Assignment Lab 4

Student: Xuan Loc, Le (618656)

Task 1. Run 2 web servers behind ALB

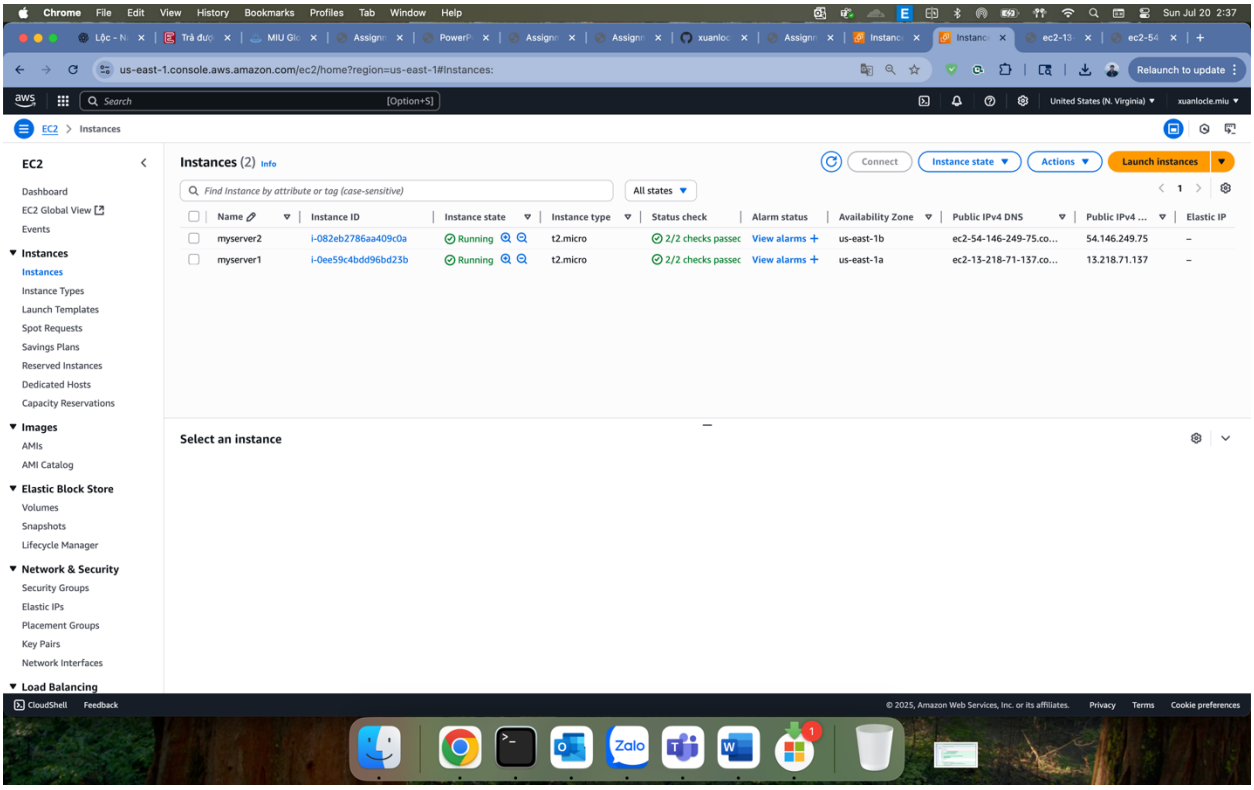


Figure 1Created 2 EC2 instance

