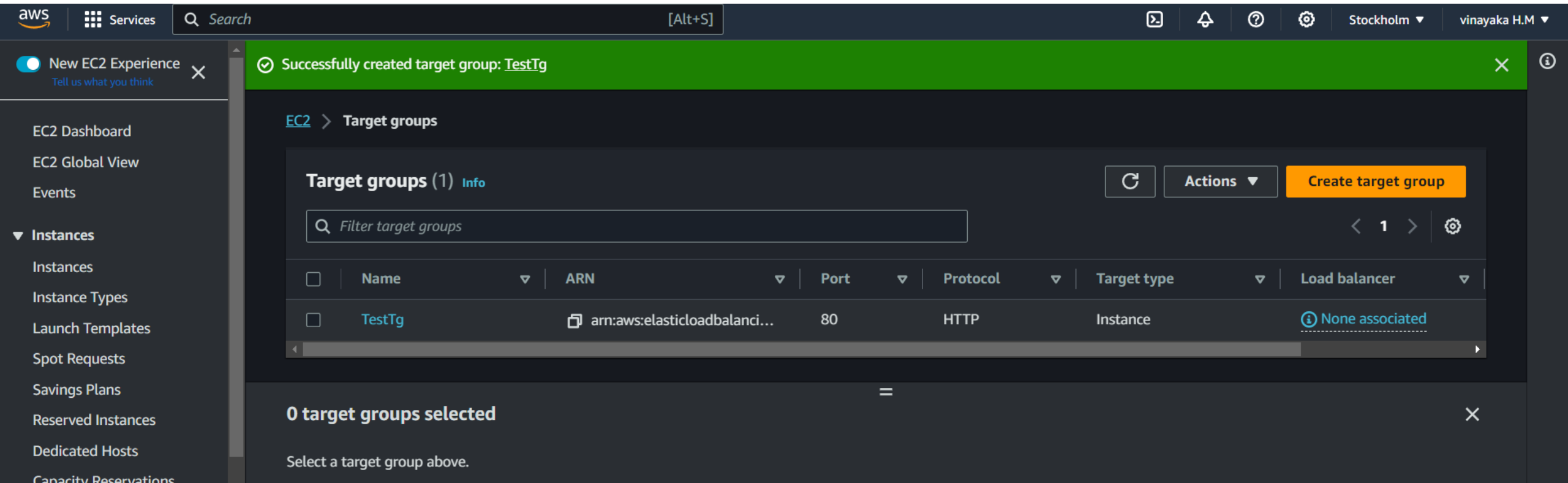
Available instances (3/6)

Filter instances

< 1 >

| | Instance ID | Name | State | Security groups | Zone |
|-------------------------------------|---------------------|--------------|---------|------------------|--------|
| <input type="checkbox"/> | i-0e48273b91fc40138 | | Running | default | eu-nor |
| <input type="checkbox"/> | i-056015253e1bce21b | | Running | default | eu-nor |
| <input type="checkbox"/> | i-08425b5fd8ea3f001 | | Running | default | eu-nor |
| <input checked="" type="checkbox"/> | i-048b194db9ba26b91 | albinstances | Running | launch-wizard-12 | eu-nor |
| <input checked="" type="checkbox"/> | i-08685b8d4d450e135 | albinstances | Running | launch-wizard-12 | eu-nor |
| <input checked="" type="checkbox"/> | i-0fa3da6fdff90b8da | albinstances | Running | launch-wizard-12 | eu-nor |

STEP 15: Now you have sucessfully created target



STEP 16: Back to ALB creation page and select created target group and keep remaining all default and click on create load balance

Listeners and routing [Info](#)

A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.

▼ Listener HTTP:80

Remove

Protocol

HTTP ▼

:

Port

80

1-65535

Default action

Info

Forward to

TestTg

Target type: Instance, IPv4

HTTP ▼

↺

Create target group

🔗

Listener tags - optional

Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.

Add listener tag

You can add up to 50 more tags.

Add listener

STEP 17: Now we have successfully created load balancer

✔ Successfully created load balancer: [TestLB](#)

Note: It might take a few minutes for your load balancer to be fully set up and ready to route traffic. Targets will also take a few minutes to complete the registration process and pass initial health checks.

[EC2](#) > [Load balancers](#) > [TestLB](#) > Create Application Load Balancer

Create Application Load Balancer



Suggested next steps

- Review, customize, or configure attributes for your load balancer and listeners using the **Description** and **Listeners** tabs within [TestLB](#).
- Discover other services that you can integrate with your load balancer. Visit the **Integrated services** tab within [TestLB](#).

[View load balancer](#)

STEP 18: When you created load balancer its status will be Provisioning wait until it get change as Active.

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EC2 > Load balancers

Load balancers (1)
Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

↻

Actions ▼

Create load balancer ▼

Q Filter by property or value

TestLB X Clear filters

< 1 > ⚙

| <input type="checkbox"/> | Name ▼ | DNS name ▼ | State ▼ | VPC ID ▼ | Availability Zones ▼ |
|--------------------------|--------|----------------------------|--------------|-----------------------|----------------------|
| <input type="checkbox"/> | TestLB | TestLB-1587776115.ap-so... | Provisioning | vpc-0407b22d895de5ed7 | 3 Availability Zones |

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Tell us what you think

EC2 Dashboard
EC2 Global View
Events

▼ Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
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Capacity Reservations

