

AWS Cloud & DevOps

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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:

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

```
apt-get update
```

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

```
echo "Welcome to my autoscaled website" > index.html
```

```
cp index.html /var/www/html
```

```
systemctl start apache2
```

```
Systemctl enable apache2
```

Create an AutoScaling Group with a desired capacity of 2, minimum 1 and Maximum 4

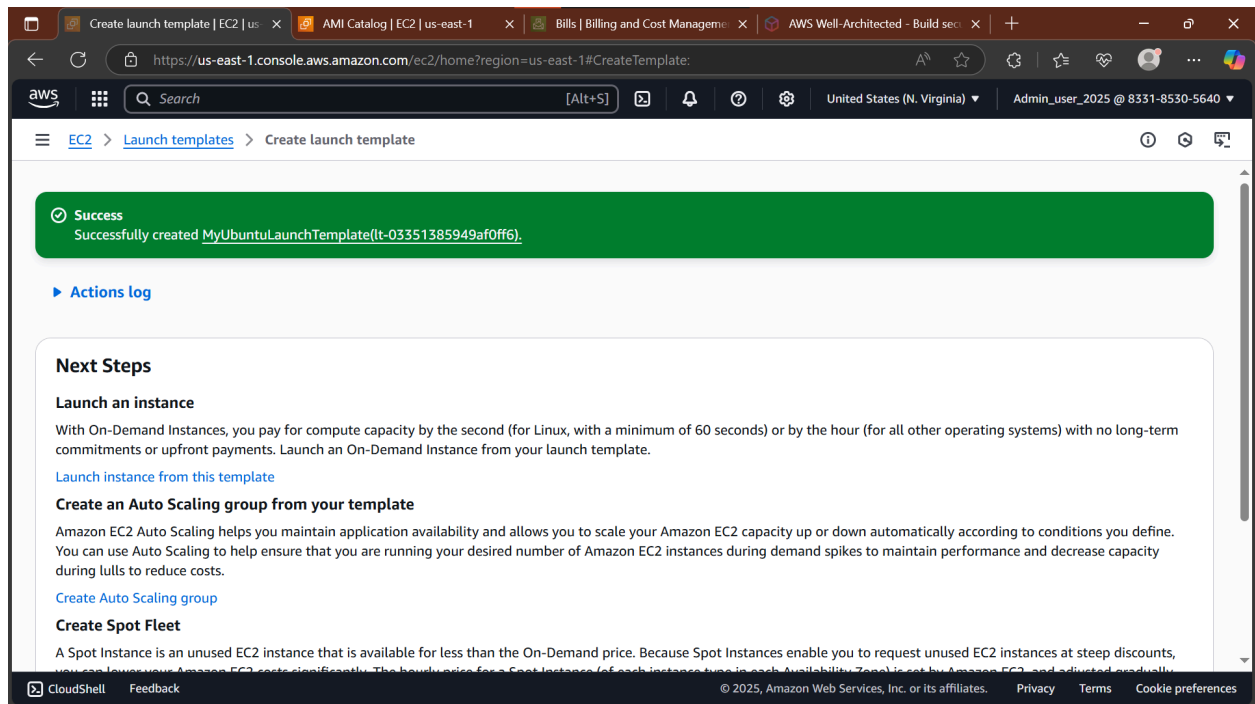
Delete 2 instances and observe the behavior.

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

SUBMISSION: Submit screenshots of Autoscaling group, launch template ,EC2 dashboard and message displayed in a single word or PDF doc.

Script used

```
#!/bin/bash
apt-get update
apt-get install -y apache2
echo "Welcome to my autoscaled website" > index.html
cp index.html /var/www/html
systemctl start apache2
systemctl enable apache2
```



Launch template created

Launch templates | EC2 | us-east-1 | x AMI Catalog | EC2 | us-east-1 | x Bills | Billing and Cost Management | x AWS Well-Architected - Build section | x

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

aws Search [Alt+S] United States (N. Virginia) Admin_user_2025 @ 8331-8530-5640

Launch Templates (1) Info

Search

Template ID	Launch Template Name	Default Version	Latest Version	Create Time
i85949af0ff6	MyUbuntuLaunchTemplate	1	1	2025-07-02T18:07:53.000Z

Select a launch template

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Create Auto Scaling group | EC2 | x AMI Catalog | EC2 | us-east-1 | x Bills | Billing and Cost Management | x AWS Well-Architected - Build section | x

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

aws Search [Alt+S] United States (N. Virginia) Admin_user_2025 @ 8331-8530-5640

EC2 > Auto Scaling groups > Create Auto Scaling group

Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Desired capacity type
Choose the unit of measurement for the desired capacity value. vCPUs and Memory(GiB) are only supported for mixed instances groups configured with a set of instance attributes.

