

ASSIGNMENT-4

CREATING LAUNCH TEMPLATE

Subscription Details | StackRoute | Create Auto Scaling group | EC2 | Create launch template | EC2 M... | Target groups | EC2 Managemen... | +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#CreateTemplate:autoScalingGuidance=true

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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

mytemp1

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

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Quick Start

Amazon Linux Ubuntu Windows Red Hat SUSE Linux macOS

aws ubuntu Microsoft Red Hat SUSE

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-02d1e544b84bf7502 (64-bit (x86)) / ami-03e57de632660544c (64-bit (Arm))

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

Free tier eligible

Description

Amazon Linux 2 Kernel 5.10 AMI 2.0.20220606.1 x86_64 HVM gp2

Architecture 64-bit (x86)

AMI ID ami-02d1e544b84bf7502

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The screenshot shows the AWS Management Console interface for the 'us-east-2' region. The browser tabs include 'Subscription Details | StackRoute', 'Create Auto Scaling group | EC2', 'Create launch template | EC2 M...', and 'Target groups | EC2 Management'. The URL is 'us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#CreateTemplate:autoScalingGuidance=true'. The 'Network settings' section is expanded, showing options for 'Subnet' (set to 'Don't include in launch template') and 'Firewall (security groups)'. Under 'Firewall (security groups)', the 'Select existing security group' option is chosen, and a dropdown menu shows 'default sg-088b0b2e024701a9d' and 'VPC: vpc-01bdc9f8fe8f25f17'. The 'Configure storage' section is partially visible below. The bottom of the screen shows the Windows taskbar with the search bar and system tray.

The screenshot shows the AWS Management Console interface for the 'us-east-2' region, specifically the 'Launch templates' page. The browser tabs include 'Subscription Details | StackRoute', 'Create Auto Scaling group | EC2', 'Launch templates | EC2 Management', and 'Target groups | EC2 Management'. The URL is 'us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchTemplates'. The left sidebar shows the 'EC2 Dashboard' and 'Instances' section, with 'Launch Templates' highlighted. The main content area shows a table of launch templates. The table has columns for 'Launch template ID', 'Launch template name', and 'Default version'. There is one entry with ID 'lt-072926926c54382a5', name 'mytemp1', and default version '1'. The 'Create launch template' button is visible in the top right. The bottom of the screen shows the Windows taskbar with the search bar and system tray.

Launch template ID	Launch template name	Default version
lt-072926926c54382a5	mytemp1	1

ASSIGNMENT-4

AUTO SCALING CONFIGURATION

Subscription Details | StackRoute | Create Auto Scaling group | EC2 | Launch templates | EC2 Management | Target groups | EC2 Management

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#CreateAutoScalingGroup:

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▼ Network & Security

- Security Groups
- Elastic IPs
- Placement Groups
- Key Pairs
- Network Interfaces

▼ Load Balancing

- Load Balancers
- Target Groups New

▼ Auto Scaling

- Launch Configurations
- Auto Scaling Groups

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

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.

Myautos

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.

mytemp1

[Create a launch template](#)

Version
Default (1)

Subscription Details | StackRoute | Create Auto Scaling group | EC2 | Launch templates | EC2 Management | Target groups | EC2 Management

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#CreateAutoScalingGroup:

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Step 6 (optional) Add tags

Step 7 Review

Attach to an existing load balancer

Select the load balancers that you want to attach to your Auto Scaling group.

☒ Choose from your load balancer target groups
This option allows you to attach Application, Network, or Gateway Load Balancers.

☐ Choose from Classic Load Balancers

Existing load balancer target groups
Only instance target groups that belong to the same VPC as your Auto Scaling group are available for selection.

Select target groups

Mytarget1 | HTTP
Application Load Balancer: Hi-lb

Health checks - optional

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us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#CreateAutoScalingGroup

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Load Balancers
Target Groups **New**

▼ Auto Scaling
Launch Configurations
Auto Scaling Groups

you can enable ELB health checks in addition to the EC2 health checks that are always enabled.
☒ EC2 ☒ ELB

Health check grace period
The amount of time until EC2 Auto Scaling performs the first health check on new instances after they are put into service.
300 seconds

Additional settings - optional

Monitoring [Info](#)
☐ Enable group metrics collection within CloudWatch

Default instance warmup [Info](#)
The amount of time that CloudWatch metrics for new instances do not contribute to the group's aggregated instance metrics, as their usage data is not reliable yet.
☐ Enable default instance warmup