EC2 > Load balancers

Load balancers (1)
Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

↻

Actions ▼

Create load balancer ▼

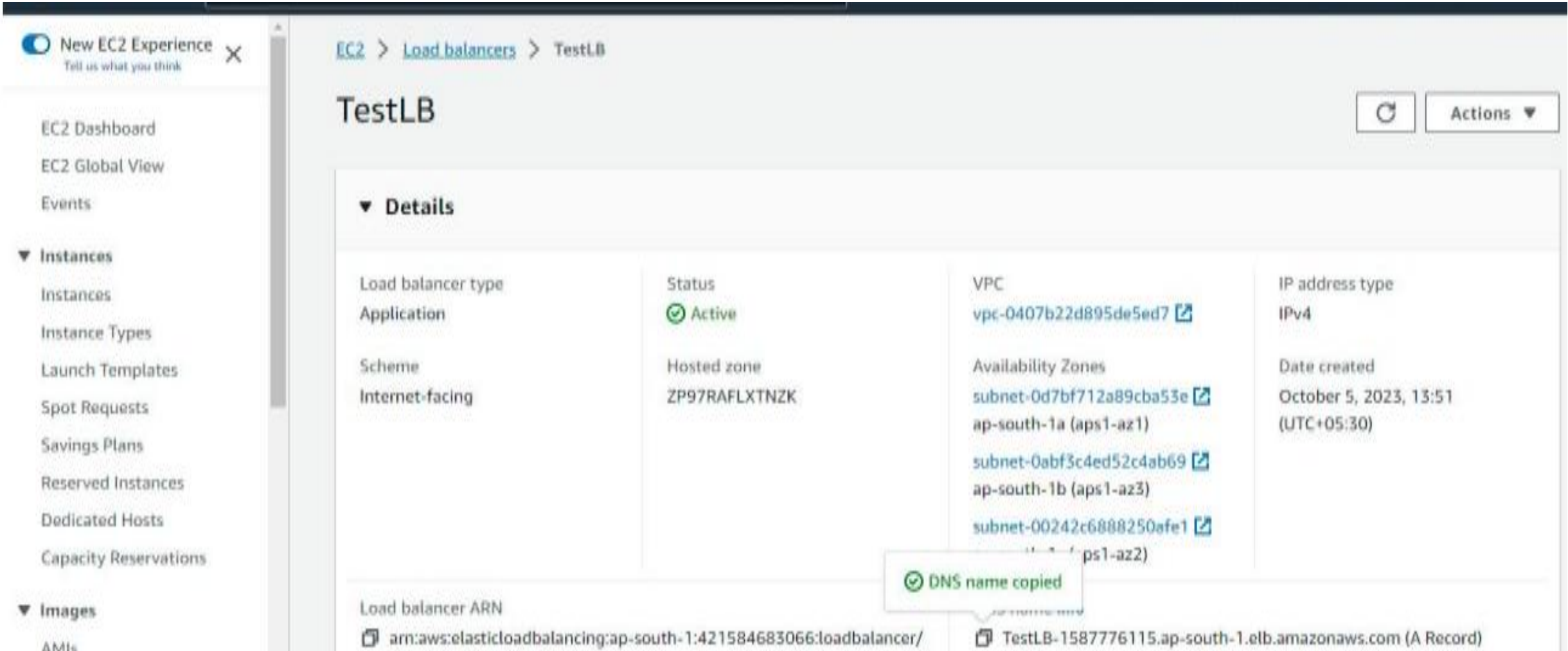
Q Filter by property or value

TestLB X Clear filters

< 1 > ⚙

| <input type="checkbox"/> | Name ▼ | DNS name ▼ | State ▼ | VPC ID ▼ | Availability Zones ▼ |
|--------------------------|--------|----------------------------|---------|-----------------------|----------------------|
| <input type="checkbox"/> | TestLB | TestLB-1587776115.ap-so... | Active | vpc-0407b22d895de5ed7 | 3 Availability Zones |

STEP 19: Now check the working of ELB by copying DNS name of created load balancer



The screenshot displays the AWS Management Console interface for the 'TestLB' load balancer. The left sidebar contains navigation links for 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images', and 'AMI's'. The main content area shows the 'TestLB' details under the 'Load balancers' section. The 'Details' tab is active, displaying a table of properties. The 'Status' is 'Active' with a green checkmark. The 'Hosted zone' is 'ZP97RAFLXTNZK'. The 'Availability Zones' are 'ap-south-1a (aps1-az1)', 'ap-south-1b (aps1-az3)', and 'ap-south-1c (aps1-az2)'. The 'Date created' is 'October 5, 2023, 13:51 (UTC+05:30)'. A tooltip 'DNS name copied' is visible over the DNS name 'TestLB-1587776115.ap-south-1.elb.amazonaws.com (A Record)'. The 'Load balancer ARN' is 'arn:aws:elasticloadbalancing:ap-south-1:421584683066:loadbalancer/TestLB-1587776115'.

TestLB

Details

| | | | |
|--|--|--|--|
| Load balancer type Application | Status Active | VPC vpc-0407b22d895de5ed7 | IP address type IPv4 |
| Scheme Internet-facing | Hosted zone ZP97RAFLXTNZK | Availability Zones subnet-0d7bf712a89cba53e ap-south-1a (aps1-az1) subnet-0abf3c4ed52c4ab69 ap-south-1b (aps1-az3) subnet-00242c6888250afe1 ap-south-1c (aps1-az2) | Date created October 5, 2023, 13:51 (UTC+05:30) |
| Load balancer ARN arn:aws:elasticloadbalancing:ap-south-1:421584683066:loadbalancer/TestLB-1587776115 | DNS name copied TestLB-1587776115.ap-south-1.elb.amazonaws.com (A Record) | | |

STEP 20: If we paste the copied DNS name in web browser it should show the web application of any instances if you keep on refreshing the page ALB will distribute the traffic among



Hello world from ip-172-31-18-211.eu-north-1.compute.internal



Hello world from ip-172-31-16-9.eu-north-1.compute.internal



Hello world from ip-172-31-28-92.eu-north-1.compute.internal