Units (number of instances)

Desired capacity
Specify your group size.

2

Scaling Info
You can resize your Auto Scaling group manually or automatically to meet changes in demand.

Scaling limits
Set limits on how much your desired capacity can be increased or decreased.

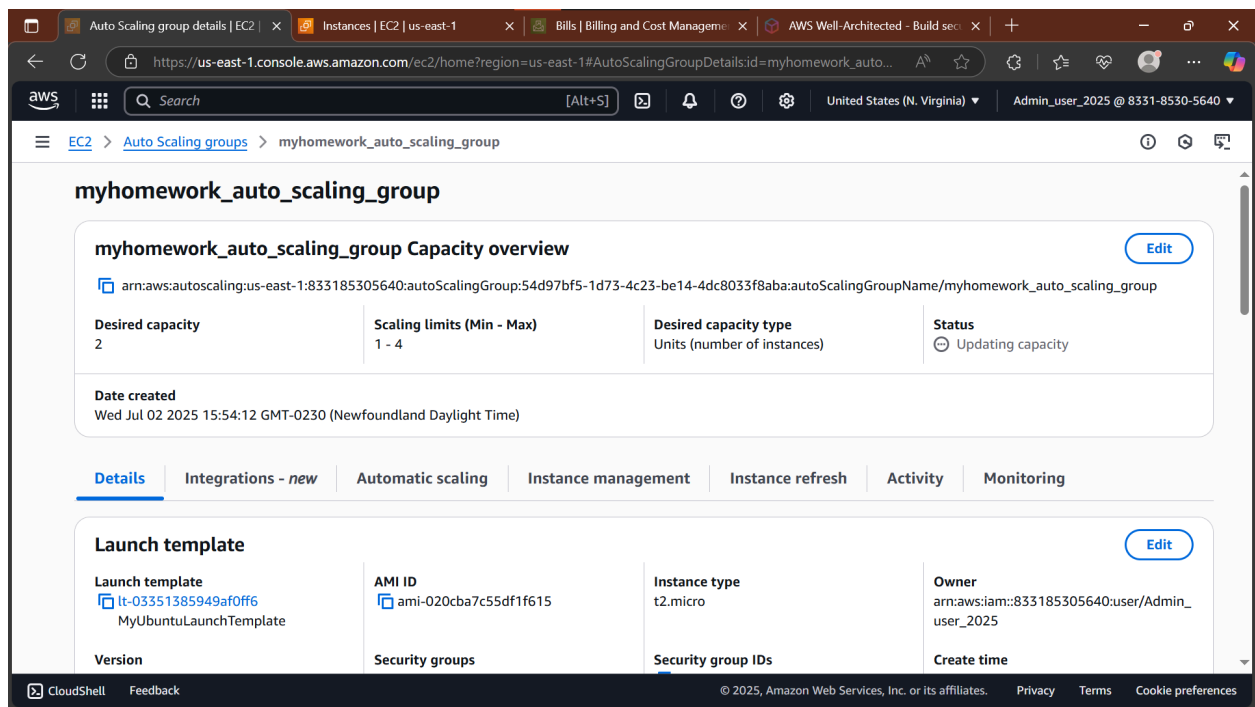
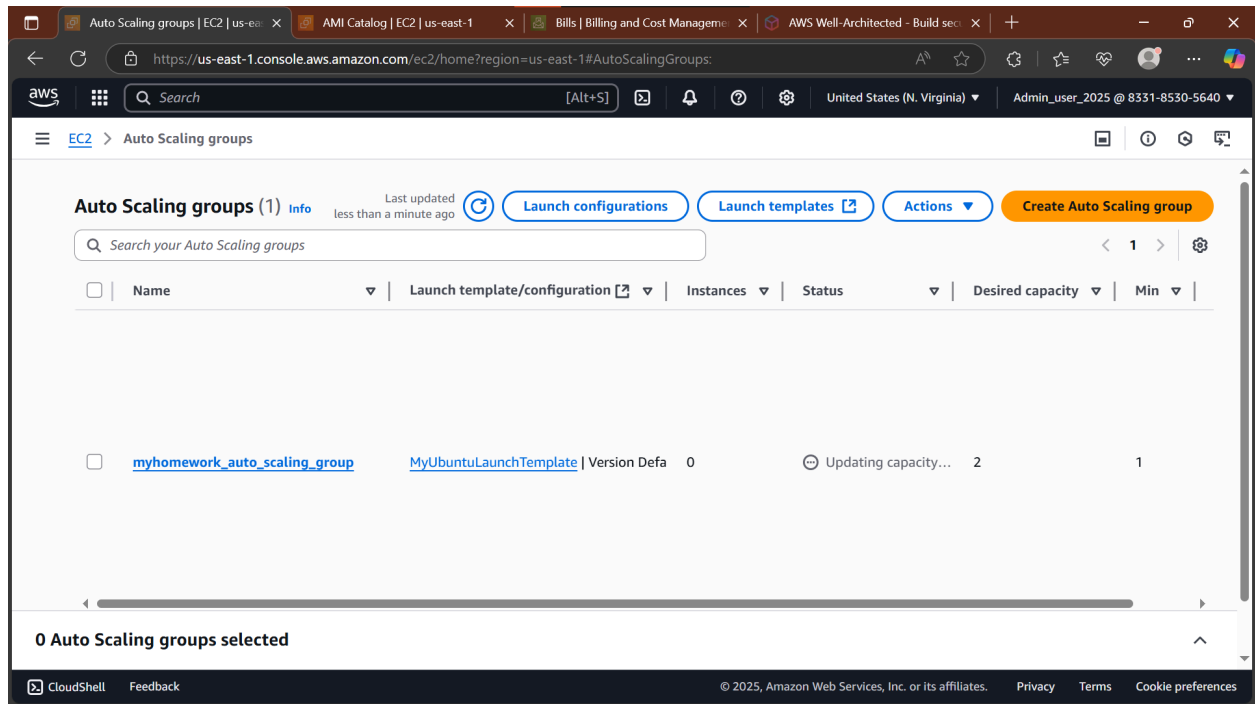
Min desired capacity
1
Equal or less than desired capacity

