## <u>AWS Auto Scaling Groups – Basics</u>

### **Requirements**

Zero EC2 instances running.

## **Objectives**

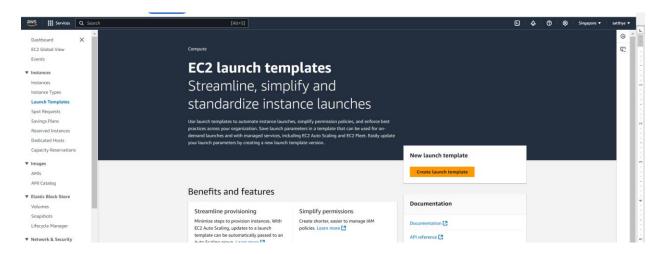
A. Create a scaling group for web servers with the following properties:

- Amazon Linux 2 AMI
- t2.micro as the instance type
- user data:
  - **♣** yum install -y httpd
  - **♣** systemctl start httpd
  - **4** systemctl enable httpd
- B. Were new instances created since you created the auto scaling group? How many? Why?
- C. Change desired capacity to 2. Did it launch more instances?
- D. Change back the desired capacity to 1. What is the result of this action?

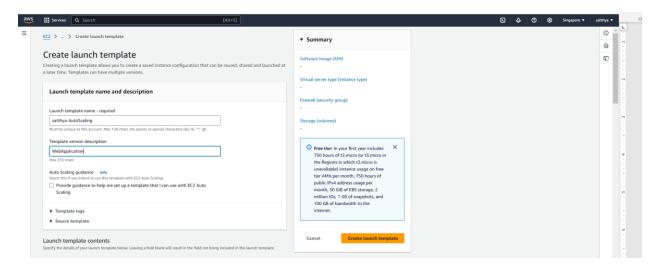
## **Solution**

## **Question(A)**

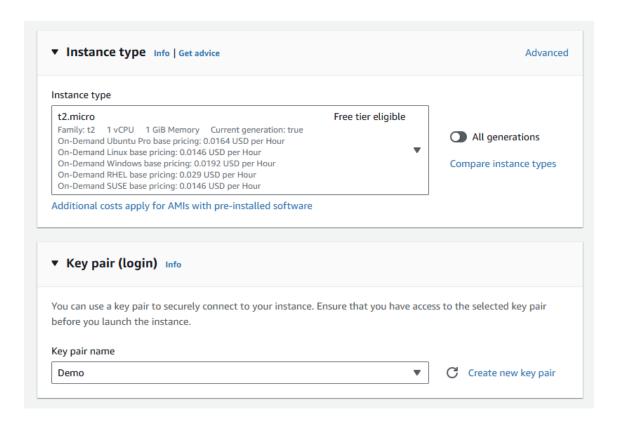
- ✓ Create template.
- Go to EC2 service.
- Click on Launch Templates

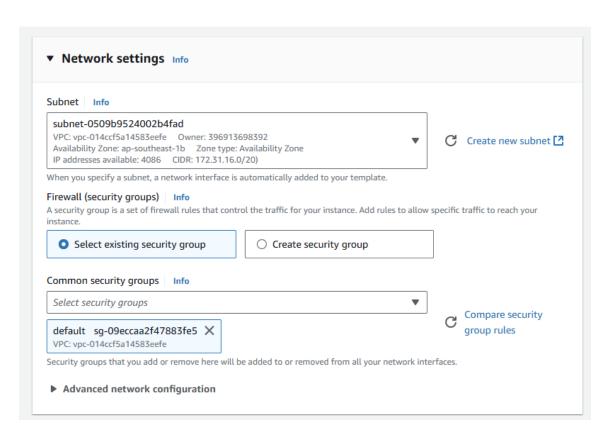


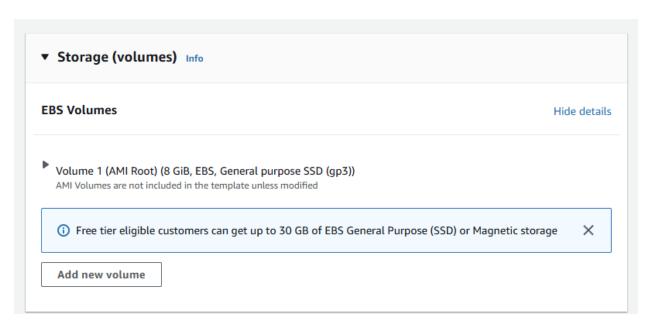
• Create Launch Templates and fill up the templates.



