

EC2 with ELB and ASG

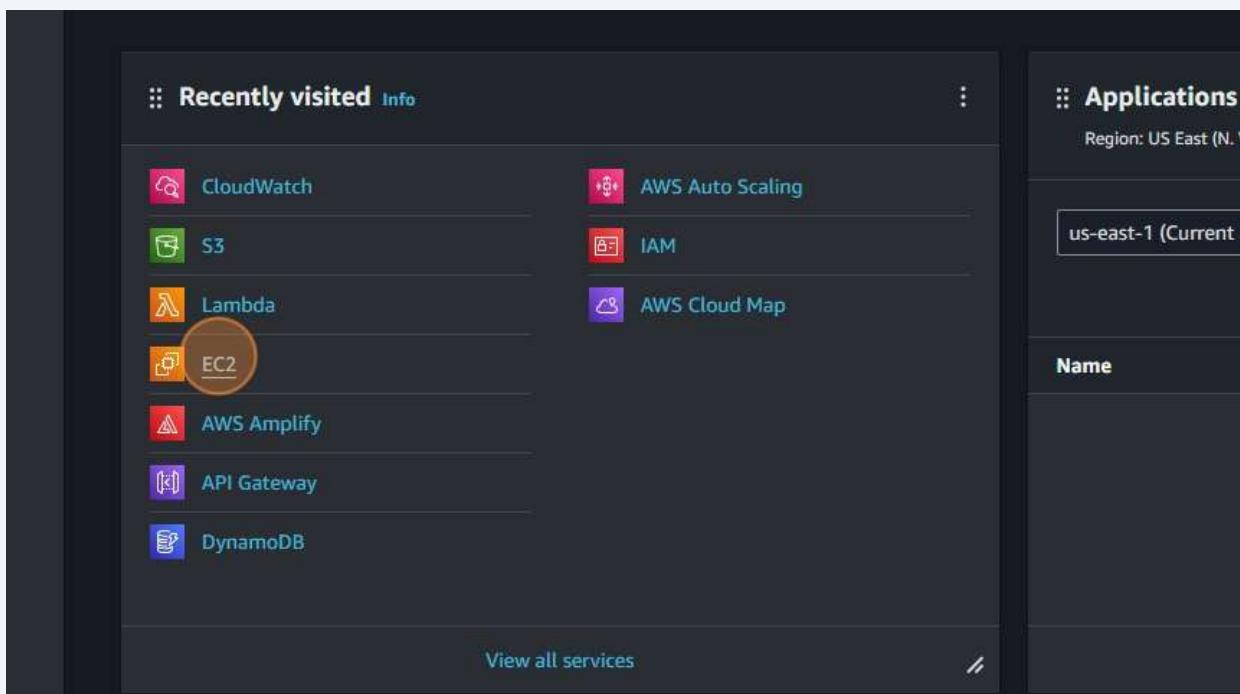
1

Navigate to

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

2

Click "EC2"



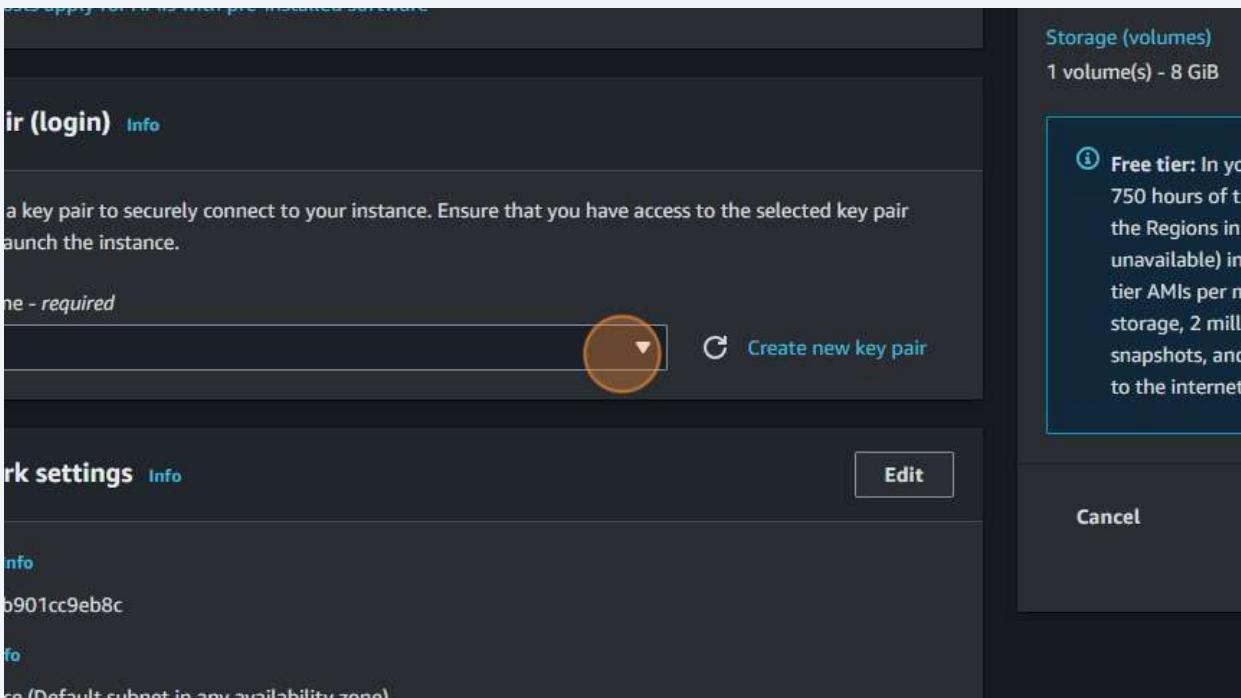
3 Click "Instances"

The screenshot shows the AWS EC2 Dashboard. On the left, a sidebar menu is open under the 'Instances' heading, with 'Instances' highlighted by a red circle. The main panel is titled 'Resources' and displays a summary of Amazon EC2 resources in the US East (N. Virginia) Region. The resources listed are: Instances (running) 0, Dedicated Hosts 0, Instances 0, Load balancers 0, Security groups 2, Volumes 0, Auto Scaling Groups, Elastic IPs, Key pairs, Placement groups, and Snapshots.

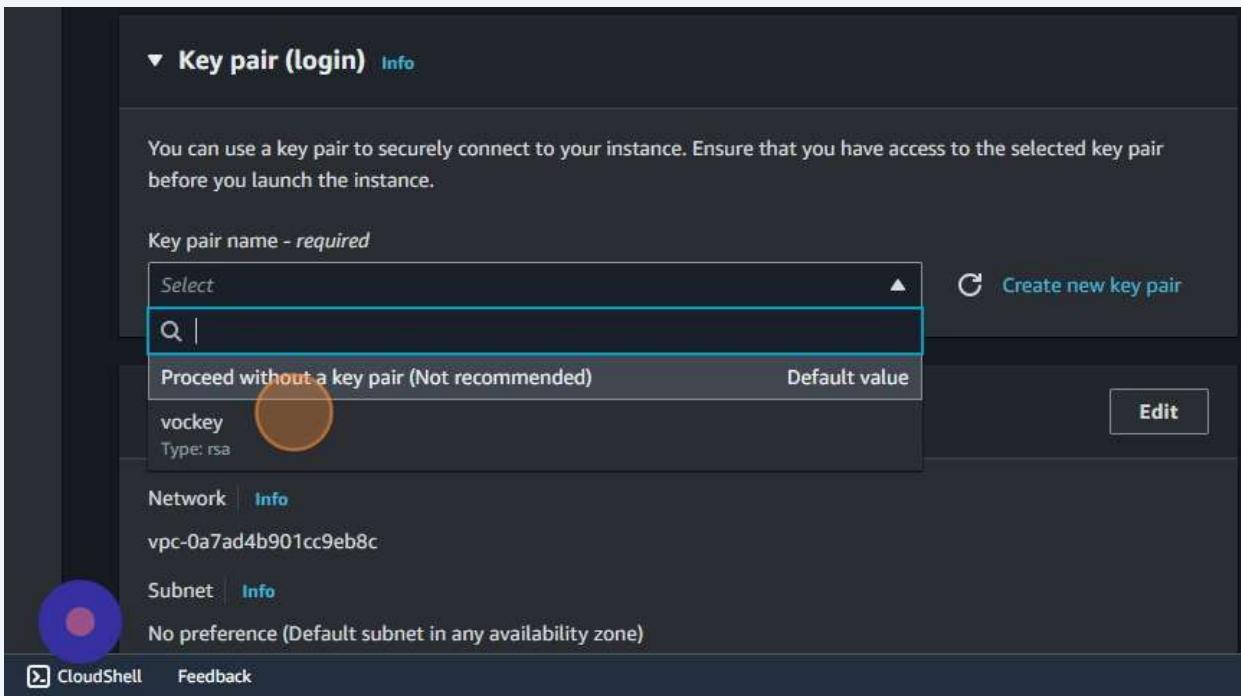
4 Click here.

The screenshot shows the AWS Lambda console. At the top, there is a search bar with placeholder text 'Search our full catalog including 1000s of application and OS images'. Below the search bar, there are two tabs: 'Recents' and 'Quick Start', with 'Quick Start' being the active tab. Under the 'Quick Start' tab, there are six cards representing different Amazon Machine Images (AMIs): 'Amazon Linux' (selected and highlighted with a red circle), 'macOS', 'Ubuntu', 'Windows', 'Red Hat', and 'SUSE Linux'. To the right of these cards is a search icon and a link 'Browse more AMIs' with the subtext 'Including AMIs from AWS, Marketplace and the Community'. Below the AMI cards, there is a section titled 'Amazon Machine Image (AMI)' featuring the 'Amazon Linux 2023 AMI'. The details shown are: ami-0440d3b780d96b29d (64-bit (x86), uefi-preferred) / ami-0f93c02efd1974b8b (64-bit (Arm), uefi). Virtualization: hvm ENA enabled: true Root device type: ebs. A 'Free tier eligible' button with a dropdown arrow is also present. At the bottom of this section, there is a 'Description' field containing the text 'Amazon Linux 2023 AMI 2023.3.20240219.0 x86_64 HVM kernel-6.1'.

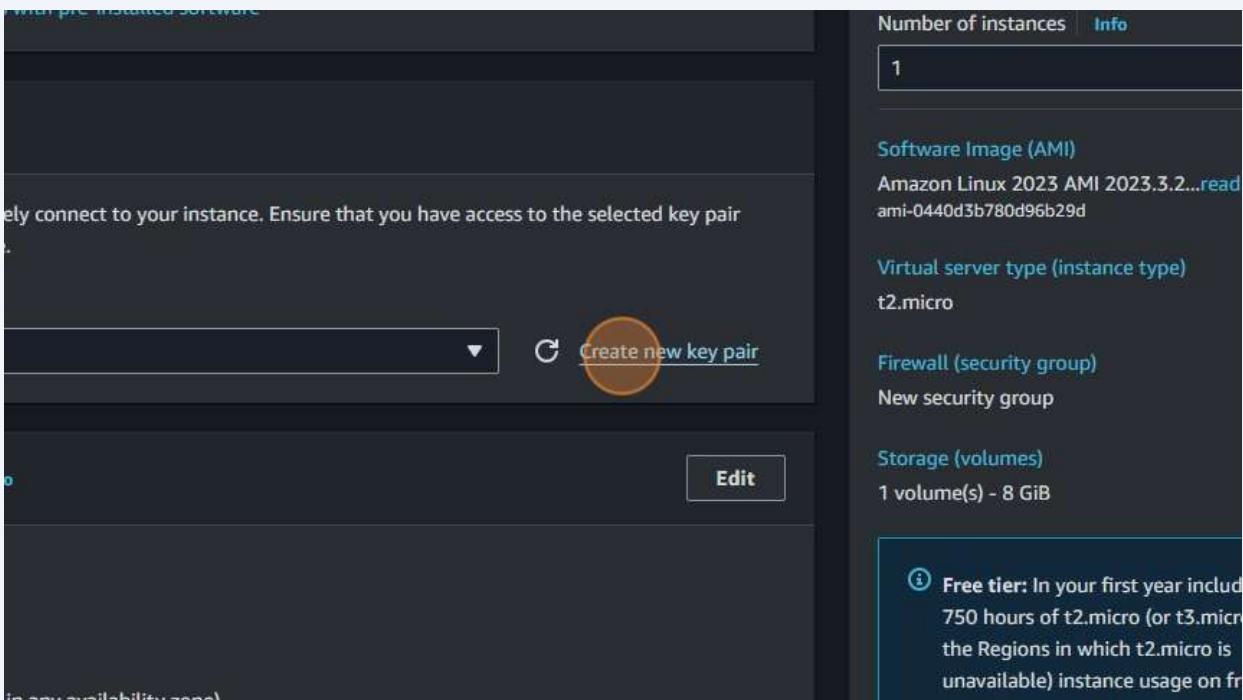
- 5 Click "Select"



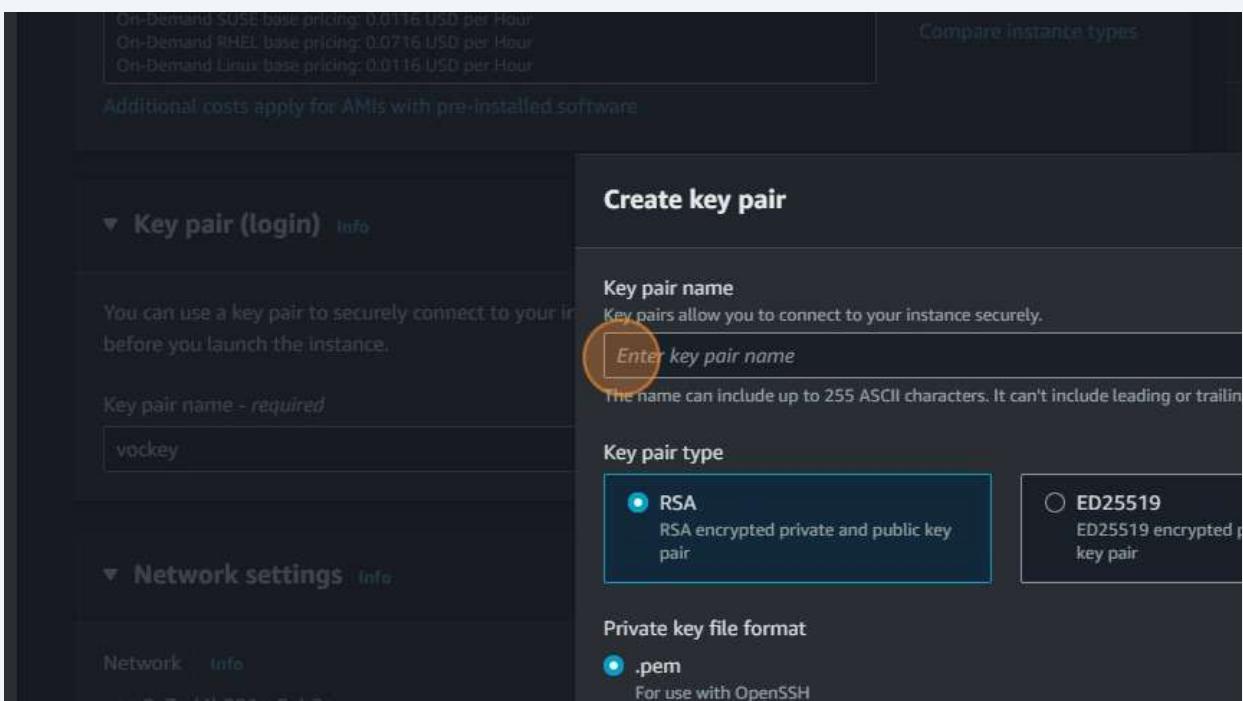
- 6 Click "vockey"



- 7 Click "Create new key pair"

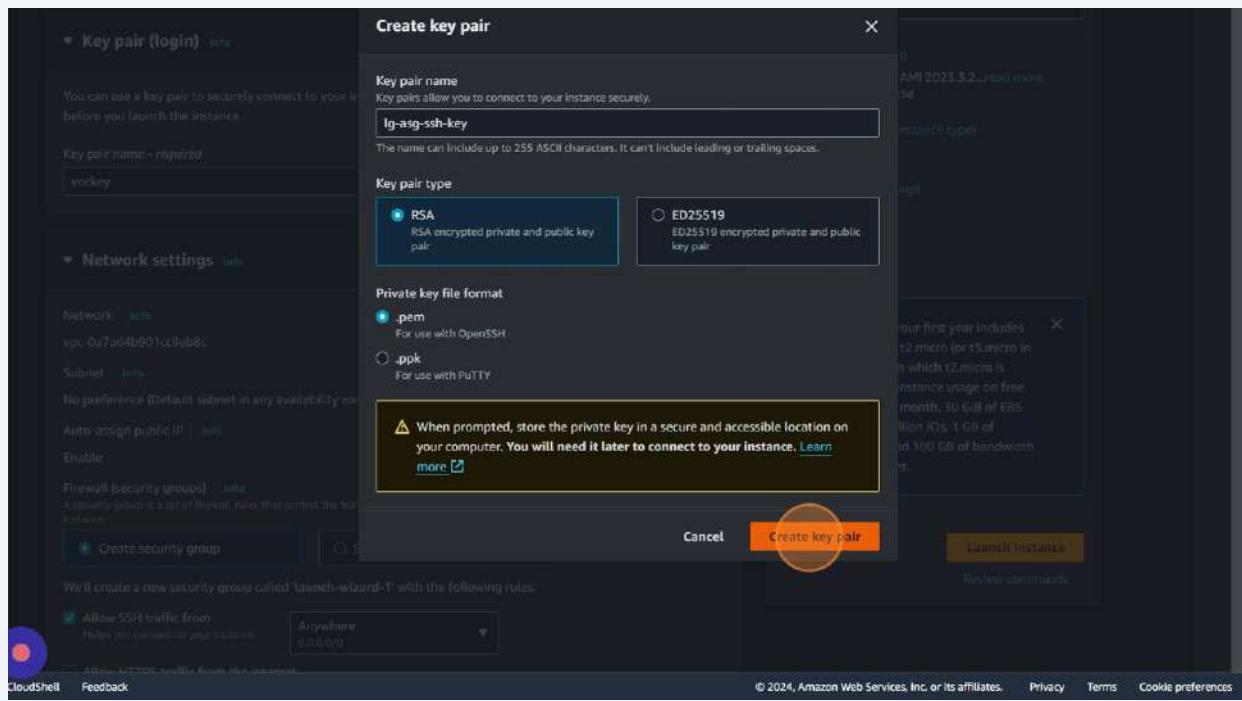


- 8 Click the "Key pair name" field.

