

## CLOUD COMPUTING

11-07-23

### a) setup Elastic/Static IP address for any EC2 instance – linux

In Home Page Go to Network Settings and click on Elastic Ips.

A new page will be opened and then click on allocate Elastic IP address .

Click on Allocate Elastic IP address and then click on Allocate task.

Then it reloads the pack and displays the Allocate Elastic IP address Successfully Message.

And my allocated IPV4 address is [13.53.117.182](http://13.53.117.182)

In Actions Select Associate Elastic IP Address Then select your Instance and click on Associate It shows IP Address Same as previous. [13.53.117.182](http://13.53.117.182)

Then again go to your instances and select your instance and reload it check weather the IP address changed or not.

Then you need to check your instance for that stop your instance and compare IP address Then start again.

### b) setup EC2 launch template & auto scaling

Go to instances and then click on Launch Template then create.

Give Template name- MyLT

Instance Type t3. micro

Select security group as Launch-Wizard-1

Select User Data code and launch template.

Go to Templates and created template is visible.

Then go to Auto Scaling and click on Auto Scaling Groups.

Click on create Auto Scaling Groups.

In Auto Scaling Groups select VPC and Availability Zones.

Change group size as 2 click on next.

Click on Auto scale created group then ASG successfully created.

Instances | EC2 Management Con X +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:sort=instanceState

Gmail YouTube Maps iBOMMA - Watch a... https://chat.openai...

AWS Services Search [Alt+S]

New EC2 Experience Tell us what you think X

EC2 Dashboard EC2 Global View Events Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Scheduled Instances Capacity Reservations Images AMIs AMI Catalog

Instances (2) Info

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"/>	linux	i-02cb3387b37118a9f	Running	t2.micro	Initializing	No alarms	+ us-east-1b	ec2-54-162-102-23
<input type="checkbox"/>	window	i-02aa70f86bf18fdc2	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1b	ec2-174-129-114-4

