

## Create "Server-2a"

Recents

Quick Start

Amazon Linux  
aws

macOS  
Mac

Ubuntu  
ubuntu

Windows  
Microsoft

Red Hat  
Red Hat

S

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type  
ami-05842f1afb311a43 (64-bit (x86)) / ami-0802f85fb31bde94a (64-bit (Arm))  
Virtualization: hvm   ENA enabled: true   Root device type: ebs

Free tier eligible

▼ Instance type [Info](#)

Instance type

t2.micro  
Family: t2   1 vCPU   1 GiB Memory   Current generation: true  
On-Demand Linux pricing: 0.0116 USD per Hour  
On-Demand SUSE pricing: 0.0116 USD per Hour  
On-Demand Windows pricing: 0.0162 USD per Hour  
On-Demand RHEL pricing: 0.0716 USD per Hour

Free tier eligible

☒ All generations

[Compare instance types](#)

▼ 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*

myec2key

↕

↻

[Create new key pair](#)

▼ Network settings [Info](#)

VPC - required [Info](#)

vpc-0b3443802a0cc7c3e (Demo VPC)  
10.0.0.0/16

↻

Subnet [Info](#)

subnet-044e17046721dd28e  
VPC: vpc-0b3443802a0cc7c3e   Owner: 770118701104  
IP addresses available: 251   CIDR: 10.0.2.0/24

Private Subnet 1 | App Tier  
Availability Zone: us-east-2a

↻   [Create new subnet](#)

Auto-assign public IP [Info](#)

Disable

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

Common security groups [Info](#)

Select security groups

Webserver Security Group sg-0139150df583dd322 ✕  
VPC: vpc-0b3443802a0cc7c3e

↻   [Compare security group rules](#)

Security groups that you add or remove here will be added to or removed from all your network interfaces.

▼ Configure storage [Info](#)

[Advanced](#)

1x  GiB  Root volume (Not encrypted)

[i](#) Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage ✕

[Add new volume](#)

Go to EFS

### Attach

Mount your Amazon EFS file system on a Linux instance. [Learn more](#)

☒ Mount via DNS

☐ Mount via IP

Using the EFS mount helper:

```
sudo mount -t efs -o tls fs-0f4ceeb356e19463e:/ efs
```

Using the NFS client:

```
sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsiz=1048576,hard,timeo=600,retrans=2,noresvport fs-0f4ceeb356e19463e.efs.us-east-2.amazonaws.com:/ efs
```

See our user guide for more information. [Learn more](#)

```
#!/bin/bash

yum update -y
sudo yum install -y httpd httpd-tools mod_ssl
sudo systemctl enable httpd
sudo systemctl start httpd
sudo amazon-linux-extras enable php7.4
sudo yum clean metadata
sudo yum install php php-common php-pear -y
sudo yum install php-{cgi,curl,mbstring,gd,mysqlnd,gettext,json,xml,fpm,intl,zip} -y
sudo rpm -Uvh https://dev.mysql.com/get/mysql57-community-release-el7-11.noarch.rpm
sudo yum install mysql-community-server -y
sudo systemctl enable mysqld
sudo systemctl start mysqld
echo "fs-0f4ceeb356e19463e.efs.us-east-2.amazonaws.com:/var/www/html nfs4 nfsvers=4.1,rsize=1048576,wsiz=1048576,hard,timeo=600,retrans=2" >> /etc/fstab
mount -a
service httpd restart
```

paste like this

User data:

```
#!/bin/bash
```

```
yum update -y
sudo yum install -y httpd httpd-tools mod_ssl
sudo systemctl enable httpd
sudo systemctl start httpd
sudo amazon-linux-extras enable php7.4
sudo yum clean metadata
sudo yum install php php-common php-pear -y
sudo yum install php-{cgi,curl,mbstring,gd,mysqlnd,gettext,json,xml,fpm,intl,zip} -y
sudo rpm -Uvh https://dev.mysql.com/get/mysql57-community-release-el7-11.noarch.rpm
sudo rpm --import https://repo.mysql.com/RPM-GPG-KEY-mysql-2022
sudo yum install mysql-community-server -y
sudo systemctl enable mysqld
sudo systemctl start mysqld
```

```
echo "fs-0f4ceeb356e19463e.efs.us-east-2.amazonaws.com:/ /var/www/html nfs4
nfsvers=4.1,rsize=1048576,wsz=1048576,hard,timeo=600,retrans=2 0 0" >> /etc/fstab
mount -a
service httpd restart
```

