BUILD AMAZON AUTO SCALING

- TASK DETAILS:
  - Sign into AWS Management Console
  - Creating Launch Template
  - Create an Auto Scaling Group
  - Test the Auto Scaling Group
  - Validation of the Lab.
- What is Auto Scaling: Amazon EC2 auto scaling is designed as a fully managed service that controls the number of running instances, in case your workload is higher, it will match by launching more instances instantaneously.

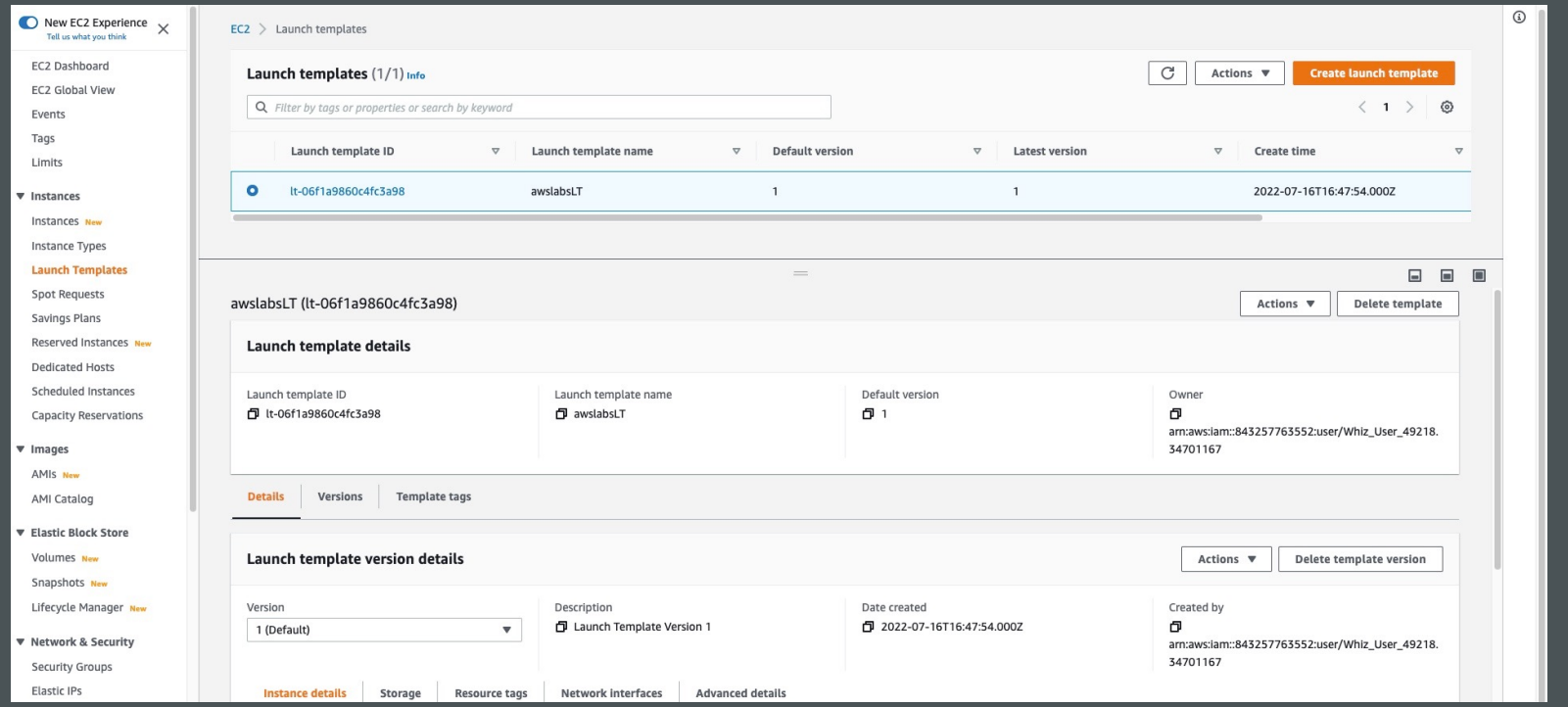
TASK 1

- This Task is about signing into the AWS console with my user & password credentials.
- Make sure to select: US East (N. Virginia) us-east-1
- Duration: is 1 hour

TASK 2

- This Task is creating Launch Template
- Make sure it's; US East (N.Virginia) us-east-1
- Launch Template name: awslabsLT
- Launch Template description: Launch Template Version 1
- Amazon machine image(AMI): Amazon Linux 2 AMI(HVM), SSD Volume Type
- Selected the instance type with: t2.micro(Free tier eligible)
- Key pair (Login): Don't include in a Launch template
- Network settings: selected the Default security of Default VPC
- Keep all the other settings as default & click create
- Details are shown in the next slide.

