Lesson 03 Demo 11

Setting Up Auto Scaling Using Launch Templates

Objective: To set up an Auto Scaling group using a launch template in AWS for automated instance scaling and optimal resource management

Tools required: AWS Workspace

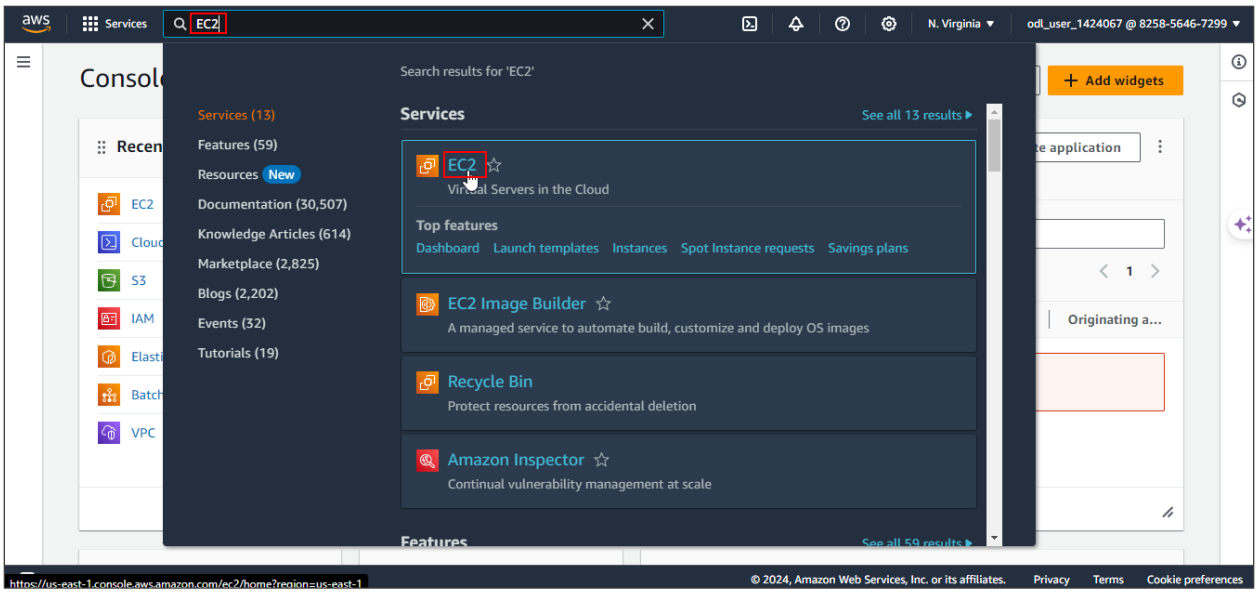
Prerequisites: Create a launch template and ensure you have IAM permissions to create an Auto Scaling group using that launch template

Steps to be followed:

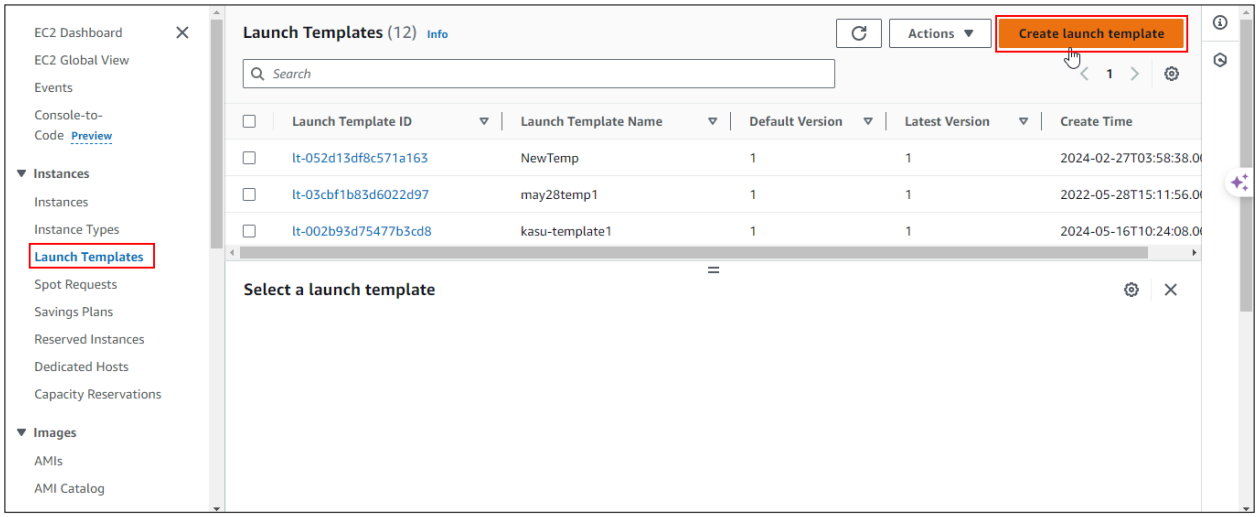
1. Create a launch template in EC2
2. Create a launch configuration
3. Create an Auto Scaling group

Step 1: Create a launch template in EC2

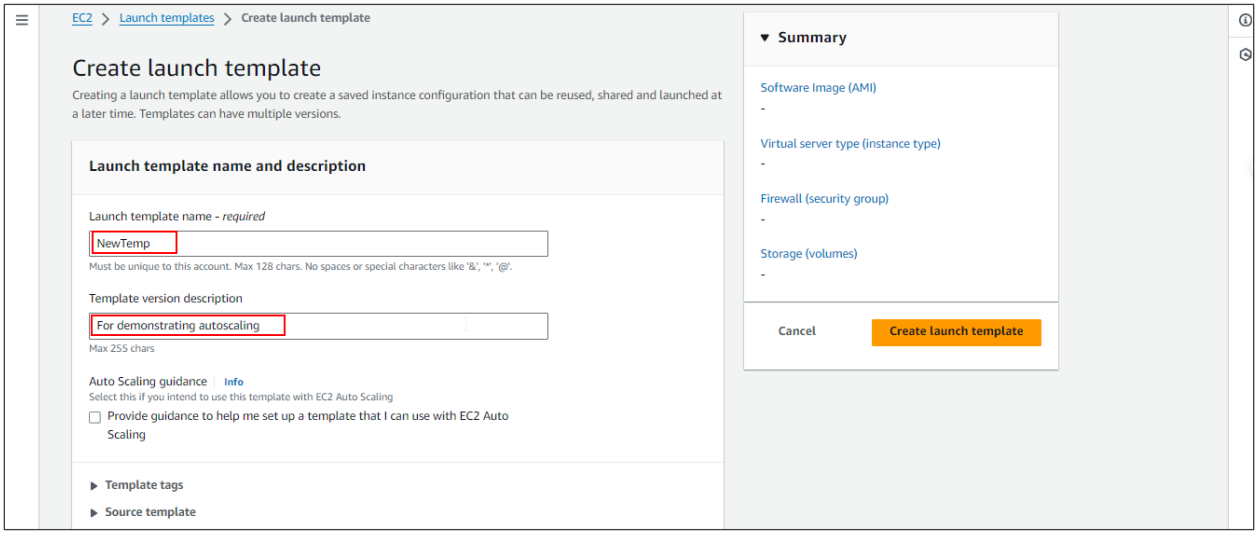
1.1 Navigate to the AWS console home dashboard, search for and click on **EC2**



