Lesson 03 Demo 10

Configuring Manual and Dynamic Scaling

Objective: To configure manual and dynamic scaling for an application using Amazon Web Services (AWS) tools and services for optimized resource management and performance

Tools required: AWS Workspace

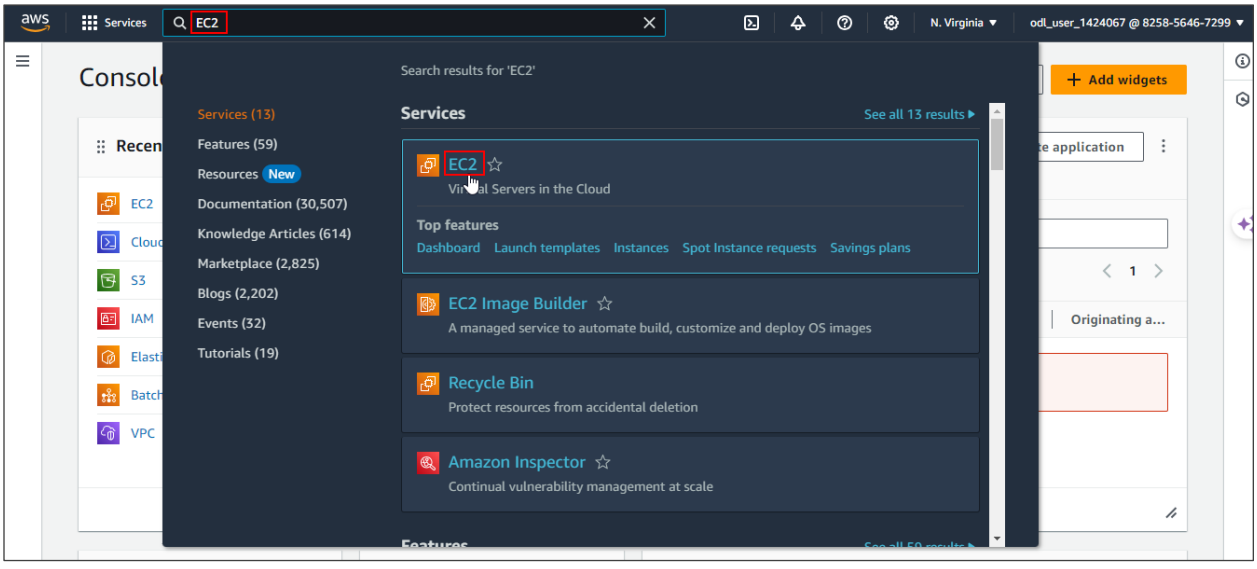
Prerequisites: Create an EC2 instance named S3

Steps to be followed:

1. Set up a predefined auto-scaling group
2. Set up EC2 Auto Scaling with a Load Balancer

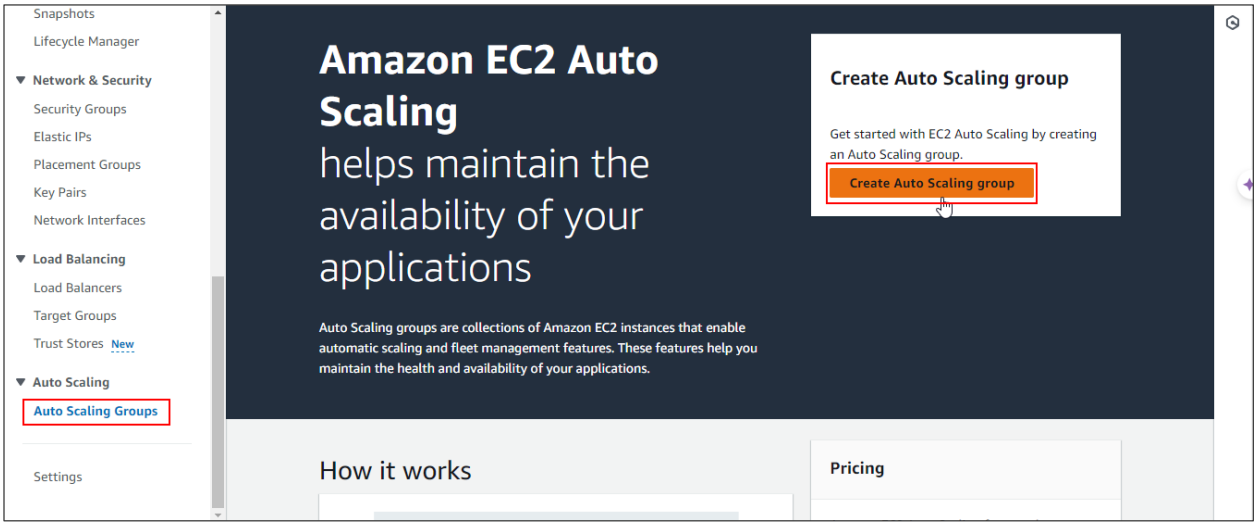
Step 1: Set up a predefined auto-scaling group