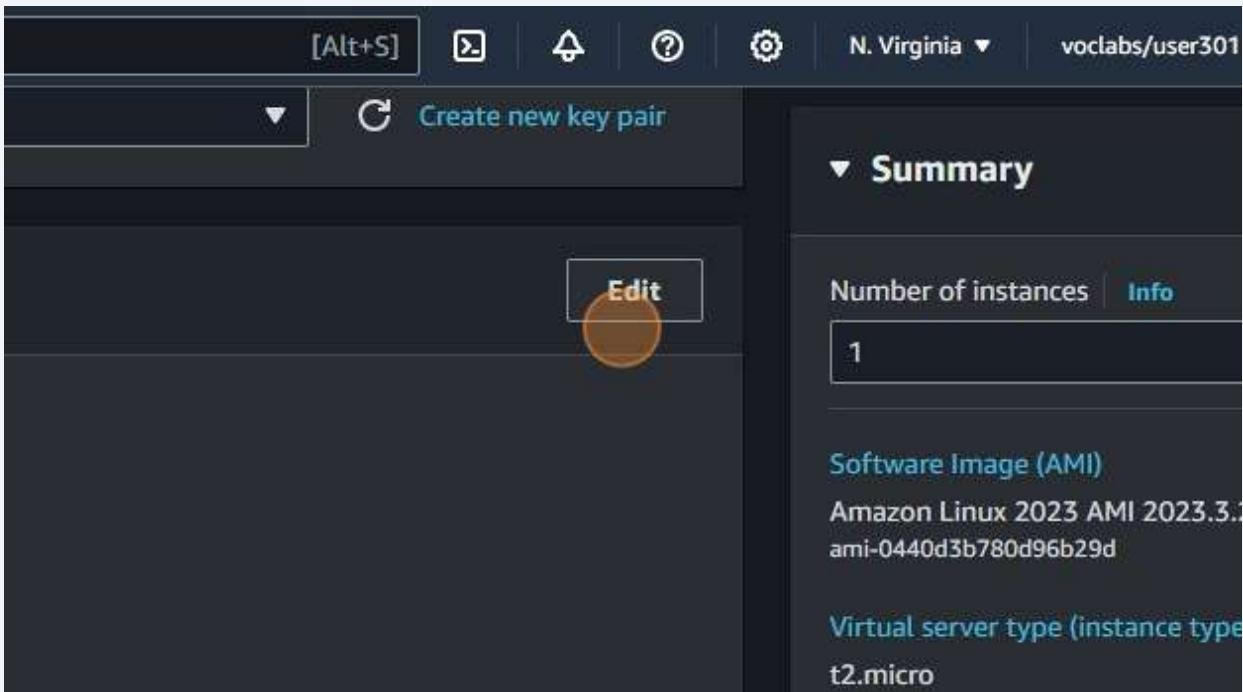


9 Type " Backspace lg-asg-ssh-key"

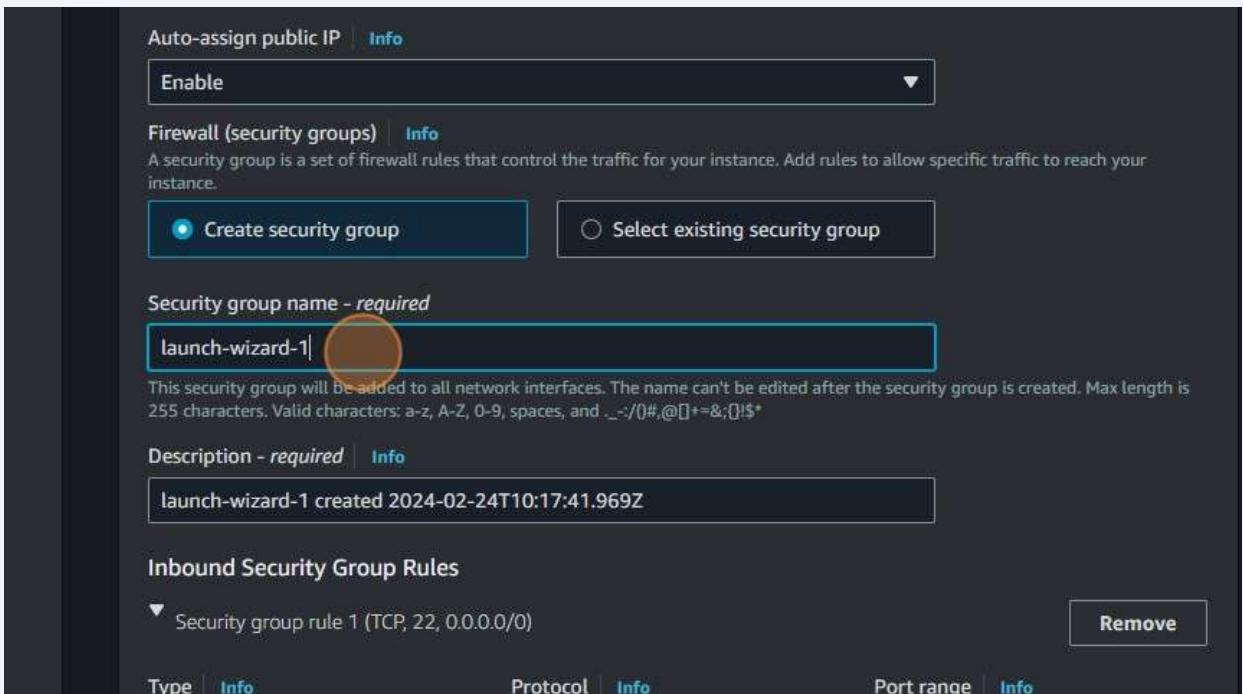
10 Click "Create key pair"



11 Click here.

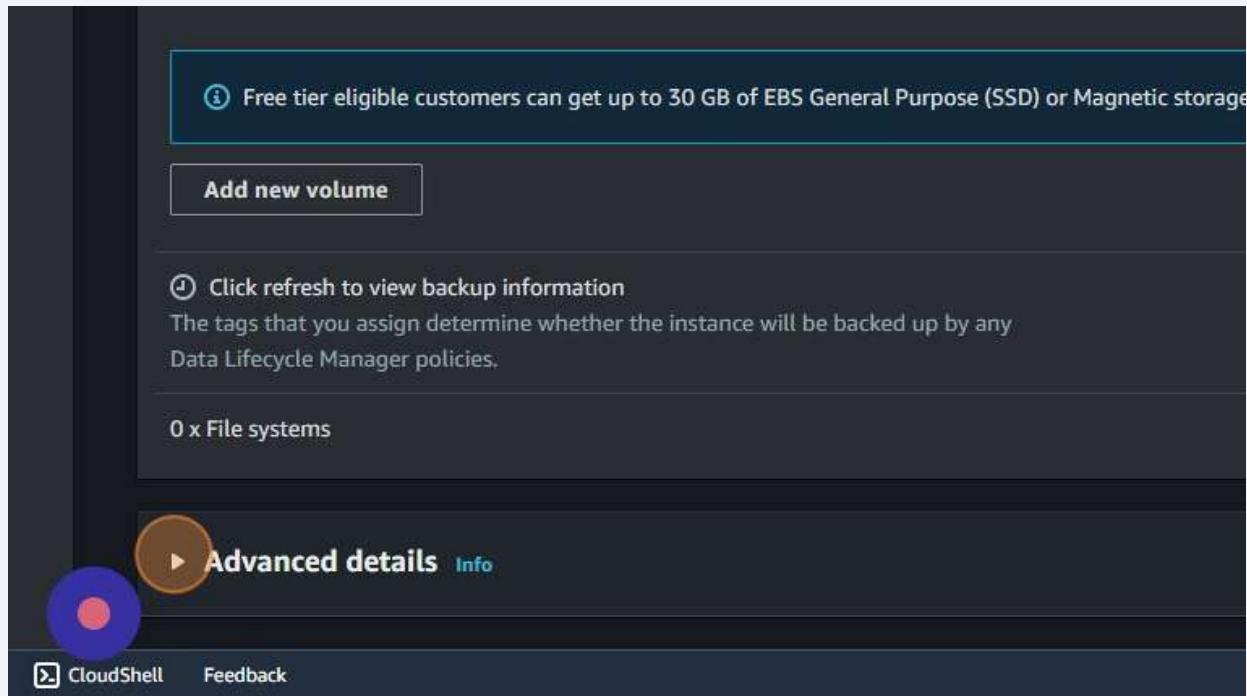


12 Click the "Security group name - required" field.

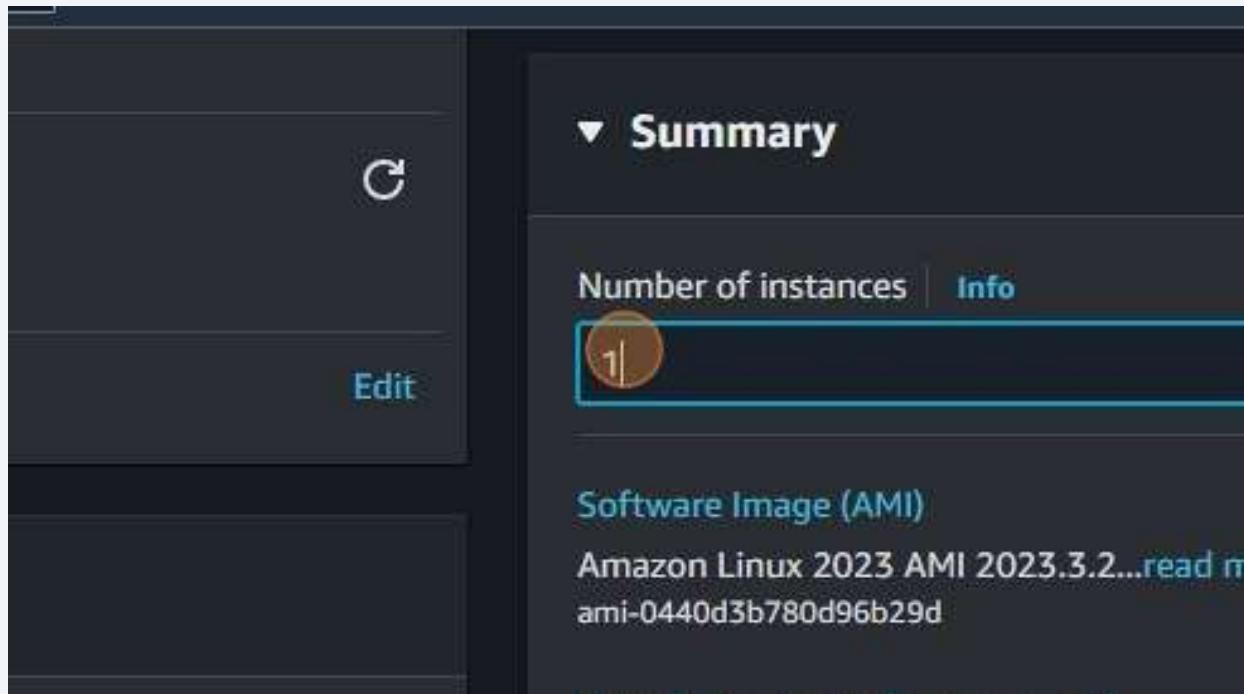


13 Type "lb-asg-security-group"

14 Click here.

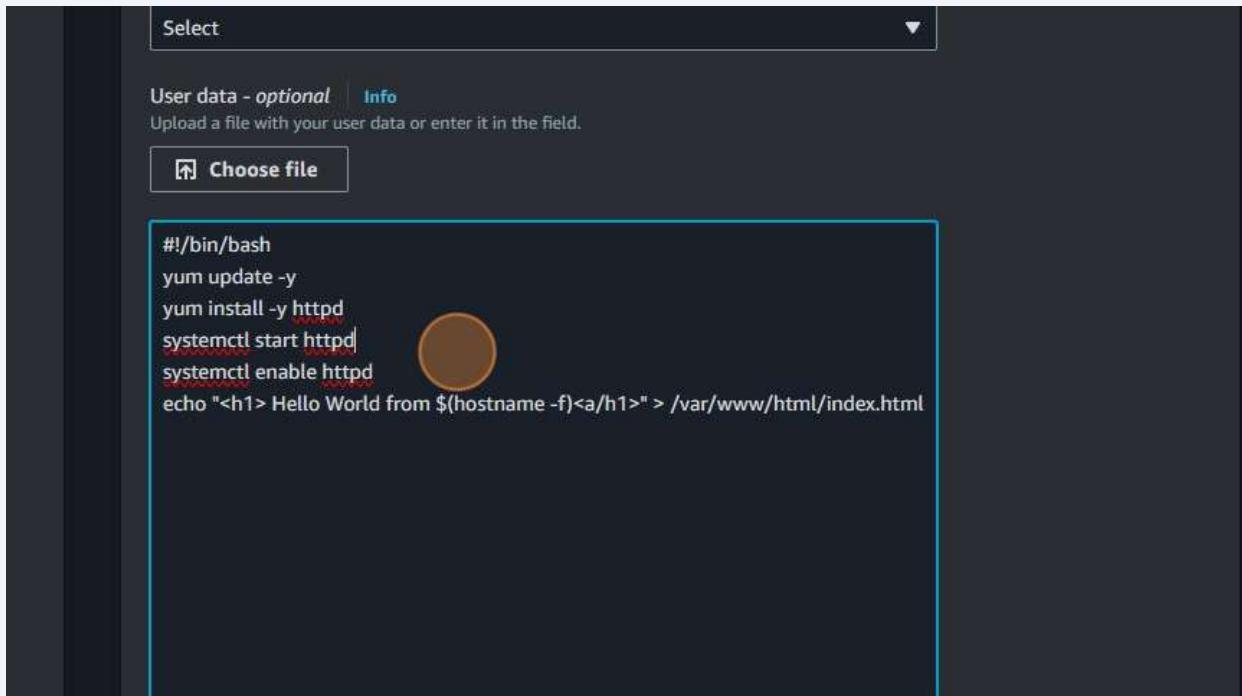


- 15** Click the "Number of instances" field.

