



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

aws Services Search [Alt+S]

EC2 IAM

Instance Types  
Launch Templates  
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  
Network Interfaces

Load Balancing Load Balancers

**Elastic IP addresses**

Filter Elastic IP addresses

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

No Elastic IP addresses found in this Region

Actions Allocate Elastic IP address

Cloud Interns for Session 13-07-2023 14:37

## 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](#) X

### Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.



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EC2 IAM

### Elastic IP address settings Info

Network Border Group Info

Search 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](#)

**Tags - optional**

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

[Add new tag](#)

You can add up to 50 more tag

[Cancel](#) [Allocate](#)



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EC2 IAM

New EC2 Experience Tell us what you think

Elastic IP address allocated successfully.  
Elastic IP address 44.216.157.190

Associate this Elastic IP address

Elastic IP addresses (1/1)

Filter Elastic IP addresses

Public IPv4 address: 44.216.157.190 X Clear filters

Name	Allocated IPv4 address	Type	Allocation ID	Reverse DNS record	Associated instance ID
-	44.216.157.190	Public IP	eipalloc-0ae4198e68d3e4e2a	-	-

44.216.157.190

Summary Tags

Summary

Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
44.216.157.190	Public IP	eipalloc-0ae4198e68d3e4e2a	-

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EC2 IAM

New EC2 Experience Tell us what you think

Elastic IP address allocated successfully.  
Elastic IP address 44.216.157.190

Associate this Elastic IP address

Elastic IP addresses (1/1)

Filter Elastic IP addresses

Public IPv4 address: 44.216.157.190 X Clear filters

Actions Allocate Elastic IP address

View details

Release Elastic IP addresses

Associate Elastic IP address

Disassociate Elastic IP address

Allocation ID: eipalloc-0ae4198e68d3e4e2a

Name: -

Type: Public IP

Allocation ID: eipalloc-0ae4198e68d3e4e2a

Reverse DNS record: -

44.216.157.190

Summary Tags

Summary

Allocated IPv4 address: 44.216.157.190 Type: Public IP Allocation ID: eipalloc-0ae4198e68d3e4e2a Reverse DNS record: -

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## Associate Elastic IP address Info

Choose the instance or network interface to associate to this Elastic IP address (44.216.157.190)

### Elastic IP address: 44.216.157.190

#### Resource type

Choose the type of resource with which to associate the Elastic IP address.

 Instance Network interface

**⚠** If you associate an Elastic IP address with an instance that already has an Elastic IP address associated, the previously associated Elastic IP address will be disassociated, but the address will still be allocated to your account. [Learn more](#)

If no private IP address is specified, the Elastic IP address will be associated with the primary private IP address.

#### Instance

 Choose an instance

#### Private IP address

The private IP address with which to associate the Elastic IP address.

 Choose a private IP address

#### Reassociation

Specify whether the Elastic IP address can be reassigned to a different resource if it is already associated with a resource.

 Allow this Elastic IP address to be reassigned

Associate Elastic IP address

Choose the instance or network interface to associate to this Elastic IP address (54.86.10.45)

Elastic IP address: 54.86.10.45

### Resource type

**Resource type**  
Choose the type of resource with which to associate the Elastic IP address.

- Instance
  - Network interface

**⚠** If you associate an Elastic IP address with an instance that already has an Elastic IP address associated, the previously associated Elastic IP address will be disassociated, but the address will still be allocated to your account. [Learn more](#)

If no private IP address is specified, the Elastic IP address will be associated with the primary private IP address.

## Instance

	Choose an instance
i-087666734c51caaf3	(Linux2) - stopped
i-075fd136d4d53341d	(Linux3) - running
i-01c397076b3b3c4a4	(window2) - running
i-02f6ca02d55138c58	(Linux) - stopped
i-0128f46ee04fa1e25	(Window) - stopped



ad with a resource

Cancel

Associate

Associate Elastic IP address

Choose the instance or network interface to associate to this Elastic IP address (54.86.10.45)

Elastic IP address: 54.86.10.45

### Resource type

**Resource type**  
Choose the type of resource with which to associate the Elastic IP address.

- Instance
  - Network interface

**⚠** If you associate an Elastic IP address with an instance that already has an Elastic IP address associated, the previously associated Elastic IP address will be disassociated, but the address will still be allocated to your account. [Learn more](#)

If no private IP address is specified, the Elastic IP address will be associated with the primary private IP address.