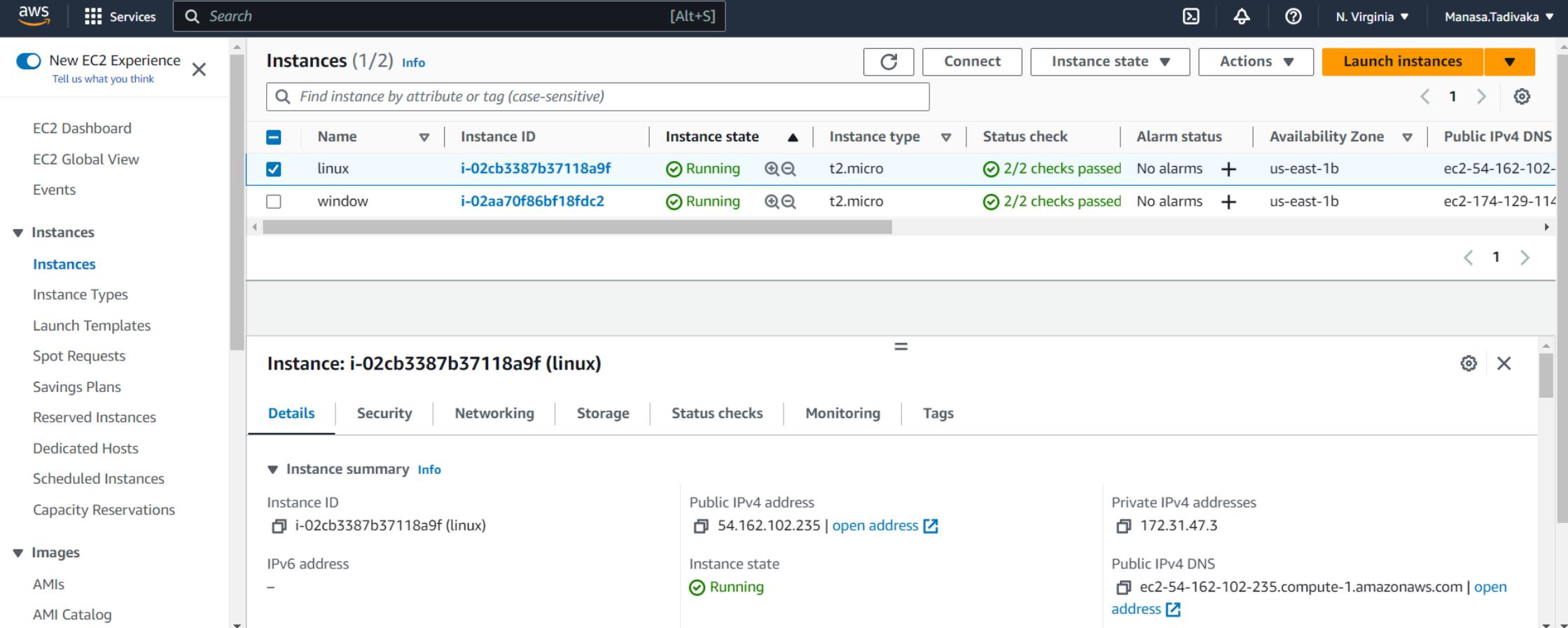
Select an instance

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28°C Mostly clear ENG IN 9:44 PM 7/13/2023

Search



EC2 Management Console + -

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Addresses:

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Spot Requests  
Savings Plans  
Reserved Instances  
Dedicated Hosts  
Scheduled Instances  
Capacity Reservations

Images  
AMIs  
AMI Catalog

Elastic Block Store  
Volumes  
Snapshots  
Lifecycle Manager

Network & Security  
Security Groups  
**Elastic IPs**  
Placement Groups  
Key Pairs

Elastic IP addresses (1/1)

Filter Elastic IP addresses

Name Allocated IPv4 addr... Type Allocation ID Reverse DNS record

- 52.72.80.137 Public IP eipalloc-095c1865b34182cf1 -

Actions Allocate Elastic IP address

52.72.80.137

Summary Tags

Summary

Allocated IPv4 address: 52.72.80.137 Type: Public IP Allocation ID: eipalloc-095c1865b34182cf1 Reverse DNS record: -

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Allocate Elastic IP address | EC2

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AllocateAddress:

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N. Virginia Manasa.Tadivaka

EC2 > Elastic IP addresses > Allocate Elastic IP address

## Allocate Elastic IP address Info

**Elastic IP address settings Info**

Network Border Group Info

us-east-1 X

Public IPv4 address pool

Amazon's pool of IPv4 addresses

Public IPv4 address that you bring to your AWS account (option disabled because no pools found) Learn more

Customer owned pool of IPv4 addresses (option disabled because no customer owned pools found) Learn more

Global static IP addresses

AWS Global Accelerator can provide global static IP addresses that are announced worldwide using anycast from AWS edge locations. This can help improve the availability and latency for your user traffic by using the Amazon global network. Learn more

Create accelerator Info

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EC2 Management Console + X

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Addresses:public-ip=44.214.172.22

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New EC2 Experience Tell us what you think X

Elastic IP address allocated successfully.  
Elastic IP address 44.214.172.22 Associate this Elastic IP address X

EC2 Dashboard  
EC2 Global View  
Events

Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Scheduled Instances
- Capacity Reservations

Images

- AMIs
- AMI Catalog

Elastic IP addresses (1/1)

Filter Elastic IP addresses

Public IPv4 address: 44.214.172.22 X Clear filters

Name	Allocated IPv4 addr...	Type	Allocation ID	Reverse DNS record
-	44.214.172.22	Public IP	eipalloc-06ad936e9e64e55ec	-

44.214.172.22

Summary Tags

Summary

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EC2 Management Console + X

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Addresses:public-ip=44.214.172.22

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New EC2 Experience Tell us what you think X

Elastic IP address associated successfully.  
Elastic IP address 44.214.172.22 has been associated with instance i-02cb3387b37118a9f

Elastic IP addresses (1/1)

Filter Elastic IP addresses

Public IPv4 address: 44.214.172.22 X Clear filters

Name	Allocated IPv4 addr...	Type	Allocation ID	Reverse DNS record
-	44.214.172.22	Public IP	eipalloc-06ad936e9e64e55ec	-

44.214.172.22

Summary Tags

Summary

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EC2 Dashboard EC2 Global View Events Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Scheduled Instances Capacity Reservations Images AMIs AMI Catalog

Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
linux	i-02cb3387b37118a9f	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-54-162-102-
window	i-02aa70f86bf18fdc2	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-174-129-114-

Instance: i-02cb3387b37118a9f (linux)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary

Instance ID: i-02cb3387b37118a9f (linux)

IPv6 address: -

Public IPv4 address: 54.162.102.235 | open address

Private IPv4 addresses: 172.31.47.3

Instance state: Running

Public IPv4 DNS: ec2-54-162-102-235.compute-1.amazonaws.com | open address

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Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status
linux	i-02cb3387b37118a9f	Running	t2.micro	2/2
window	i-02aa70f86bf18fdc2	Running	t2.micro	2/2