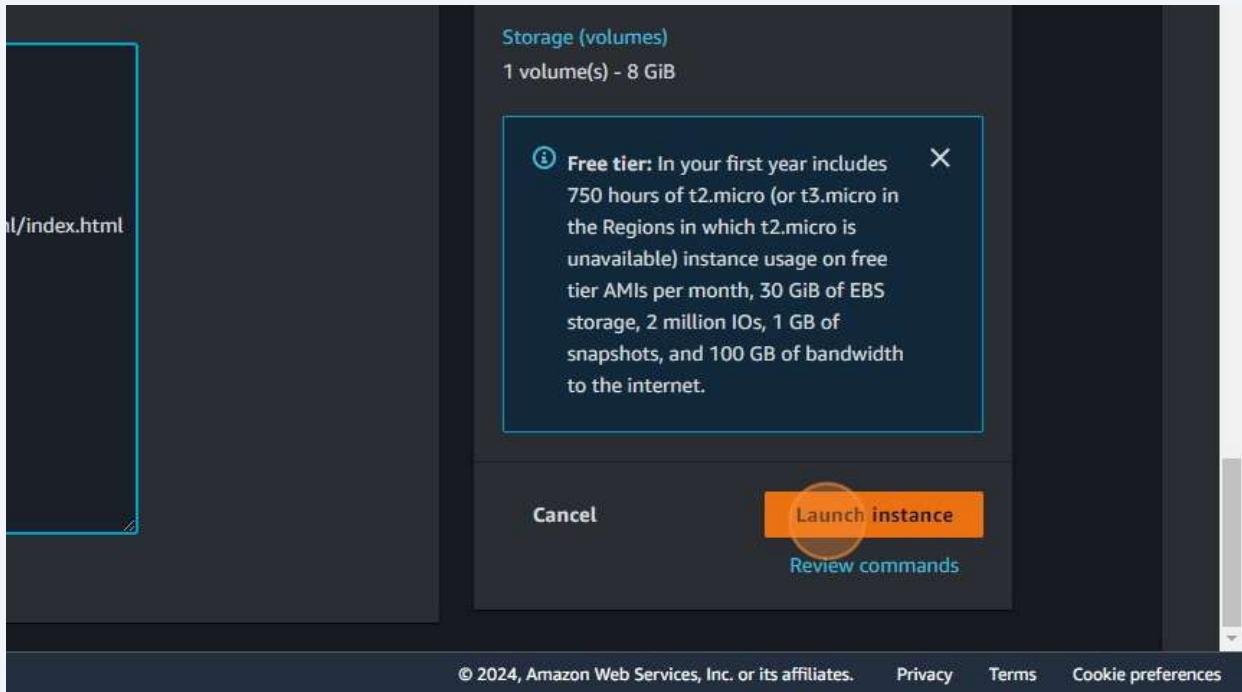


- 16** Type "**Backspace 3**"

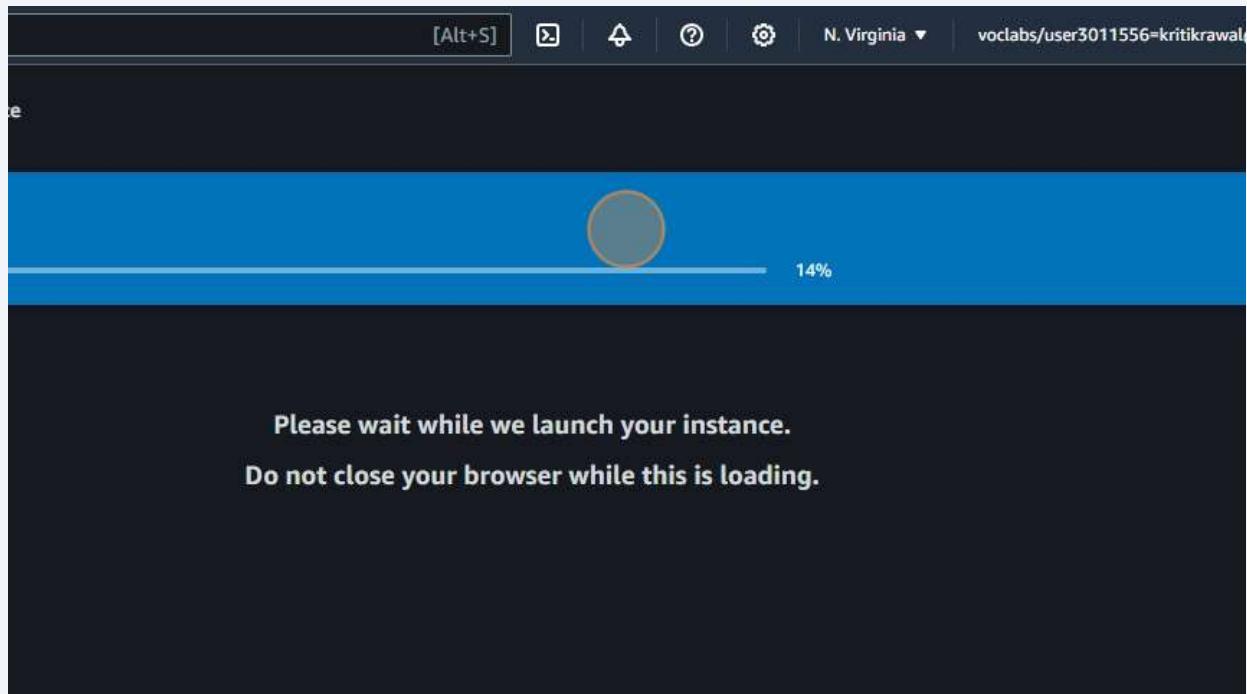
- 17 Click the "User data - optional" field.



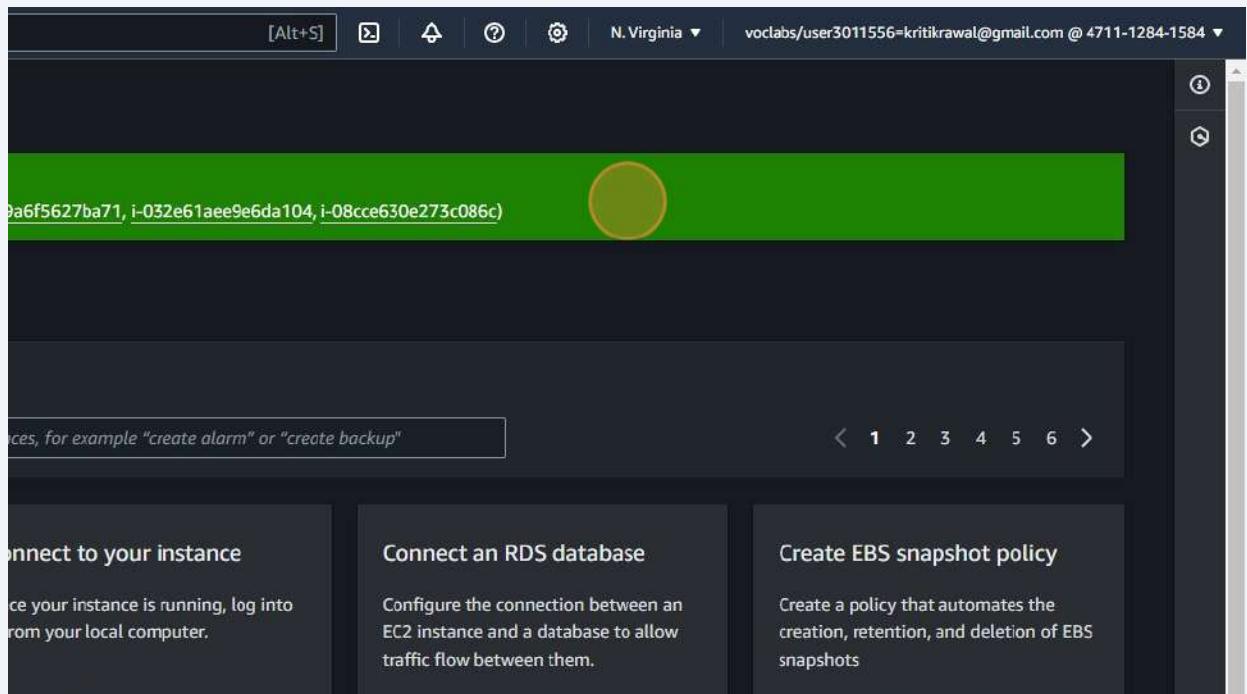
- 18 Click "Launch instance"



19 Click "Creating security groups"



20 Click here.



21 Click "Instances"

A screenshot of the AWS EC2 Instances launch success page. The top navigation bar shows 'Services' and a search bar. Below it, the breadcrumb trail reads 'EC2 > Instances > Launch an instance'. A green success message box contains the text 'Success' and 'Successfully initiated launch of instances (i-00f819a6f5627ba71, i-032e61aee9e6da104, i-08cce630e273c086c)'. Below the message is a link 'Launch log'. A 'Next Steps' section follows, featuring a query input field 'What would you like to do next with these instances, for example "create alarm" or "create backup"' and three buttons: 'Create billing and free tier usage alerts', 'Connect to your instance', and 'Connect an RDS'. The 'Connect to your instance' button is highlighted with a yellow circle.

22 Click this button.

A screenshot of the AWS EC2 Instances list page. The top navigation bar includes 'Services', a search bar, and a user profile 'voclabs/user3011556'. The main content area displays a search bar with placeholder 'Search by ID, name, or tag (case-sensitive)' and a dropdown 'Any state'. Below this, there are filters for 'Instance ID', 'Instance state', 'Instance type', 'Status check', and 'Alarms'. A central message states 'No instances' and 'You do not have any instances in this region'. A prominent blue 'Launch instances' button is centered at the bottom of the page. The 'Launch instances' button is highlighted with a yellow circle.

23 Click this checkbox.

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with various EC2-related options like Dashboard, Global View, Events, and Instances. Under Instances, 'Instances' is selected. The main area displays a table titled 'Instances (3)'. The table has columns for Name, Instance ID, Instance state, and Instance type. The first row, which has a checked checkbox in the first column, is highlighted with a red circle. The other two rows have unchecked checkboxes. All three instances are in a 'Pending' state and are t2.micro type.

	Name	Instance ID	Instance state	Instance type
<input checked="" type="checkbox"/>	lb-asg-server	i-032e61aee9e6da104	Pending	t2.micro
<input type="checkbox"/>	lb-asg-server	i-00f819a6f5627ba71	Pending	t2.micro
<input type="checkbox"/>	lb-asg-server	i-08cce630e273c086c	Pending	t2.micro

24 Click this checkbox.

This screenshot is similar to the previous one, showing the AWS EC2 Instances page. The sidebar and table structure are identical. However, the first instance's checkbox is now checked and highlighted with a red circle. The other two instances remain unchecked. All three instances are still in a 'Pending' state and are t2.micro type.

	Name	Instance ID	Instance state	Instance type
<input checked="" type="checkbox"/>	lb-asg-server	i-032e61aee9e6da104	Pending	t2.micro
<input type="checkbox"/>	lb-asg-server	i-00f819a6f5627ba71	Pending	t2.micro
<input type="checkbox"/>	lb-asg-server	i-08cce630e273c086c	Pending	t2.micro

25 Click this checkbox.

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with various EC2-related options like Dashboard, Global View, Events, and Instances. Under Instances, 'Instances' is selected. The main area displays a table of three instances, each with a checkbox in the first column. The bottom instance's checkbox is circled in red.

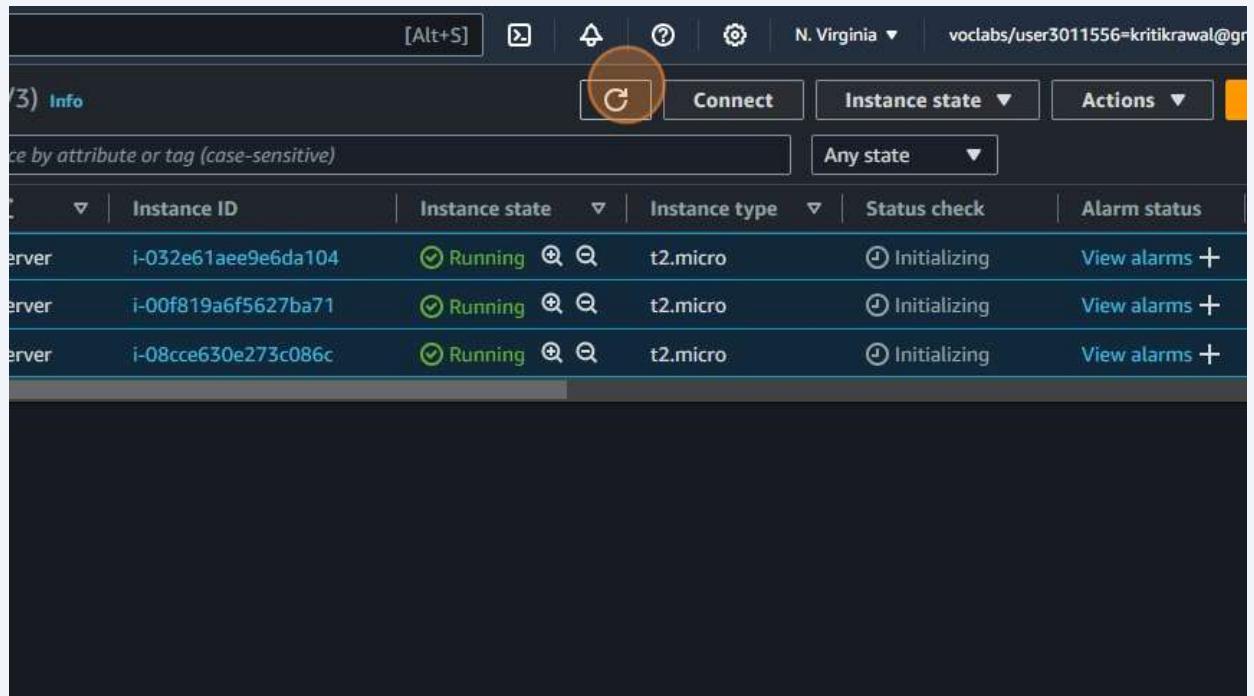
	Name	Instance ID	Instance state	Instance type
<input checked="" type="checkbox"/>	lb-asg-server	i-032e61aee9e6da104	Pending	t2.micro
<input checked="" type="checkbox"/>	lb-asg-server	i-00f819a6f5627ba71	Pending	t2.micro
<input type="checkbox"/>	lb-asg-server	i-08cce630e273c086c	Pending	t2.micro

26 Click this button.

The screenshot shows the AWS EC2 Instances page with three instances listed as 'Running'. Above the table, there are several buttons: a search bar, a refresh icon, a help icon, a gear icon, the region 'N. Virginia', the user 'voclabs/user3011556=kritikrawal@gr...', and a large orange 'C' button which is circled in red. Below these buttons is a dropdown menu for 'Actions'.

	Instance ID	Instance state	Instance type	Status check	Alarm status
server	i-032e61aee9e6da104	Running	t2.micro	-	View alarms +
server	i-00f819a6f5627ba71	Running	t2.micro	-	View alarms +
server	i-08cce630e273c086c	Running	t2.micro	-	View alarms +

27 Click this button.



28 Navigate to <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances>:

29 Click here.

A screenshot of the AWS Lambda console. At the top, there's a navigation bar with [Alt+S], a search icon, a refresh icon, a help icon, and a dropdown for 'N. Virginia'. To the right of the dropdown is the user information 'voclabs/user3011556=kritikrawal@gmail.com'. Below the navigation bar, there's a search bar with '(case-sensitive)' placeholder text and a dropdown set to 'Any state'. A red circle highlights the 'Actions' dropdown menu. The main area shows a table with three rows of Lambda function details:

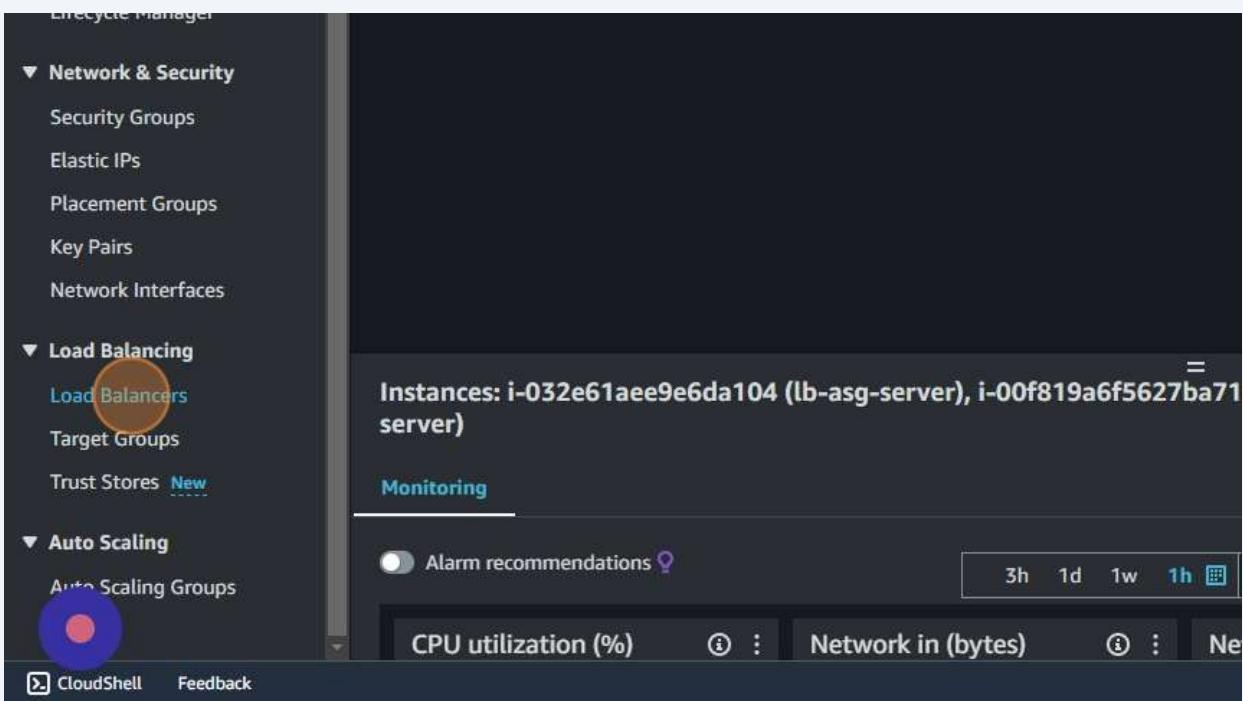
	Instance ID	Instance state	Instance type	Status check	Alarm status
server	i-032e61aee9e6da104	Running	t2.micro	Initializing	View alarms +
server	i-00f819a6f5627ba71	Running	t2.micro	Initializing	View alarms +
server	i-08cce630e273c086c	Running	t2.micro	Initializing	View alarms +

