

Description:

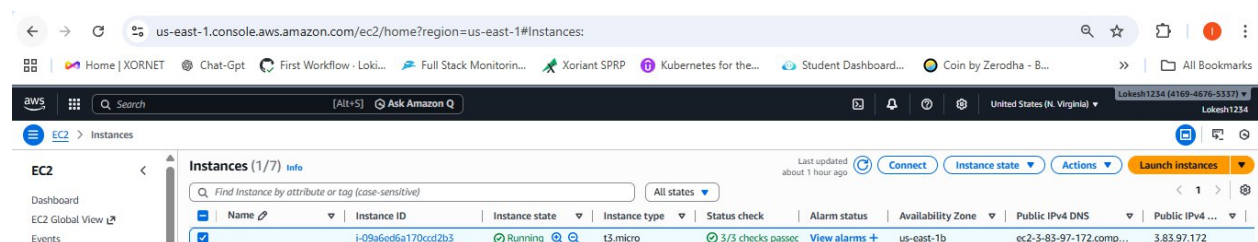
Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing capacity in the Amazon Web Services (AWS) cloud. Using Amazon EC2 eliminates your need to invest in hardware up front so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. Amazon EC2 enables you to scale up or down to handle changes in requirements or spikes in popularity, reducing your need to forecast traffic.

Problem Statement:

Company ABC wants to move their product to AWS. They have the following things set up right now: 1. MySQL DB 2. Website (PHP) The company wants high availability on this product, therefore wants Auto Scaling to be enabled on this website.

Steps To Solve:

1. Launch an EC2 Instance
2. Enable Auto Scaling on these instances (minimum 2)
3. Create an RDS Instance
4. Create Database & Table in RDS instance:
 - a. Database name: intel
 - b. Table name: data
 - c. Database password: intel123
5. Change hostname in website
6. Allow traffic from EC2 to RDS instance
7. Allow all-traffic to EC2 instance



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

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EC2 > Auto Scaling groups

Auto Scaling groups (2) info

Search your Auto Scaling groups

Launch configurations Launch templates Actions Create Auto Scaling group

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability Zones	Creation...
capstone-project1- AutoScalingGroup-nbHw1hPc4	LaunchTemplate_O9CW9E3ZType	2	-	2	2	4	2 Availability Zones	Sun Feb 1...

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

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Aurora and RDS > Databases

Aurora and RDS

Databases (1)

Filter by databases

Group resources Modify Actions Create database

DB identifier	Status	Role	Engine	Upgrade rollout ...	Region & AZ	Size
capstone-project1-rdsinstance-h2a1z5gz8n8p	Available	Instance	MySQL Community	SECOND	us-east-1a	db.t3.micro

```
mysql> CREATE DATABASE intel;
ERROR 1007 (HY000): Can't create database 'intel'; database exists
mysql> USE intel;
Database changed
mysql> CREATE TABLE data (
  ->   id INT AUTO INCREMENT PRIMARY KEY,
  ->   name VARCHAR(100),
  ->   value VARCHAR(100)
  -> );
Query OK, 0 rows affected (0.05 sec)
```

```
Package php8.5-common-8.5.1-1.amzn2023.0.1.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-100-89 ~]$ php -v
PHP 8.5.1 (cli) (built: Dec 16 2025 15:59:07) (NTS gcc x86_64)
Copyright (c) The PHP Group
Built by Amazon Linux
Zend Engine v4.5.1, Copyright (c) Zend Technologies
    with Zend OPcache v8.5.1, Copyright (c), by Zend Technologies
[ec2-user@ip-172-31-100-89 ~]$ sudo dnf install -y httpd
Last metadata expiration check: 0:44:05 ago on Sun Feb 15 15:18:27 2026.
Package httpd-2.4.66-1.amzn2023.0.1.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-100-89 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-100-89 ~]$ sudo systemctl enable httpd
[ec2-user@ip-172-31-100-89 ~]$ sudo systemctl restart httpd
[ec2-user@ip-172-31-100-89 ~]$ sudo nano /var/www/html/info.php
[ec2-user@ip-172-31-100-89 ~]$ cd /var/www/html/
[ec2-user@ip-172-31-100-89 html]$ ls -ltr
total 0
[ec2-user@ip-172-31-100-89 html]$ vi index.html
[ec2-user@ip-172-31-100-89 html]$ pwd
/var/www/html
[ec2-user@ip-172-31-100-89 html]$ sudo chmod -R 775 /var/www/html
```

⚠ Not secure

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Connected successfully to RDS!