

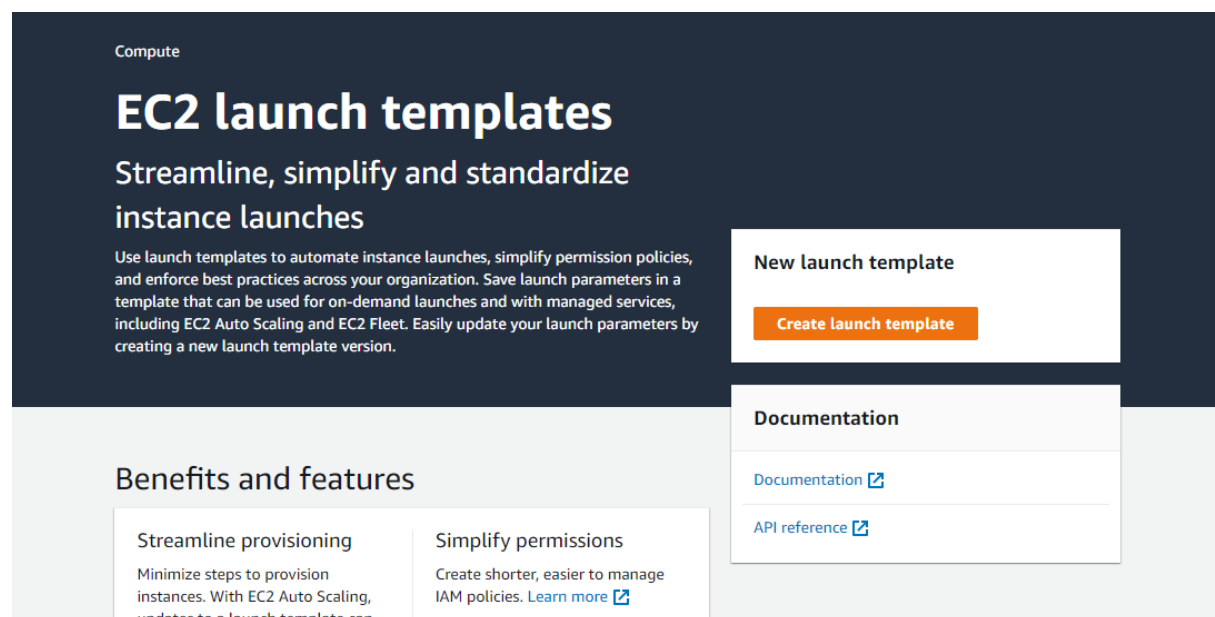
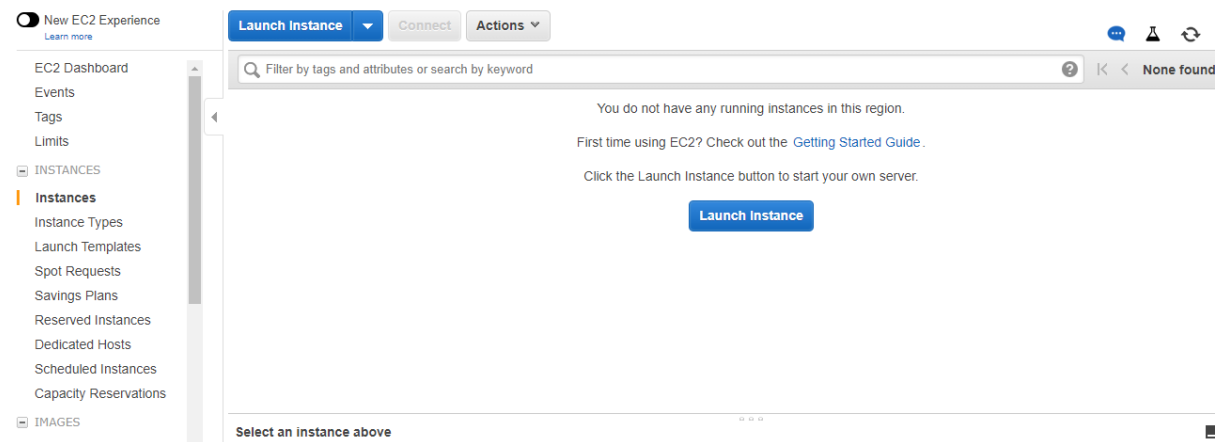
ABC Corporation wants to use Application Load Balancer using AutoScaling to host their website-1.