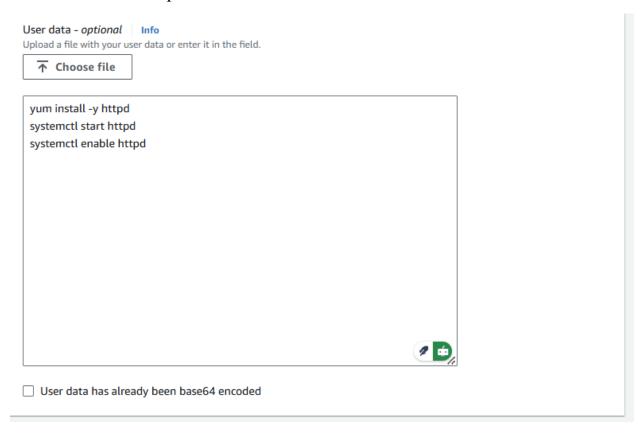
#### ▼ Application and OS Images (Amazon Machine Image) Info An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below Q Search our full catalog including 1000s of application and OS images Recents **Quick Start** Don't include Amazon macOS Ubuntu Windows Red H in launch Linux Browse more AMIs template aws Including AMIs from ubuntu<sup>®</sup> Microsoft AWS, Marketplace and Mac the Community Amazon Machine Image (AMI) Amazon Linux 2023 AMI Free tier eligible ami-07c9c7aaab42cba5a (64-bit (x86), uefi-preferred) / ami-06aa85a9a4db826fe (64-bit (Arm), uefi) Virtualization: hvm ENA enabled: true Root device type: ebs Description Amazon Linux 2023 is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and run your cloud applications. Amazon Linux 2023 AMI 2023.6.20241111.0 x86\_64 HVM kernel-6.1 Architecture Boot mode AMI ID Username ami-Verified provider ec2-user 64-bit (x86) uefi-preferred 07c9c7aaab42c ba5a







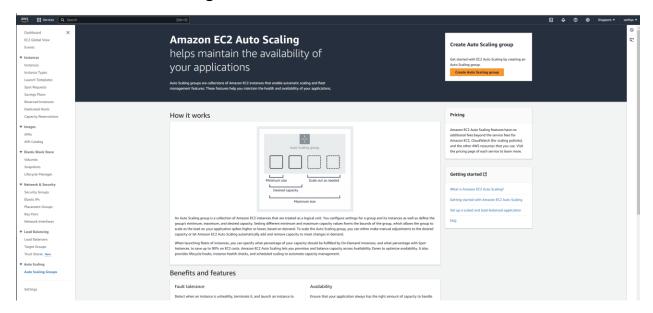
- Advance details key in user data
- Create the template.



