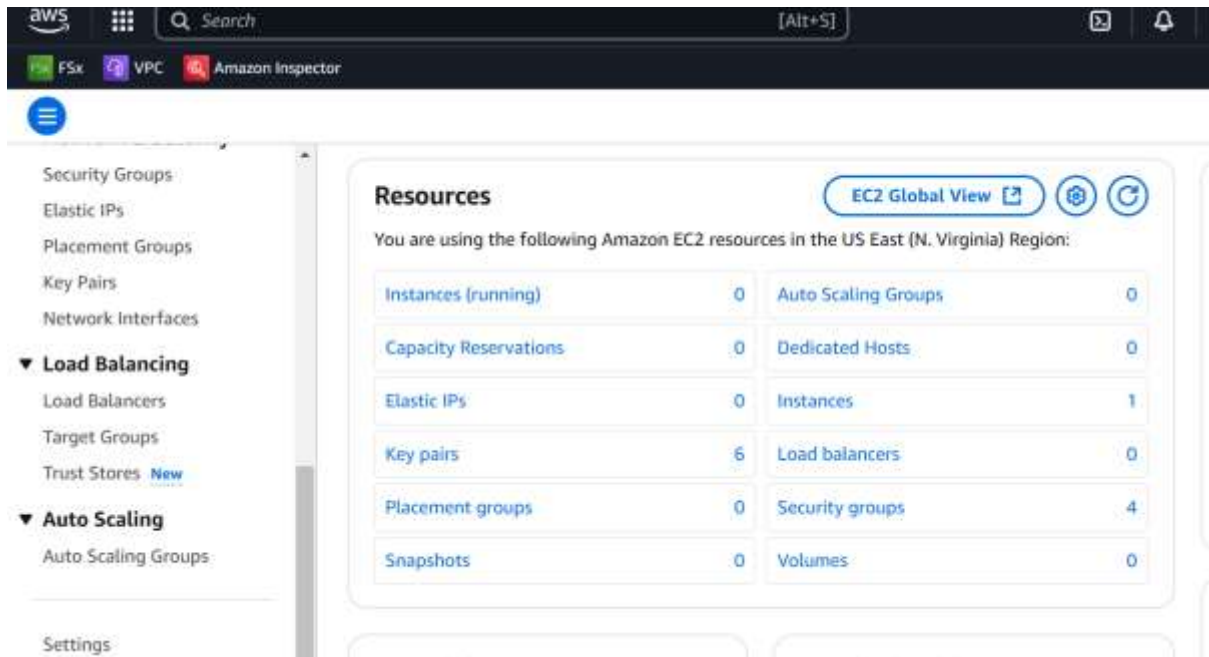


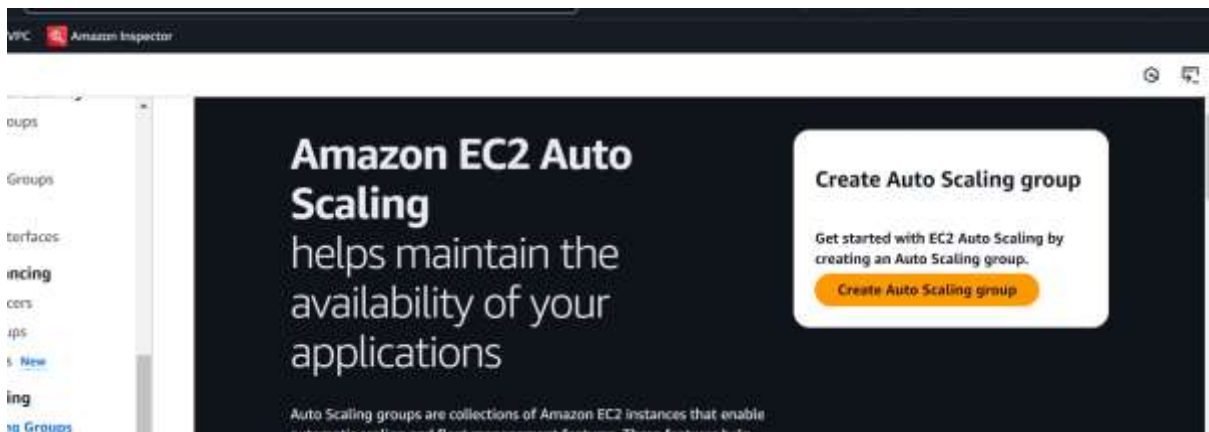
Lab :Autoscaling group

Steps to create Launch Configuration

Navigate to the following page to create a launch configuration.