1.1 Navigate to the AWS console home dashboard, search for and click on **EC2**

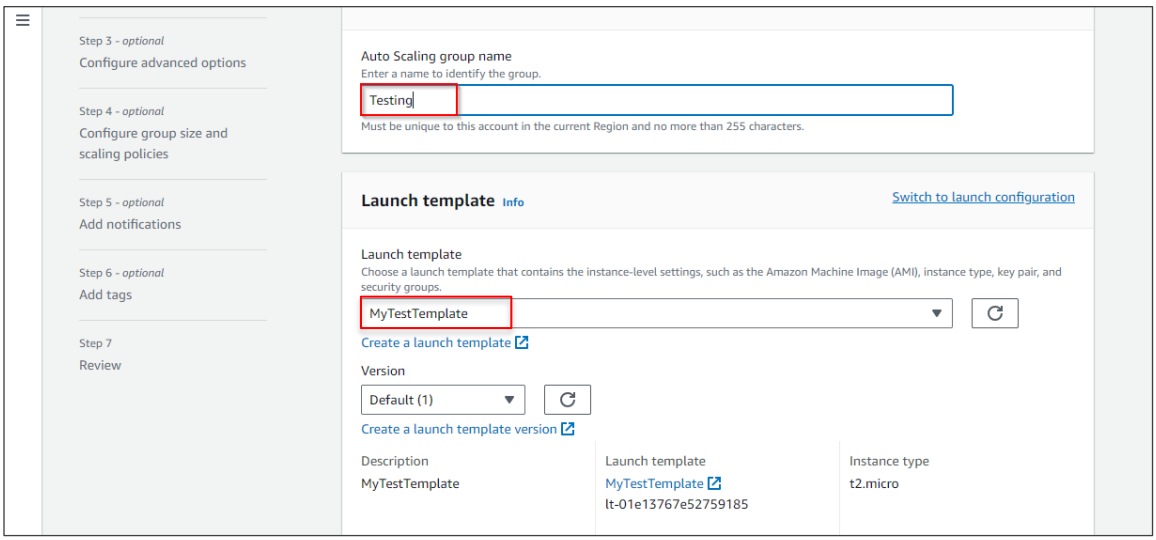


Note: Set the region to **US East (N. Virginia) us-east-1** in all demos

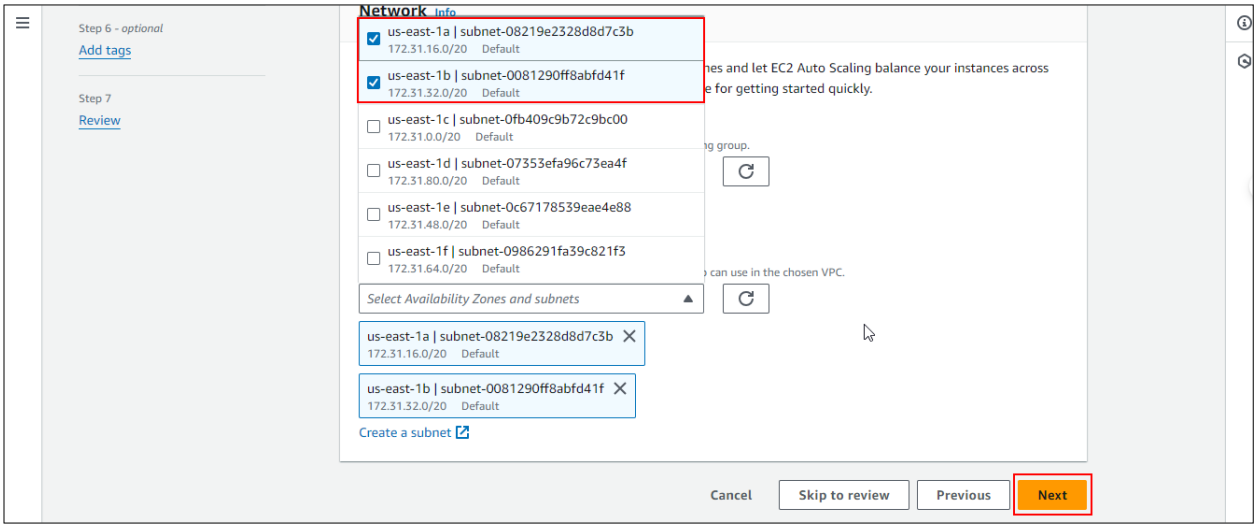
1.2 Navigate to **Auto Scaling Groups** in the **Auto Scaling** section, and click on **Create Auto Scaling group**