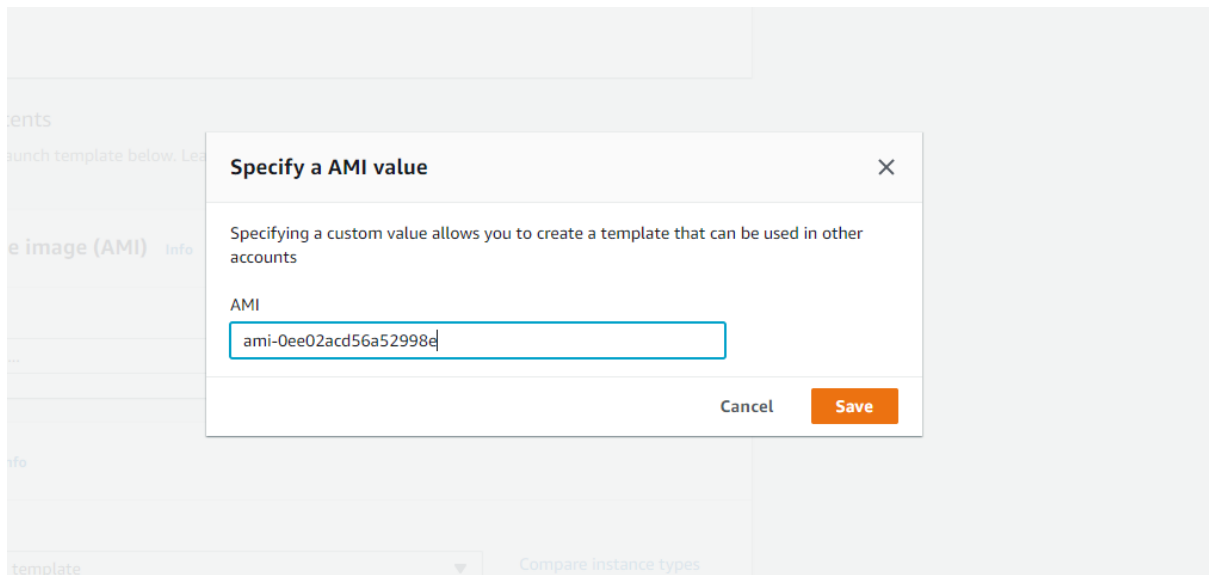
Since they knew already traffic to this website will be more at any point in time. They want to run 4 servers parallelly with the same website and loadbalance during the time of request from the client.

As a cloud architect , please configure the required infra for ABC corporates and ensure atleast four servers will be running all the time.

Step 1: Use the same VPC created in Network Load Balancer

Step 2: Create Instance Template





AMI

ami-0ee02acd56a52998e

▼ Instance type [Info](#)

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory

On-Demand Linux pricing: 0.0116 USD per Hour

On-Demand Windows pricing: 0.0162 USD per Hour

Free tier eligible

▼

[Compare instance types](#)

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name

akey

▼

[Create new key pair](#)

▼ Resource tags [Info](#)

No resource tags are currently included in this template. Add a resource tag to include it in the launch template.

Add tag

50 remaining (Up to 50 tags maximum)

▼ Network interfaces [Info](#)

No network interfaces are currently included in this template. Add a network interface to include it in the launch template.

Add network interface

► Advanced details [Info](#)

Cancel

Create launch template

EC2 > Launch templates > Create launch template

✓ Success

Successfully created [MyTemp \(lt-064b96669eac82e87\)](#)

► 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

Step 3: Configure Autoscaling group with desired number of instances 4 min-4 and max-6

Snapshots

Lifecycle Manager

Network & Security

Security Groups New

Elastic IPs New

Placement Groups

Key Pairs

Network Interfaces New

Load Balancing

Load Balancers

Target Groups New

Auto Scaling

Launch Configurations

Auto Scaling Groups

The old Launch Templates console is no longer available. We will keep improving the new console based on your feedback.

EC2 > Launch templates

Launch templates (1/1) Info

Actions

Create launch template

Filter by tags or properties or search by keyword

Launch template ID	Launch template name	Default version	Latest version
lt-064b96669eac82e87	MyTemp	1	1

Amazon EC2 Auto Scaling

helps maintain the availability of your applications

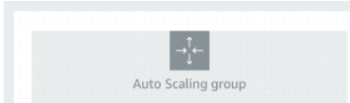
Auto Scaling groups are collections of Amazon EC2 instances that enable automatic scaling and fleet management features. These features help you maintain the health and availability of your applications.

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.

Step 2

Configure settings

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

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

TestAuto

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.