Actions ▾ Stop instance Start instance Reboot instance Hibernate instance Terminate instance

Launch instances

Instance: i-02cb3387b37118a9f (linux)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary

Instance ID i-02cb3387b37118a9f (linux)	Public IPv4 address 54.162.102.235   <a href="#">open address</a>	Private IPv4 addresses 172.31.47.3
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-54-162-102-235.compute-1.amazonaws.com   <a href="#">open address</a>

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Successfully stopped i-02cb3387b37118a9f

Instances (1/2) Info Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
window	i-02aa70f86bf18fdc2	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-174-129-114-
linux	i-02cb3387b37118a9f	Stopping	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-44-214-172-

Instance: i-02cb3387b37118a9f (linux)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-02cb3387b37118a9f (linux)	44.214.172.22   open address	172.31.47.3
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-44-214-172-22.compute-1.amazonaws.com   open address

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Launch templates | EC2 Manager + us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchTemplates: Gmail YouTube Maps iBOMMA - Watch a... https://chat.openai...

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Compute

# EC2 launch templates

## Streamline, simplify and standardize instance launches

Use launch templates to automate instance launches, simplify permission policies, and enforce best practices across your organization. Save launch parameters in a template that can be used for on-demand launches and with managed services, including EC2 Auto Scaling and EC2 Fleet. Easily update your launch parameters by creating a new launch template version.

**Benefits and features**

<b>Streamline provisioning</b> Minimize steps to provision instances. With EC2 Auto Scaling, updates to a launch	<b>Simplify permissions</b> Create shorter, easier to manage IAM policies. <a href="#">Learn more</a>
---	--

**New launch template**

**Create launch template**

**Documentation**

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**aws** Services  [Alt+S]

Current user data

User data currently associated with this instance

No user data found

New user data

This user data will replace the current user data

**Modify user data as text**  
Add your user data below

**Modify user data by importing a file**  
Description of importing a file and what will happen to it

```
EC2AZ-9($TOKEN` curl -X POST http://169.254.169.254/latest/api/token -H "X-aws-ec2-metadata-token-ttl-seconds: 21600" && curl -H "X-aws-ec2-metadata-token: $TOKEN" -v http://169.254.169.254/latest/meta-data/placement/availability-zone)
echo '<center><h1>This Amazon EC2 instance is located in Availability Zone: AZID </h1></center>' >
/var/www/html/index.txt
sed "s/AZID/$EC2AZ/" /var/www/html/index.txt > /var/www/html/index.html
```

Input is already base64-encoded

Instances | EC2 Management Con ✘ | Gmail | Inbox (1,487) - manasatadivaka91 ✘ | Cloud Intern Task 2023 - Google | +

← → C 🔒 us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

Gmail YouTube Maps iBOMMA - Watch a... https://chat.openai...

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New EC2 Experience Tell us what you think X

User data successfully modified

Instances (2) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
linux	i-02cb3387b37118a9f	Stopped	t2.micro	-	No alarms	us-east-1b	ec2-44-214-172-
window	i-02aa70f86bf18fdc2	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-174-129-114

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

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Search

1 2

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Services

Search

[Alt+S]



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## Launch template name - required

MtLT

Must be unique to this account. Max 128 chars. No spaces or special characters like '&amp;', '\*', '@'.

## Template version description

A prod webserver for MyApp

Max 255 chars

Auto Scaling guidance [Info](#)

Select this if you intend to use this template with EC2 Auto Scaling

- 
- Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

## ▶ Template tags

## ▶ Source template

## Launch template contents

Specify the details of your launch template below. Leaving a field blank will result in the field not being included in the launch template.

▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

## ▼ Summary

## Software Image (AMI)

-

## Virtual server type (instance type)

-

## Firewall (security group)

-

## Storage (volumes)

-

**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 GiB of bandwidth to the



Cancel

Create launch template



← → C 🔍 us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateTemplate:

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EC2 Dashboard EC2 Global View Events

Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Scheduled Instances Capacity Reservations

Images AMIs AMI Catalog

Elastic Block Store Volumes

EC2 > Launch templates > Create launch template

Success Successfully created mylt (lt-004e18c63e689d3c3)

▶ Actions log

## Next steps

**Launch an instance**  
With On-Demand Instances, you pay for compute capacity by the second (for Linux, with a minimum of 60 seconds) or by the hour (for all other operating systems) with no long-term commitments or upfront payments. Launch an On-Demand Instance from your launch template.