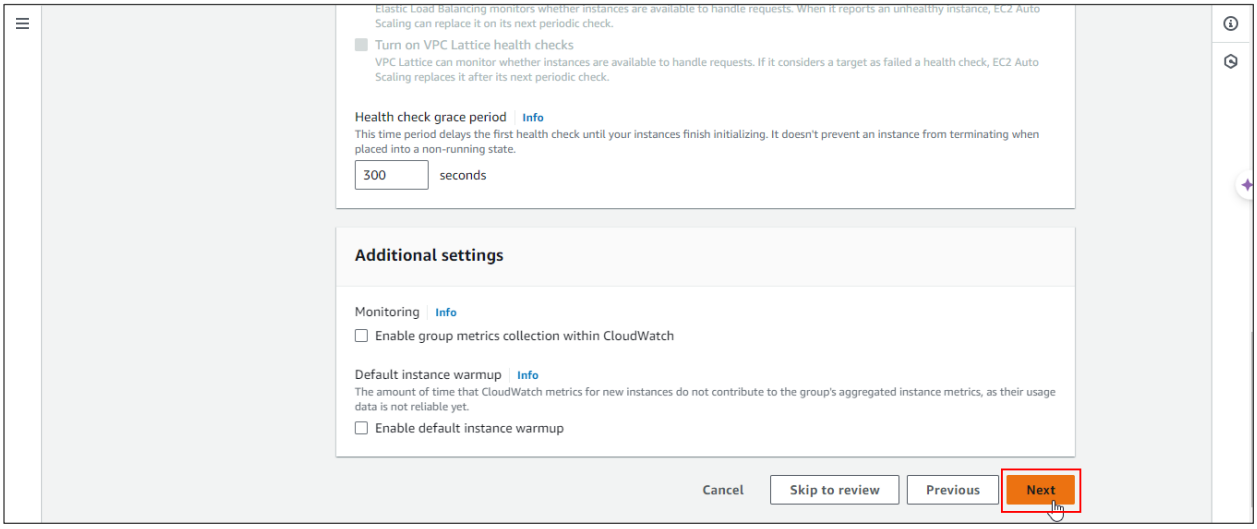
1.3 Add the name as **Testing**, select **MyTestTemplate** in the **Launch template**, and click **Next**



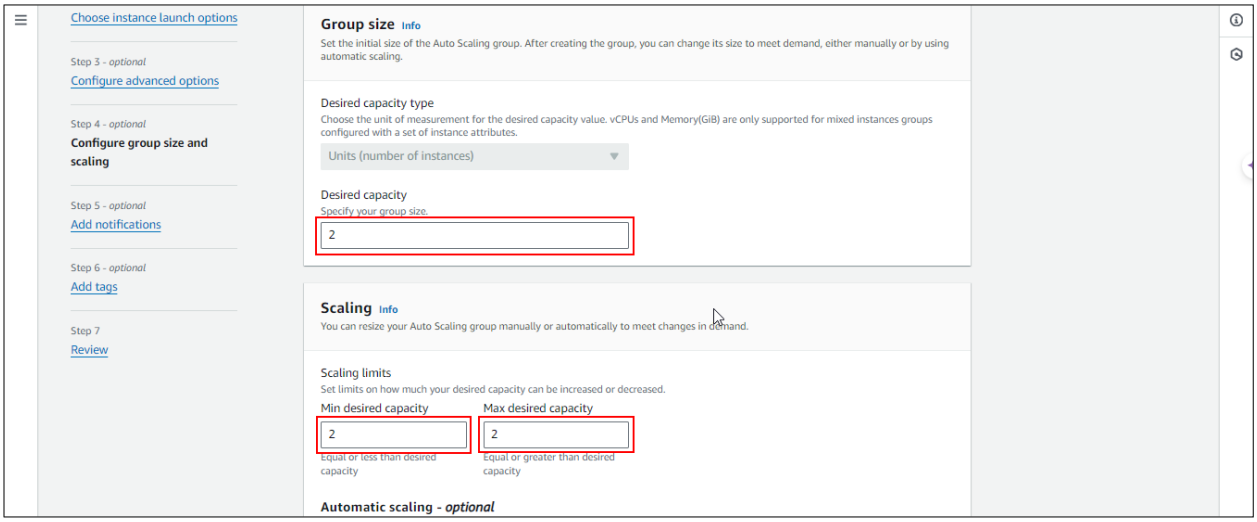
1.4 Select the availability zones and subnets as **us-east-1a** and **us-east-1b,** then click **Next**