MyTemp

Create a launch template

Version

Default (1)

Create a launch template version

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

vpc-0d13a59701255a209 (rdsvpc) ▼

us-east-1a | subnet-0c42a87b6a59252df (rdssub2)
10.50.2.0/24

us-east-1d | subnet-0b636a1c0f227ca5b (rdssub1)
10.50.1.0/24

Select subnets ▲



us-east-1a | subnet-0c42a87b6a59252df (rdssub2)
10.50.2.0/24 X

[Create a subnet](#)

Configure advanced options [Info](#)

Choose a load balancer to distribute incoming traffic for your application across instances to make it more reliable and easily scalable. You can also set options that give you more control over health check replacements and monitoring.

Load balancing - optional [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.

Load balancer type

Choose from the load balancer types offered below. Type selection cannot be changed after the load balancer is created. If you need a different type of load balancer than those offered here, [visit the Load Balancing console](#).

☒ Application Load Balancer
HTTP, HTTPS

☐ Network Load Balancer
TCP, UDP, TLS

Load balancer name

Name cannot be changed after the load balancer is created.

TestAuto-1

Load balancer scheme

Scheme cannot be changed after the load balancer is created.

☐ Internal

☒ Internet-facing

Network mapping

Your new load balancer will be created using the same VPC and Availability Zone selections as your Auto Scaling group. You can select different subnets and add subnets from additional Availability Zones.

VPC

vpc-0d13a59701255a209 [🔗](#) rdsvpc

Availability Zones and subnets

You must select a single subnet for each Availability Zone enabled. Only public subnets are available for selection to support DNS resolution.

☒ us-east-1a

subnet-0c42a87b6a59252df ▼

☒ us-east-1d

subnet-0b636a1c0f227ca5b ▼

Listeners and routing

If you require secure listeners, or multiple listeners, you can configure them from the [Load Balancing console](#) [🔗](#) after your load balancer is created.

Protocol

HTTP

Port

80

Default routing (forward to)

Create a target group ▼

New target group name

An instance target group with default settings will be created.

TestAuto-1

Tags - optional

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

2

Minimum capacity

2

Maximum capacity

4

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 leave it to the scaling policy to add and remove capacity as needed to achieve that outcome.

☒ None

Instance scale-in protection - *optional*

Instance scale-in protection

If protect from scale in is enabled, newly launched instances will be protected from scale in by default.

☐ Enable instance scale-in protection

Cancel

Previous

Skip to review

Next

▼ Notification 1

Remove

Send a notification to:

swarna

With these recipients:

testdev@gmail.com

Use existing topic

Event types

Notify subscribers whenever instances

☒ Launch

☒ Terminate

Review

Notifications

Notification 1
SNS Topic
swarna (testdev@gmail.com)

Event types
☒ Launch
☒ Terminate
☒ Fail to launch
☒ Fail to terminate

Step 6: Add tags

Edit

Tags (0)

Key	Value	Tag new instances
No tags		

Cancel

Create Auto Scaling group

AutoScaling Group creates successfully.

The old Auto Scaling groups console is no longer available. We will keep improving the new console based on your feedback.

Capacity-Optimized Allocation Strategy for Spot Instances
Learn how Skyscanner and Mobileye used the capacity-optimized allocation strategy to lower Spot interruptions.

TestAuto, 1 Topic, 1 Subscription, 1 Notification, 1 Load balancer, 1 Target group, 1 Listener created successfully. 1 new target group has been attached to ASG.

EC2 > Auto Scaling groups

Auto Scaling groups (1)

Refresh


Edit

Delete

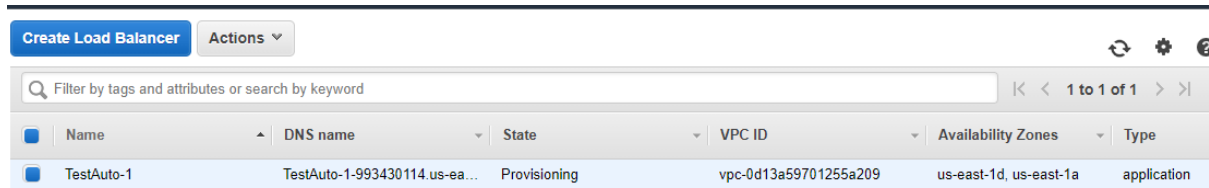
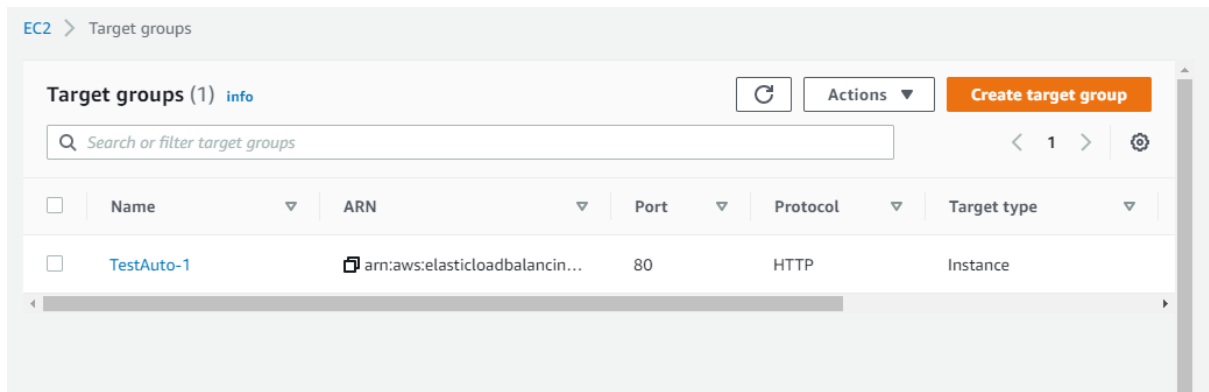
Create an Auto Scaling group