30 Click "t2.micro"

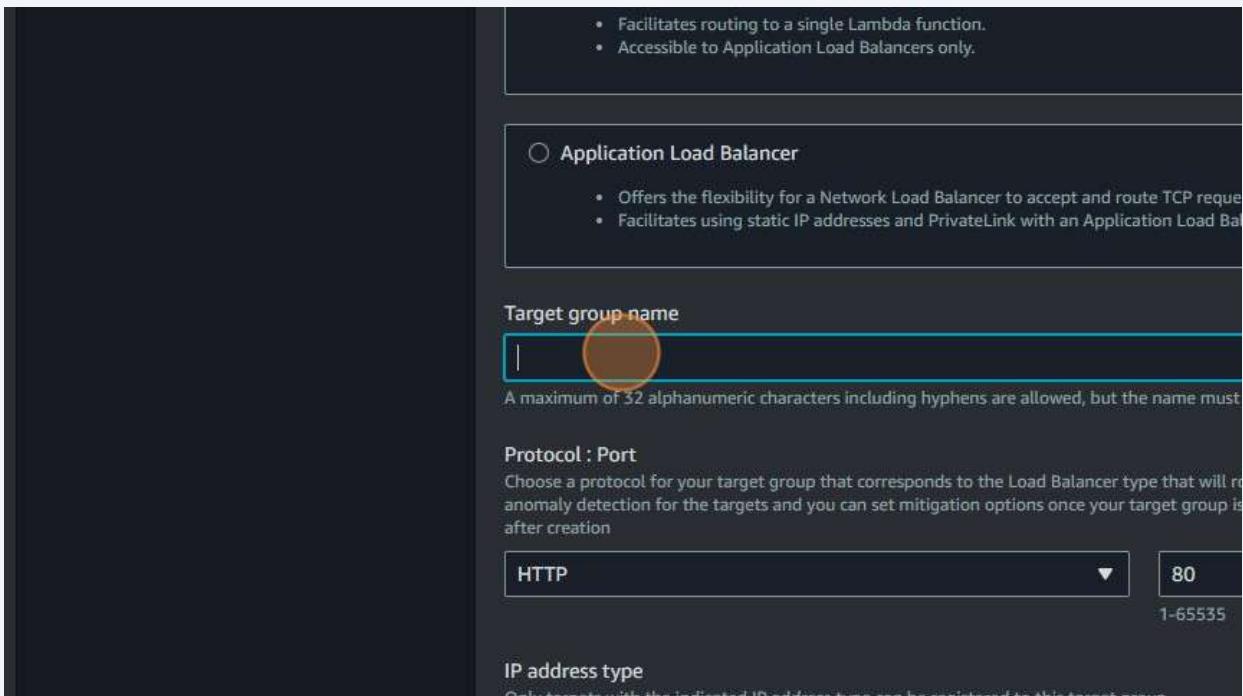
A screenshot of the AWS Lambda console, similar to the previous one but with a different view. At the top, there's a navigation bar with [Alt+S], a search icon, a refresh icon, a help icon, and a dropdown for 'N. Virginia'. To the right of the dropdown is the user information 'voclabs/user3011556=kritikrawal@gmail.com @ 4711-1284-'. Below the navigation bar, there's a search bar with '(case-sensitive)' placeholder text and a dropdown set to 'Any state'. A red circle highlights the 't2.micro' instance type in the third row of the table. The main area shows a table with three rows of Lambda function details:

	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
1aee9e6da104	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b	
9a6f5627ba71	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b	
630e273c086c	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b	

31 Click "Load Balancers"



32 Click the "Target group name" field.



33 Type "lit-adv-target-grp"

34 Click here.

Target group name
lit-adv-target-grp

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Protocol : Port
Choose a protocol for your target group that corresponds to the Load Balancer type that will route traffic to it. Some protocols now include anomaly detection for the targets and you can set mitigation options once your target group is created. This choice cannot be changed after creation.

HTTP ▾ 80 1-65535

IP address type
Only targets with the indicated IP address type can be registered to this target group.

IPv4
Each instance has a default network interface (eth0) that is assigned the primary private IPv4 address. The instance's primary private IPv4 address is the one that will be applied to the target.

IPv6
Each instance you register must have an assigned primary IPv6 address. This is configured on the instance's default network interface (eth0). [Learn more](#) ⓘ

VPC
Select the VPC with the instances that you want to include in the target group. Only VPCs that support the IP address type selected above are available in this list.

35 Click this radio button.

Step 1
Specify group details

Step 2
Register targets

Specify group details

Your load balancer routes requests to the targets in a target group and performs health checks on them.

Basic configuration

Settings in this section can't be changed after the target group is created.

Choose a target type

Instances

- Supports load balancing to instances within a specific VPC.
- Facilitates the use of [Amazon EC2 Auto Scaling](#) to manage and scale your application.

IP addresses

- Supports load balancing to VPC and on-premises resources.
- Facilitates routing to multiple IP addresses and network interfaces on the same instance.
- Offers flexibility with microservice based architectures, simplifying inter-application communication.
- Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4/IPv6 dual stack.

36 Click here.

HTTP2
Send requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.

gRPC
Send requests to targets using gRPC. Supported when the request protocol is gRPC.

Health checks

The associated load balancer periodically sends requests, per the settings below, to the registered targets to test their status.

Health check protocol

HTTP

Health check path

Use the default path of "/" to perform health checks on the root, or specify a custom path if preferred.

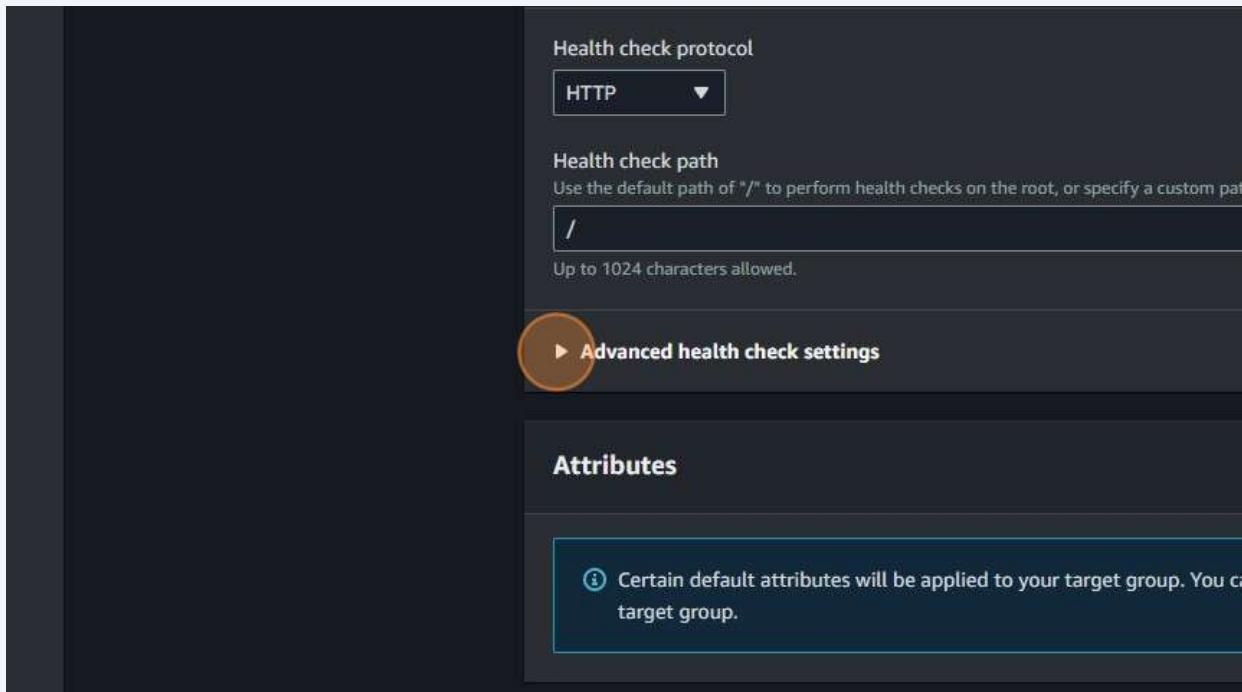
/

Up to 1024 characters allowed.

► Advanced health check settings

37

Click here.

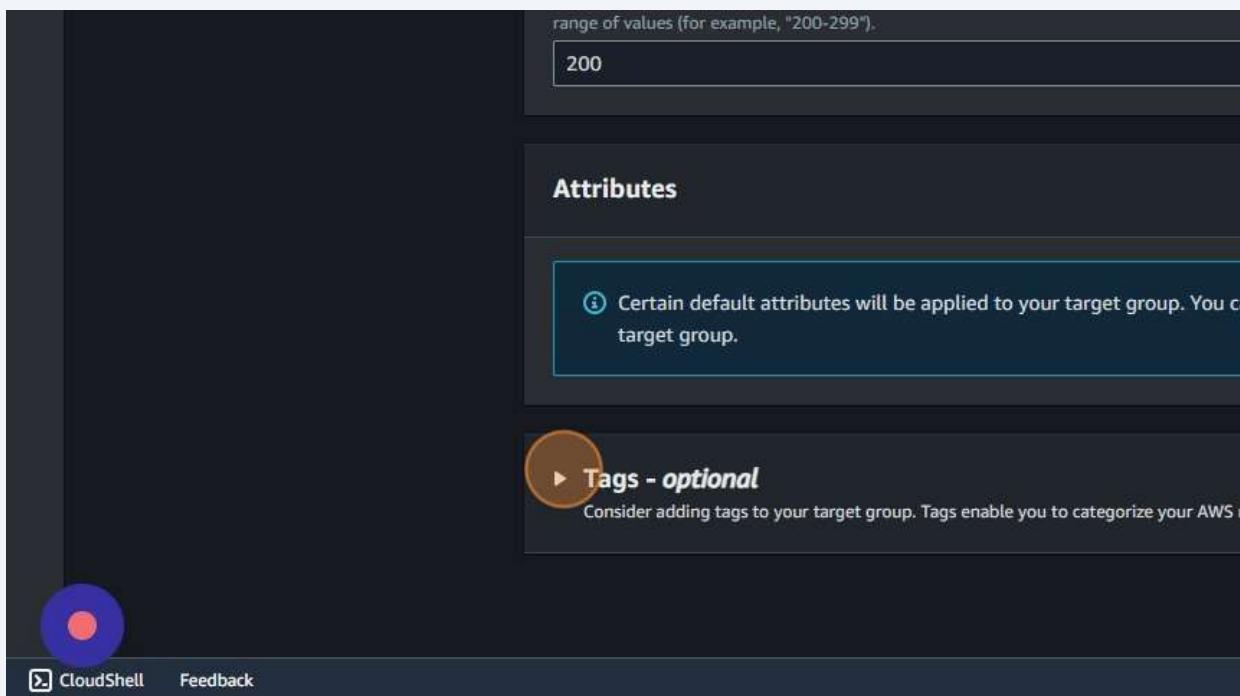


38

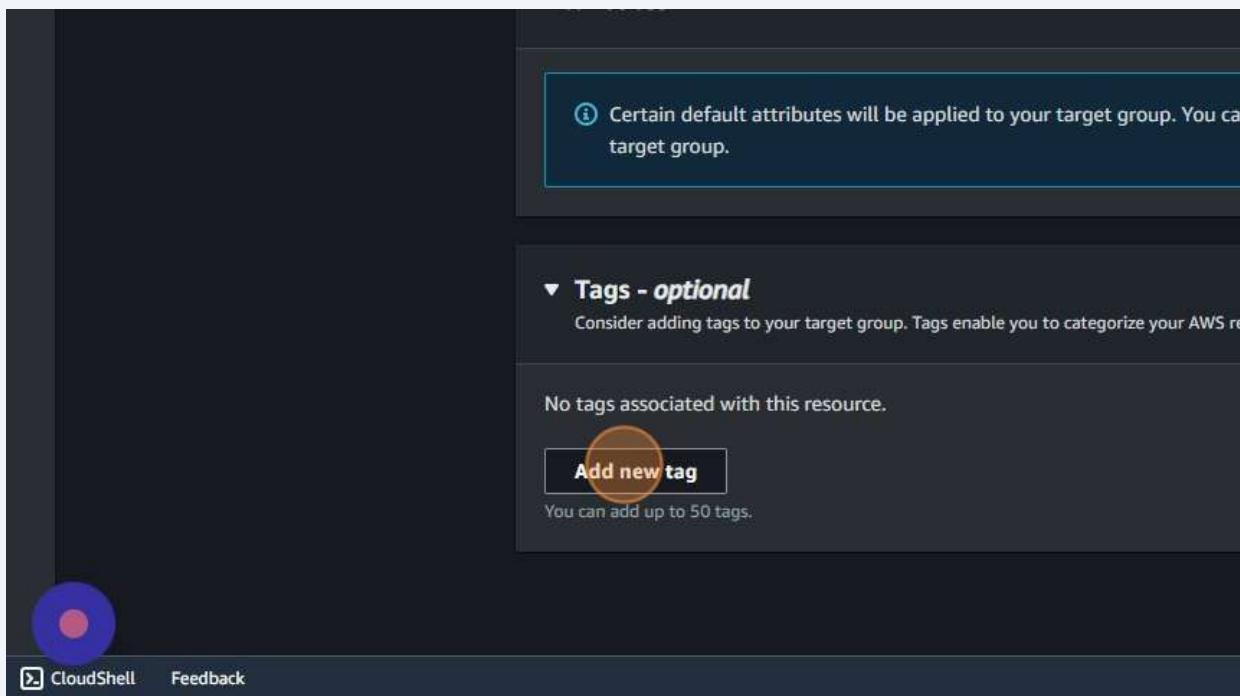
Click "2-10"