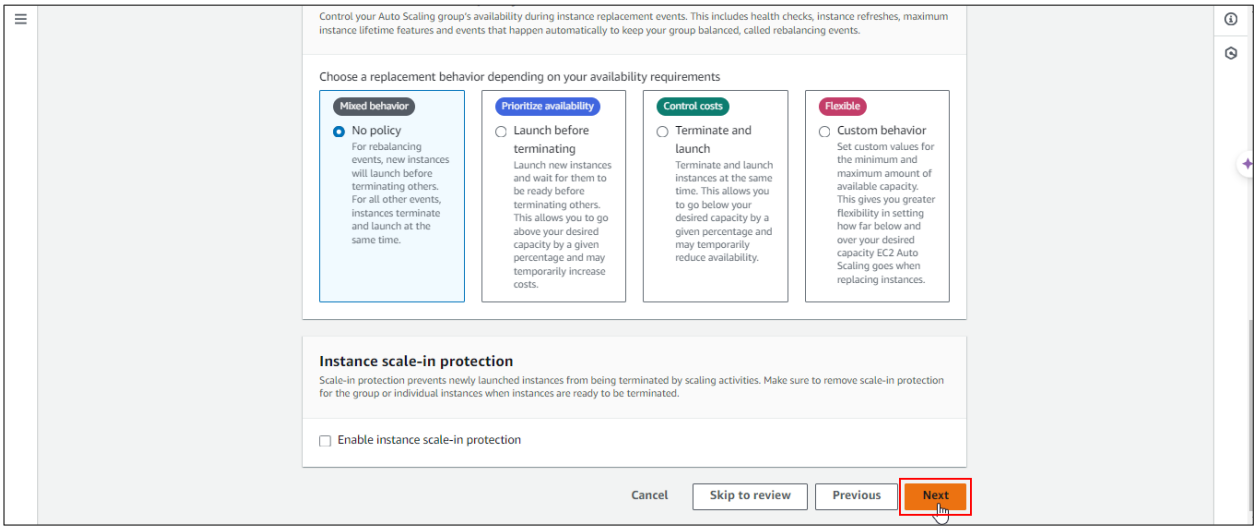


1.5 Click on **Next**

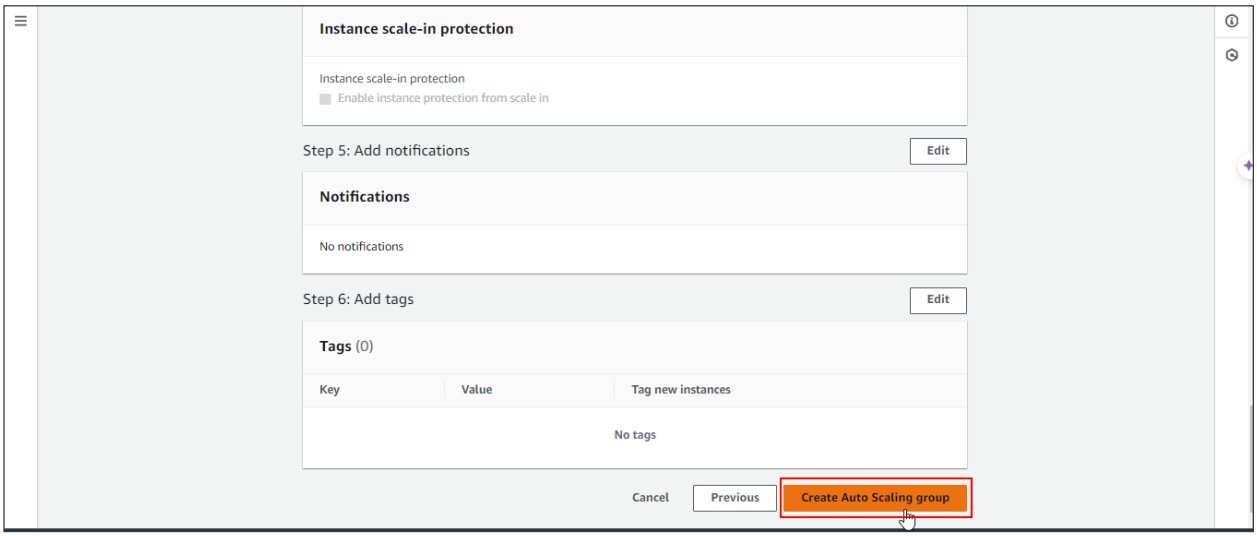


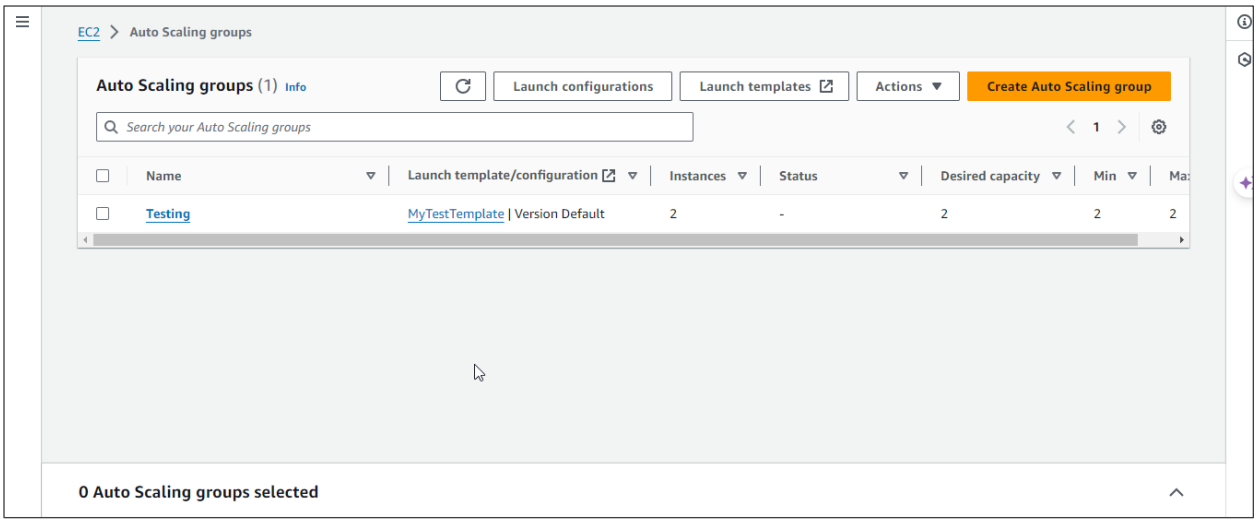
1.6 Add the **Desired capacity**, **Minimum capacity**, and **Maximum capacity** as **2**, and click on **Next**