Copy all from text file and paste it to user data


```
User data - optional Info
Enter user data in the field.
sudo amazon-linux-extras enable php7.4
sudo yum clean metadata
sudo yum install php php-common php-pear -y
sudo yum install php-
{cgi,curl,mbstring,gd,mysqlnd,gettext,json,xml,fpm,intl,zip} -y
sudo rpm -Uvh https://dev.mysql.com/get/mysql57-community-release-el7-
11.noarch.rpm
sudo rpm --import https://repo.mysql.com/RPM-GPG-KEY-mysql-2022
sudo yum install mysql-community-server -y
sudo systemctl enable mysqld
sudo systemctl start mysqld
echo "fs-0f4ceeb356e19463e.efs.us-east-2.amazonaws.com:/ /var/www/html
nfs4 nfsvers=4.1,rsize=1048576,wsz=1048576,hard,timeo=600,retrans=2 0 0"
>> /etc/fstab
mount -a
service httpd restart
```

Create "Server-2b"


Recents

Quick Start


Amazon Linux




macOS




Ubuntu



Windows




Red Hat



S

>



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Amazon Machine Image (AMI)

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Virtualization: hvm    ENA enabled: true    Root device type: ebs

Free tier eligible ▼

## ▼ Instance type [Info](#)

Instance type

t2.micro

Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Linux pricing: 0.0116 USD per Hour

On-Demand SUSE pricing: 0.0116 USD per Hour

On-Demand Windows pricing: 0.0162 USD per Hour

On-Demand RHEL pricing: 0.0716 USD per Hour

☒ All generations


[Compare instance types](#)

## ▼ 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*

myec2key

 [Create new key pair](#)

▼ Network settings Info

VPC - required Info

vpc-0b3443802a0cc7c3e (Demo VPC)

10.0.0.0/16

↻

Subnet Info

subnet-0ad2443b1311fbfed

Private Subnet 2 | App Tier

VPC: vpc-0b3443802a0cc7c3e Owner: 770118701104

Availability Zone: us-east-2b

↻ Create new subnet

Auto-assign public IP Info

Disable

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

Common security groups Info

Select security groups

Webserver Security Group sg-0139150df583dd322

VPC: vpc-0b3443802a0cc7c3e

↻ Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

► Advanced network configuration

Copy all from text file and paste it to user data

User data - optional Info

Enter user data in the field.

```

sudo amazon-linux-extras enable php7.4
sudo yum clean metadata
sudo yum install php php-common php-pear -y
sudo yum install php-
{cgi,curl,mbstring,gd,mysqlnd,gettext,json,xml,fpm,intl,zip} -y
sudo rpm -Uvh https://dev.mysql.com/get/mysql57-community-release-el7-
11.noarch.rpm
sudo rpm --import https://repo.mysql.com/RPM-GPG-KEY-mysql-2022
sudo yum install mysql-community-server -y
sudo systemctl enable mysqld
sudo systemctl start mysqld
echo "fs-0f4ceeb356e19463e.efs.us-east-2.amazonaws.com:/var/www/html
nfs4 nfsvers=4.1,rsize=1048576,wsiz=1048576,hard,timeo=600,retrans=2 0 0"
>> /etc/fstab
mount -a
service httpd restart

```

Go to load balancer



## Basic configuration

### Load balancer name

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

MyApplicationLoadBalancer

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.

### 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 the load balancer is created. To confirm the VPC for your targets, view your [target groups](#).

