

Assignment Lab 4

Task 1. Run 2 web servers behind ALB

EC2 > Security Groups > sg-0c0f3c446b0d2a5ee - my-lab-alb-sg

sg-0c0f3c446b0d2a5ee - my-lab-alb-sg

Actions

Details

Security group name my-lab-alb-sg	Security group ID sg-0c0f3c446b0d2a5ee	Description Lab application load balancer SG	VPC ID vpc-012a447626c641f9f
Owner 009448477287	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

Inbound rules

Outbound rules

Tags

Inbound rules (1)

Search

< 1 >

<input type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol	Port range	
<input type="checkbox"/>	-	sgr-07200ad10c6d02eec	IPv4	HTTP	TCP	80	

EC2 > Security Groups > sg-0ce111df973ce9fd9 - my-lab-EC2-server-sg

sg-0ce111df973ce9fd9 - my-lab-EC2-server-sg

Actions

Details

Security group name my-lab-EC2-server-sg	Security group ID sg-0ce111df973ce9fd9	Description Web Server SG	VPC ID vpc-012a447626c641f9f
Owner 009448477287	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

Inbound rules

Outbound rules

Tags

Inbound rules (1)

Search

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IP version	Type	Protocol	Port range	Source	Description
-	HTTP	TCP	80	sg-0c0f3c446b0d2a5ee / my-lab-alb-sg	-

Hello YourName from ip-172-31-7-48.ec2.internal

Task 2. Run web servers behind NLB

EC2 Dashboard

EC2 Global View

Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations New

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AMIs

AMI Catalog

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Volumes

Snapshots

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Security Groups

Elastic IPs

Placement Groups

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Network Interfaces

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Load Balancers

Target Groups

aws

Services

Search

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votlabs/user2870325~murwanalah @ 0094-4847-7287

EC2 > Load balancers

Introducing client routing policies with Availability Zone affinity for Network Load Balancers

Set a policy to allow a percentage of client DNS queries to favor load balancer IP addresses in their own Availability Zone. This helps improve both latency and resiliency. [Learn more](#)

Load balancers (1/1)

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

1 match

Murwan-NetworkLoadBalancer

Clear filters

	Name	DNS name	State	VPC ID	Availability Zones	Type	Date created
<input type="checkbox"/>	Murwan-NetworkLoad...	Murwan-NetworkLoadBala...	Provisioning	vpc-012a447626c641f9f	2 Availability Zones	network	November 19, 2023, 18:02 (UTC-06:00)

Load balancer: Murwan-LoadBalancer

Details

Listeners and rules

Network mapping

Security

Monitoring

Integrations

Attributes

Tags

Details

Load balancer type	Status	VPC	IP address type
Application	Active	vpc-012a447626c641f9f	IPv4
Scheme	Hosted zone	Availability Zones	Date created
Internet-facing	Z35SXDOTRQ7K7K	subnet-0f5f8dab7a0841207 us-east-1b (use1-az2)	November 19, 2023, 17:42 (UTC-06:00)
		subnet-04be139477d8e1d15 us-east-1a (use1-az1)	
Load balancer ARN	DNS name		
arn:aws:elasticloadbalancing:us-east-1:009448477287:loadbalancer/app/Murwan-LoadBalancer/4d61700812751c6f	Murwan-LoadBalancer-1669345168.us-east-1.elb.amazonaws.com (A Record)		

CloudShell

Feedback

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murwan-networkloadbalancer-d51oad220b717360.elb.us-east-1.amazonaws.com

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Hello YourName from ip-172-31-7-48.ec2.internal

Task 3. Run the web server in ASG

The screenshot displays the AWS Management Console interface, divided into two main sections. The top section shows the 'Launch Templates' page, and the bottom section shows the 'Auto Scaling groups' page.

Launch Templates (1/1)

Launch Template ID	Launch Template Name	Default Version	Latest Version	Create Time	Created By
lt-059b0fd60ba7e0e2f	My-Template	1	1	2023-11-20T00:06:56.000Z	arn:aws:sts:009448477287:assumed-role/voclabs/user2870325-murwansalah

My-Template (lt-059b0fd60ba7e0e2f)

Launch template details

Launch template ID	Launch template name	Default version	Owner
lt-059b0fd60ba7e0e2f	My-Template	1	arn:aws:sts:009448477287:assumed-role/voclabs/user2870325-murwansalah

Launch template version details

Version	Description	Date created	Created by
1 (Default)	-	2023-11-20T00:06:56.000Z	arn:aws:sts:009448477287:assumed-role/voclabs/user2870325-murwansalah

Auto Scaling groups (1/1)

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability Zones
My-ASG	My-Template Version Default	2	-	2	1	3	us-east-1a, us-east-1b

Auto Scaling group: My-ASG

Group details

Auto Scaling group name	Desired capacity	Desired capacity type	Amazon Resource Name (ARN)
My-ASG	2	Units (number of instances)	arn:aws:autoscaling:us-east-1:009448477287:autoScalingGroup:18c8ea85-526e-4a2f-8a60-667688f95077:autoScalingGroupName/My-ASG
Date created	Minimum capacity	Status	
Sun Nov 19 2023 18:11:44 GMT-0600 (Central Standard Time)	1	-	
	Maximum capacity		
	3		