39 Click here.

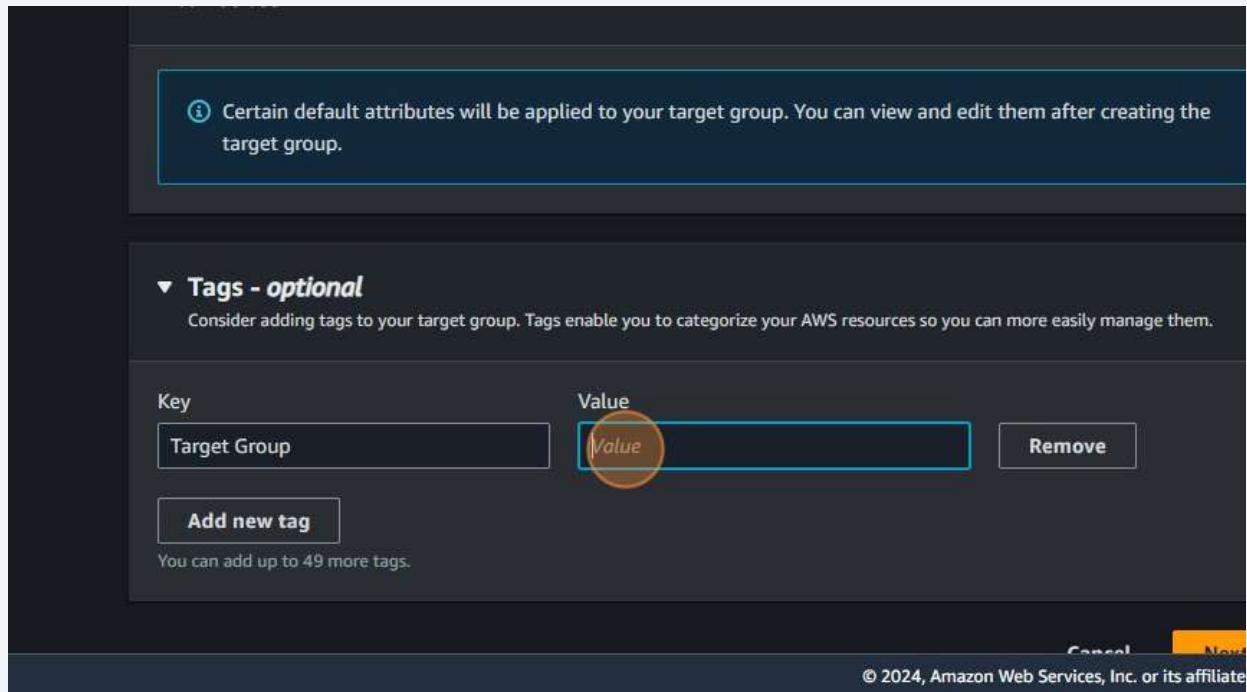


40 Click "Add new tag"



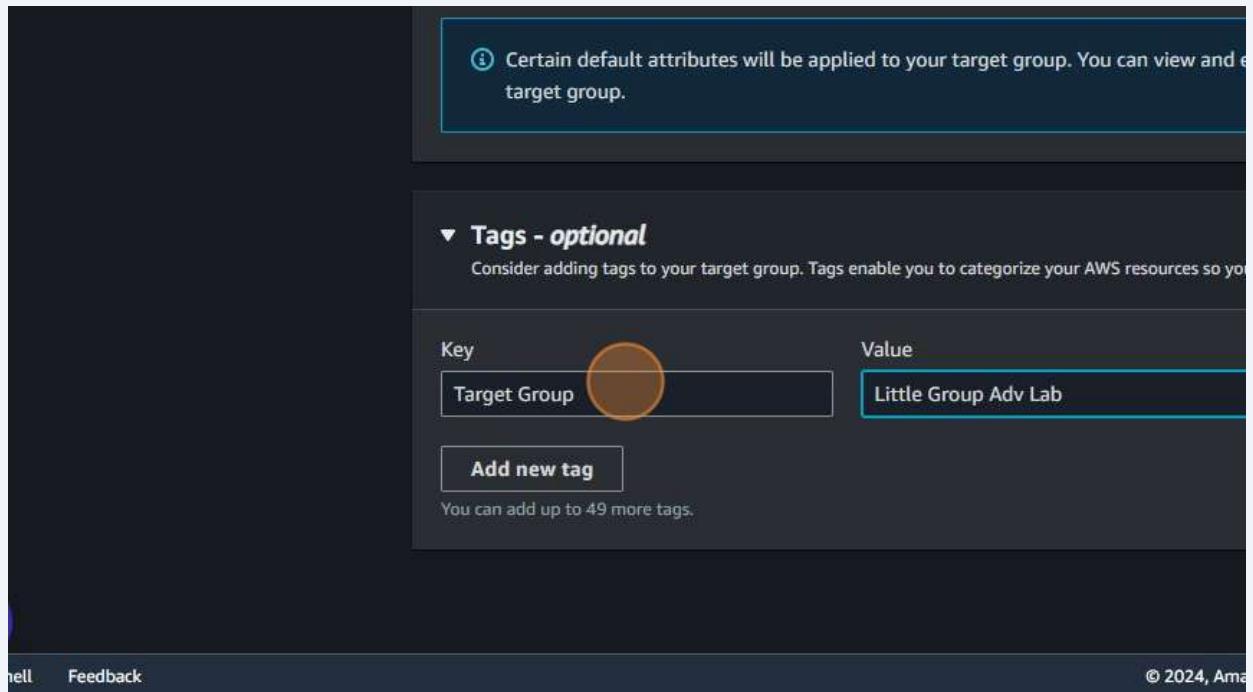
41 Type "TargetGroup left left left left left"

42 Click the "Value" field.



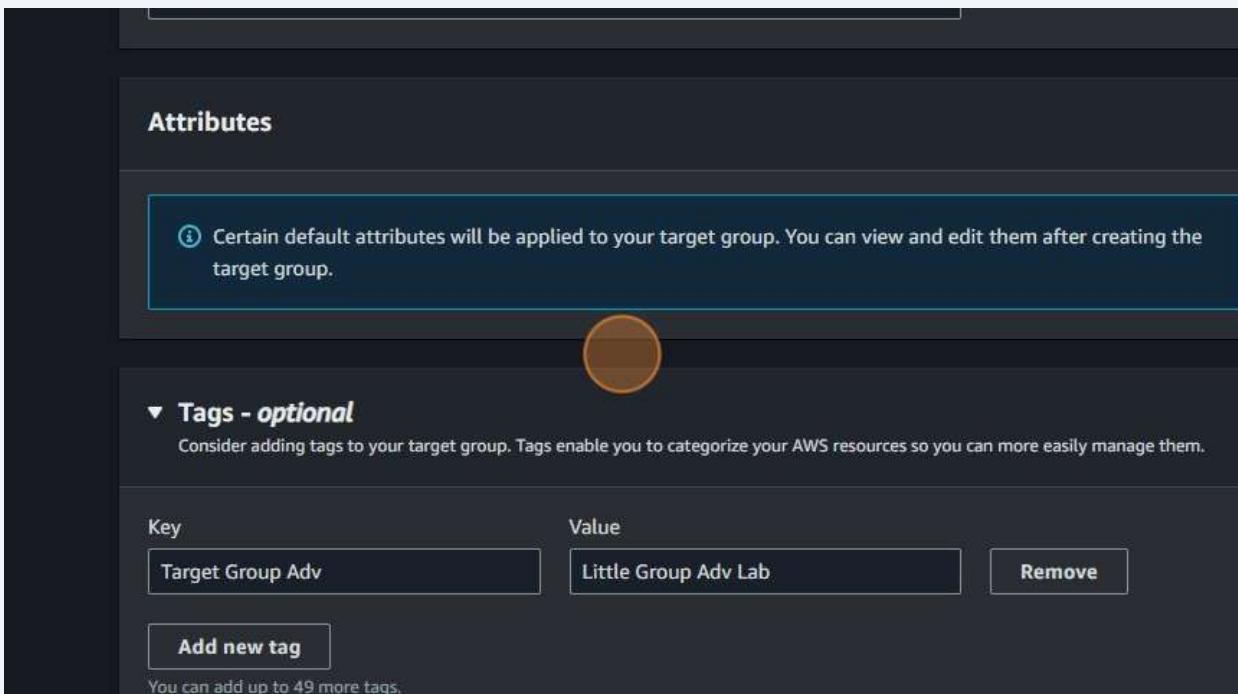
43 Type "Little Group Adv Lab"

- 44** Click the "Key" field.

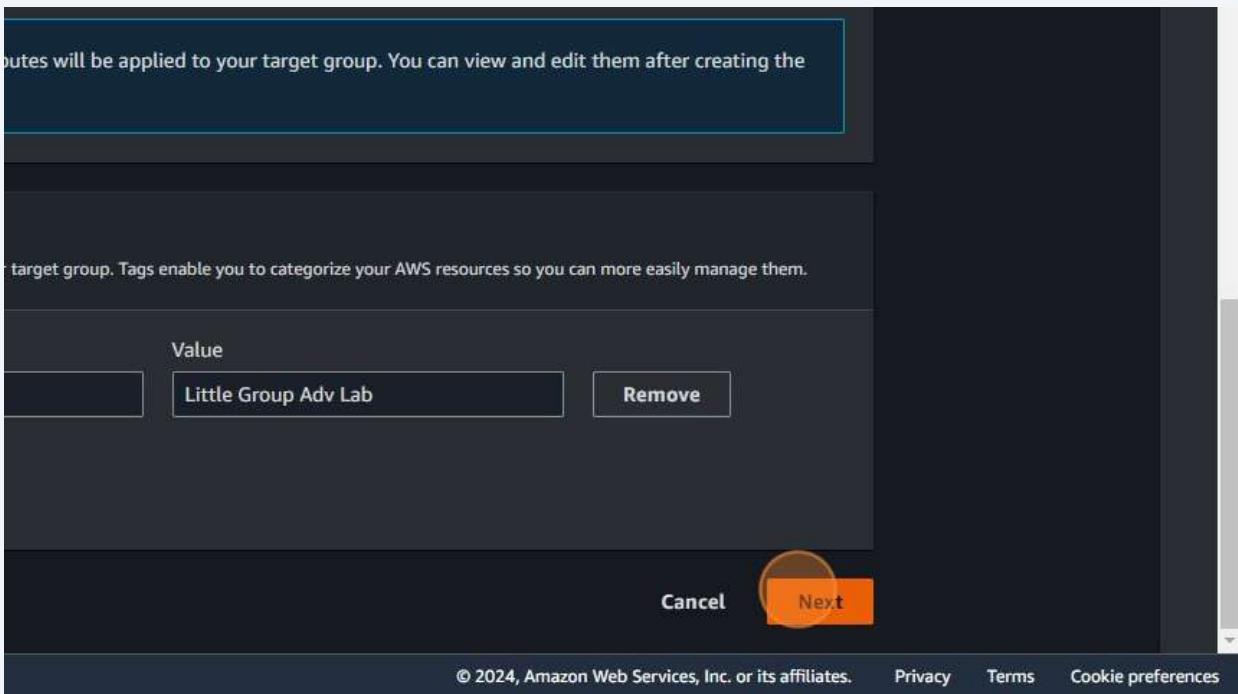


- 45** Type "Adv"

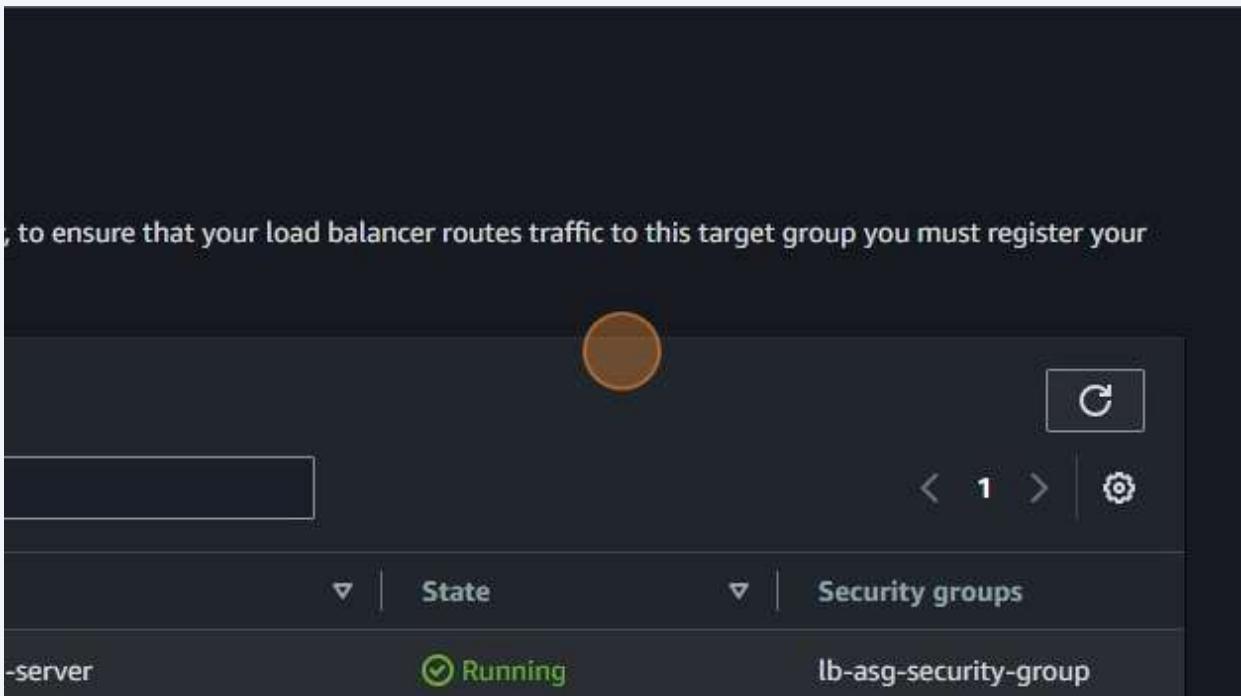
46 Click here.



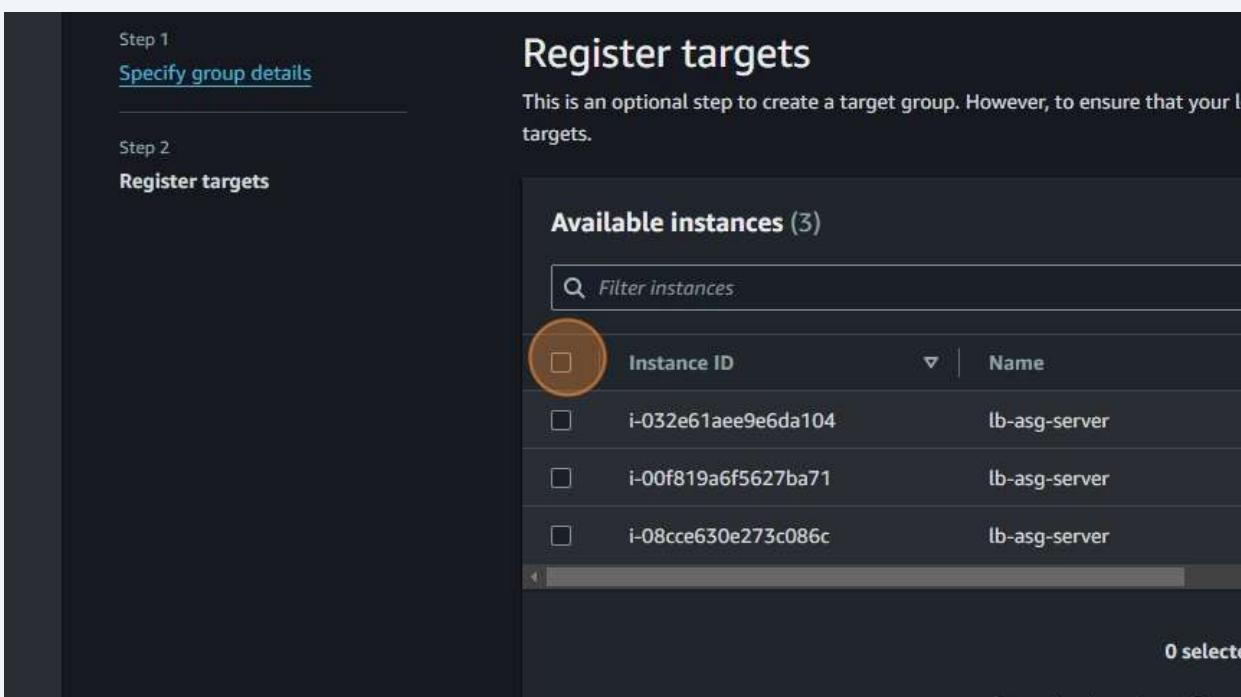
47 Click "Next"



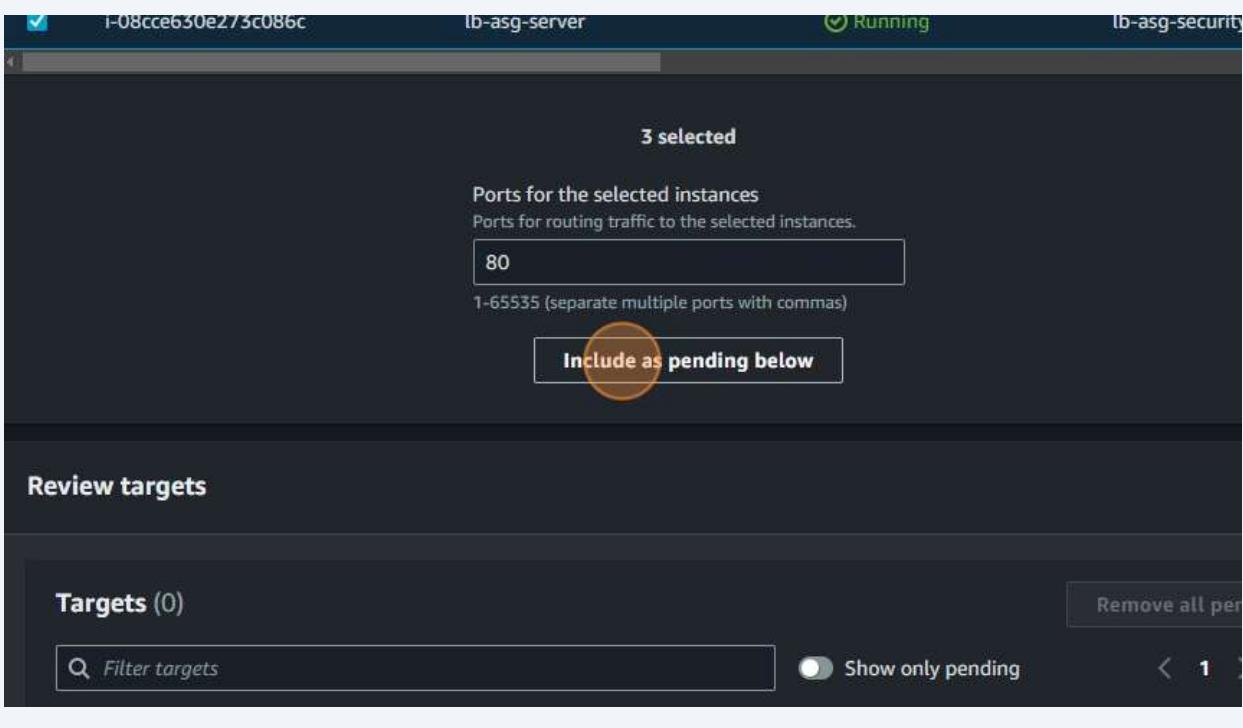
48 Click here.



