

Cloud Intern Task 2023 - Google

Instances | EC2 Management Console

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

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Instances (1/2)

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
<input type="checkbox"/>	window	i-0c117d4bb3042f253	Running	t2.micro	2/2 checks passed	No alarms	us-east-1e	ec2-100-26-214-91.co...	100.26.214.
<input checked="" type="checkbox"/>	Linux	i-0a3aa199f6f79e2c9	Running	t2.micro	2/2 checks passed	No alarms	us-east-1e	ec2-54-152-83-223.co...	54.152.83.2

Instance: i-0a3aa199f6f79e2c9 (Linux)

IPv6 address

Hostname type

IP name: ip-172-31-60-192.ec2.internal

Answer private resource DNS name

Auto-assigned IP address

54.152.83.223 [Public IP]

Instance state

Running

Private IP DNS name (IPv4 only)

ip-172-31-60-192.ec2.internal

Instance type

t2.micro

VPC ID

vpc-0eb0dec0b4b5c3e4f

Public IPv4 DNS

ec2-54-152-83-223.compute-1.amazonaws.com | open address

Elastic IP addresses

AWS Compute Optimizer finding

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Instances (2) [Info](#)

🔄

Connect

Instance state ▾

Actions ▾

Launch instances

▾

< 1 >

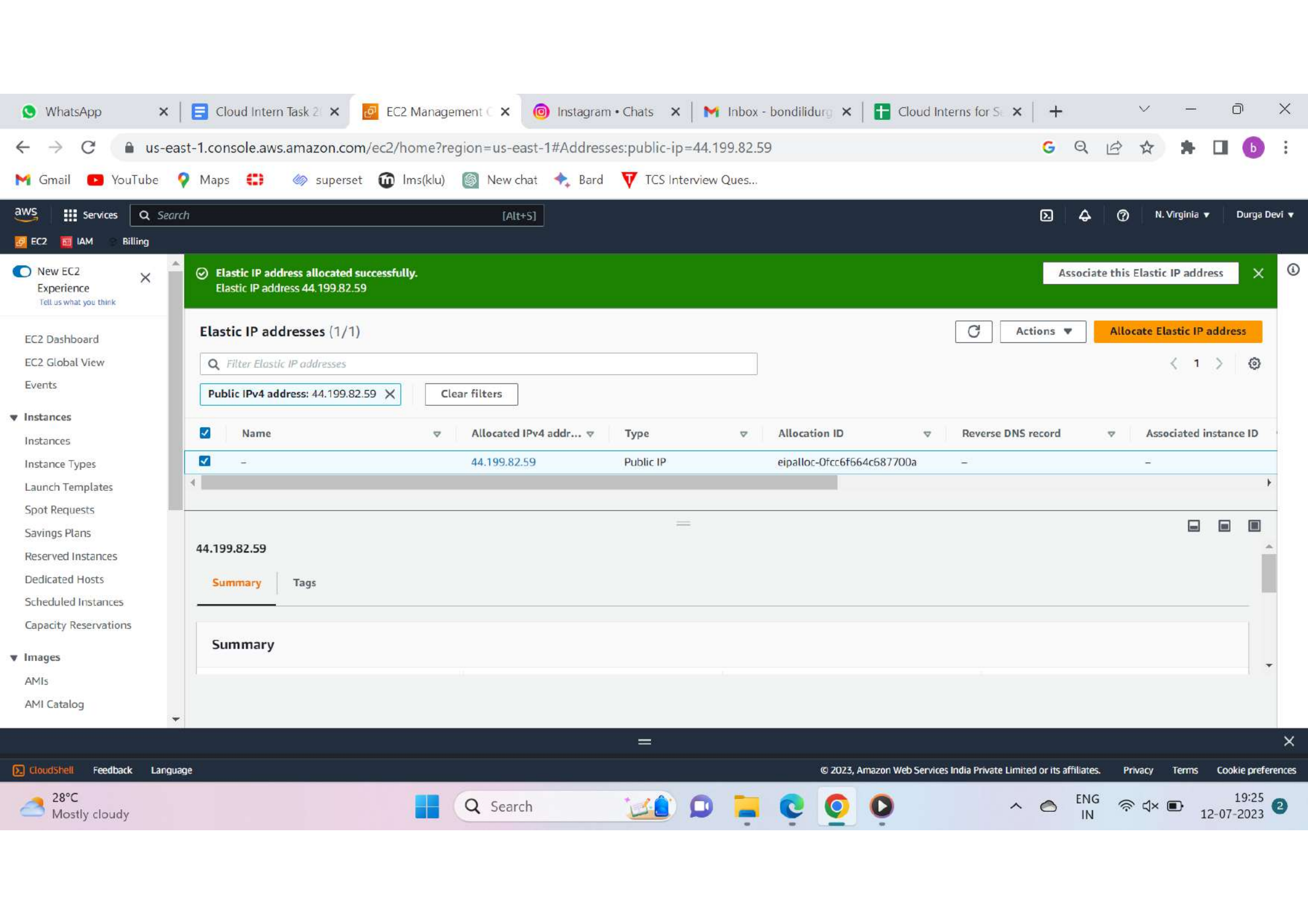
⚙️

<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	Public IPv4 DNS ▾	Public IPv4 ... ▾	Elastic IP ▾
<input type="checkbox"/>	window	i-0c117d4bb3042f253	✔️ Running 🔍 🔊	t2.micro	✔️ 2/2 checks passed	No alarms +	us-east-1e	ec2-100-26-214-91.co...	100.26.214.91	–
<input type="checkbox"/>	Linux	i-0a3aa199f6f79e2c9	✔️ Running 🔍 🔊	t2.micro	✔️ 2/2 checks passed	No alarms +	us-east-1e	ec2-44-199-82-59.com...	44.199.82.59	44.199.82.59

Select an instance

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	window	i-0c117d4bb3042f253	Running	t2.micro	2/2 checks passed	No alarms	us-east-1e	ec2-100-26-214-91.co...	100.26.214.91	-
<input type="checkbox"/>	Linux	i-0a3aa199f6f79e2c9	Running	t2.micro	2/2 checks passed	No alarms	us-east-1e	ec2-54-197-119-220.co...	54.197.119.220	-