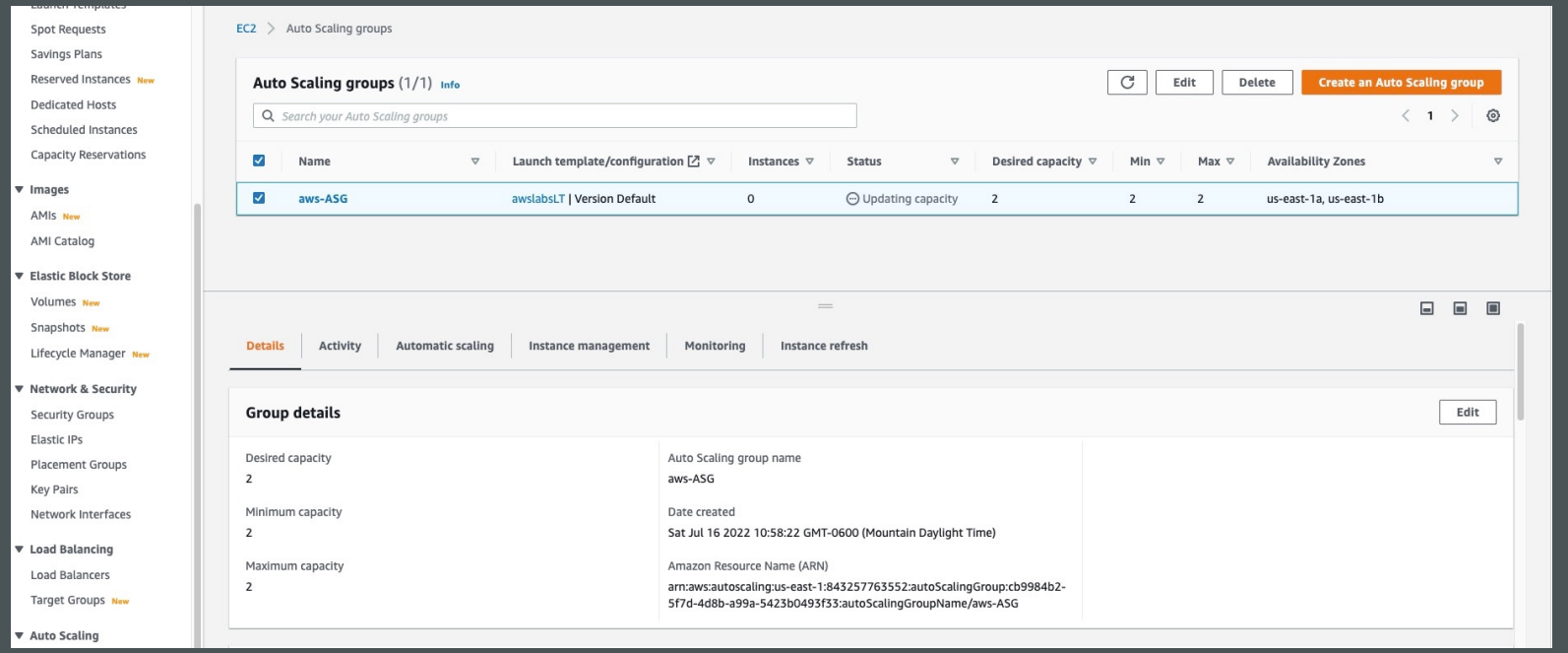
LAUNCH TEMPLATE DETAILS.