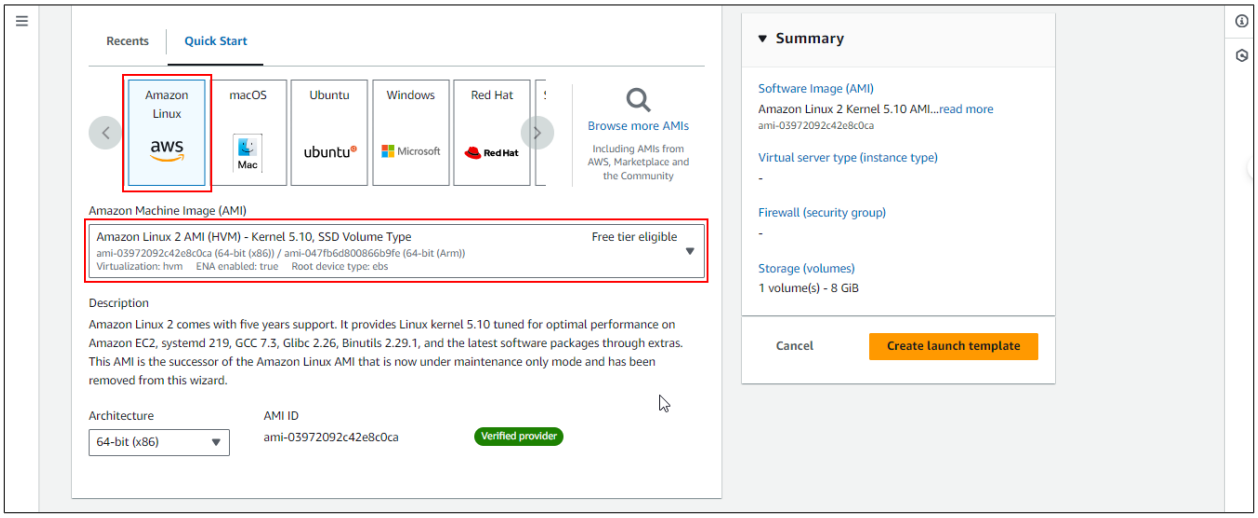
1.2 Select **Launch Templates** in the left navigation pane and click the **Create launch template** button

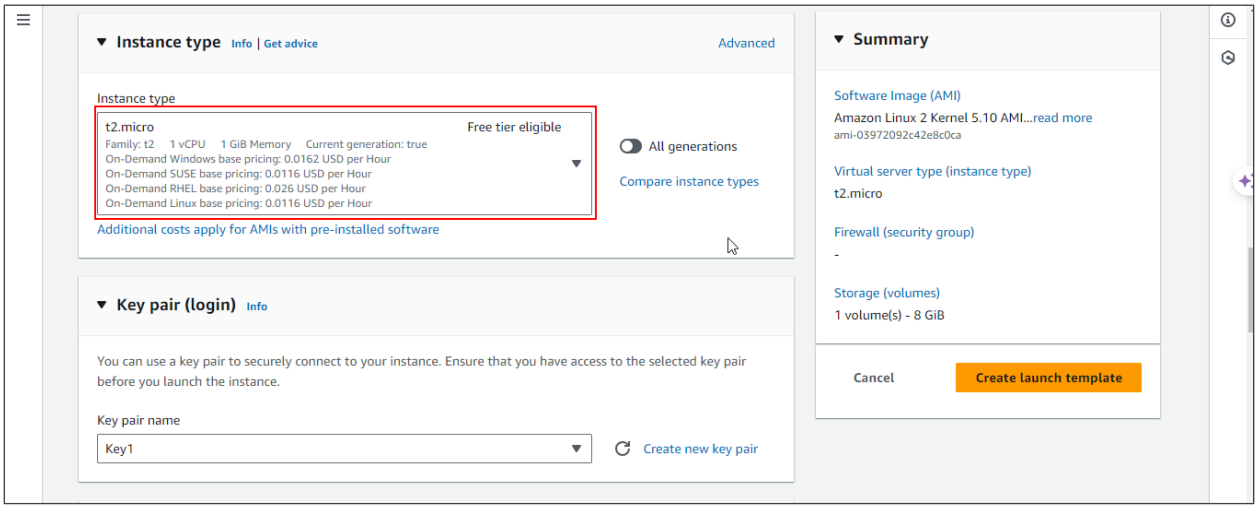


1.3 Name the launch template, **NewTemp**, and provide a description such as **For demonstrating autoscaling**

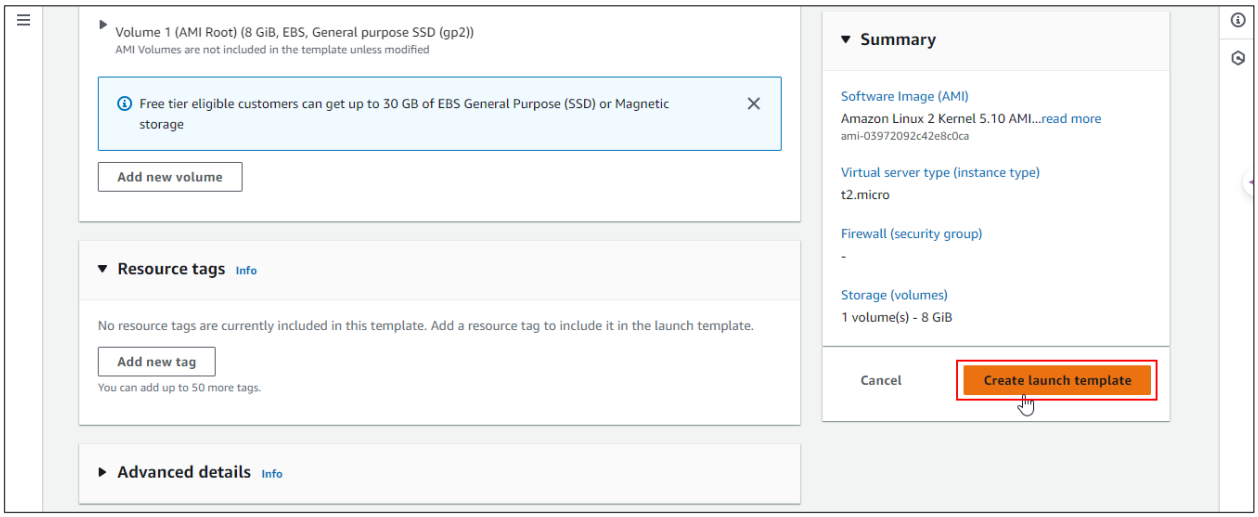


1.4 Select **Amazon Linux** and **Amazon Linux 2 AMI (HVM)** for the Amazon Machine Image (AMI), and choose **t2.micro** for the instance type