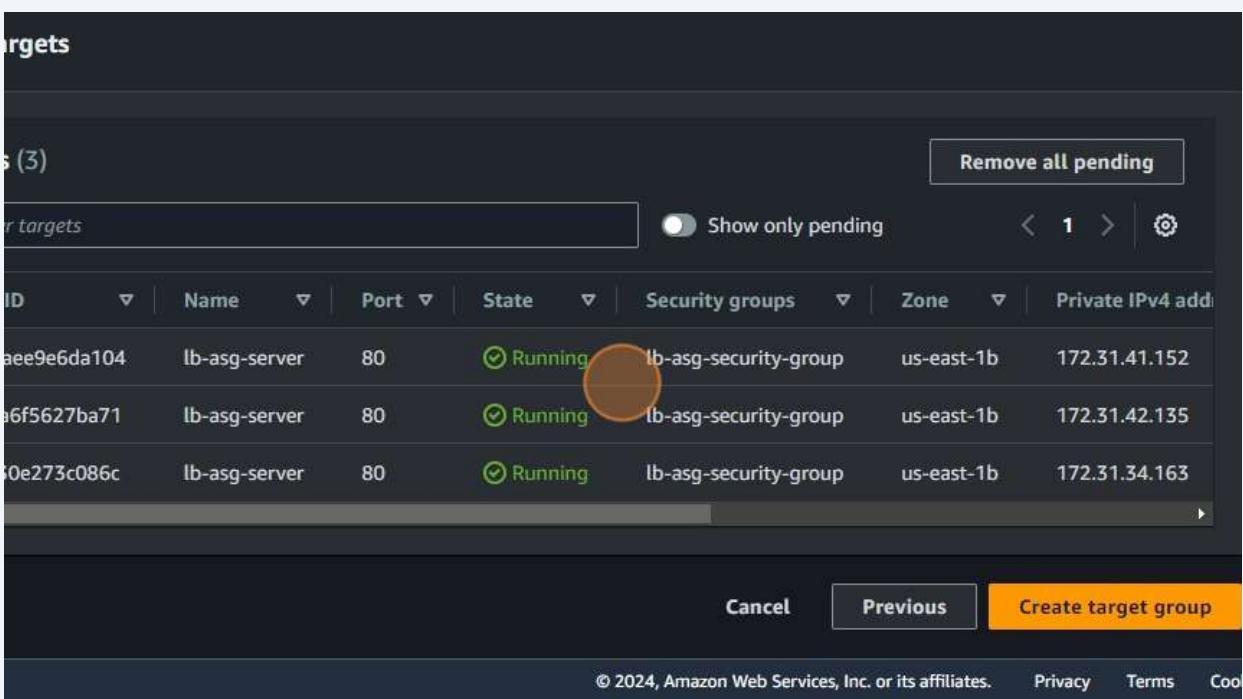
49 Click this checkbox.



50 Click "Include as pending below"



51 Click "lb-asg-security-group"



52 Click "Create target group"

The screenshot shows the AWS Lambda console interface. At the top, there is a search bar and a 'Remove all pending' button. Below that is a filter section with 'Show only pending' and a page navigation area. A table lists three Lambda functions: 'lb-asg-server' with port 80, state 'Running', security group 'lb-asg-security-group', zone 'us-east-1b', and private IP 172.31.41.152; another 'lb-asg-server' with port 80, state 'Running', security group 'lb-asg-security-group', zone 'us-east-1b', and private IP 172.31.42.135; and a third 'lb-asg-server' with port 80, state 'Running', security group 'lb-asg-security-group', zone 'us-east-1b', and private IP 172.31.34.163. At the bottom of the table, there are 'Cancel', 'Previous', and 'Create target group' buttons. The 'Create target group' button is highlighted with a red circle.

53 Click here.

The screenshot shows the AWS Lambda target group configuration page. At the top, there is a note about automatic target weights and a 'Learn more' link. Below that is a 'Details' section with fields for ARN, Target type (Instance), Protocol (HTTP: 80), Protocol version (HTTP1), VPC (vpc-0a7ad4b9), IP address type (IPv4), Load balancer (None associated), Total targets (3), Healthy (0), Unhealthy (0), Unused (3), and Initial (0). At the bottom, there is a 'Distribution of targets by Availability Zone (AZ)' section. The 'Create target group' button at the bottom right is highlighted with a red circle.

54 Click here.

The screenshot shows a tooltip for 'Automatic Target Weights (ATW) to increase application availability'. The tooltip content includes: 'get Weights is achieved by turning on anomaly mitigation, which provides responsive, dynamic distribution of traffic to targets', and 'Anomaly detection results. All HTTP/HTTPS target groups now include anomaly detection by default.' A link 'Learn more' is also present. The background shows a CloudWatch Metrics interface with a green header bar and a table of metrics.

Protocol : Port	Protocol version	VPC
HTTP: 80	HTTP1	vpc-0a7ad4b901cc9eb8c [2]
Load balancer		

55

Navigate to <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LoadBalancer:loadBalancerArn=arn:aws:elasticloadbalancing:us-east-1:471112841584:loadbalancer/app/lit-adv-lb/5877fe70dad73182;tab=listeners>

56 Click "Z35SXDOTRQ7X7K"

The screenshot shows the 'Details' tab for a load balancer named 'lit-adv-lb'. Key information includes:

- Load balancer type:** Application
- Status:** Active
- VPC:** vpc-0a7ad4b901cc9eb8c [edit]
- IP address:** IPv4
- Scheme:** Internet-facing
- Hosted zone:** Z35SXDOTRQ7X7K (highlighted with a yellow circle)
- Availability Zones:** subnet-0125e4d9ce5146dbd [edit], us-east-1b (use1-az6)
subnet-0092d7e9e3f27d351 [edit], us-east-1a (use1-az4)
- Date created:** February 2, 2024 (UTC+05:45)
- Load balancer ARN:** arn:aws:elasticloadbalancing:us-east-1:471112841584:loadbalancer/app/lit-adv-lb/5877fe70dad73182
- DNS name:** lit-adv-lb-403394019.us-east-1.elb.amazonaws.com [edit]

Below the main details, there are tabs for 'Listeners and rules', 'Network mapping', 'Security', 'Monitoring', 'Integrations', 'Attributes', and 'Tags'.

57 Open a new tab

58 Click here.

The screenshot shows the AWS CloudFront distribution configuration page. The distribution is named 'cloudbalancing' and has an ARN of 'arn:aws:cloudfront:us-east-1:471112841584:distribution/fe70dad73182'. It is associated with a VPC (VPC ID: 'vpc-0a7ad4b901cc9eb8c') and two subnets ('subnet-0125e4d9ce5146dbd' and 'subnet-0092d7e9e3f27d351'). The IP address type is IPv4. The distribution was created on February 24, 2024, at 16:13 (UTC+05:45). The DNS name is 'lit-adv-lb-403394019.us-east-1.elb.amazonaws.com' (A Record), which is highlighted with a red circle. The 'DNS name' field contains the value 'lit-adv-lb-403394019.us-east-1.elb.amazonaws.com (A Record)'. Below the DNS name, there is a note: 'connection requests on its configured protocol and port. Traffic received by the listener is routed according to the default action and any additional rules.' The page includes tabs for 'Network mapping', 'Security', 'Monitoring', 'Integrations', 'Attributes', and 'Tags'. There is also a section for 'rules (1)' with a 'Manage rules' button.

59 Open a new tab

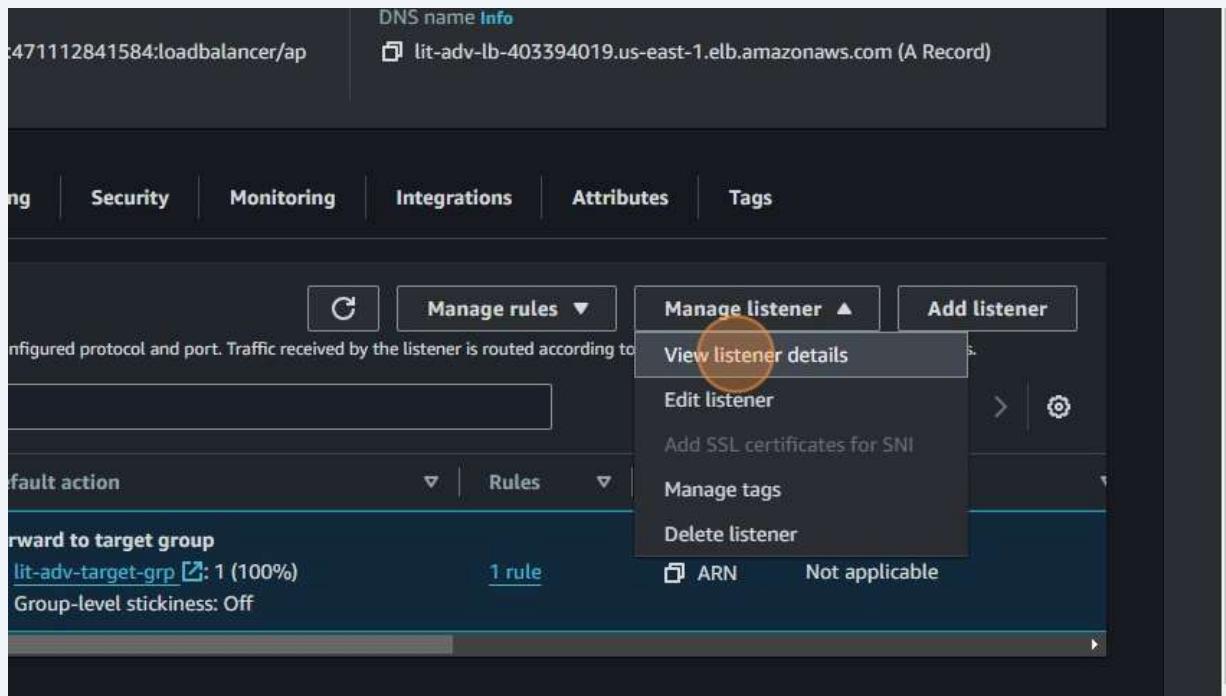
60 Click this checkbox.

The screenshot shows the AWS CloudFront Listener configuration page. On the left, there's a sidebar with options like 'Images', 'Elastic Block Store', 'Network & Security', and 'CloudShell'. The main area has tabs for 'Listeners and rules', 'Network mapping', 'Security', 'Monitoring', and 'Integrations'. Under 'Listeners and rules', it says '(1) Info'. Below that, there's a table with columns 'Protocol:Port', 'Default action', and 'Actions'. The first row shows 'HTTP:80' with a circled checkbox in the 'Default action' column. To the right, it says 'Forward to target group' with two items: 'lit-adv-target-grp [2]: 1 (100%)' and 'Group-level stickiness: Off'.

61 Click "Manage listener"

This screenshot shows the 'Listeners and rules' section of the CloudFront configuration. At the top, it displays the DNS name 'lit-adv-lb-403394019.us-east-1.elb.amazonaws.com (A Record)'. Below the table, there are tabs for 'Security', 'Monitoring', 'Integrations', 'Attributes', and 'Tags'. A 'Manage listener' button is highlighted with a red circle. The table below shows the configuration for the 'HTTP:80' listener, including the default action pointing to 'lit-adv-target-grp [2]: 1 (100%)' and group-level stickiness set to 'Off'.

62 Click "View listener details"



63 Switch to tab "Target group details | EC2 | us-east-1"

64 Click this checkbox.

The screenshot shows the AWS Lambda Targets page. On the left, there's a navigation sidebar with options like New, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, Security Groups, Elastic IPs, Placement Groups, and Network Interfaces. Below the sidebar are CloudShell and Feedback links. The main area has tabs for Targets, Monitoring, Health checks, Attributes, and Tags. The Targets tab is selected. A sub-header says "Registered targets (3) Info". Below it, a note states: "Target groups route requests to individual registered targets using the protocol and port number specified in the target group's health check settings. Anomaly detection is automatically applied to HTTP/HTTPS target groups." There's a search bar labeled "Filter targets". A table lists three registered targets:

Instance ID	Name	Port	Zone
i-00f819a6f5627ba71	lb-asg-server	80	us-east-1a
i-08cce630e273c086c	lb-asg-server	80	us-east-1a
i-032e61aee9e6da104	lb-asg-server	80	us-east-1a

65 Click "Register targets"

The screenshot shows the same AWS Lambda Targets page as the previous one, but with a different view. It shows a table of registered targets with their names, ports, zones, and health status. The "Health checks" tab is selected. At the top right, there are buttons for "Deregister" and "Register targets". The "Register targets" button is highlighted with a red circle. Below the table, there's a note: "Health checks are performed on all registered targets according to the target group's health check settings. Anomaly detection is automatically applied to HTTP/HTTPS target groups with at least 3 healthy targets." The table data is as follows:

Name	Port	Zone	Health status	Health status details
lb-asg-server	80	us-east-1a	✖️ Unhealthy	Request timed out
lb-asg-server	80	us-east-1b	✖️ Unhealthy	Request timed out

- 66** Click this checkbox.

Register targets

Select instances, specify ports, and add the instances to the list of pending targets. Repeat to add additional combinations with your selections, click Register pending targets.

Available instances (3)

Filter instances

<input type="checkbox"/>	Instance ID	Name	State	
<input type="checkbox"/>	i-032e61aee9e6da104	lb-asg-server	Running	<input type="button"/>
<input type="checkbox"/>	i-00f819a6f5627ba71	lb-asg-server	Running	<input type="button"/>
<input type="checkbox"/>	i-08cce630e273c086c	lb-asg-server	Running	<input type="button"/>

0 selected

- 67** Click "Include as pending below"

lb-asg-server

Running

lb-asg-security-group

3 selected

Ports for the selected instances

Ports for routing traffic to the selected instances.