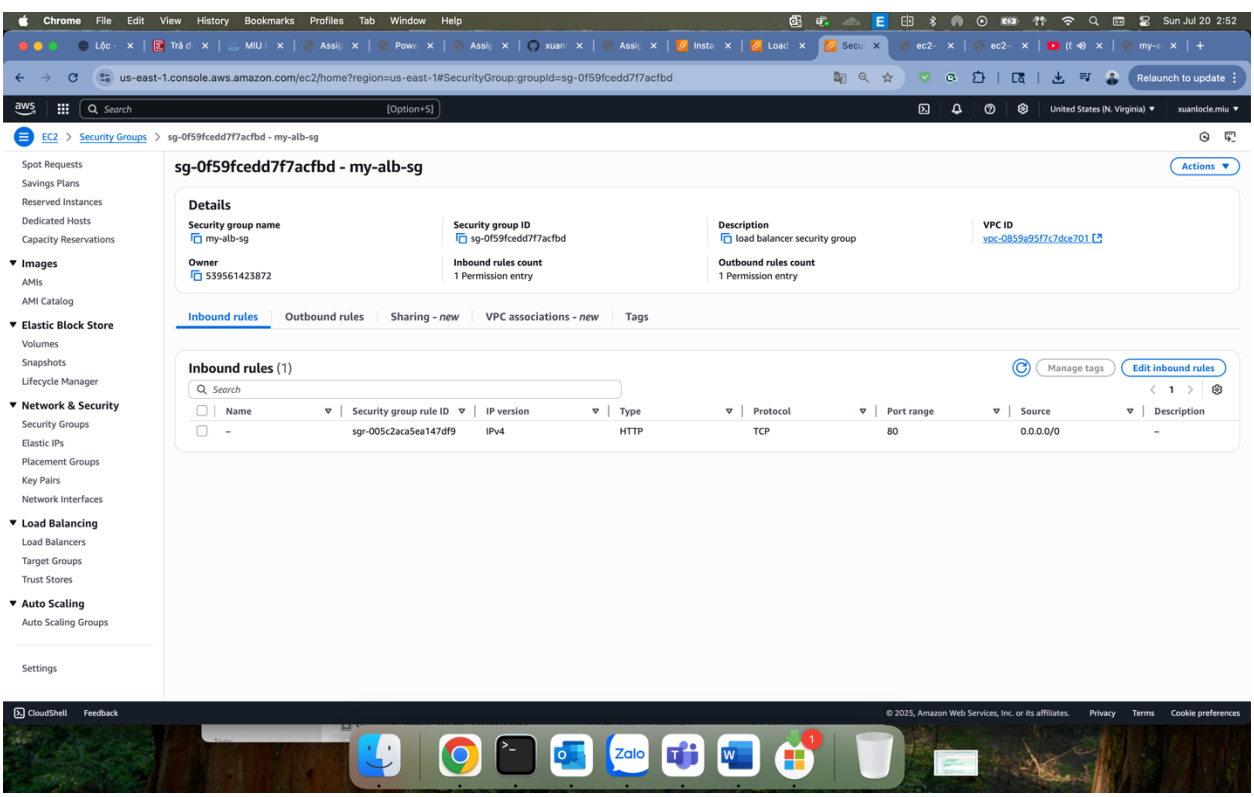
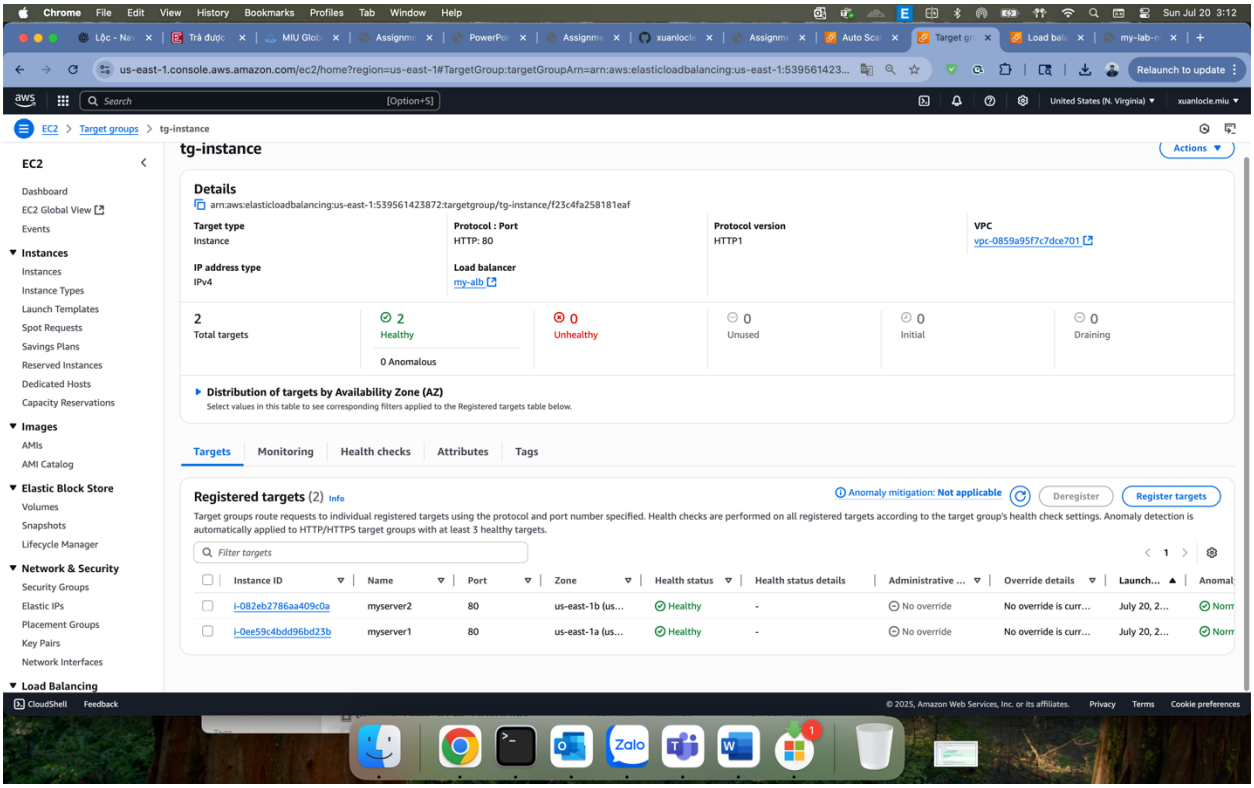