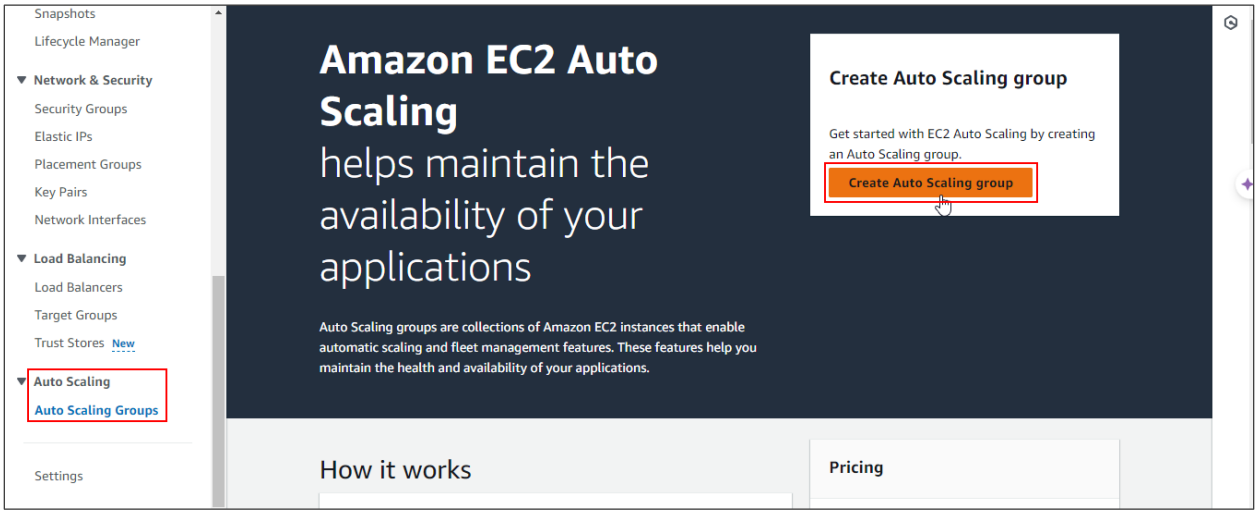
1.5 Click on **Create launch template**



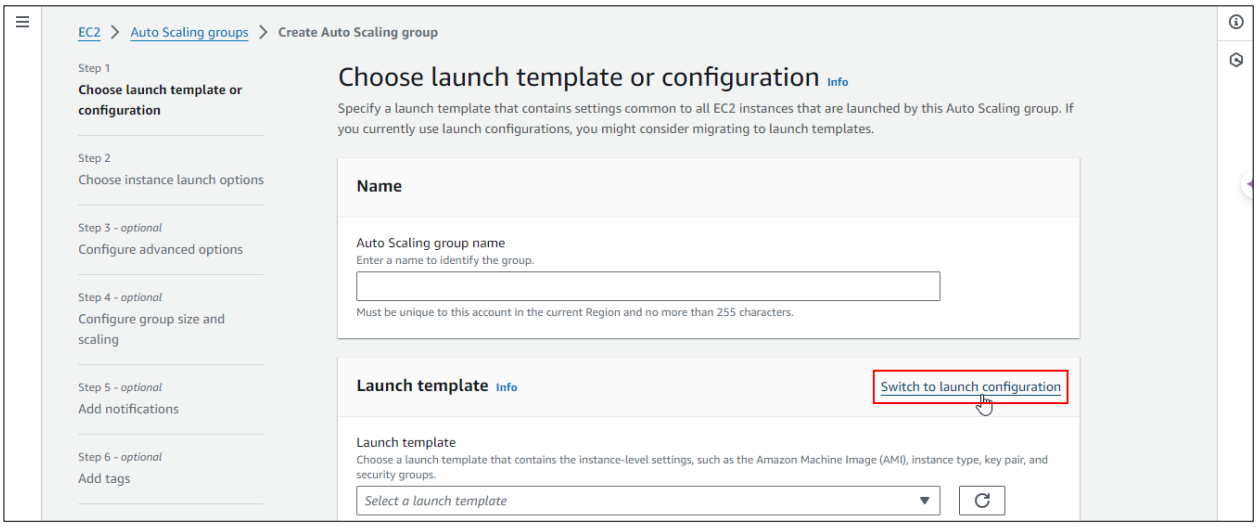
The launch template has been created successfully.

Step 2: Create a launch configuration

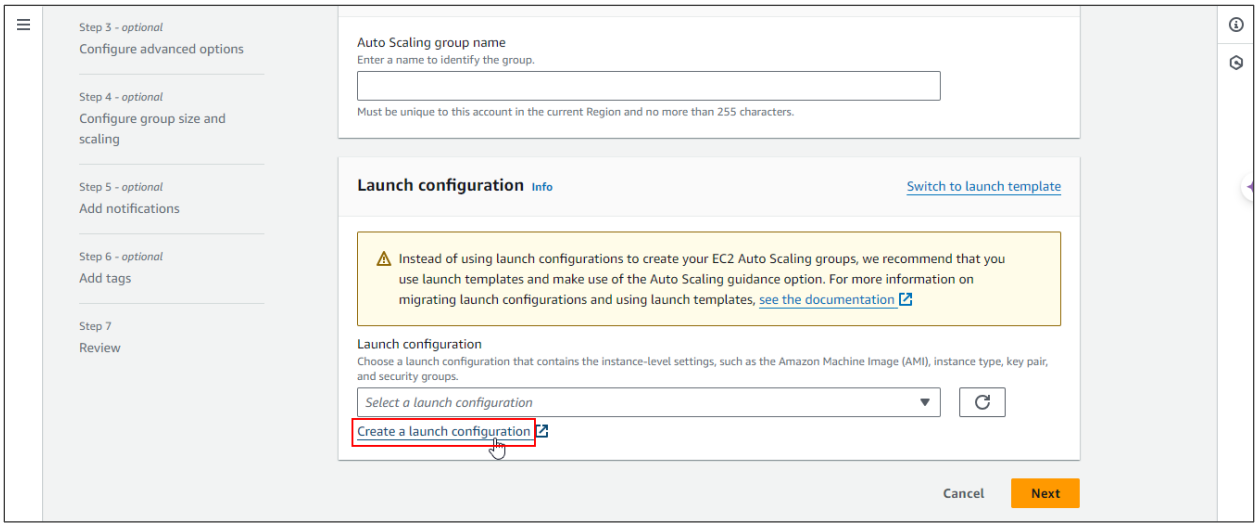
2.1 Navigate to the **Auto Scaling** section, and click on **Create Auto Scaling group**



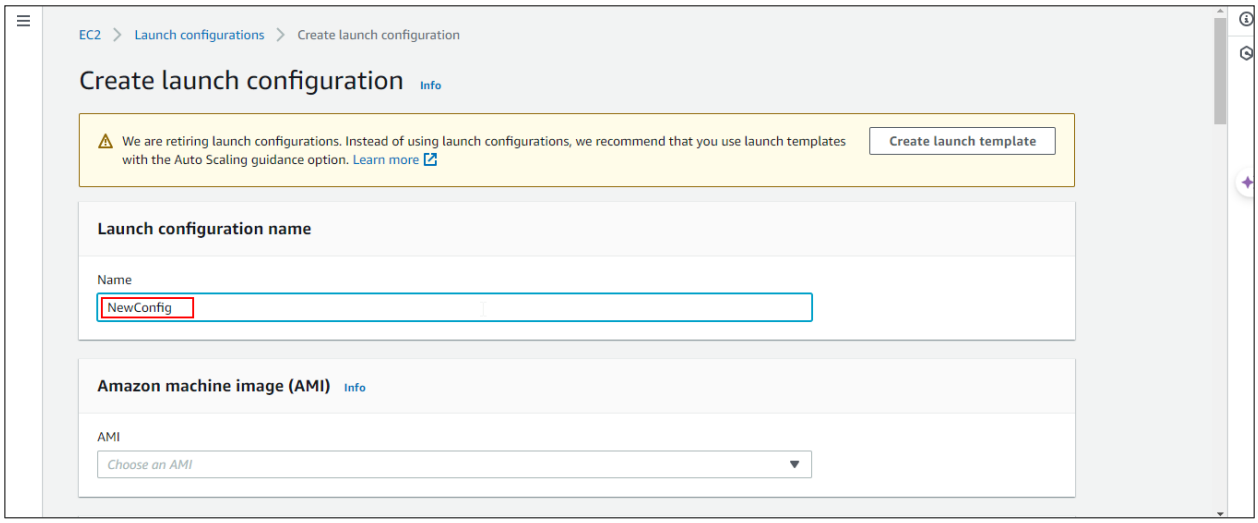
2.2 Click on **Switch to launch configuration**



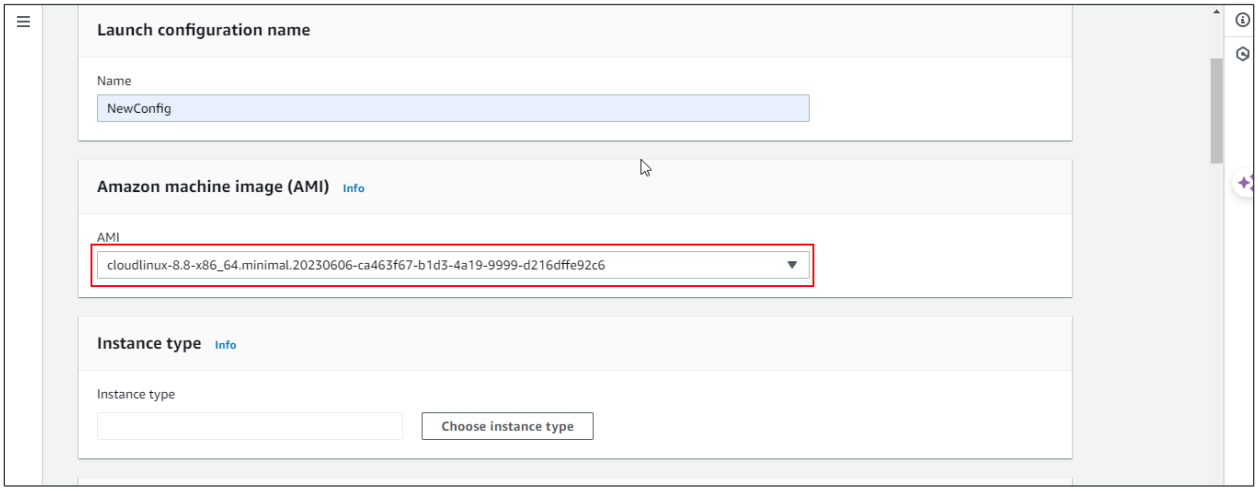
2.3 Click on **Create a launch configuration**