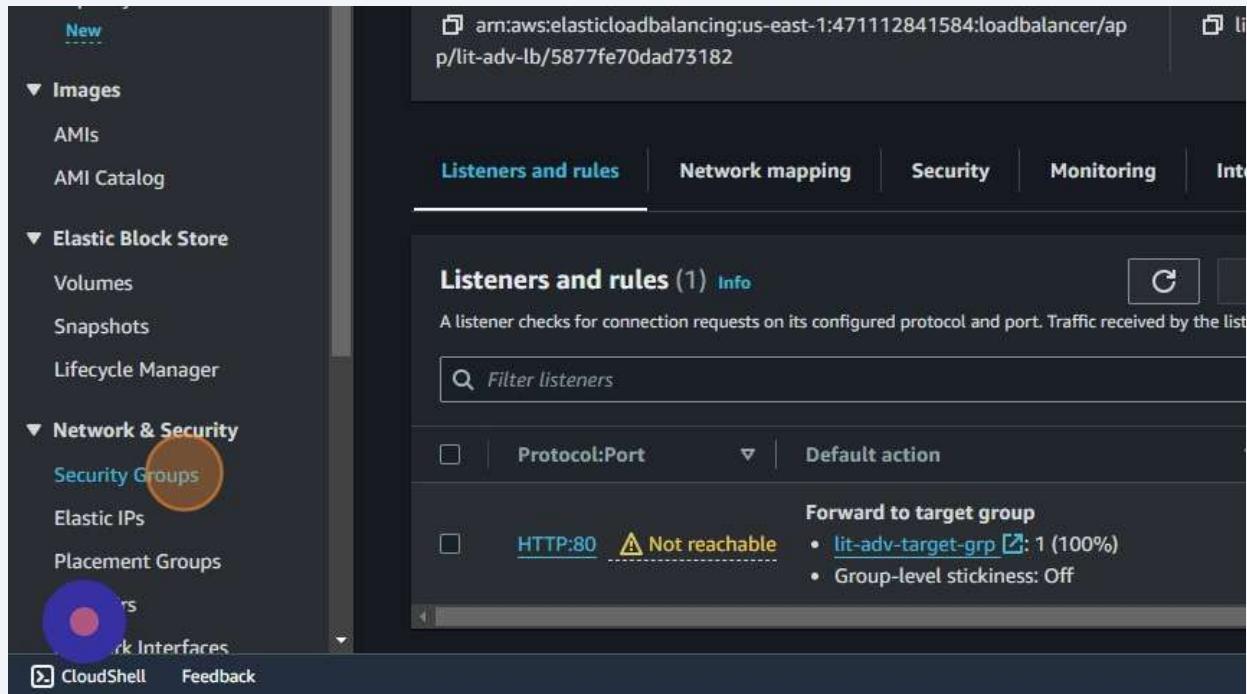
80

1-65535 (separate multiple ports with commas)

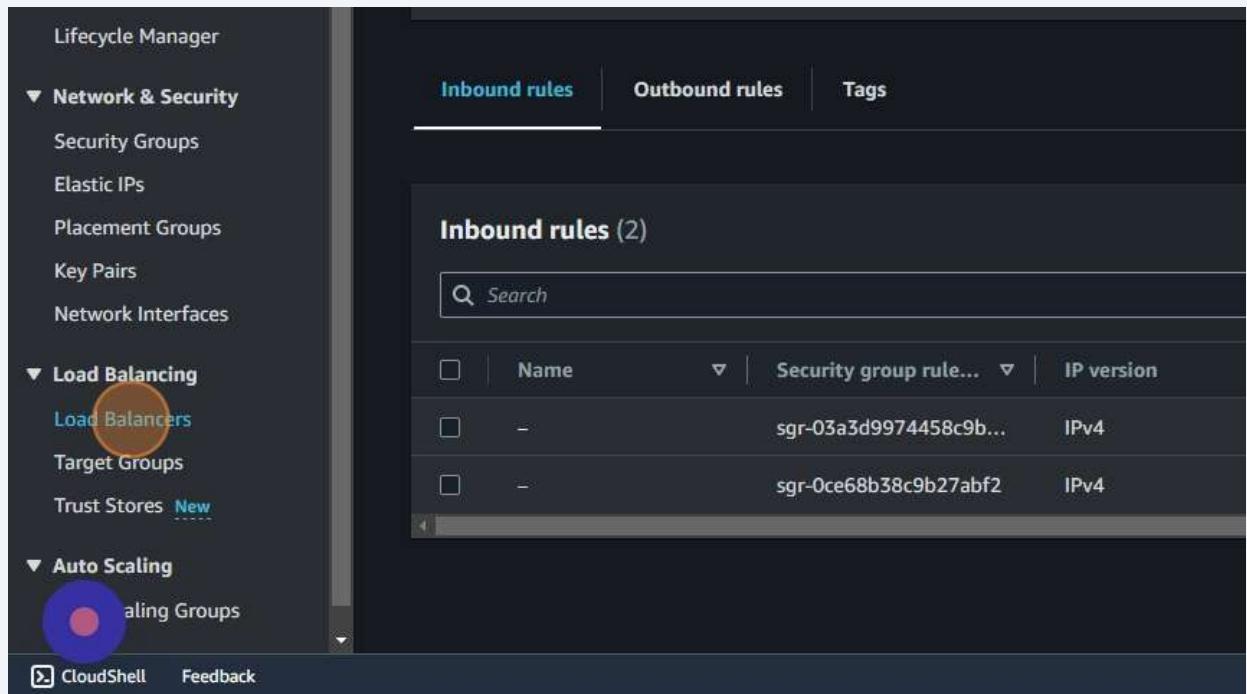
Include as pending below

Show only pending

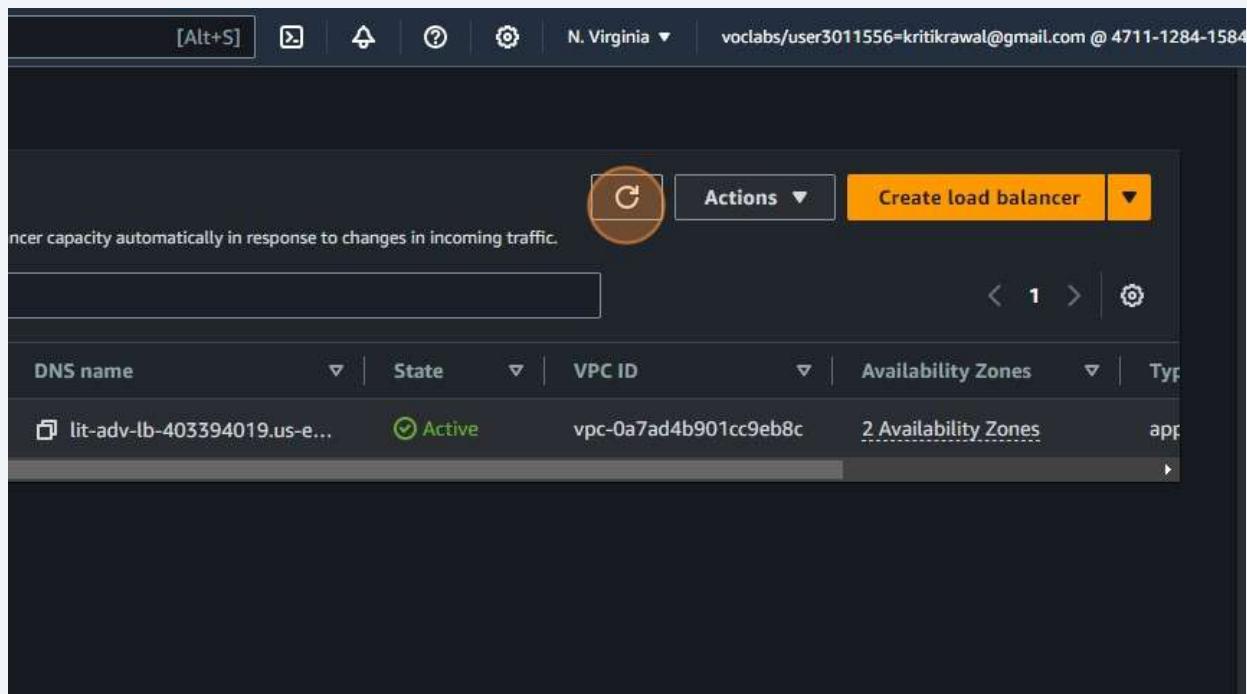
68 Click "Security Groups"



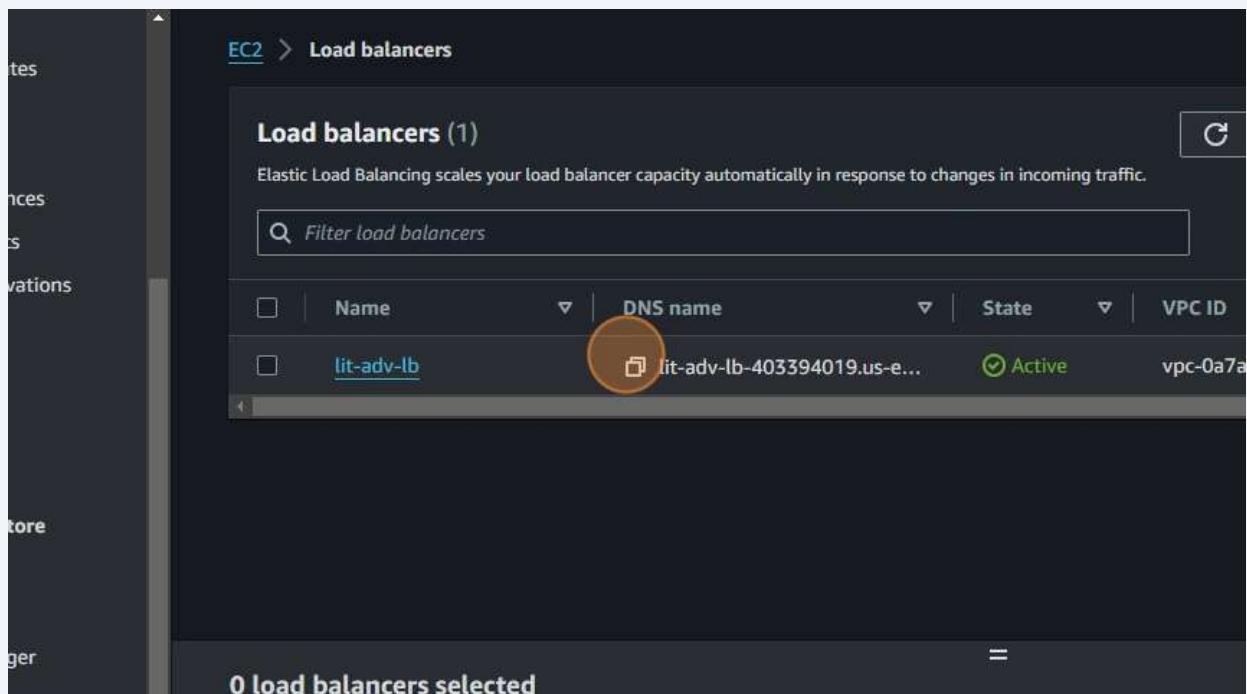
69 Click "Load Balancers"



70 Click here.



71 Click here.



72 Open a new tab

73 Click "Hello World from ip-172-31-42-135.ec2.internal"

Hello World from ip-172-31-42-135.ec2.internal

74 Click this button.

The screenshot shows the AWS EC2 Target Groups Details page. The target group is named 'lit-adv-target-grp/f66e6caae30af154'. The 'Targets' tab is selected, displaying three healthy targets (HTTP port 80) across three availability zones (us-east-1b). An 'Anomaly mitigation: Not applicable' note is present. A circled 'Deregister' button is located in the top right of the target list. The left sidebar includes sections for Instances, Images, Elastic Block Store, Network & Security, and a Feedback link.

Instance ID	Name	Port	Zone	Health status	Health status details
i-08cce630e273c086c	lb-asg-server	80	us-east-1b	Initial	Target registration is i...
i-00f819a6f5627ba71	lb-asg-server	80	us-east-1b	Initial	Target registration is i...
i-0532ef1ae9e9e5da104	lb-asg-server	80	us-east-1b	Initial	Target registration is i...

75 Navigate to <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#TargetGroup:targetGroupArn=arn:aws:elasticloadbalancing:us-east-1:47112841584:targetgroup/lit-adv-target-grp/f66e6caae30af154>

76 Click here.

Details

arn:aws:elasticloadbalancing:us-east-1:471112841584:targetgroup/lit-adv-target-grp/f66e6caae30af154

Target type	Protocol : Port	Protocol version
Instance	HTTP: 80	HTTP1
IP address type	Load balancer	
IPv4	<u>lit-adv-lb</u>	

3	3 Healthy	0 Unhealthy	0 Unused
0 Anomalous			

Distribution of targets by Availability Zone (AZ)

Select values in this table to see corresponding filters applied to the Registered targets table below.

Targets Monitoring Health checks Attributes Tags

77 Click "us-east-1b"

Info

Anomaly mitigation: Not applicable

Deregister

Register targets

3 matches

Clear filters

Name	Port	Zone	Health status	Health status details
lb-asg-server	80	us-east-1b	Healthy	-
lb-asg-server	80	us-east-1b	Healthy	-
lb-asg-server	80	us-east-1b	Healthy	-

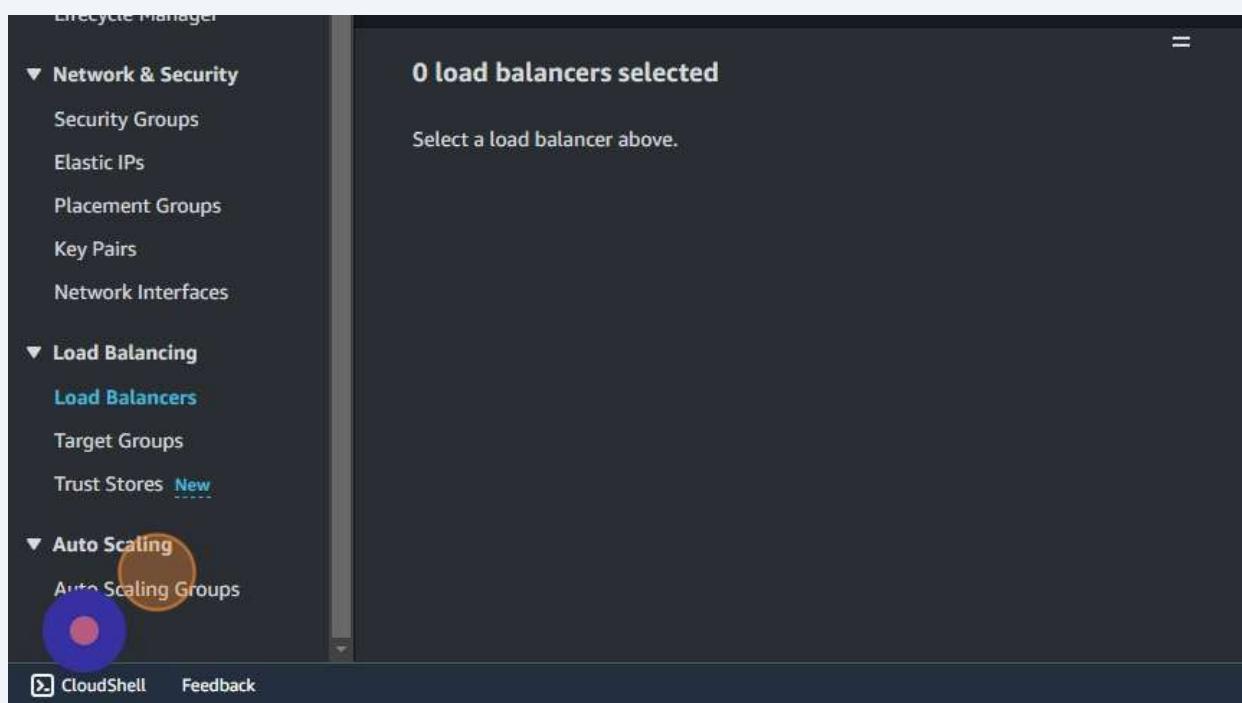
© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie pre

78

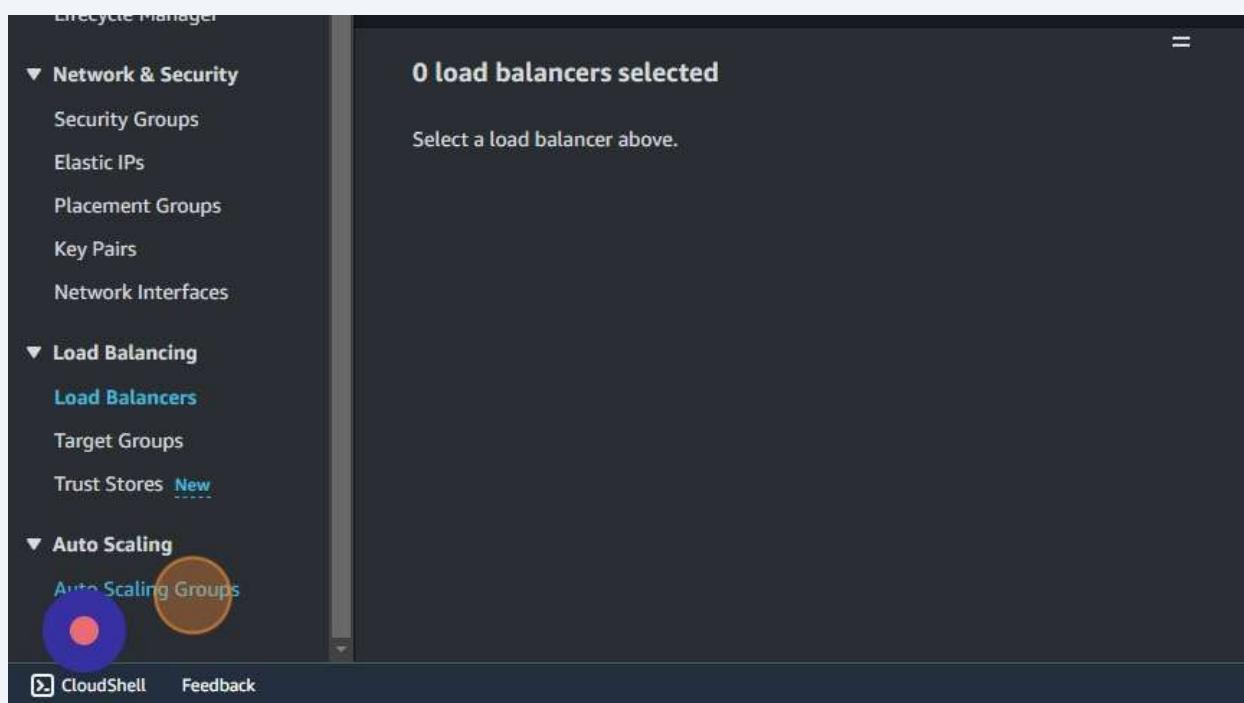
Navigate to <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LoadBalancers>:

79

Click "Auto Scaling Groups"



80 Click "Auto Scaling Groups"



81 Type "ec2-template-asg"

- 82 Click the "Launch template name - required" field.