## Instance

i-075fd136d4d53341d

X

2

## Private IP address

**Private IP address**  
The private IP address with which to associate the Elastic IP address

Q 132 31 34 46

1

### Reassociation

**Reassociation** Specify whether the Elastic IP address can be reassigned to a different resource if it already associated with a resource.

- Allow this Elastic IP address to be reassociated

Cancel

Associate

Inbox (21) - vyshnavithummala00 x EC2 Management Console x +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Addresses:public-ip=54.86.10.45

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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 Snapshots Lifecycle Manager

Elastic IP address associated successfully.  
Elastic IP address 54.86.10.45 has been associated with instance i-075fd136d4d53341d

Elastic IP addresses (1/1)

Filter Elastic IP addresses

Public IPv4 address: 54.86.10.45 X Clear filters

Actions Allocate Elastic IP address

< 1 > ⓘ

Name	Allocated IPv4 addr...	Type	Allocation ID	Reverse DNS record	Associated instance ID
-	54.86.10.45	Public IP	eipalloc-01ded11a194d4eaa8	-	i-075fd136d4d53341d

54.86.10.45

Summary Tags

Summary

Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
54.86.10.45	Public IP	eipalloc-01ded11a194d4eaa8	-

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Instances (1/5) Info Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm state
Linux2	i-087666734c51caaf3	Stopped	t2.micro	-	No alarms
Linux3	i-075fd136d4d53341d	Running	t2.micro	2/2 checks passed	No alarms
window2	i-01c397076b3b3c4a4	Running	t2.micro	2/2 checks passed	No alarms
Linux	i-02f6ca02d55138c58	Stopped	t2.micro	-	No alarms

Actions ▾ Launch instances ▾ Stop instance Start instance Reboot instance Hibernate instance Terminate instance Public IPv4 DNS Public IPv4 ec2-34-228-25-116.co... 34.228.25.1 ec2-34-228-54-63.com... 34.228.54.6 us-east-1a - -

Instance: i-075fd136d4d53341d (Linux3)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-075fd136d4d53341d (Linux3)	34.228.25.116   open address	172.31.24.46
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-34-228-25-116.compute-1.amazonaws.com   open address
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-24-46.ec2.internal	ip-172-31-24-46.ec2.internal	-
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
-	t2.micro	Opt-in to AWS Compute Optimizer for recommendations.
Auto-assigned IP address	VPC ID	Learn more
34.228.25.116 [Public IP]	vpc-0a722477fb8c253aa	

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New EC2 Experience Tell us what you think

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 Snapshots Lifecycle Manager

Successfully stopped i-075fd136d4d53341d

Instances (1/5) 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	Public IPv4
Linux2	i-087666734c51caaf3	Stopped	t2.micro	-	No alarms	us-east-1b	-	-
Linux3	i-075fd136d4d53341d	Stopping	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-54-86-10-45.compute-1.amazonaws.com	54.86.10.45
window2	i-01c397076b3b3c4a4	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-34-228-54-63.amazonaws.com	34.228.54.6

Instance: i-075fd136d4d53341d (Linux3)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-075fd136d4d53341d (Linux3)	54.86.10.45   open address	172.31.24.46
IPv6 address	Instance state	Public IPv4 DNS
-	Stopping	ec2-54-86-10-45.compute-1.amazonaws.com   open address
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-24-46.ec2.internal	ip-172-31-24-46.ec2.internal	-
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
-	t2.micro	Opt-in to AWS Compute Optimizer for recommendations.
Auto-assigned IP address	VPC ID	Learn more
54.86.10.45 [Public IP]	vpc-0a722477fb8c253aa	

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

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EC2 IAM

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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