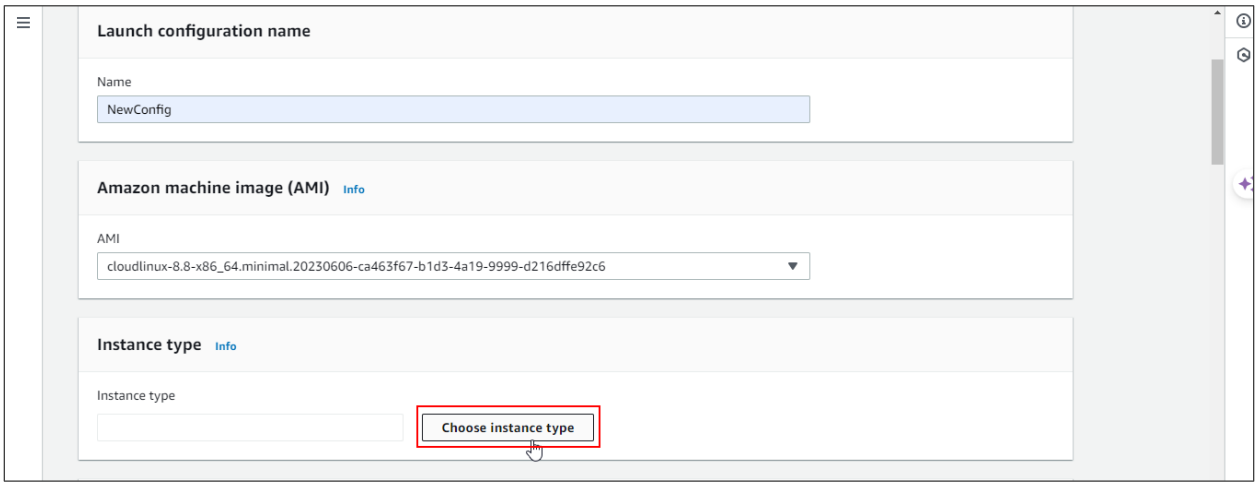
2.4 Set **NewConfig** as the name for the configuration