[Launch instance from this template](#)

**Create an Auto Scaling group from your template**  
Amazon EC2 Auto Scaling helps you maintain application availability and allows you to scale your Amazon EC2 capacity up or down automatically according to conditions you define. You can use Auto Scaling to help ensure that you are running your desired number of Amazon EC2 instances during demand spikes to maintain performance and decrease capacity during lulls to reduce costs.

[Create Auto Scaling group](#)

**Create Spot Fleet**  
A Spot Instance is an unused EC2 instance that is available for less than the On-Demand price. Because Spot Instances enable you to request unused EC2 instances at steep discounts, you can lower your Amazon EC2 costs significantly. The hourly price for a Spot Instance (of each instance type in each Availability Zone) is set by Amazon EC2, and adjusted gradually based on the long-term supply of and demand for Spot Instances. Spot instances are well-suited for data-analysis, batch jobs, background processing, and optional tasks.

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Search

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Step 1

Choose launch template or configuration

Step 2

Choose instance launch options

Step 3 - optional

Configure advanced options

Step 4 - optional

Configure group size and scaling policies

Step 5 - optional

Add notifications

Step 6 - optional

Add tags

Step 7

Review

## Choose launch template or configuration Info

Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group. If you currently use launch configurations, you might consider migrating to launch templates.

### Name

#### Auto Scaling group name

Enter a name to identify the group.

Must be unique to this account in the current Region and no more than 255 characters.

### Launch template Info

[Switch to launch configuration](#)

#### Launch template

Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.



⚠ No AMI specified for the current launch template.

[Create a launch template](#)

#### Version

AWS Services Search [Alt+S]

EC2 > Launch templates > Create launch template

 Success  
Successfully created mine (lt-02e4b7dfe2c87b889)

► Actions log

## Next steps

### Launch an instance

With On-Demand Instances, you pay for compute capacity by the second (for Linux, with a minimum of 60 seconds) or by the hour (for all other operating systems) with no long-term commitments or upfront payments. Launch an On-Demand Instance from your launch template.

[Launch instance from this template](#)

### Create an Auto Scaling group from your template

Amazon EC2 Auto Scaling helps you maintain application availability and allows you to scale your Amazon EC2 capacity up or down automatically according to conditions you define. You can use Auto Scaling to help ensure that you are running your desired number of Amazon EC2 instances during demand spikes to maintain performance and decrease capacity during lulls to reduce costs.

[Create Auto Scaling group](#)

### Create Spot Fleet

A Spot Instance is an unused EC2 instance that is available for less than the On-Demand price. Because Spot Instances enable you to request unused EC2 instances at steep discounts, you can lower your Amazon EC2 costs significantly. The hourly price for a Spot Instance (of each instance type in each Availability Zone) is set by Amazon EC2, and adjusted gradually based on the long-term supply of and demand for Spot Instances. Spot instances are well-suited for data-analysis, batch jobs, background processing, and optional tasks.

[Create Spot Fleet](#)



← → C 🔍 us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroups:

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# Amazon EC2 Auto Scaling

## helps maintain the availability of your applications

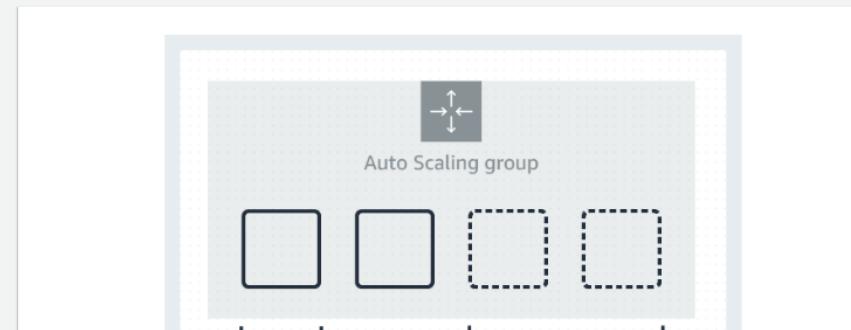
Auto Scaling groups are collections of Amazon EC2 instances that enable automatic scaling and fleet management features. These features help you maintain the health and availability of your applications.

### Create Auto Scaling group

Get started with EC2 Auto Scaling by creating an Auto Scaling group.