Max desired capacity
4
Equal or greater than desired capacity

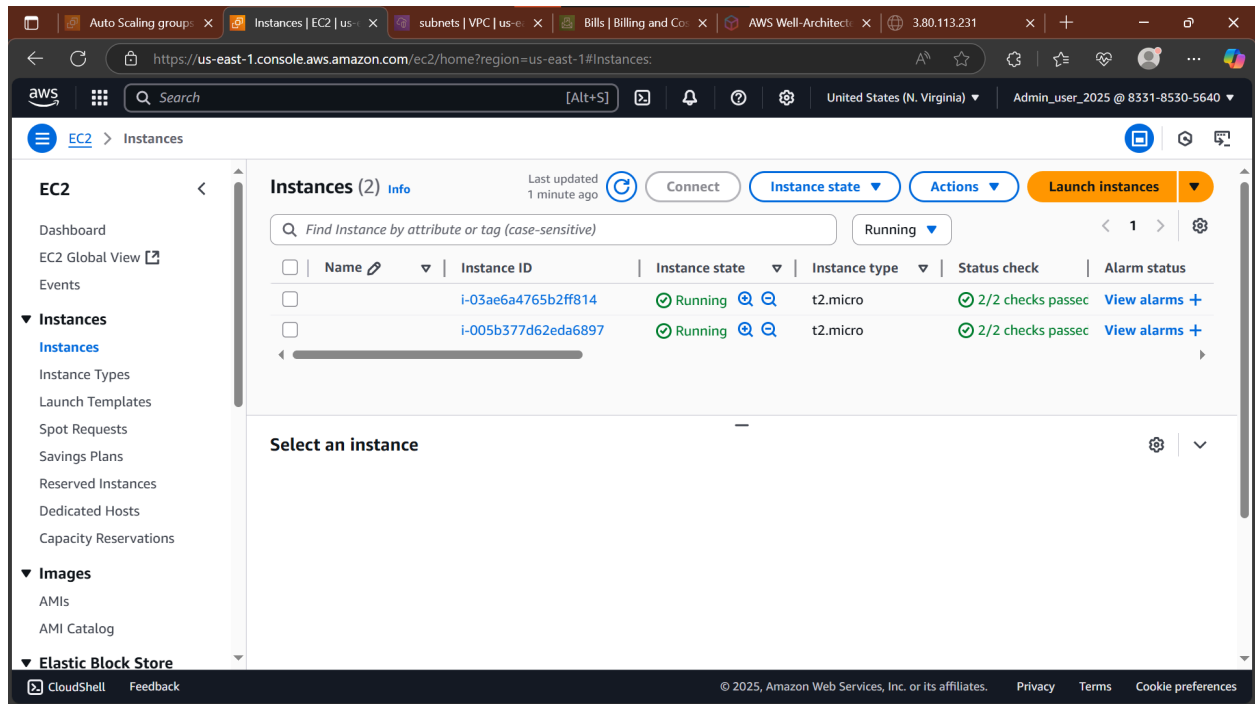
Automatic scaling - optional
Choose whether to use a target tracking policy Info
You can set up other metric-based scaling policies and scheduled scaling after creating your Auto Scaling group.