Figure 2: Add security group, allow 80



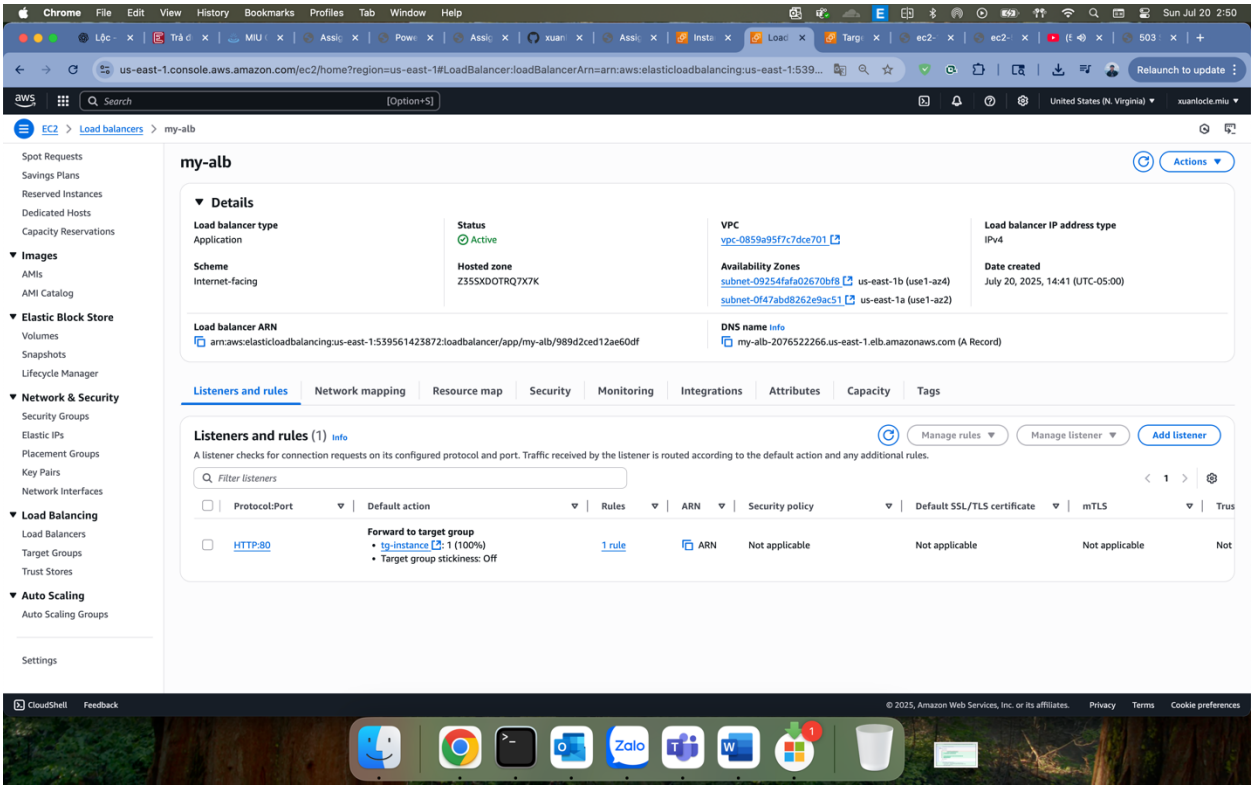