Demo VPC

vpc-0b3443802a0cc7c3e  
IPv4: 10.0.0.0/16



### 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.

☒ us-east-2a (use2-az1)

Subnet

subnet-0a661b5026d462dc0

Public Subnet 1 ▼

IPv4 address

Assigned by AWS

☒ us-east-2b (use2-az2)

Subnet

subnet-013e5df49b2580996

Public Subnet 2 ▼

IPv4 address

Assigned by AWS



## 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 groups

Select up to 5 security groups



<input type="checkbox"/>	SSH Security Group VPC: vpc-0b3443802a0cc7c3e	sg-0bcdc0575931ee498
<input type="checkbox"/>	default VPC: vpc-0b3443802a0cc7c3e	sg-0fba93ccaa1d74a12
<input type="checkbox"/>	EFS Security Group VPC: vpc-0b3443802a0cc7c3e	sg-09dcf44d3a2483a0e
<input type="checkbox"/>	Database Security Group VPC: vpc-0b3443802a0cc7c3e	sg-0b5ebd983b97ee7a3
<input type="checkbox"/>	Webserver Security Group VPC: vpc-0b3443802a0cc7c3e	sg-0139150df583dd322
<input type="checkbox"/>	ALB Security Group VPC: vpc-0b3443802a0cc7c3e	sg-0d73ffb2b173f790a

## 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

Port

Default action [Info](#)

HTTP

:

80

1-65535

Forward to

Select a target group

[Create target group](#)

## 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.

Target group name

MyAppServers

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

VPC

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

Demo VPC

vpc-0b3443802a0cc7c3e

IPv4: 10.0.0.0/16

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.

☐ gRPC

Send requests to targets using gRPC. Supported when the request protocol is gRPC.

Click Next

## Register targets

Select instances, specify ports, and add the instances to the list of pending targets. Repeat to add additional combinations of instances and ports to the list of pending targets. Once you are satisfied with your selections, click Register pending targets.

Available instances (2/3)

Filter resources by property or value

< 1 > ⌂

	Instance ID	Name	Status	Security groups	Zone	Public IPv4 address
<input type="checkbox"/>	i-0c1b3de8e19b18971	Setup-server	Running	Webserver Security Group, SSH Secur...	us-east-2a	3,144.20.86
<input checked="" type="checkbox"/>	i-046e12998a7f8ee8c	Server-2a	Running	Webserver Security Group	us-east-2a	-
<input checked="" type="checkbox"/>	i-0e9583ce18e40dd9b	Server-2b	Running	Webserver Security Group	us-east-2b	-

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

Select Create target group

EC2 > Target groups

Target groups (1/2) Info

Find resources by attribute or tag

< 1 > ⚙

	Name	ARN	Port	Protocol	Target type	Load balancer	VPC ID
<input checked="" type="checkbox"/>	MyAppServers	arn:aws:elasticloadbalanci...	80	HTTP	Instance	None associated	vpc-0b3443

Target group: MyAppServers

Details

Targets

Monitoring

Health checks

Attributes

Tags

Registered targets (2)

Filter resources by property or value

< 1 > ⚙

	Instance ID	Name	Port	Zone	Health status	Health status details
<input type="checkbox"/>	i-0e9583ce18e40dd9b	Server-2b	80	us-east-2b	unused	Target group is not con...
<input type="checkbox"/>	i-046e12998a7ffee8c	Server-2a	80	us-east-2a	unused	Target group is not con...

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

Port

Default action Info

HTTP

:

80

Forward to

Select a target group

⌂

1-65535

Create target group

▼ Listener HTTP:80

Remove

Protocol

Port

Default action Info

HTTP

:

80

Forward to

Select a target group

⌂

1-65535

Create target group

MyAppServers

Target type: Instance, IPv4

HTTP

Listener tags - optional

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

Summary

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

Basic configuration [Edit](#)

MyApplicationLoadBalancer

- Internet-facing
- IPv4

Security groups [Edit](#)

Security group not defined

Network mapping [Edit](#)

VPC [vpc-0b3443802a0cc7c3e](#)  
Demo VPC

- us-east-2a  
[subnet-0a661b5026d462dc0](#)  
Public Subnet 1
- us-east-2b  
[subnet-013e5df49b2580996](#)  
Public Subnet 2

Listeners and routing [Edit](#)

- HTTP:80 defaults to [MyAppServers](#)

Add-on services [Edit](#)

None

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

EC2 > Load balancers

Load balancers (1/1)

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

Find resources by attribute or tag

MyApplicationLoadBalancer

Clear filters

<input checked="" type="checkbox"/>	Name	DNS name	State	VPC ID	Availability Zones	Type	Date created
<input checked="" type="checkbox"/>	MyApplicationLoadBalancer	MyApplicationLoadBalanc...	Provisioning	vpc-0b3443802a0cc7c3e	2 Availability Zones	application	June 5, 2023, 11:59 (UTC+08:00)