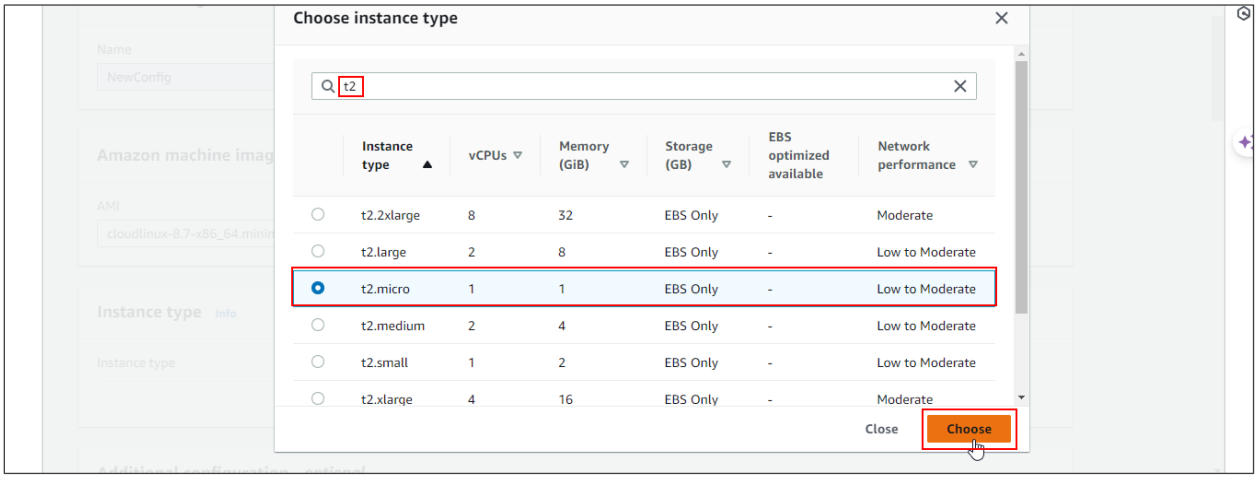


2.5 Select the desired **AMI** as shown:

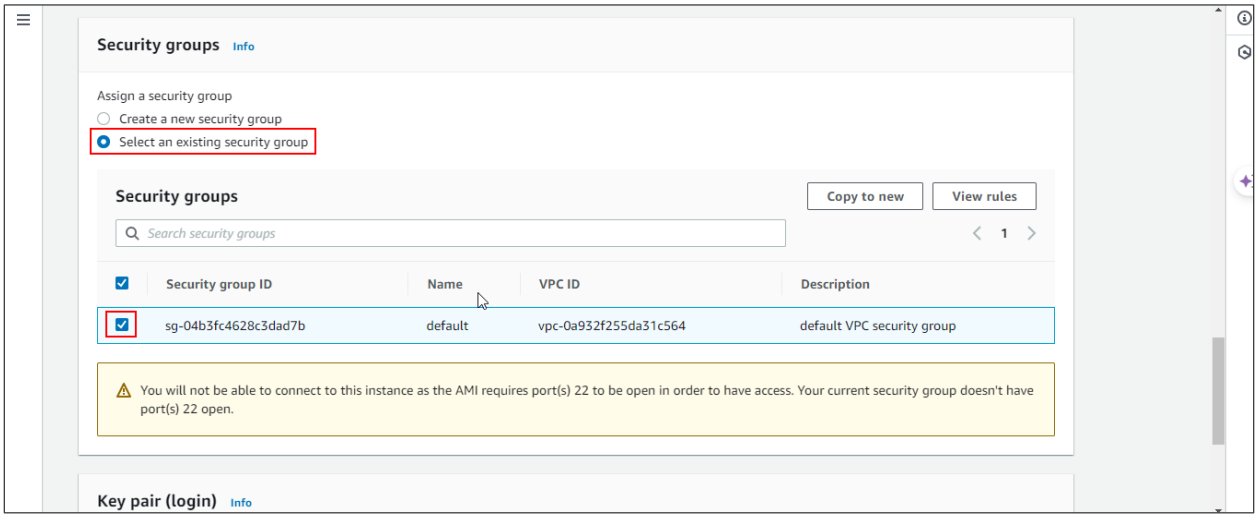


2.6 Click on **Choose instance type,** search for and select **t2.micro**, and click on **Choose**

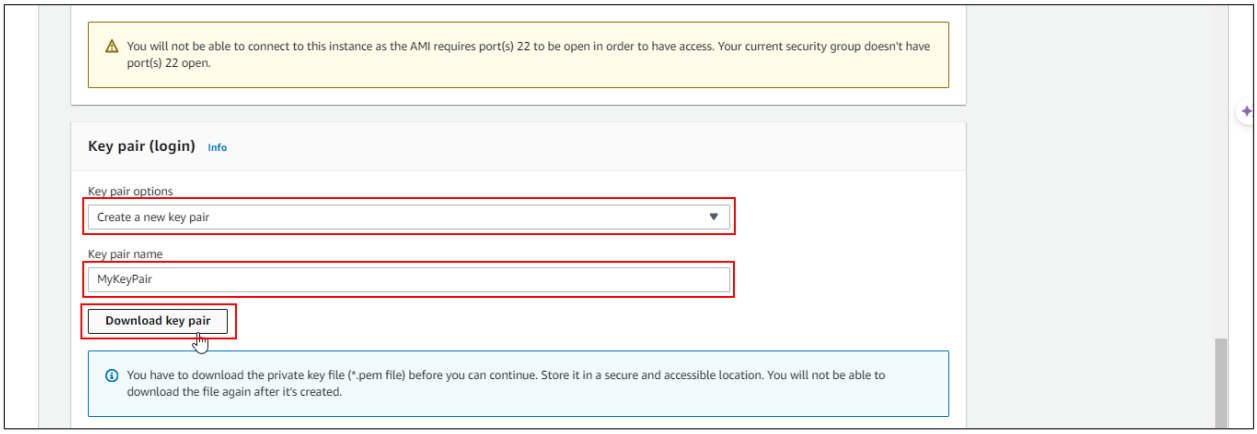




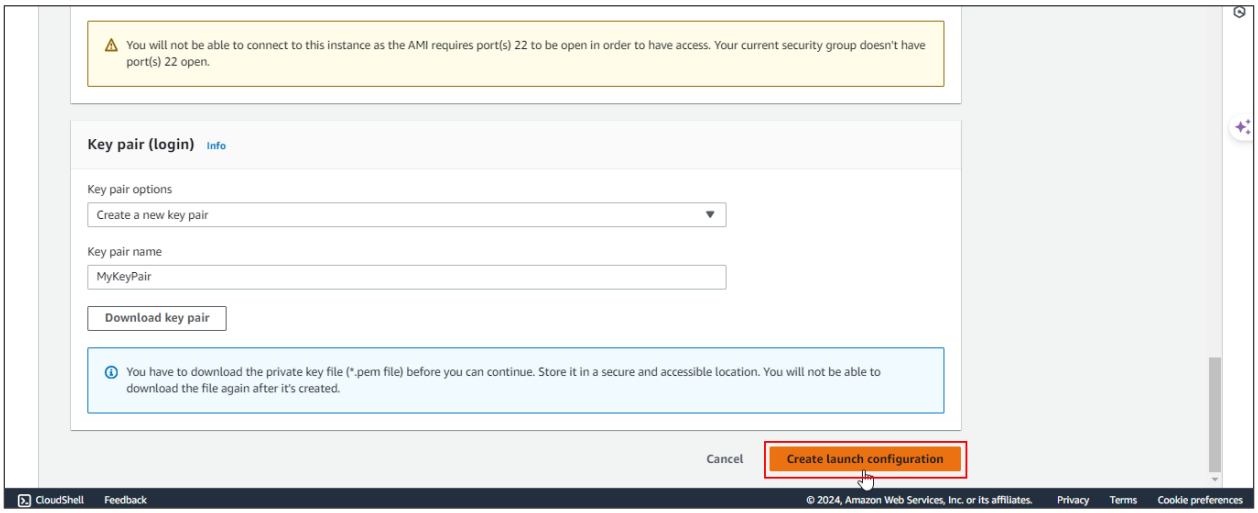
2.7 Navigate to the **Security groups** section, click **Select an existing security group**, and choose the **default** security group