1.7 Review the steps, and click **Create Auto Scaling group**

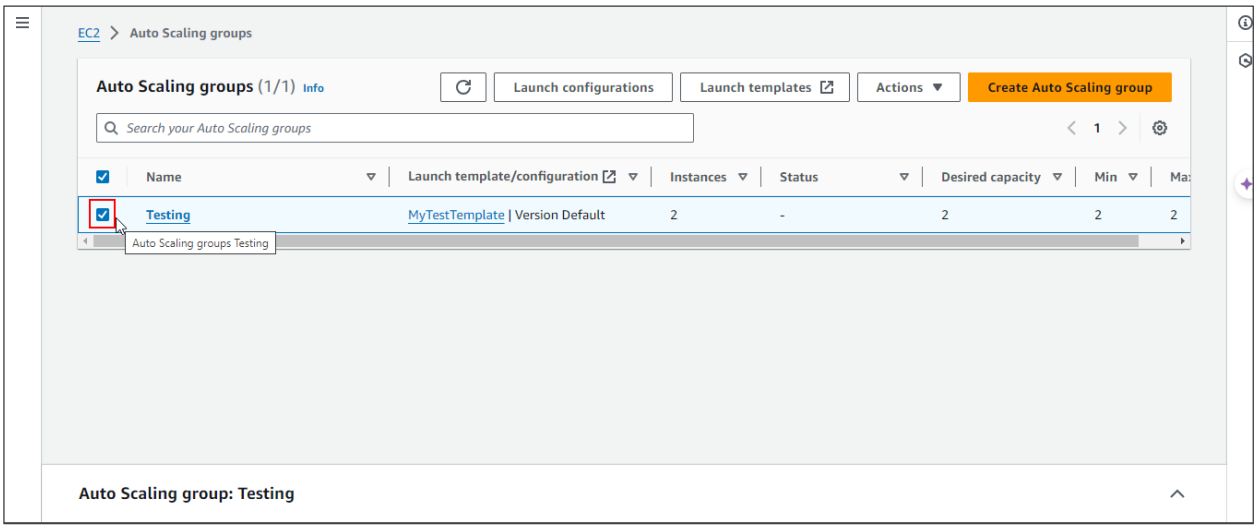




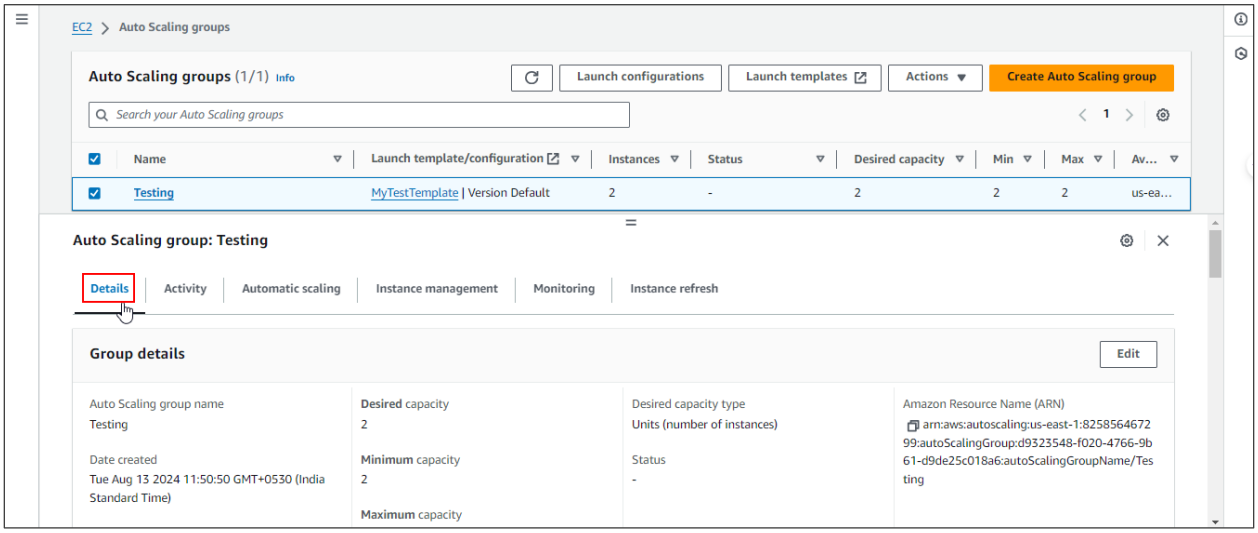
Auto-scaling groups have been created successfully.