Load balancers (1/2)

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

Find resources by attribute or tag

< 1 >

<input type="checkbox"/>	Name	DNS name	State	VPC ID	Availability Zones	Type	Date created
<input type="checkbox"/>	as1-1	as1-1-1287545181.us-eas...	Active	vpc-041036603ad4568e2	3 Availability Zones	application	June 3, 2023, 19:44 (UTC+08:00)
<input checked="" type="checkbox"/>	MyApplicationLoadBalancer	MyApplicationLoadBalanc...	Active	vpc-0b3443802a0cc7c3e	2 Availability Zones	application	June 5, 2023, 12:23 (UTC+08:00)

Load balancer: MyApplicationLoadBalancer

Internet-facing

Z3AADJGX6KCTL2

[subnet-0a661b5026d462dc0](#) us-east-2a (use2-az1)

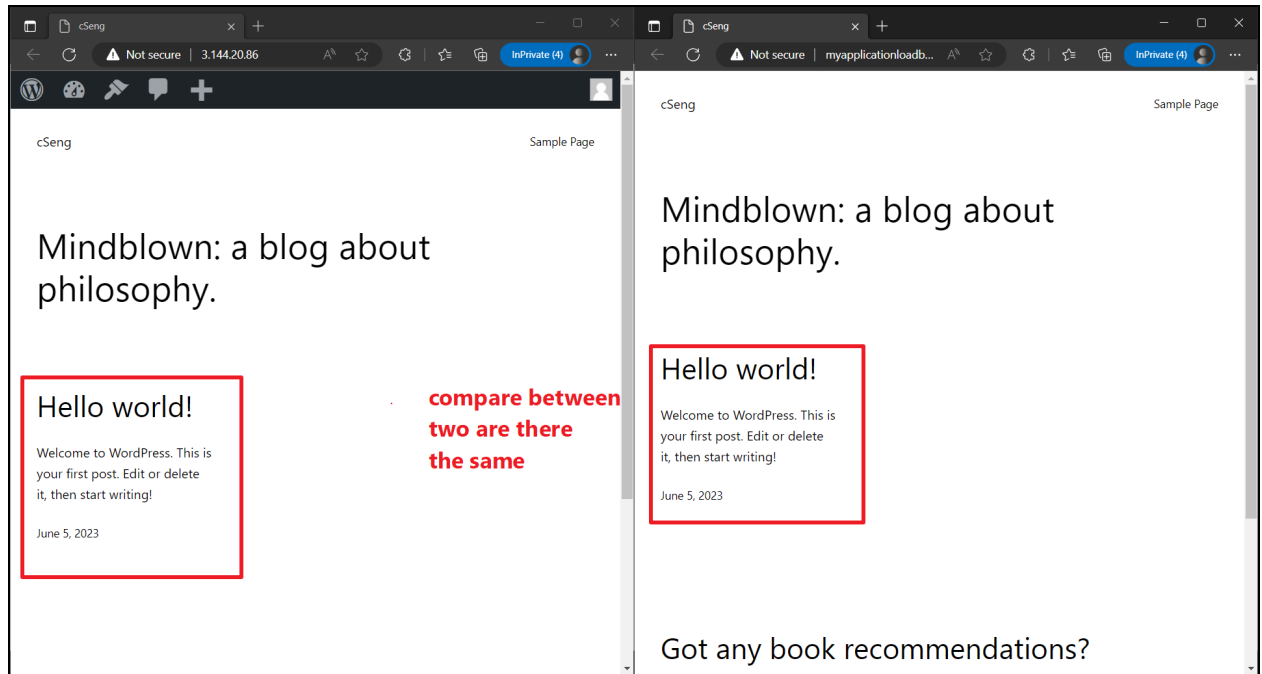
[subnet-013e5df49b2580996](#) us-east-2b (use2-az2)

Load balancer ARN

arn:aws:elasticloadbalancing:us-east-2:770118701104:loadbalancer/app/MyApplicationLoadBalancer/5b0071395a045058

DNS name

[MyApplicationLoadBalancer-1014144609.us-east-2.elb.amazonaws.com](#) (A Record)



If want to access admin page, add  
/wp-admin