Search your Auto Scaling groups

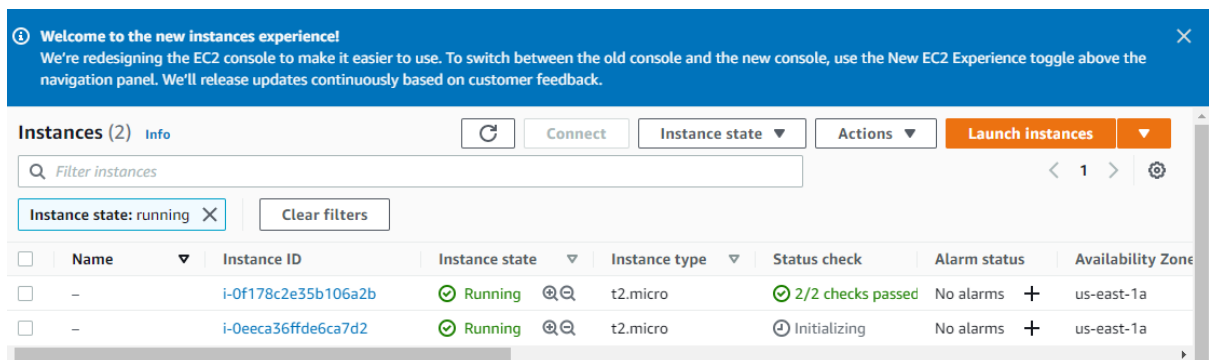
< 1 > ⚙

<input type="checkbox"/>	Name ▾	Launch template/configuration  ▾	Instances ▾	Status ▾	Desired capacity ▾	Min ▾
<input type="checkbox"/>	TestAuto	MyTemp Version Default	0	Updating capacity	2	2

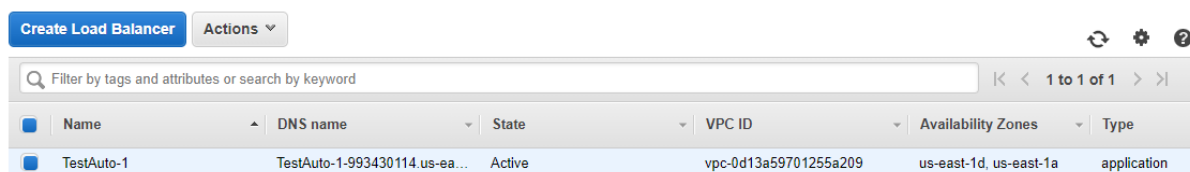
Please check Target Group and LoadBalancer and EC2 instances as you specified in desired capacity would have got created.



You could see desired number of instances running.





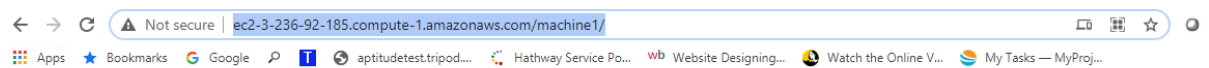
LoadBalancer turns active



Copy the DNS name of loadbalancer and paste in the browser window.

Wait for few minutes . You could see the load balancing happening between 2 autoscaled machine.

Description	Listeners	Monitoring	Integrated services	Tags
Basic Configuration				
Name	TestAuto-1			
ARN	arn:aws:elasticloadbalancing:us-east-1:937145466380:loadbalancer/app/TestAuto-1/29cab46b30aba60a 			
DNS name	TestAuto-1-993430114.us-east-1.elb.amazonaws.com  (A Record)			
State	Active			
Type	application			
Scheme	internet-facing			



Hello from ip-10-50-1-190 vm.

I am from Machine-1

This is my first my first website

CleapUP

Delete AutoScaling Group

Delete LoadBalancers

Delete TargetGroup