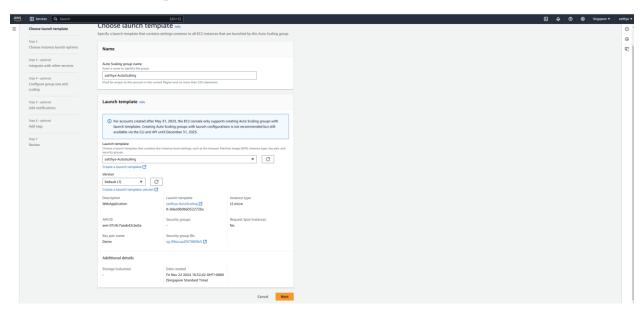


## ✓ Create Auto Scaling

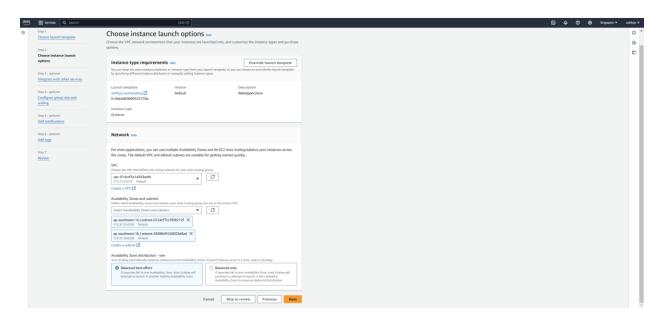
• Create Auto Scaling



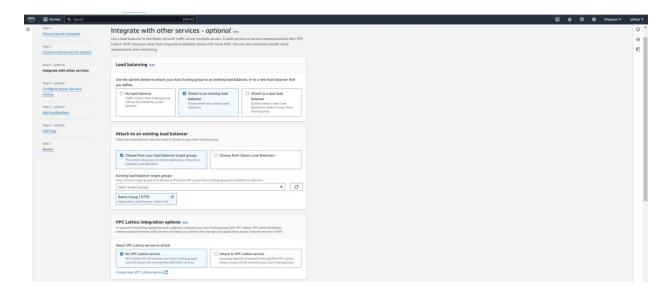
• Select the template and click next.



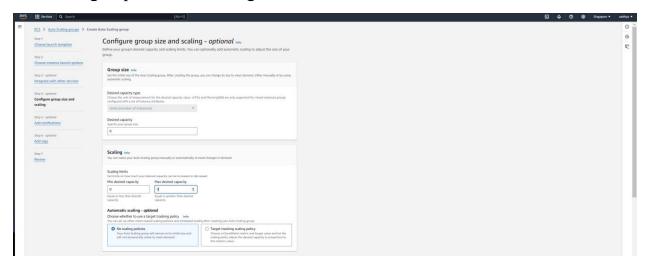
• Choose in which AZs to launch and click on "Next"



• Attached it with load balance



• Set group size and scaling



• Final step: review and create



## Question(B)

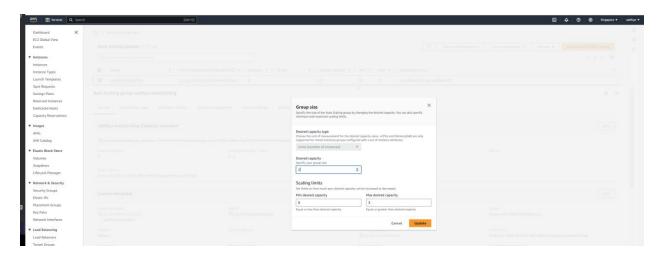


Were new instances created since you created the auto scaling group? How many? Why?

♣ Answer : No instances created. Because we set the desire Capacity to 0

# Question(C)

Change desired capacity to 2. Did it launch more instances?

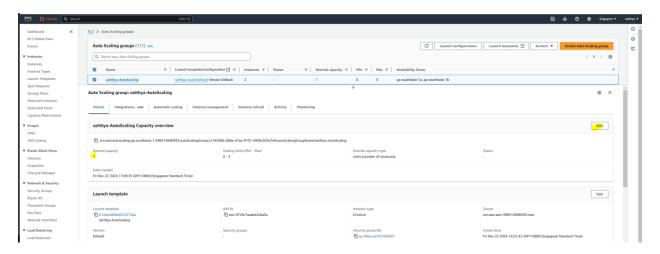




♣ Answer :- It launch 2 instances. Because desired capacity was increate to 2

## Question(D)

Change back the desired capacity to 1. What is the result of this action?





- ♣ Answer :-It will terminate and run only one instances. Because desired capacity was change to 1.
  - o note:- if instance not terminate immediately, please check the cool down period