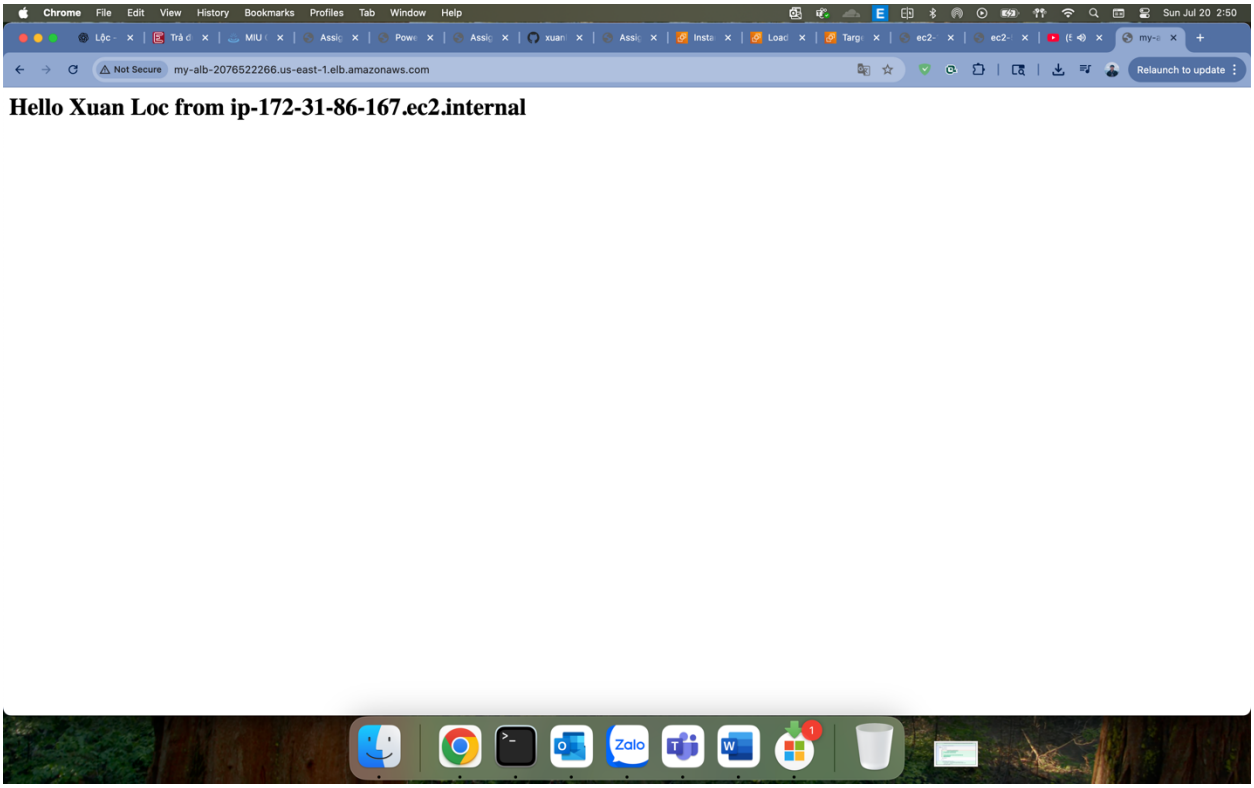