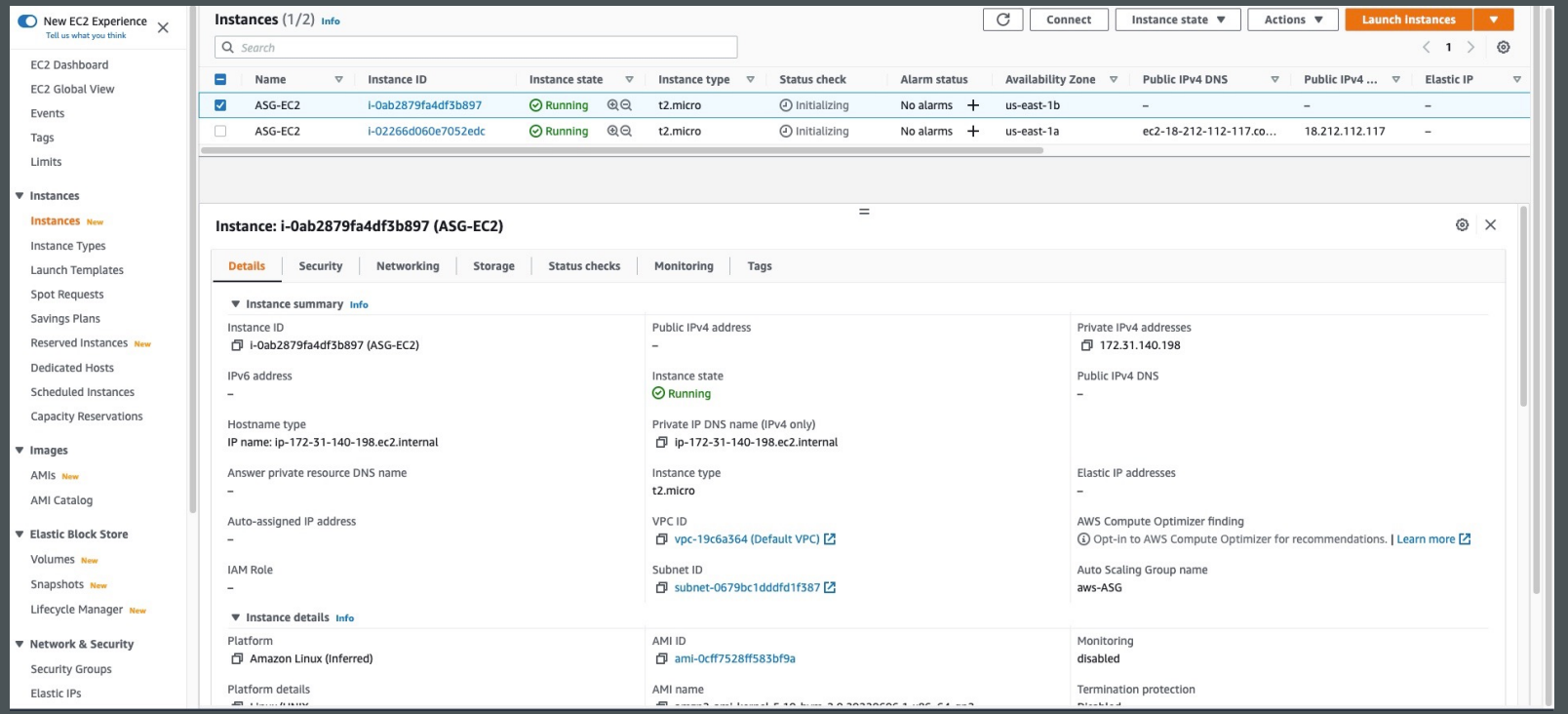
TASK 3

- in this Task I will create an Auto Scaling Group
- Go to EC2 and choose auto scaling Groups under Auto scaling
- Create Auto scaling group
  - Step1: choose Launch template or configuration
  - Auto scaling group name: aws-ASG
  - Launch template: awslabsLT
  - Step2: Configure settings
  - VPC: selected the default VPC from the list
  - Subnet: selected 2 subnets for the auto scaling instances
  - Step3: Configure advanced options (this step no changes are needed)
  - Step4: Configure group size and scaling policies
  - Desired capacity:2, Minimum capacity: 2. Maximum capacity: 2.
  - Step5&6: is mainly adding a tag name: Name; ASG-EC2
  - Click create Auto Scaling Group

AUTO SCALING GROUP DETAILS IN THE NEXT FEW SLIDES.



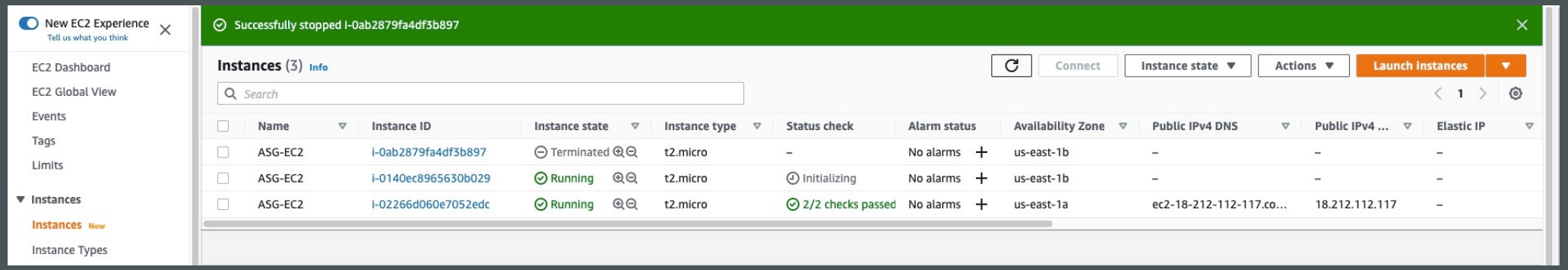
THIS SLIDE IS THE EC2 INSTANCES CREATED USING AUTO SCALING GROUP.



TASK 4

- In this Task, I will test Auto scaling group
  - For testing the ASG, go to the EC2 instance list and select one of the instances
  - Next, click stop instance
  - Once the instance is stopped (after 1-2 minutes) you can see that my instance will be terminating automatically, and a new instance will be launched to fulfill the policy creation.
  - Screenshot details are provided next slides.

AUTO SCALING AUTOMATICALLY CREATED A NEW EC2 INSTANCE.



THREE EC2 INSTANCES ARE SHOWN, TWO OF THEM ARE FUNCTIONING PROPERLY AND THE OTHER ONE IS TERMINATED.