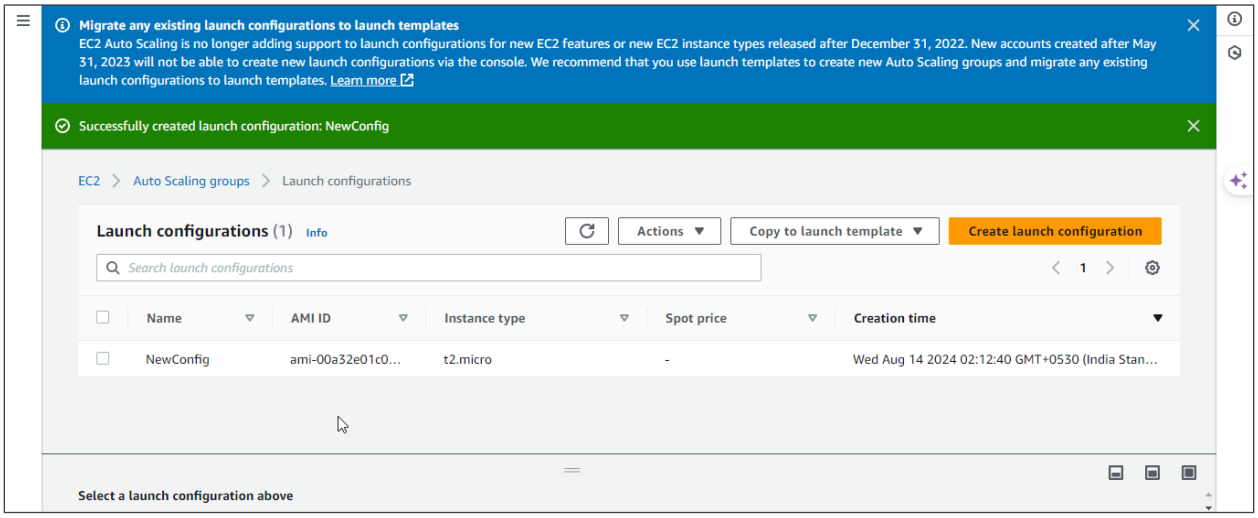


2.8 Select the **Create a new key pair** option, enter a desired **key pair** name, and click **Download key pair**



2.9 Click on **Create launch configuration**

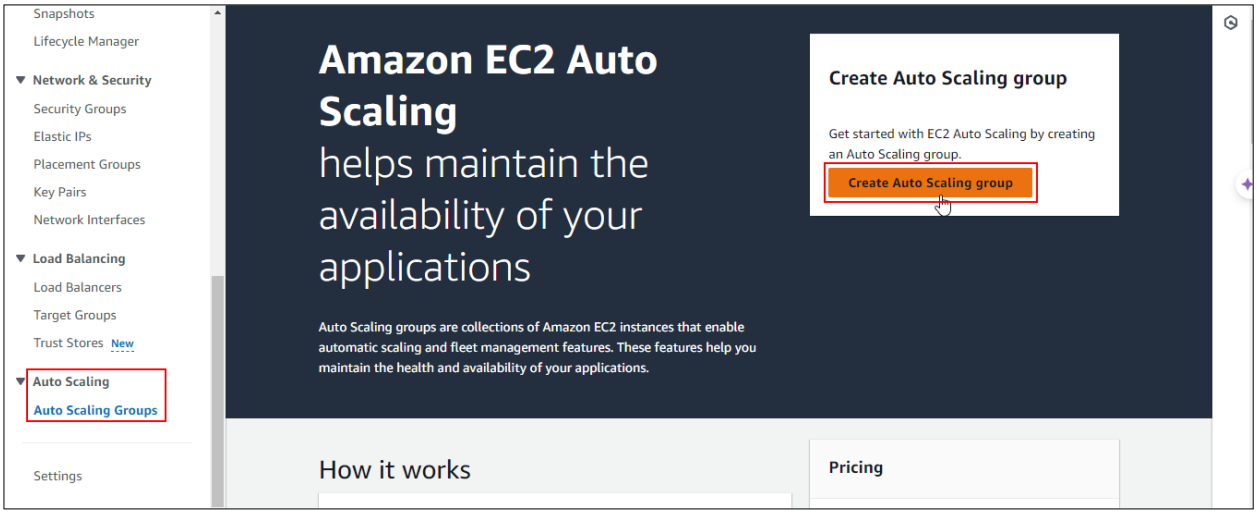




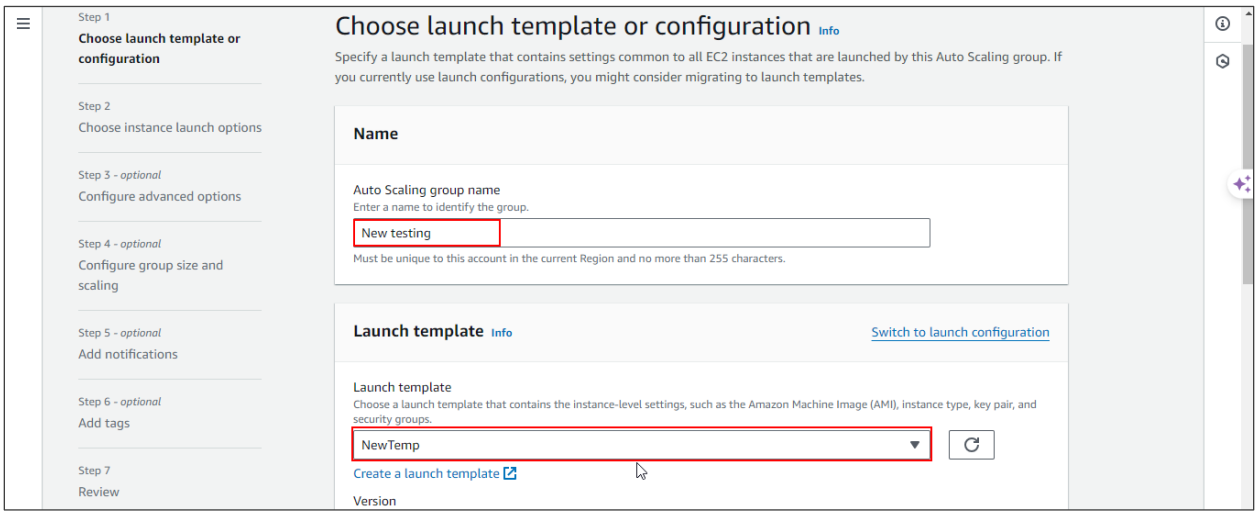
The launch configuration has been created successfully.

Step 3: Create an Auto Scaling group

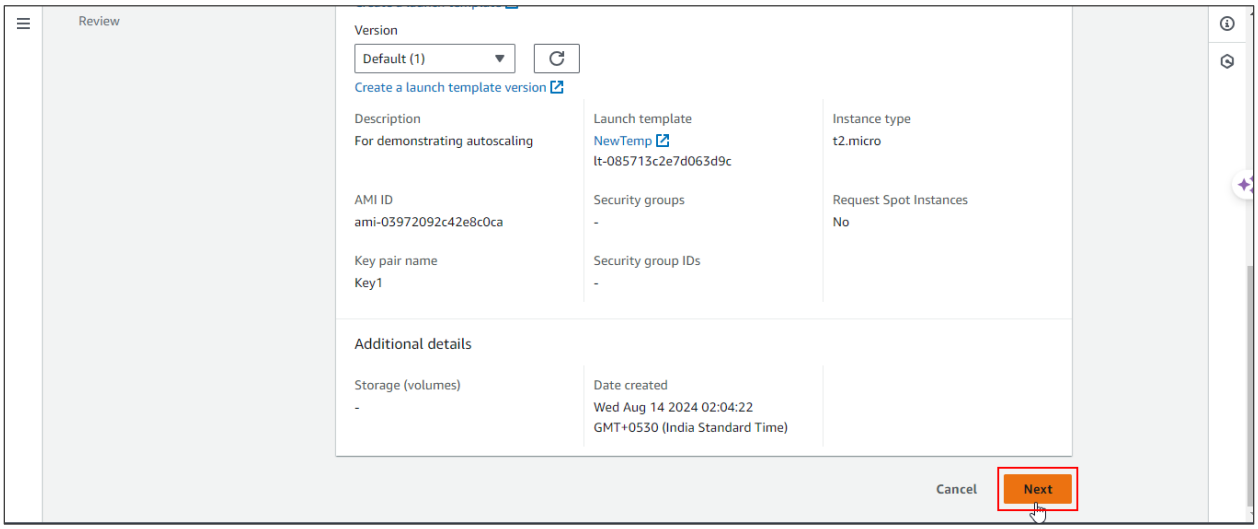
3.1 In the left navigation pane, click **Create Auto Scaling group**



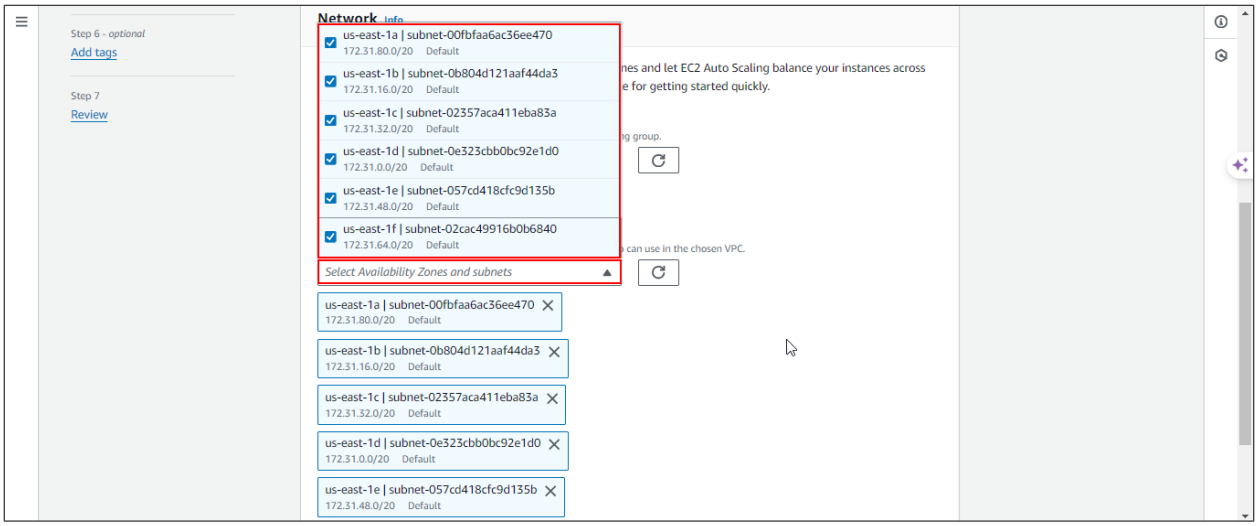
3.2 Name the **Auto Scaling group New testing** and select the Launch template **NewTemp**