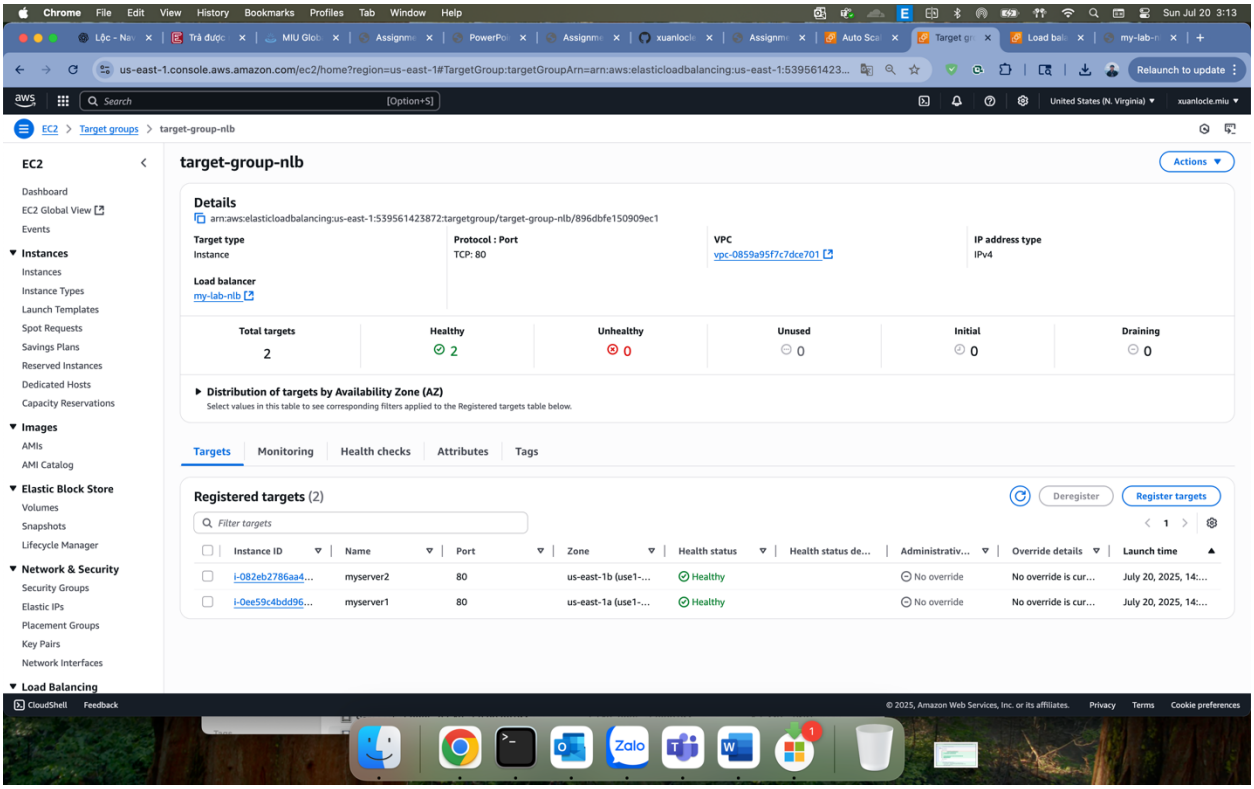
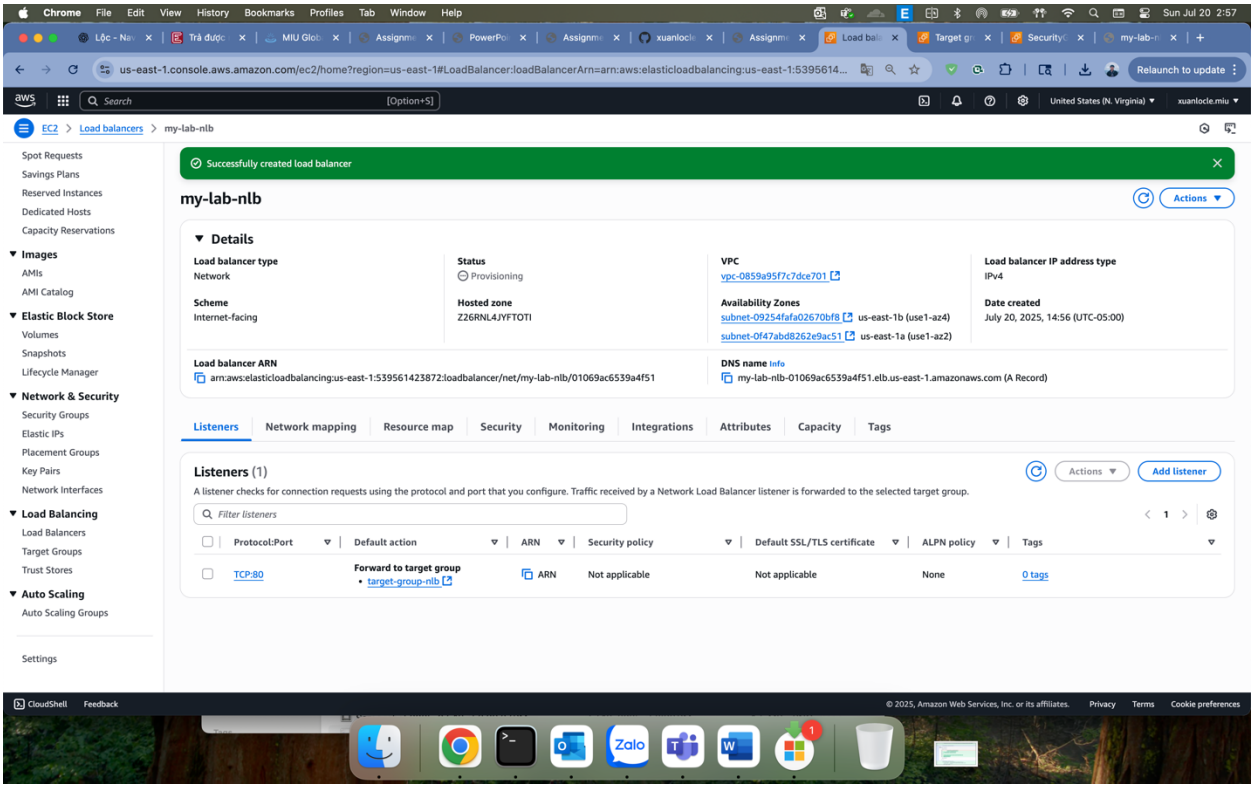