Cancel Previous Skip to review **Next**

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▼ Load Balancing
Load Balancers
Target Groups **New**

▼ Auto Scaling
Launch Configurations
Auto Scaling Groups

Configure group scaling policies

Step 5 (optional)
Add notifications

Step 6 (optional)
Add tags

Step 7
Review

Desired capacity type
Choose the unit of measurement for the desired capacity value. By default, the desired capacity is measured in number of instances (units).
Units

Desired capacity
1

Minimum capacity
2

Maximum capacity
3

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 None

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Scaling policy name: Target Tracking Policy

Metric type: Average CPU utilization

Target value: 60

Instances need: 300 seconds warm up before including in metric

☐ Disable scale in to create only a scale-out policy

Instance scale-in protection - optional

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- Auto Scaling Groups

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

Review Info

Step 1: Choose launch template or configuration Edit

Group details

Auto Scaling group name: Myautosc

Launch template

Launch template	Version	Description
mytemp1	Default	

Step 2: Choose instance launch options Edit

Network

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Step 7 Review

Network

VPC
vpc-01bdc9f8fe8f25f17

Availability Zone	Subnet
us-east-2b	subnet-0dda7a457f4a76e46 172.31.16.0/20

Instance type requirements

vCPUs	Memory (GiB)
0 minimum	0 minimum
No maximum	No maximum

Instance purchase options

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Step 3: Configure advanced options

Instance purchase options

Instances distribution 40 % On-Demand 60 % Spot	Include On-Demand base capacity Designate the first 0 instances as On-Demand
---	---

Allocation strategies

On-Demand allocation strategy Lowest price	Spot allocation strategy Capacity optimized Prioritize instance types Off Capacity rebalance On
---	--

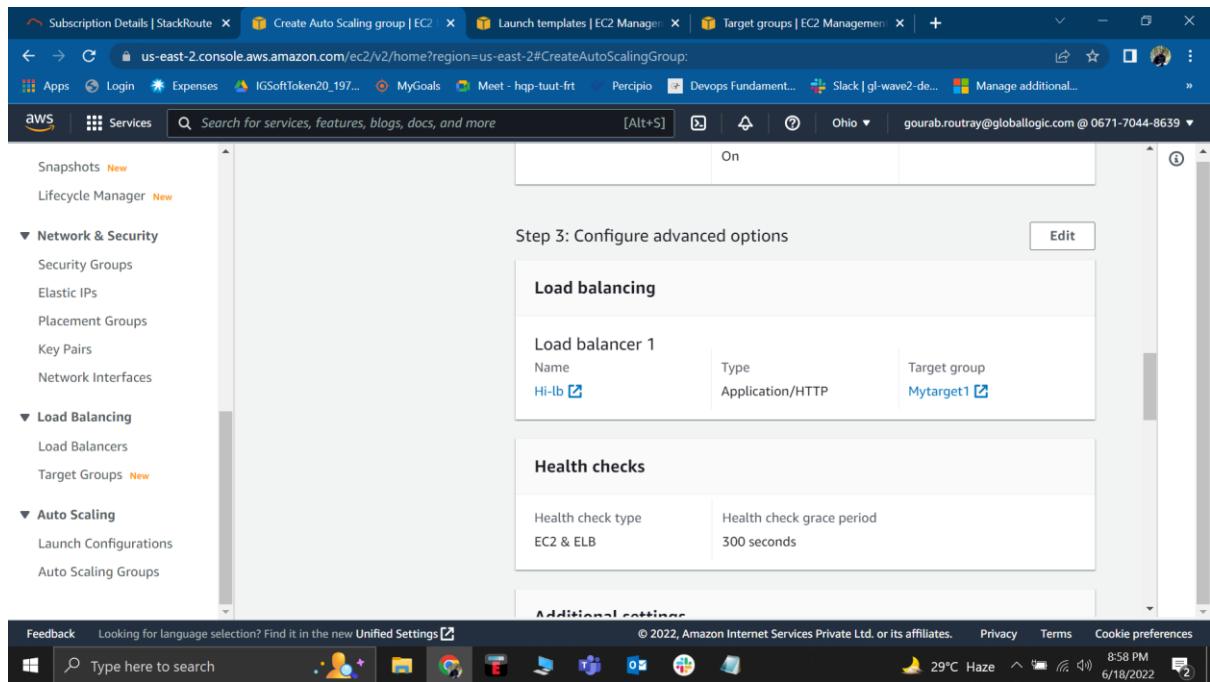
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AUTOSCALING GROUP CREATED AFTER THIS STEP