<input type="checkbox"/>	-	i-0a756fcb7f8edfa4e	Stopping	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-3-236-91-211.com...	3.236.91.211	-
<input checked="" type="checkbox"/>	-	i-03d2f104469456d57	Stopping	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-18-212-136-165.co...	18.212.136.165	-

IPv6 address	Instance state	Public IPv4 DNS
-	Stopping	ec2-18-212-136-165.compute-1.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-39-74.ec2.internal	ip-172-31-39-74.ec2.internal	-
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
-	t2.micro	Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address	VPC ID	Auto Scaling Group name
18.212.136.165 [Public IP]	vpc-0eb0dec0b4b5c3e4f	MSG-1
IAM Role	Subnet ID	
-	subnet-009a4a7f2da895570	



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Elastic IP addresses | EC2 Manage

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

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Elastic IP addresses (1/1)

Filter Elastic IP addresses

<input checked="" type="checkbox"/>	Name	Allocated IPv4 address	Type	Allocation ID	Reverse	Instance ID
<input checked="" type="checkbox"/>	-	44.199.82.59	Public IP	eipalloc-0fcc6f664c687700a	-	-

44.199.82.59

SummaryTags

Summary

Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
44.199.82.59	Public IP	eipalloc-0fcc6f664c687700a	-

Actions

Allocate Elastic IP address

View details

Release Elastic IP addresses

Associate Elastic IP address

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Associate Elastic IP address

Choose the instance or network interface to associate to this Elastic IP address (44.199.82.59)

Elastic IP address: 44.199.82.59

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-0c117d4bb3042f253 (window) - running

i-0a3aa199f6f79e2c9 (Linux) - running

Choose a private IP address

Reassociation

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EC2 Management Console

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Addresses:public-ip=44.199.82.59

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Elastic IP address associated successfully.