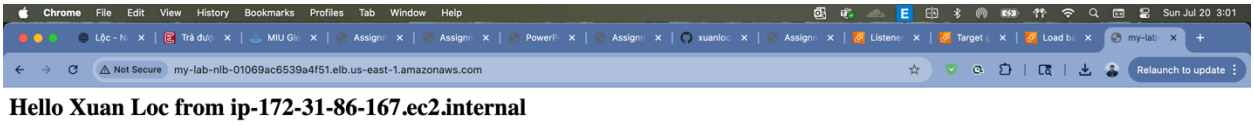
Figure 3: Created load balancer with target group

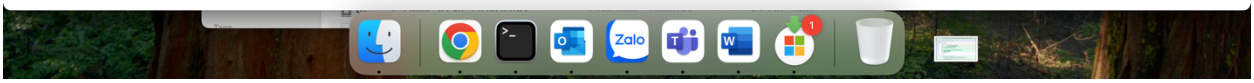


Task 2. Run web servers behind NLB









Task 3. Run the web server in ASG

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroupDetails:id=my-lab-as-group;view=details

EC2 > Auto Scaling groups > my-lab-as-group

my-lab-as-group

my-lab-as-group Capacity overview

Edit

arn:aws:autoscaling:us-east-1:539561423872:autoScalingGroup:9cbfe5dd-9922-4ace-9094-9df96d39c38e:autoScalingGroupName/my-lab-as-group

Desired capacity	Scaling limits (Min - Max)	Desired capacity type	Status
1	1 - 3	Units (number of instances)	Updating capacity

Date created
Sun Jul 20 2025 15:11:40 GMT-0500 (Central Daylight Time)

Details | Integrations - *new* | Automatic scaling | Instance management | Instance refresh | Activity | Monitoring

Launch template

Edit

Launch template	AMI ID	Instance type	Owner
lt-0512084f106135e18 my-lab-template	ami-0150ccaf51ab55a51	t2.micro	arn:aws:iam::539561423872:root
Version	**Security groups**	**Security group IDs**	**Create time**
Default	-	sg-0f59fcedd7f7acfbd sg-000449ee00c6f3c8a	Sun Jul 20 2025 15:07:10 GMT-0500 (Central Daylight Time)
Description	**Storage (volumes)**	**Key pair name**	**Request Spot Instances**
-	-	-	No

View details in the launch template console

Network

Edit

Availability Zones	Subnet ID	Availability Zone distribution
use1-az4 (us-east-1b) use1-az2 (us-east-1a)	subnet-09254fafa02670bf8 subnet-0f47abd8262e9ac51	Balanced best effort

Instance type requirements

Edit

Your Auto Scaling group adheres to the launch template for purchase option and instance type.

Load balancing and VPC Lattice options have moved to the new integrations tab. View integrations tab

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchTemplateDetails:launchTemplateId=lt-0512084f106135e18

EC2 > Launch templates > my-lab-template

my-lab-template (lt-0512084f106135e18)

Actions | Delete template

Launch template details

Launch template ID	Launch template name	Default version	Owner
lt-0512084f106135e18	my-lab-template	1	arn:aws:iam::539561423872:root

Details | Versions | Template tags

Launch template version details

Actions | Delete template version

Version	Description	Date created	Created by
1 (Default)	-	2025-07-20T20:07:10.000Z	arn:aws:iam::539561423872:root

Instance details | Storage | Resource tags | Network interfaces | Advanced details

AMI ID	Instance type	Availability Zone	Key pair name
ami-0150ccaf51ab55a51	t2.micro	-	-
Security groups	**Security group IDs**		
-	sg-0f59fcedd7f7acfbd, sg-000449ee00c6f3c8a		

EC2
- Dashboard
- EC2 Global View
- Events
- **Instances**
  - Instances
  - Instance Types
  - Launch Templates
  - Spot Requests
  - Savings Plans
  - Reserved Instances
  - Dedicated Hosts
  - Capacity Reservations
- **Images**
  - AMIs
  - AMI Catalog
- **Elastic Block Store**
  - Volumes
  - Snapshots
  - Lifecycle Manager
- **Network & Security**
  - Security Groups
  - Elastic IPs
  - Placement Groups
  - Key Pairs
  - Network Interfaces
- **Load Balancing**