Create Autoscaling group



Provide a name

Launch options

Other services

Size and scaling

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](#)

 For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with

Click on create a launch template

Launch template [Info](#)

 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](#) 

[Cancel](#)

[Next](#)

Create launch template

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

Launch template name and description

Launch template name - *required*

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

Template version description

Max 255 chars

Click on Quick start and select aws linux

▼ **Application and OS Images (Amazon Machine Image) - required** [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

Search our full catalog including 1000s of application and OS images

Recents **Quick Start**

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux

Amazon Linux
aws

macOS
Mac

ubuntu

Microsoft

Red Hat

SUSE

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI
ami-0c614dee691cbbf37 (64-bit (x86), uefi-preferred) / ami-0b29c89c15cfb8a6d (64-bit (Arm), uefi)

Free tier eligible

Select instance type

▼ **Instance type** [Info](#) | [Get advice](#) [Advanced](#)

Instance type

t2.nano
Family: t2 1 vCPU 0.5 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.0058 USD per Hour
On-Demand SUSE base pricing: 0.0058 USD per Hour
On-Demand Windows base pricing: 0.0081 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0076 USD per Hour

☐ All generations

[Compare instance types](#)

Additional costs apply for AMIs with pre-installed software

Rest parameters, such as keypair, network you can keep it default and create Launch template

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.

☒ Select existing security group ☐ Create security group

Security groups [Info](#)

Select security groups

[Compare security group rules](#)

► **Advanced network configuration**

▼ **Storage (volumes)** [Info](#)

EBS Volumes [Hide details](#)

► Volume 1 (AMI Root) (8 GiB, EBS, General purpose SSD (gp3), 3000 IOPS)
AMI Volumes are not included in the template unless modified

▼ **Summary**

Software Image (AMI)
Amazon Linux 2023 AMI 2023.5.2...[read more](#)
ami-0c614dee691cbbf37

Virtual server type (instance type)
t2.nano

Firewall (security group)
-

Storage (volumes)
1 volume(s) - 8 GiB

[Cancel](#) [Create launch template](#)

Select your launch template

For instances 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.

mytemplate

[Create a launch template](#)

Version
Default (1)

[Create a launch template version](#)

Description	Launch template	Instance type
	mytemplate	t2.nano

Select vpc and network

For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across them. 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-02d25356c06c8e854
172.30.0.0/16

[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-0ed92042d81040bde
172.30.0.0/24
- us-east-1b | subnet-0baf3b76a8f33074f
172.30.1.0/24
- us-east-1c | subnet-0f211779e4a0c55ea
172.30.2.0/24

No LB

late

Integrate with other services - optional [Info](#)

Use a load balancer to distribute network traffic across multiple servers. Enable service-to-service communications with VPC Lattice. Shift resources away from impaired Availability Zones with zonal shift. You can also customize health check replacements and monitoring.

nd options

r services

: and scaling

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 configuration

Capacity

new Auto Scaling group

9

Group size [Info](#)

Set the initial size of the Auto Scaling group. After creating the group, you can change its size to meet demand, either manually or using automatic scaling.

Desired capacity type

Choose the unit of measurement for the desired capacity value. vCPUs and Memory(GiB) are only supported for mixed instances groups configuration of instance attributes.

Units (number of instances)

Desired capacity

Specify your group size.

1

You can set up other metric-based scaling policies and scheduled scaling after creating your Auto Scaling group.

☐ No scaling policies

Your Auto Scaling group will remain at its initial size and will not dynamically resize to meet demand.

☒ Target tracking scaling policy

Choose a CloudWatch metric and target value and let the scaling policy adjust the desired capacity in proportion to the metric's value.

Scaling policy name

Target Tracking Policy

Metric type [Info](#)

Monitored metric that determines if resource utilization is too low or high. If using EC2 metrics, consider enabling detailed monitoring for better scaling performance.

Average CPU utilization

Target value

50

Instance warmup [Info](#)

300 seconds

Policy

maximum instance lifetime features and events that happen automatically to keep your group balanced, called rebalancing events.

Choose a replacement behavior depending on your availability requirements

Mixed behavior

☒ **No policy**
For rebalancing events, new instances will launch before terminating others. For all other events, instances terminate and launch at the same time.

Prioritize availability

☐ **Launch before terminating**
Launch new instances and wait for them to be ready before terminating others. This allows you to go above your desired capacity by a given percentage and may temporarily increase costs.

Control costs

☐ **Terminate and launch**
Terminate and launch instances at the same time. This allows you to go below your desired capacity by a given percentage and may temporarily reduce availability.

Flexible

☐ **Custom behavior**
Set custom values for the minimum and maximum amount of available capacity. This gives you greater flexibility in setting how far below and over your desired capacity EC2 Auto Scaling goes when replacing instances.

Notification

Step 1: Choose launch template
Step 2: Choose instance launch options
Step 3 - optional: Integrate with other services
Step 4 - optional: Configure group size and scaling
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.

Notification 1 [Remove](#)

SNS Topic
Choose an SNS topic to use to send notifications.

[Create a topic](#)

Event types
Notify subscribers whenever instances:
☒ Launch
☒ Terminate
☒ Fail to launch

Tags

EC2 > Auto Scaling groups > Create Auto Scaling group

Choose launch template
Step 2: Choose instance launch options
Step 3 - optional: Integrate with other services
Step 4 - optional: Configure group size and scaling
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.

Tags (0)
[Add tag](#)
50 remaining



[Cancel](#) [Previous](#) [Next](#)

Click on Create autoscaling group

- Choose launch template
- Step 2
- Choose instance launch options
- Step 3 - optional
- Integrate with other services
- Step 4 - optional
- Configure group size and scaling
- 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.

 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. 

Tags (0)

[Add tag](#)

50 remaining

[Cancel](#)

[Previous](#)

[Next](#)