Elastic IP address 44.199.82.59 has been associated with instance i-0a3aa199f6f79e2c9

Elastic IP addresses (1/1)

Filter Elastic IP addresses

Public IPv4 address: 44.199.82.59

Clear filters

	Name	Allocated IPv4 add...	Type	Allocation ID	Reverse DNS record	Associated instance ID	Private IP address
<input checked="" type="checkbox"/>	-	44.199.82.59	Public IP	eipalloc-0fcc6f664c687700a	-	i-0a3aa199f6f79e2c9	172.31.60.192

Summary

Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
44.199.82.59	Public IP	eipalloc-0fcc6f664c687700a	-
Association ID	Scope	Associated instance ID	Private IP address
eipassoc-0ad88286720b9d5e5	VPC	i-0a3aa199f6f79e2c9	172.31.60.192
Network interface ID	Network interface owner account ID	Public DNS	NAT Gateway ID
eni-0r7cr5af330bd4087	054312744402	er7-44-199-82-59.compute-1.amazonaws.com	-

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 New EC2 Experience
Tell us what you think

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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	Public IPv4 ...	Elastic IP
window	i-0c117d4bb3042f253	Running	t2.micro	2/2 checks passed	No alarms +	us-east-1e	ec2-100-26-214-91.co...	100.26.214.91	-
Linux	i-0a3aa199f6f79e2c9	Stopped	t2.micro	-	No alarms +	us-east-1e	ec2-44-199-82-59.com...	44.199.82.59	44.199.82.59

Instance: i-0a3aa199f6f79e2c9 (Linux)

- [Details](#) | [Security](#) | [Networking](#) | [Storage](#) | [Status checks](#) | [Monitoring](#) | [Tags](#)

▼ Instance summary [Info](#)

Instance ID
 i-0a3aa199f6f79e2c9 (Linux)

IPv6 address
-

Hostname type
IP name: ip-172-31-60-192.ec2.internal

Answer private resource DNS name
-

Auto-assigned IP address
-

Public IPv4 address
 44.199.82.59 | [open address](#)

Instance state
 Stopped

Private IP DNS name (IPv4 only)
 ip-172-31-60-192.ec2.internal

Instance type
t2.micro

VPC ID
 vpc-0eb0dec0b4b5c3e4f

Private IPv4 addresses
 172.31.60.192

Public IPv4 DNS
 ec2-44-199-82-59.compute-1.amazonaws.com | [open address](#)

Elastic IP addresses
 44.199.82.59 [Public IP]

AWS Compute Optimizer finding
[Opt-in to AWS Compute Optimizer for recommendations.](#) | [Learn more](#)

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

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Successfully started i-0a3aa199f6f79e2c9

Notifications 0 0 2 0 0 0

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	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	window	i-0c117d4bb3042f253	Running	t2.micro	2/2 checks passed	No alarms	us-east-1e	ec2-100-26-214-91.co...	100.26.214.91	-
<input checked="" type="checkbox"/>	Linux	i-0a3aa199f6f79e2c9	Running	t2.micro	Initializing	No alarms	us-east-1e	ec2-44-199-82-59.com...	44.199.82.59	44.199.82.59

Instance: i-0a3aa199f6f79e2c9 (Linux)

Details

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Instance summary Info

Instance ID

i-0a3aa199f6f79e2c9 (Linux)

IPv6 address

-

Hostname type

IP name: ip-172-31-60-192.ec2.internal

Answer private resource DNS name

Public IPv4 address

44.199.82.59 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-172-31-60-192.ec2.internal

Instance type

t2.micro

Private IPv4 addresses

172.31.60.192

Public IPv4 DNS

ec2-44-199-82-59.compute-1.amazonaws.com | open address

Elastic IP addresses

44.199.82.59 [Public IP]

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Elastic IP address associated successfully.