No scaling policies Target tracking scaling policy

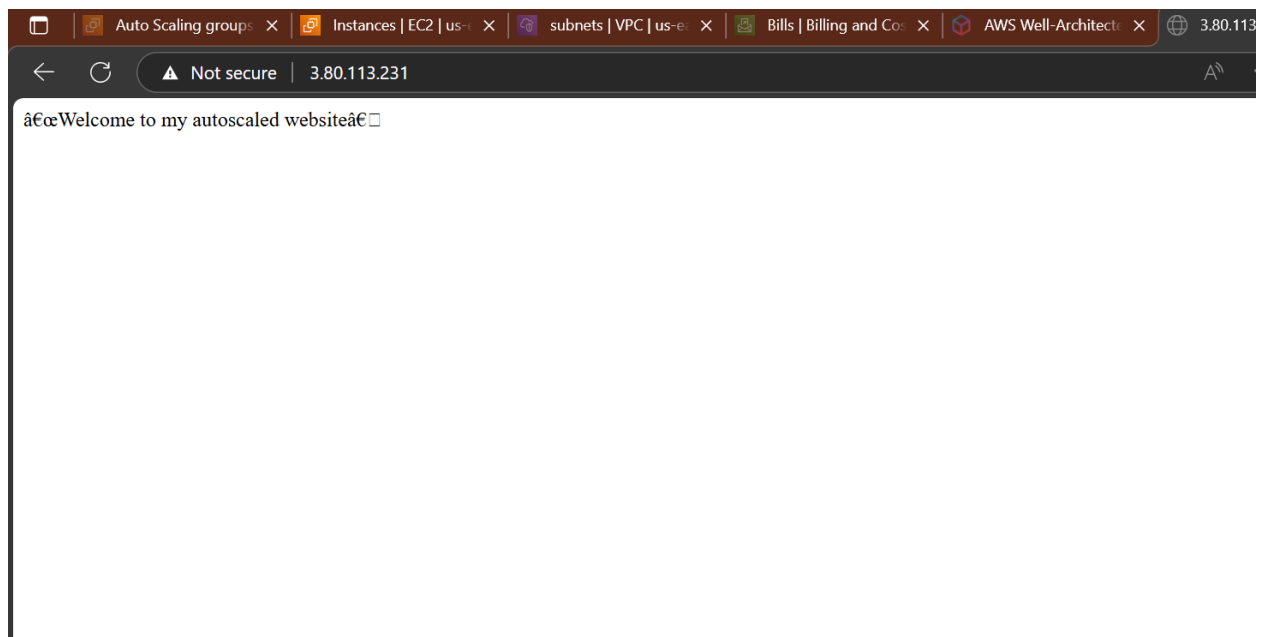
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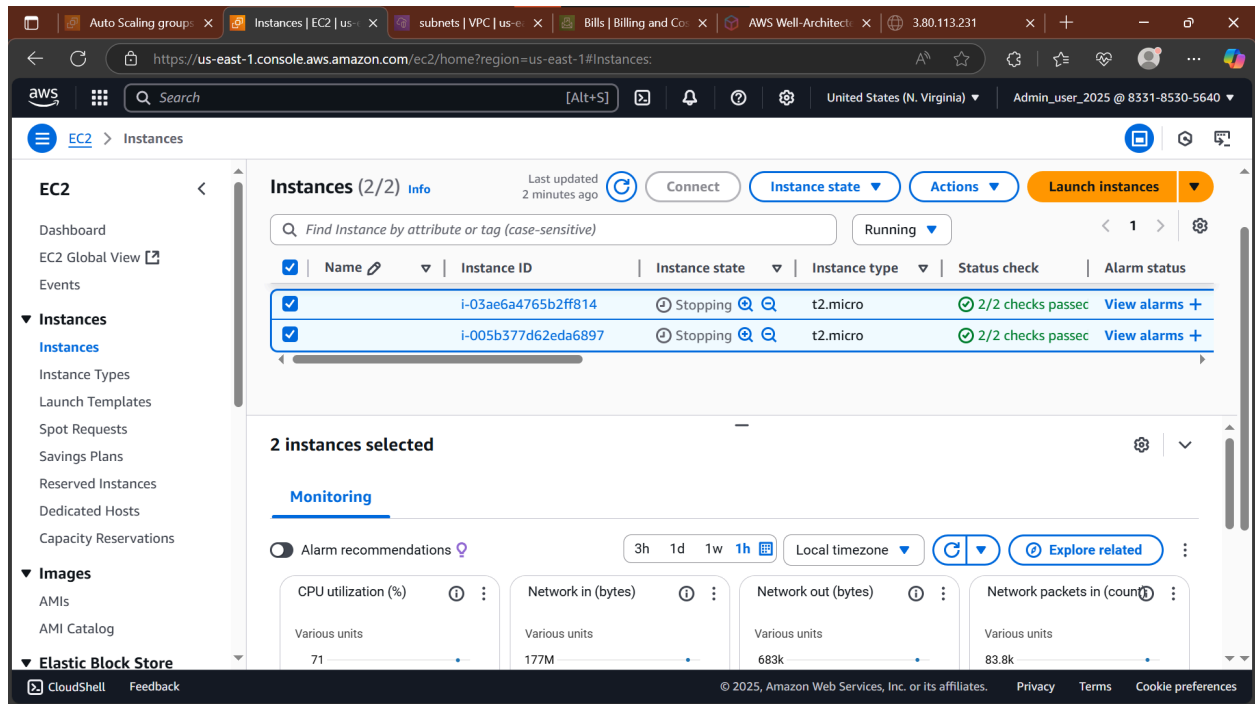
Autoscaling group created