**Streamline provisioning**  
Minimize steps to provision instances. With EC2 Auto Scaling, updates to a launch template can be automatically passed to an Auto Scaling group. [Learn more](#)

**Governance**  
Ensure best practices are used across

**Simplify permissions**  
Create shorter, easier to manage IAM policies. [Learn more](#)

**New launch template**

**Create launch template**

**Documentation**

[Documentation](#)

[API reference](#)

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Inbox (21) - vyshnavithummala00 ✎ Create launch template | EC2 Mar +

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

Services Search [Alt+S]

N. Virginia vyshnavi @ thummalavyshnavi

EC2 IAM

EC2 > Launch templates > Create launch template

## Create launch template

Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.

### Launch template name and description

Launch template name - required

MyLT

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

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.

### 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 GB of bandwidth to the internet. X

Cancel Create launch template

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

aws Services Search [Alt+S]

EC2 IAM

EC2 > Launch templates > Create launch template

 Success  
Successfully created MyLT (lt-08426cf7a05bbe4a6)

▶ 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](#)

[View launch templates](#)



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

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EC2 IAM

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template

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 Info

Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group.

**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

i For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch templates. Creating Auto Scaling groups with launch configurations is not recommended but still available via the CLI and API until December 31, 2023.

**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.

[Create a launch template](#)

**Version**

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

Services Search [Alt+S]

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EC2 IAM

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template

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 instance launch options Info

Choose the VPC network environment that your instances are launched into, and customize the instance types and purchase options.

### 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-0a722477fb8c253aa  
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-01d5ec6f0776a32ae X  
172.31.80.0/20 Default

us-east-1b | subnet-00ab2cb86fe444b01 X  
172.31.16.0/20 Default

Create a subnet

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

Services Search [Alt+S]

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Step 1 Choose launch template

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 advanced options - *optional* Info

Integrate your Auto Scaling group with other services to distribute network traffic across multiple servers using a load balancer or to establish service-to-service communications using VPC Lattice. You can also set options that give you more control over health check replacements and monitoring.

### Load balancing Info

Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.

- No load balancer  
Traffic to your Auto Scaling group will not be fronted by a load balancer.
- Attach to an existing load balancer  
Choose from your existing load balancers.
- Attach to a new load balancer  
Quickly create a basic load balancer to attach to your Auto Scaling group.

### VPC Lattice integration options Info

To improve networking capabilities and scalability, integrate your Auto Scaling group with VPC Lattice. VPC Lattice facilitates communications between AWS services and helps you connect and manage your applications across compute services in AWS.

Select VPC Lattice service to attach

- No VPC Lattice service  
VPC Lattice will not manage your Auto Scaling group's network access and connectivity with other services.
- Attach to VPC Lattice service  
Incoming requests associated with specified VPC Lattice target groups will be routed to your Auto Scaling group.

Create new VPC Lattice service [i]



Step 1

[Choose launch template](#)

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*

Choose whether to use a scaling policy to dynamically resize your Auto Scaling group to meet changes in demand. Info

 Target tracking scaling policy  
Choose a desired outcome and link it to the scaling policy None

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

Services Search [Alt+S]

EC2 IAM

Step 1 Choose launch template

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

## Review Info

Step 1: Choose launch template Edit

**Group details**

Auto Scaling group name: MSG-1

**Launch template**

Launch template	Version	Description
MyLT	Default	lt-08426cf7a05bbe4a6

Step 2: Choose instance launch options Edit

**Network**

**Network**

VPC: vpc-0a722477fb8c253aa

Availability Zone	Subnet
us-east-1a	subnet-01d5ec6f0776a32ae  172.31.80.0/20

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

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EC2 IAM

MSG-1 created successfully

EC2 > Auto Scaling groups

Auto Scaling groups (1) Info

Search your Auto Scaling groups

Launch configurations Launch templates Actions Create Auto Scaling group

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability Zones
MSG-1	MyLT   Version Default	0	Updating capacity...	2	2	2	us-east-1a, us-east-1b

0 Auto Scaling groups selected

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