Elastic IP address 44.199.82.59 has been associated with instance i-Oa3aa199f6f79e2c9

Elastic IP addresses (1/1)

44.199.82.59

Summary

Tags

Summary

Allocate IPv4 address

Type

Allocation ID

Dissociate Elastic IP address

If you disassociate this Elastic IP address, you can reassociate it with a different resource. The Elastic IP address remains allocated to your account. You can have one Elastic IP (EIP) address associated with a running instance at no charge. If you associate additional EIPs with that instance, you will be charged for each additional EIP associated with that instance on a pro rata basis. Additional EIPs are only available in Amazon VPC. To ensure efficient use of Elastic IP addresses, we impose a small hourly charge when these IP addresses are not associated with a running instance or when they are associated with a stopped instance or unattached network interface.

Elastic IP address

44.199.82.59

Instance ID

i-Oa3aa199f6f79e2c9

Network interface ID

eni-0c7cc5af330bd4087

Cancel

Disassociate

Associated Instance ID

Private IP address

i-Oa3aa199f6f79e2c9

172.31.60.192

Reverse DNS record

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Elastic IP address disassociated successfully.

Elastic IP address 44.199.82.59

Elastic IP addresses (1/1)

44.199.82.59

Summary

Tags

Summary

Allocated IPv4 address

Type

Allocation ID

Reverse DNS record

Release Elastic IP addresses

Will be released

If you release the following Elastic IP addresses, they will no longer be allocated to your account and you can no longer associate them with your resources.

Name	IPv4 address	Allocation ID	Address type
-	44.199.82.59	eipalloc-0fcc6f654c587700a	Public

Cancel Release

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✓ Elastic IP addresses released.

Elastic IP addresses 44.199.82.59

Elastic IP addresses

Filter Elastic IP addresses

Name

Allocated IPv4 add...

Type

Allocation ID

Reverse DNS record

Associated instance ID

Private IP address

No Elastic IP addresses found in this Region

Allocate Elastic IP address

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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](#) 

Simplify permissions

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

Governance

Ensure best practices are used across your

New launch template

Create launch template

Documentation

[Documentation](#) [API reference](#)

Don't include in launch template

Metadata response hop limit [Info](#)

Don't include in launch template

Allow tags in metadata [Info](#)

Don't include in launch template

User data - optional [Info](#)

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

Choose file

```
#!/bin/bash
yum update -y
yum install -y httpd
systemctl start httpd
systemctl enable httpd
EC2AZ=$(TOKEN=`curl -X PUT "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
```

☐ User data has already been base64 encoded

Summary

Software Image (AMI)

Amazon Linux 2023 AMI 2023.1.2...[read more](#)

ami-06ca3ca175f37dd66

Virtual server type (instance type)

t2.micro


Firewall (security group)

launch-wizard-1

Storage (volumes)

1 volume(s) - 8 GiB

Cancel Create launch template

**Success**
Successfully created MyLT (lt-0ab836a5bd7205aff)
[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

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Launch templates (1) Info

Filter by tags or properties or search by keyword

Launch template ID	Launch template name	Default version	Latest version	Create time
lt-Dab836a5bd7205aff	MyLT	1	1	2023-07-13T15:27:19.000Z

Select a launch template

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

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

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

[Create a launch template version](#)

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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

Choose instance launch options

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

Network

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-0eb0dec0b4b5c3e4f

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-009a4a7f2da895570

172.31.32.0/20 Default

us-east-1b | subnet-084ef1d6d3ad3e3fc

172.31.0.0/20 Default

[Create a subnet](#)

Instance type requirements

You can keep the same instance attributes or instance type from your launch template, or you can override the instance type and attributes.

Override launch template

EC2 > Auto Scaling groups

Auto Scaling groups (1) Info

Search your Auto Scaling groups

Launch configurations Launch templates Actions Create Auto Scaling group

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

0 Auto Scaling groups selected