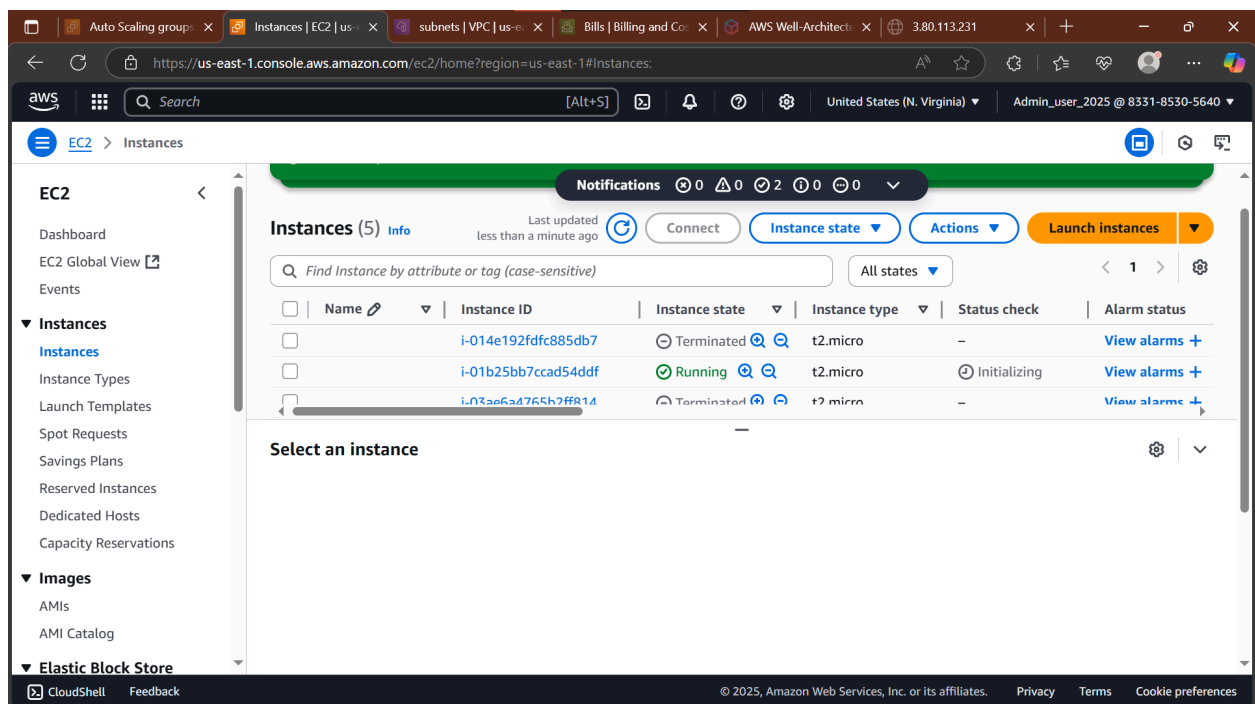
Instance launched automatically by autoscaling group



Userdata worked



Instances deleted to observe behavior



Another instance initializing after deleting the previous 2 instances