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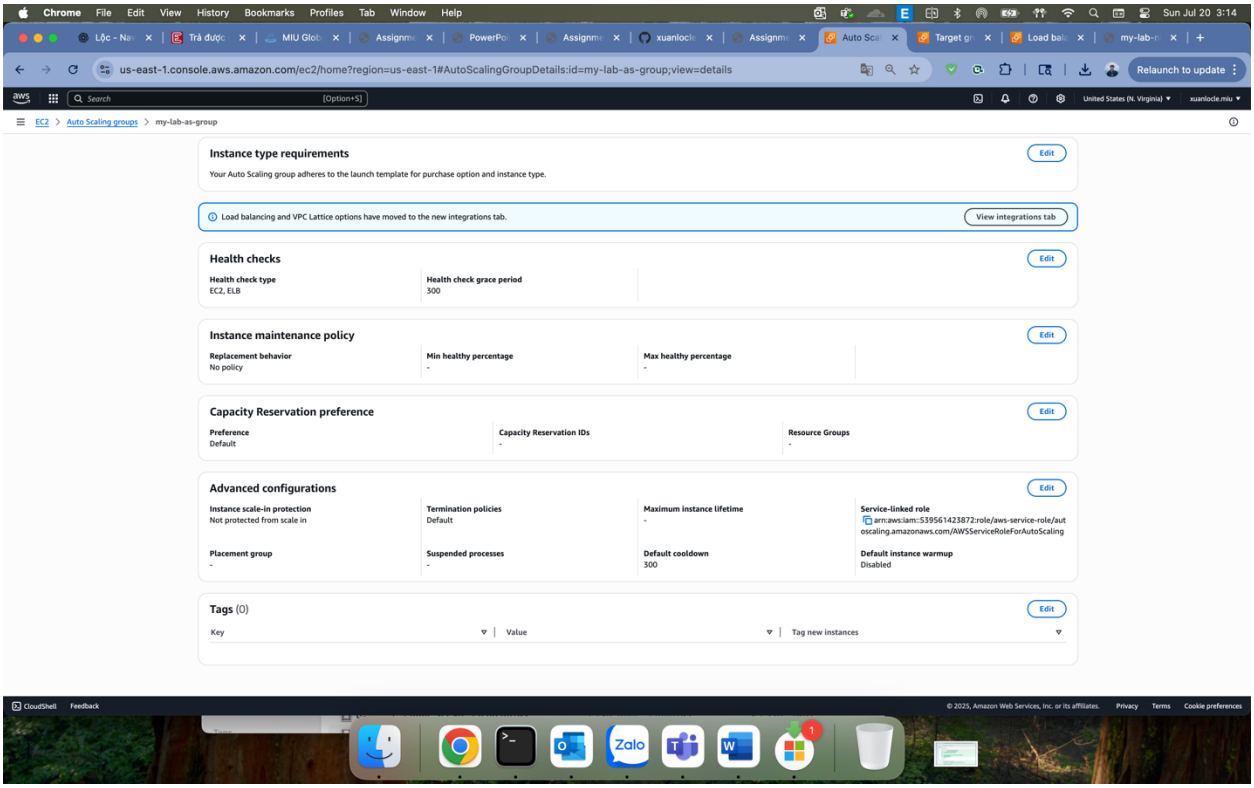
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroupDetails:id=my-lab-as-group;view=details
EC2 > Auto Scaling groups > my-lab-as-group
Instance type requirements
Edit
Your Auto Scaling group adheres to the launch template for purchase option and instance type.
Load balancing and VPC Lattice options have moved to the new integrations tab.
View integrations tab
Health checks
Edit
Health check type
EC2, ELB
Health check grace period
300
Instance maintenance policy
Edit
Replacement behavior
No policy
Min healthy percentage
-
Max healthy percentage
-
Capacity Reservation preference
Edit
Preference
Default
Capacity Reservation IDs
-
Resource Groups
-
Advanced configurations
Edit
Instance scale-in protection
Not protected from scale in
Termination policies
Default
Maximum instance lifetime
-
Service-linked role
arn:aws:iam:539561423872:role/aws-service-role/autoscaling.amazonaws.com/AWSServiceRoleForAutoScaling
Placement group
-
Suspended processes
-
Default cooldown
300
Default instance warmup
Disabled
Tags (0)
Edit
Key
Value
Tag new instances
CloudShell
Feedback
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