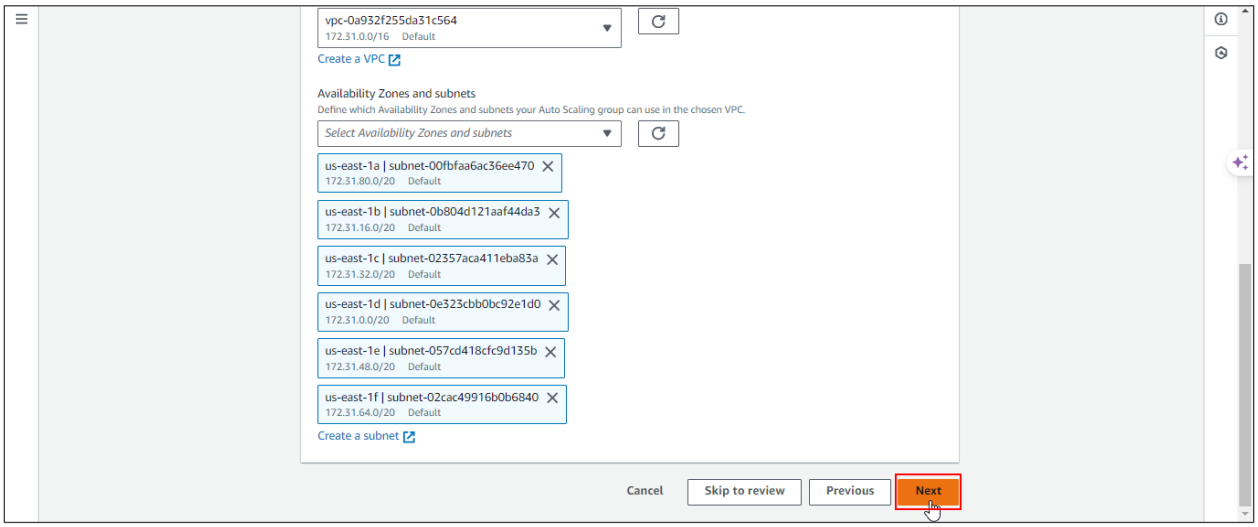
3.3 Click on **Next**



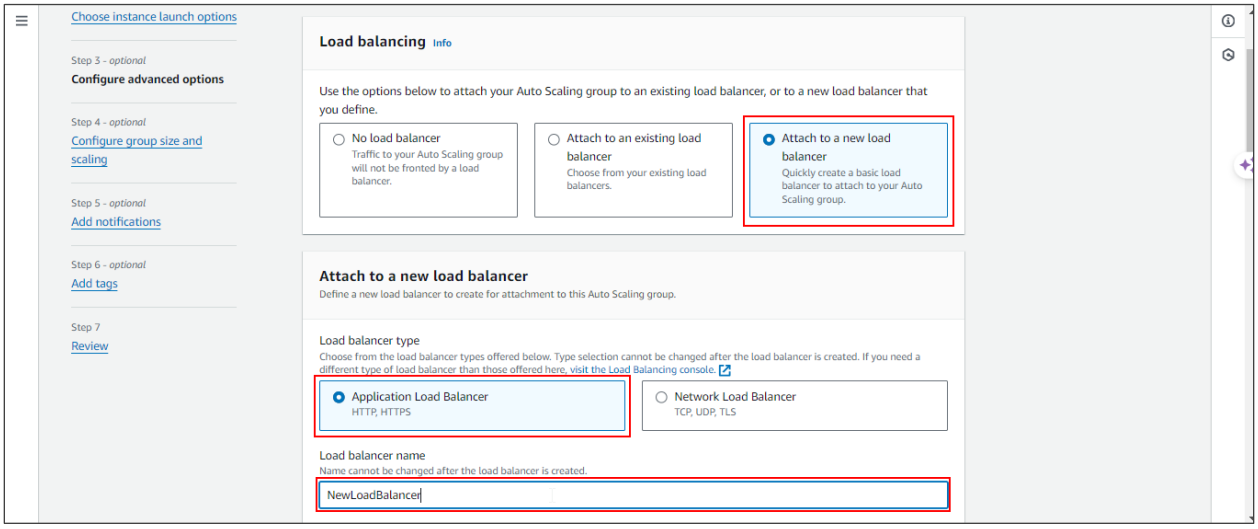
3.4 Click on **Availability Zones and subnets**, and select all the **Zones**



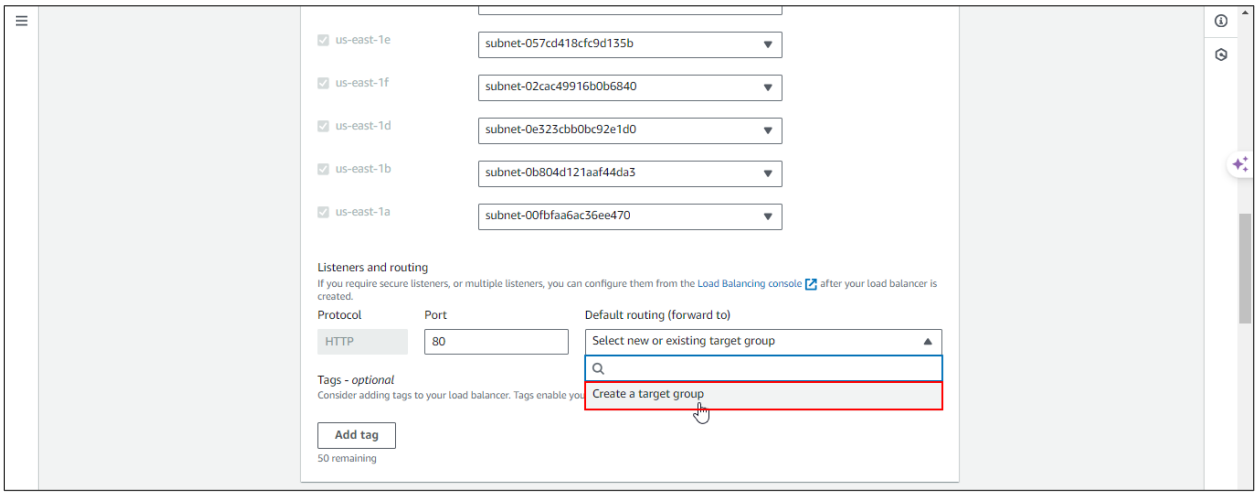
3.5 Click on **Next**

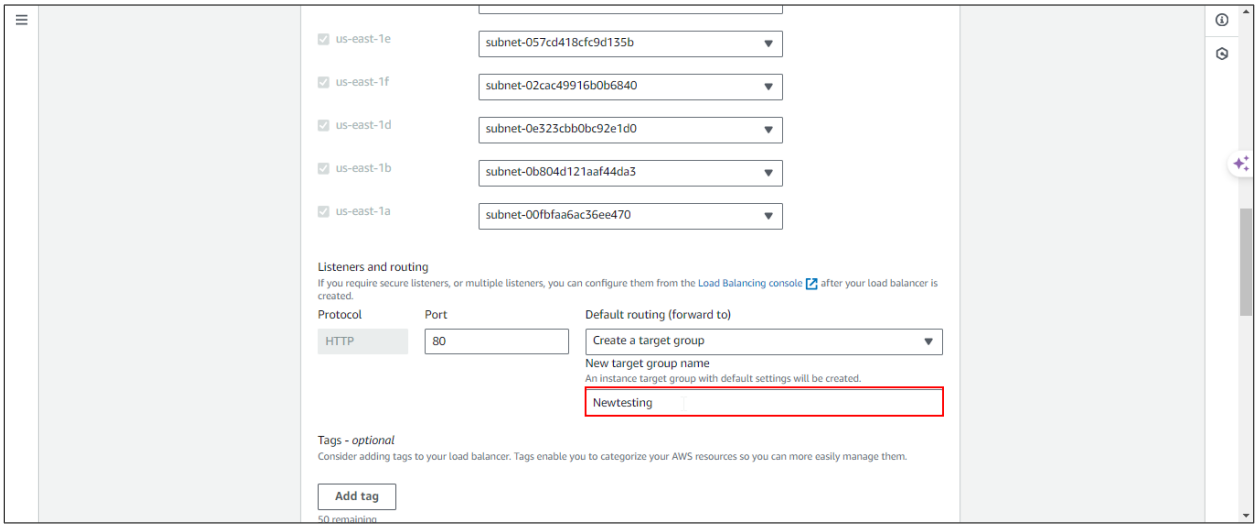


3.6 Click on **Attach to a new load balancer**, select **Application Load Balancer**, and enter a desired name for the load balancer