Step 2: Set up EC2 Auto Scaling with a Load Balancer

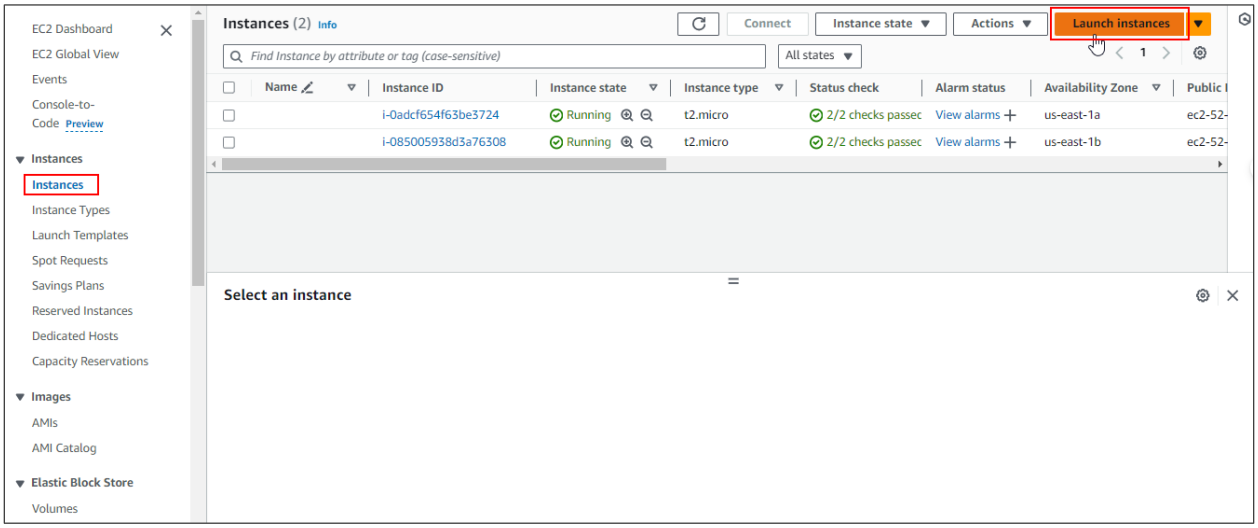
2.1 Select the previously created auto-scaling group as shown:

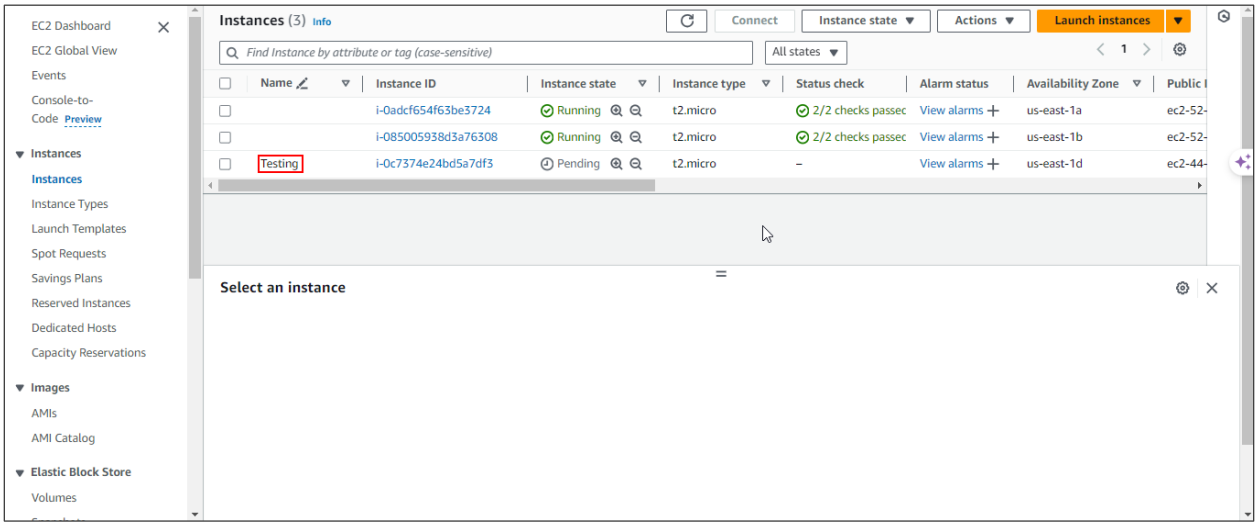


2.2 Click on **Details** to verify the group details



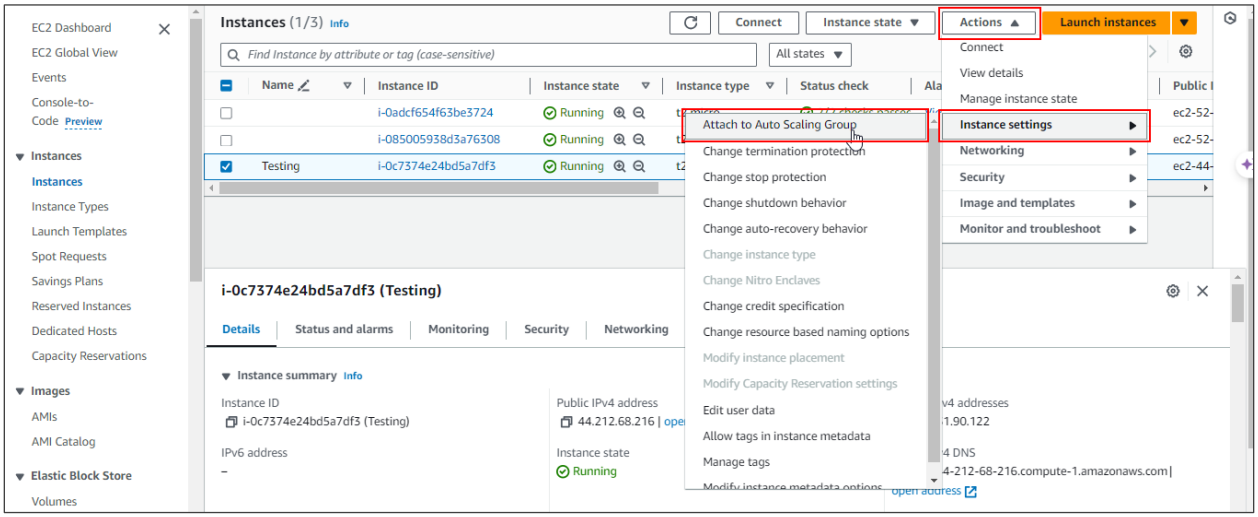
2.3 Navigate to the **Instances**, and click **Launch instances** to create a new instance named **Testing**



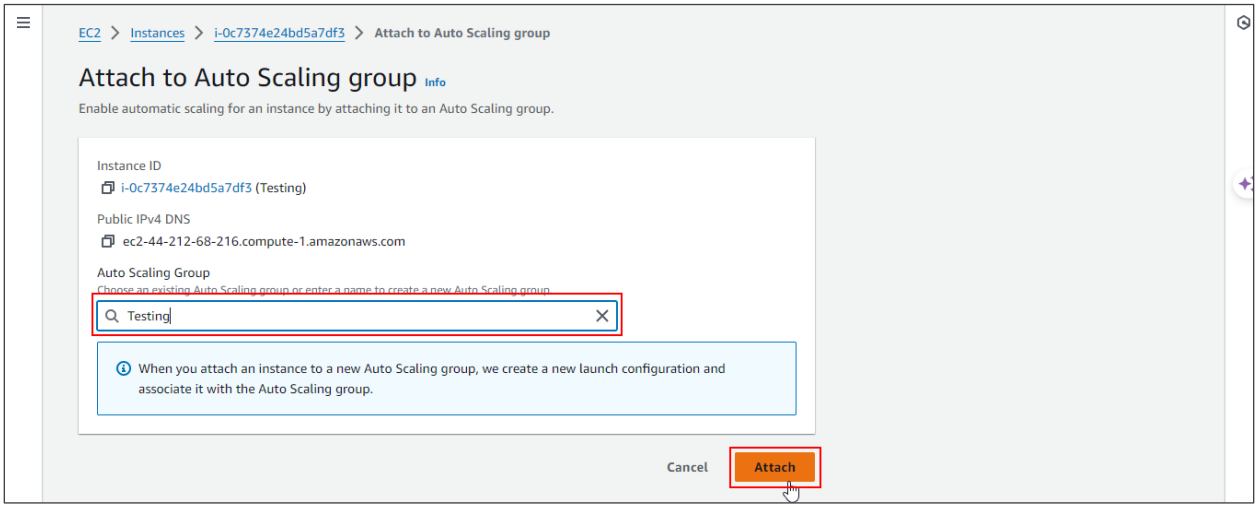


Instances have been created successfully; refer to the previous demos for instructions on creating instances.

2.4 Click on **Actions**, then select **Instance settings**, and choose **Attach to Auto Scaling Group**



2.5 Select the **Auto Scaling Group** name **Testing**, and click **Attach**



By following these steps, you have successfully configured manual and dynamic scaling for your application using AWS tools and services, ensuring optimized resource management and performance.