[Create Auto Scaling group](#)

## How it works



## Pricing

Amazon EC2 Auto Scaling features have no additional fees beyond the service fees for Amazon EC2, CloudWatch (for scaling policies), and the other AWS resources that you use. Visit the pricing page of each service to learn more.

## Getting started

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:

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AWS Services Search [Alt+S]

Configure advanced options

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Auto Scaling group name  
Enter a name to identify the group.  
asg3  
Must be unique to this account in the current Region and no more than 255 characters.

**Launch template** Info Switch to launch configuration

Launch template  
Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.

FRIDAY ▾ C

Create a launch template

Version  
Default (1) ▾ C

Create a launch template version

Description	Launch template	Instance type
-	FRIDAY	t2.micro
AMI ID	lt-00e7ccb58261a9a1c	
Key pair name	sg-06fb851c02b6f639a	
Security groups	Request Spot Instances	
-	No	

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AWS Services Search [Alt+S]

options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

**NETWORK Info**

For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.

**VPC**  
Choose the VPC that defines the virtual network for your Auto Scaling group.  
vpc-06824cb6fd24cd631  
172.31.0.0/16 Default

Create a VPC

**Availability Zones and subnets**  
Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.  
Select Availability Zones and subnets

us-east-1a | subnet-0ed235965dcae8a09  
172.31.16.0/20 Default

us-east-1b | subnet-06f5bf0c62312603e  
172.31.32.0/20 Default

Create a subnet

**Instance type requirements** Info**Override launch template**

You can keep the same instance attributes or instance type from your launch template, or you can choose to override the launch template by specifying different instance attributes or manually adding instance types.

Launch template

Version

Description

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AWS Services Search [Alt+S]

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1  
Choose launch template or configuration

Step 2  
Choose instance launch options

Step 3 - optional  
Configure advanced options

Step 4 - optional  
Configure group size and scaling policies

Step 5 - optional  
Add notifications

Step 6 - optional  
Add tags

Step 7  
Review

## Configure group size and scaling policies - *optional* Info

Set the desired, minimum, and maximum capacity of your Auto Scaling group. You can optionally add a scaling policy to dynamically scale the number of instances in the group.

### Group size - *optional* Info

Specify the size of the Auto Scaling group by changing the desired capacity. You can also specify minimum and maximum capacity limits. Your desired capacity must be within the limit range.

Desired capacity

Minimum capacity

Maximum capacity  ▾

### Scaling policies - *optional*

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EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1  
Choose launch template or configuration

Step 2  
Choose instance launch options

Step 3 - optional  
Configure advanced options

Step 4 - optional  
Configure group size and scaling policies

Step 5 - optional  
**Add notifications**

Step 6 - optional  
Add tags

Step 7  
Review

Add notifications - *optional* Info

Send notifications to SNS topics whenever Amazon EC2 Auto Scaling launches or terminates the EC2 instances in your Auto Scaling group.

Add notification

Cancel Skip to review Previous Next

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1 33°C Sunny

Search

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Create Auto Scaling group | EC2 | Create Auto Scaling group | EC2 | Inbox (1,487) - manasatadivaka91 | Cloud Intern Task 2023 - Google | +

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EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template or configuration

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

## Add tags - optional Info

Add tags to help you search, filter, and track your Auto Scaling group across AWS. You can also choose to automatically add these tags to instances when they are launched.

i You can optionally choose to add tags to instances (and their attached EBS volumes) by specifying tags in your launch template. We recommend caution, however, because the tag values for instances from your launch template will be overridden if there are any duplicate keys specified for the Auto Scaling group. X

### Tags (0)

Add tag 50 remaining

Cancel Previous Next

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1 33°C Sunny

Search

11:48 AM 7/14/2023 2

← → C 🔒 us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:

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**aws Services** Search [Alt+S]

**Instance scale-in protection**

Instance scale-in protection  
 Enable instance protection from scale in

**Step 5: Add notifications** Edit

**Notifications**

No notifications

**Step 6: Add tags** Edit

**Tags (0)**

Key	Value	Tag new instances
No tags		

Cancel Previous **Create Auto Scaling group**

← → C us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroups:

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asg3 created successfully

EC2 > Auto Scaling groups

Auto Scaling groups (1) [Info](#)

C Launch configurations Launch templates Actions Create Auto Scaling group

Search your Auto Scaling groups

< 1 > ⚙

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability zones
asg3	FRIDAY   Version Default	0	Updating capacity...	2	2	2	us-east-1a, ...

0 Auto Scaling groups selected