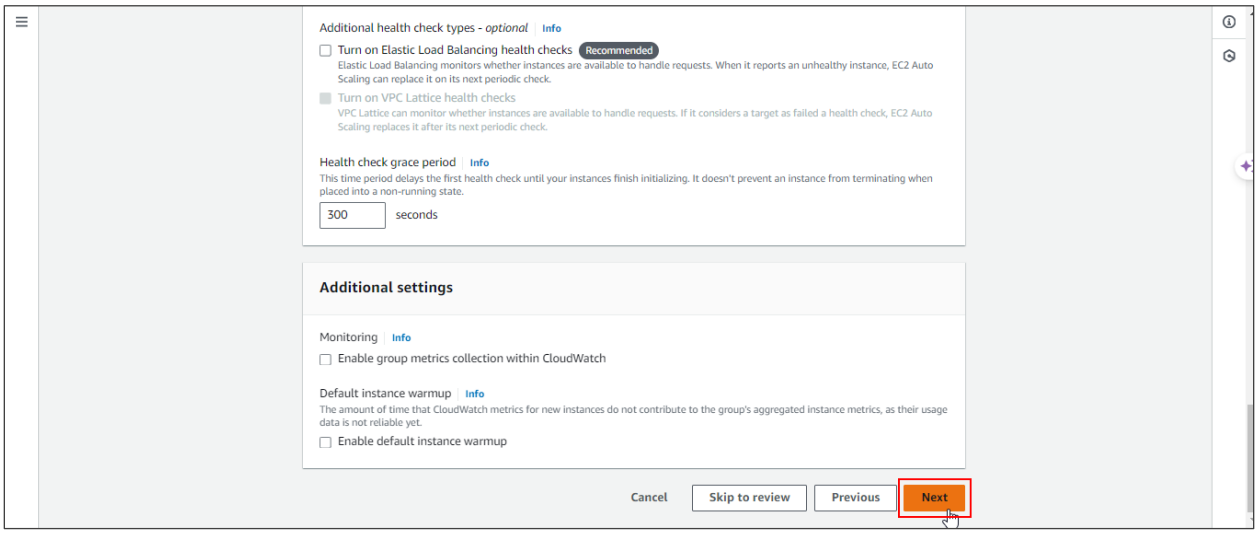


3.7 Click on **Create a target group**, and name it **Newtesting**

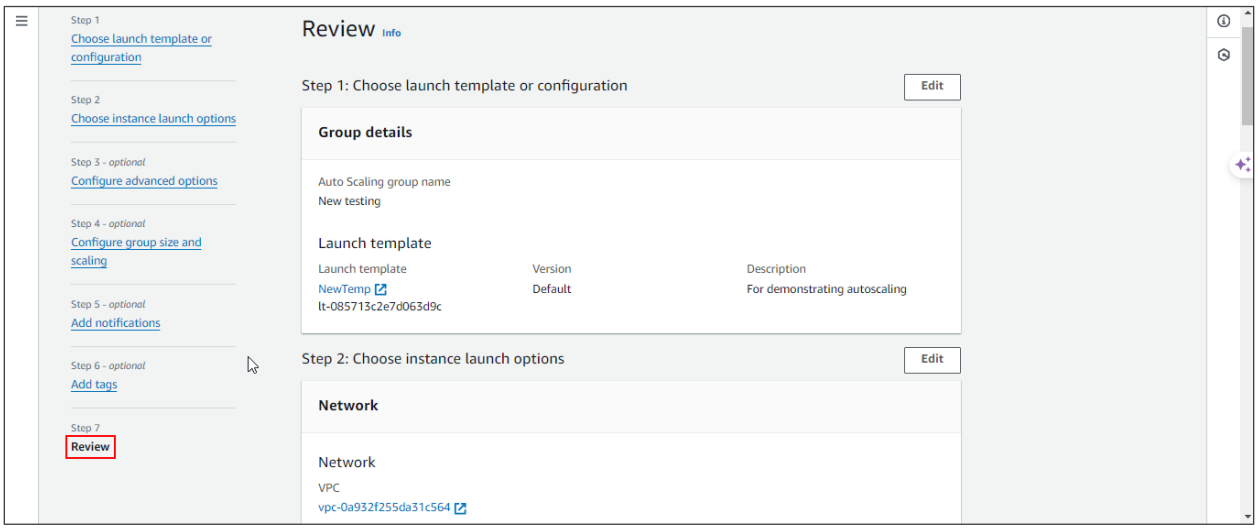


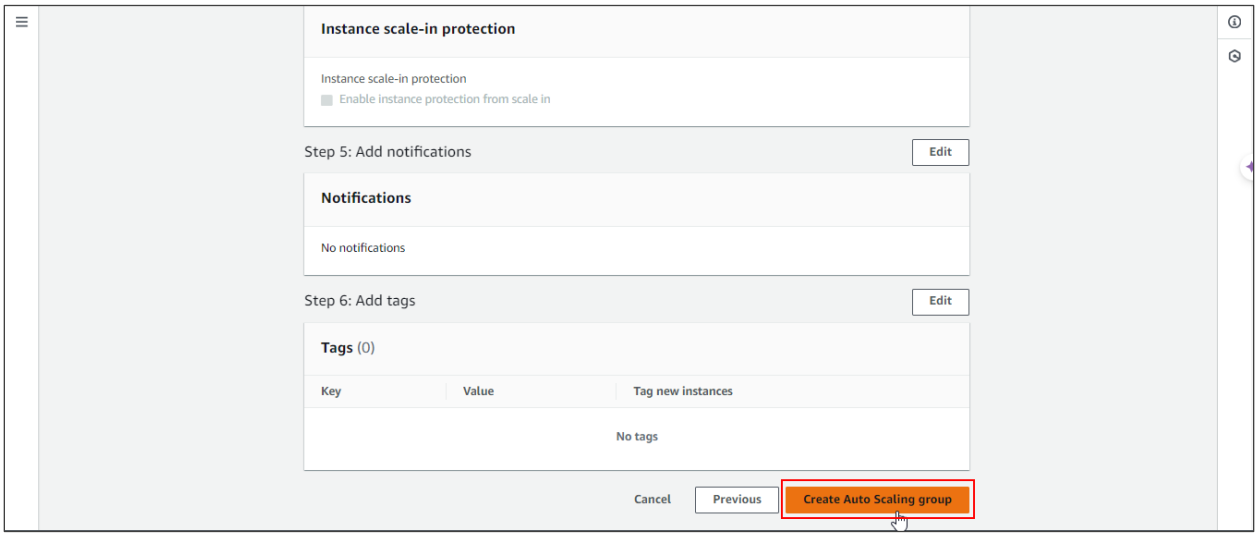


3.8 Click on **Next**

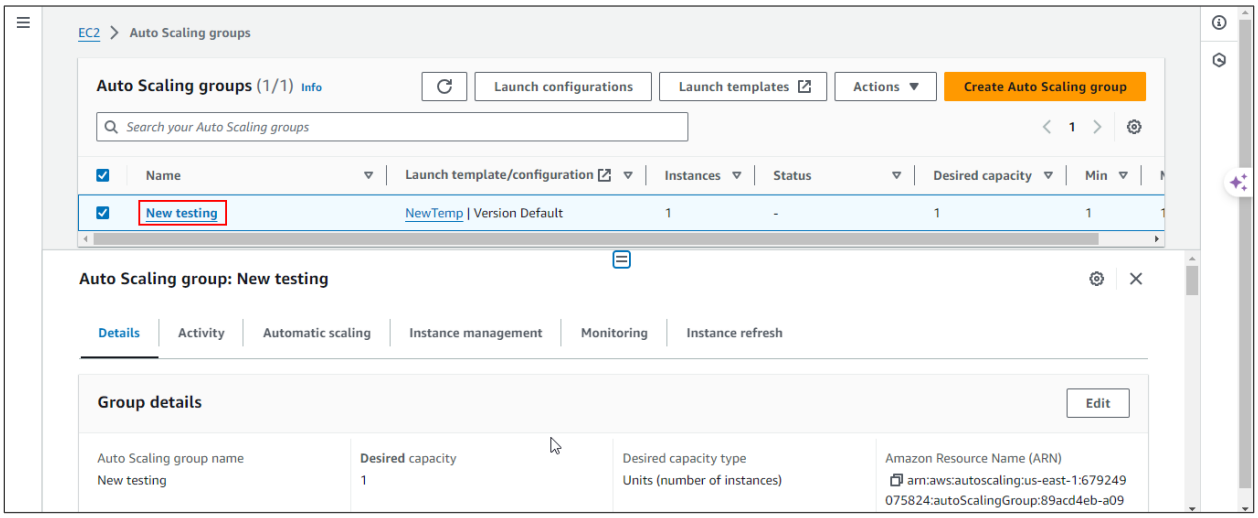


3.9 Skip to **Step 7**, review the launch template by clicking **Review**, and then click **Create Auto Scaling group**





The Auto Scaling groups have been created successfully, as shown:



By following these steps, you have successfully set up an Auto Scaling group using a launch template in AWS for automated scaling and efficient resource management.