

Auto Scaling in AWS

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Course. : Auto Scaling Hands On

work 1:

CREATE AN AUTOSCALING USING A LAUNCH TEMPLATE TO DEPLOY APACHE ON AN UBUNTU EC2

Create a launch template with a name such as MyUbuntuLaunchTemplate.

Leverage an Ubuntu Server 18.04 LTS (HVM).

Use the Apache web server configuration below:

LAUNCH TEMPLATE

The screenshot displays the AWS Management Console interface for a Launch Template. The browser address bar shows the URL: `us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchTemplateDetails:launchTemplateId=lt-08139160c560276b5`. The console page title is "MyUbuntuLaunchTemplate (lt-08139160c560276b5)".

Launch template details

Launch template ID	Launch template name	Default version	Owner
lt-08139160c560276b5	MyUbuntuLaunchTemplate	1	arn:aws:iam::867468445868:user/admin_user_nov_2024

Launch template version details

Version	Description	Date created	Created by
1 (Default)	v2	2025-06-23T02:44:37.000Z	arn:aws:iam::867468445868:user/admin_user_nov_2024

Instance details

AMI ID	Instance type	Availability Zone	Key pair name
ami-064121d40622dc2df	t2.micro	-	ubuntukey

Storage

Storage
-

Resource tags

Resource tags
-

Network interfaces

Network interfaces
-

Advanced details

Security group IDs
sg-047843c75da1fbc8e

NB: Make sure to test the script manually before passing it to user data

User Data script wasn't working so i needed to update correct it to this

```
#!/bin/bash
```

```
sudo apt-get update
```

```
sudo apt-get install -y apache2
```

```
echo "Welcome to my autoscaled website" | sudo tee /var/www/html/index.html
```

```
sudo systemctl start apache2
```

```
sudo systemctl enable apache2
```

AutoScaling Group

The screenshot displays the AWS Management Console interface for an Auto Scaling Group (ASG) named 'MyUbuntuautoscalingG' in the 'us-east-1' region. The console shows the following details:

- Capacity overview:** Shows a desired capacity of 2 instances, scaling limits from 1 to 4, and a status of 'In Service'. It also indicates the date created as Mon Jun 23 2025 00:22:35 GMT-0230 (Newfoundland Daylight Time).
- Launch template:** Details the launch template 'MyUbuntuLaunchTemplate' (ID: lt-08139160-560276b5), AMI ID 'ami-064121d40622dc2df', instance type 't2.micro', security group 'sg-047845c75da1fbc8e', and key pair 'ubuntukey'. It also shows the owner 'arn:aws:iam::867468445868:user/admin_user_nov_2024' and creation time 'Mon Jun 23 2025 00:14:37 GMT-0230 (Newfoundland Daylight Time)'. The request spot instances are set to 'No'.
- Network:** Shows the availability zones 'us-east-1a' and 'us-east-1b', subnet IDs 'subnet-0e4efb3ab81605ec3' and 'subnet-03512a92a6c974292', and an availability zone distribution of 'Balanced best effort'.
- Instance type requirements:** States that the ASG adheres to the launch template for purchase option and instance type.

The left sidebar shows the navigation menu with categories like EC2, Images, Elastic Block Store, Network & Security, Load Balancing, and Auto Scaling. The top navigation bar includes the AWS logo, search bar, and user information.

EC2 dashboard

EC2

Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

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

Target Groups

Trust Stores

Auto Scaling

Auto Scaling Groups

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;\$case=tags:true%5C,client:false;\$regex=tags:false%5C,client:false

Search

United States (N. Virginia)

admin_user_nov_2024 @ techietchie

Instances (1/5)

Find Instance by attribute or tag (case-sensitive)

All states

Last updated 1 minute ago

Connect

Instance state

Actions

Launch instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IPv6 IPs
	i-05d0218a297851811	Terminated	t2.micro		View alarms +	us-east-1b				
	i-0ffb95b3835094996	Running	t2.micro	Initializing	View alarms +	us-east-1b	ec2-54-173-108-250.co...	54.173.108.250		
	i-08da5d0c3bed5efc3	Terminated	t2.micro		View alarms +	us-east-1a				
	i-07867fb9221c58ec3	Terminated	t2.micro		View alarms +	us-east-1a				
Unbuntun_Ins...	i-0686a5e87e4c41cdc	Running	t2.micro	2/2 checks pass	View alarms +	us-east-1a	ec2-54-234-154-197.co...	54.234.154.197		

i-0686a5e87e4c41cdc

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

Instance summary

Instance ID

IPv6 address

Hostname type

IP name

Answer private resource DNS name

Auto-assigned IP address

IAM Role

IMDSv2

Public IPv4 address

Instance state

Private IP DNS name

Instance type

VPC ID

Subnet ID

Instance ARN

Private IPv4 addresses

Public DNS

Elastic IP addresses

AWS Compute Optimizer finding

Auto Scaling Group name

Managed

CloudShell

Feedback

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Message Displayed

Not Secure

ec2-54-234-154-197.compute-1.amazonaws.com

Finish update

Gmail

YouTube

Maps

Welcome to my autoscaled website