Create launch template

Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.

Launch template name and description

Launch template name - *required*

ec2-template-asg

Must be unique to this account. Max 128 chars. No spaces or special characters like '&', '*', '@'.

Template version description

A prod webserver for MyApp

Max 255 chars

Auto Scaling guidance | [Info](#)

Select this if you intend to use this template with EC2 Auto Scaling

Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

- 83 Click "Provide guidance to help me set up a template that I can use with EC2 Auto Scaling"

aws Services Search [Alt+S] ⌂

Must be unique to this account. Max 128 chars. No spaces or special characters like '&', '*', '@'.

Template version description

A prod webserver for MyApp

Max 255 chars

Auto Scaling guidance | [Info](#)

Select this if you intend to use this template with EC2 Auto Scaling

Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

▶ Template tags

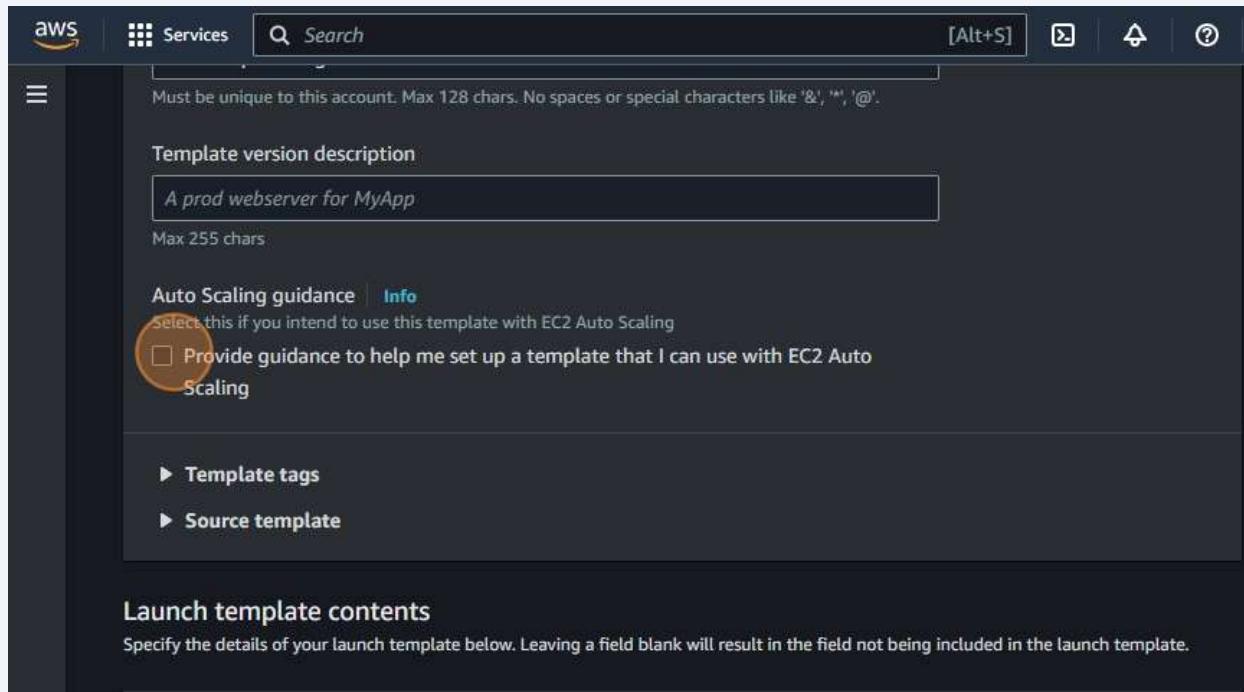
▶ Source template

Launch template contents

Specify the details of your launch template below. Leaving a field blank will result in the field not being included in the launch template.

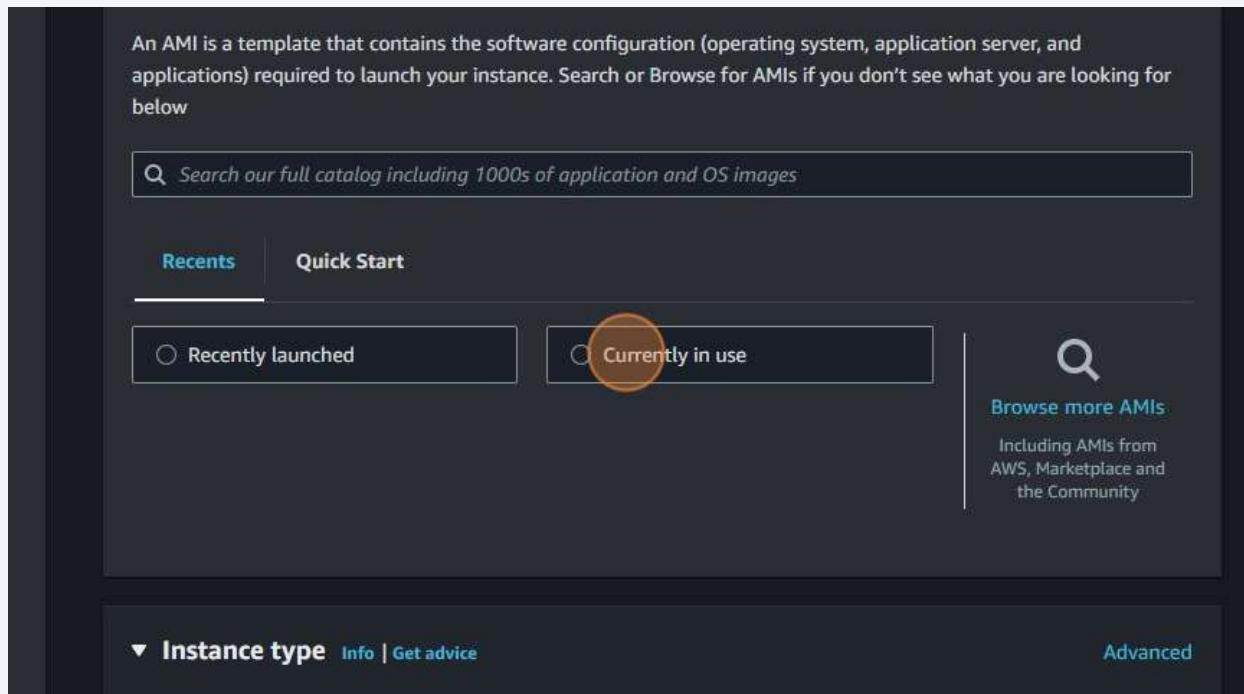
84

Click "Provide guidance to help me set up a template that I can use with EC2 Auto Scaling"



85

Click "Currently in use"



86 Click this radio button.

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

Search our full catalog including 1000s of application and OS images

Recents Quick Start

Recently launched Currently in use

Amazon Machine Image (AMI)

al2023-ami-2023.3.20240219.0-kernel-6.1-x86_64
ami-0440d3b780d96b29d
2024-02-16T21:29:42.000Z Architecture: 64-bit (x86) Virtualization: hvm ENA enabled: true Root device type: ebs
Boot mode: uefi-preferred

87 Click "ENA enabled: true"

Recently launched Currently in use

Machine Image (AMI)

al2023-ami-2023.3.20240219.0-kernel-6.1-x86_64
ami-0440d3b780d96b29d
2024-02-16T21:29:42.000Z Architecture: 64-bit (x86) Virtualization: hvm ENA enabled: true Root device type: ebs
Boot mode: uefi-preferred

Virtual server type

Firewall (security groups)

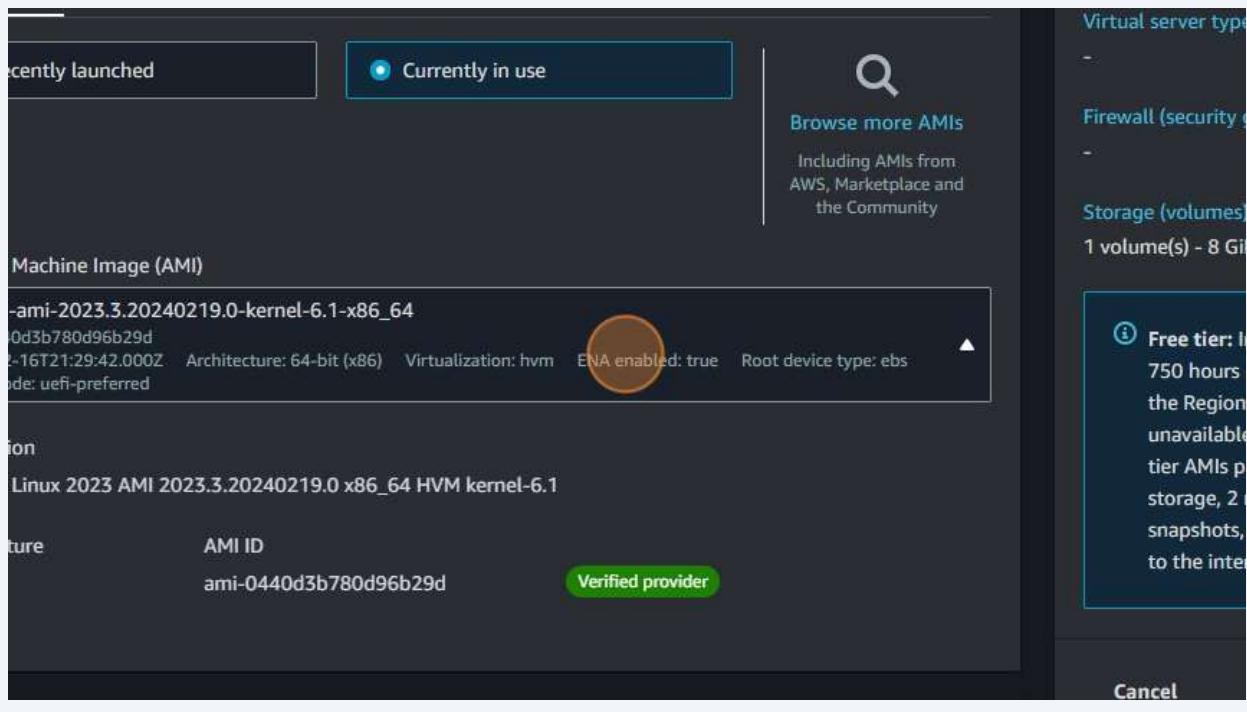
Storage (volumes)

1 volume(s) - 8 GiB

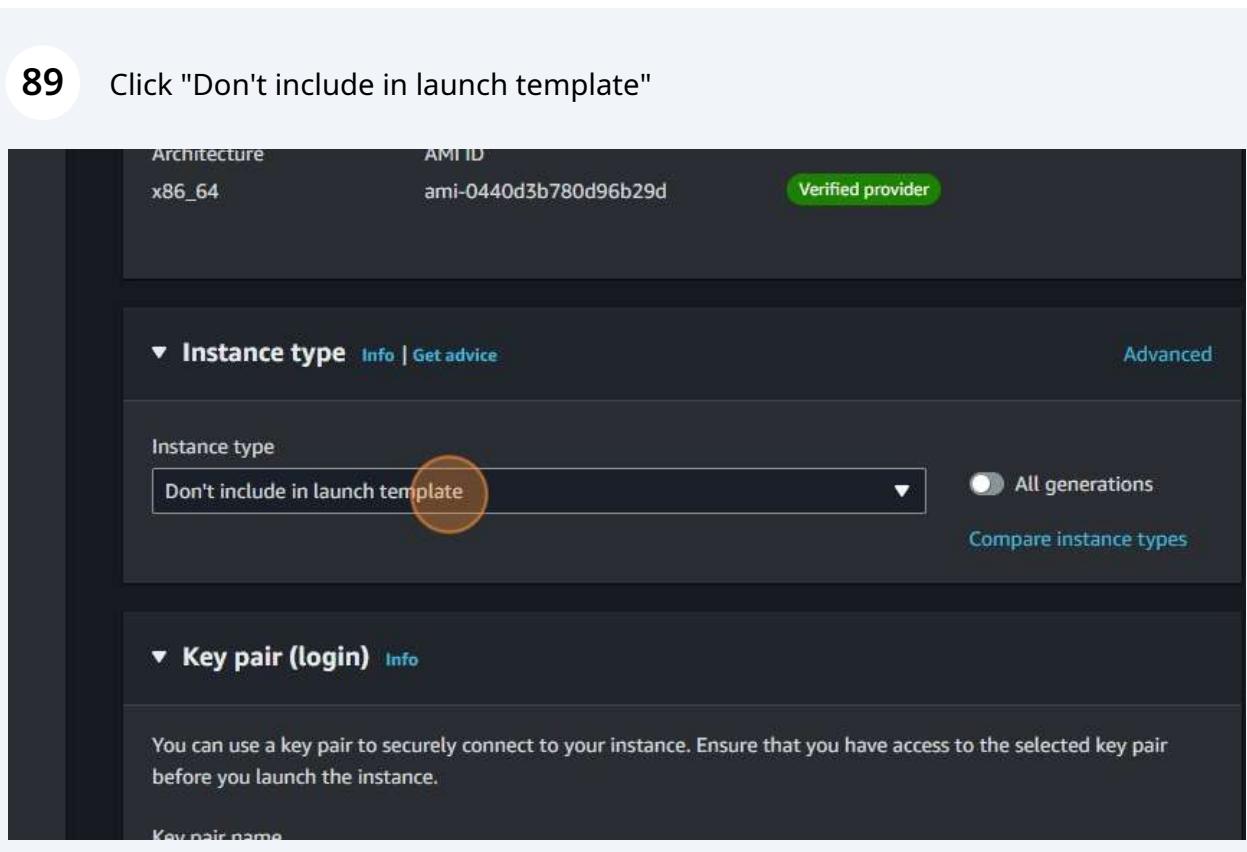
Free tier: 1,000 hours per month in the Region. Includes 750 hours of ENA-optimized tier AMIs per month. Storage, 20 snapshots, and up to 100 connections to the internet.

Cancel

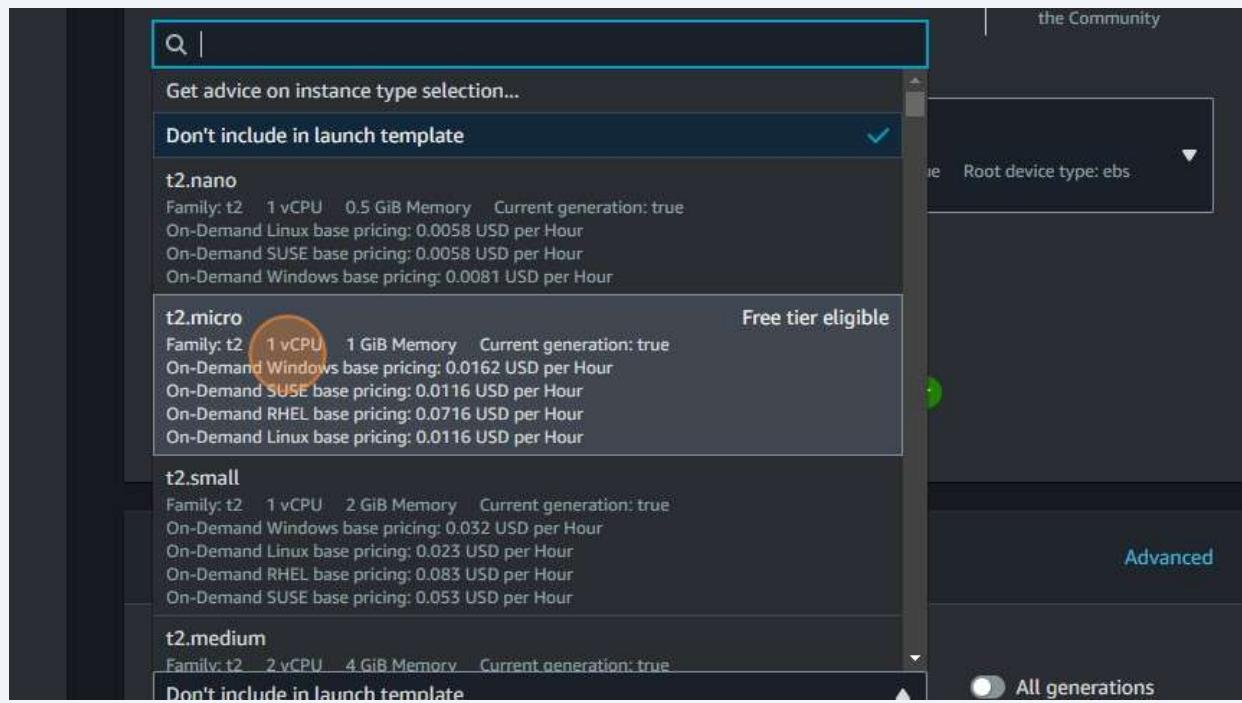
88 Click "ENA enabled: true"



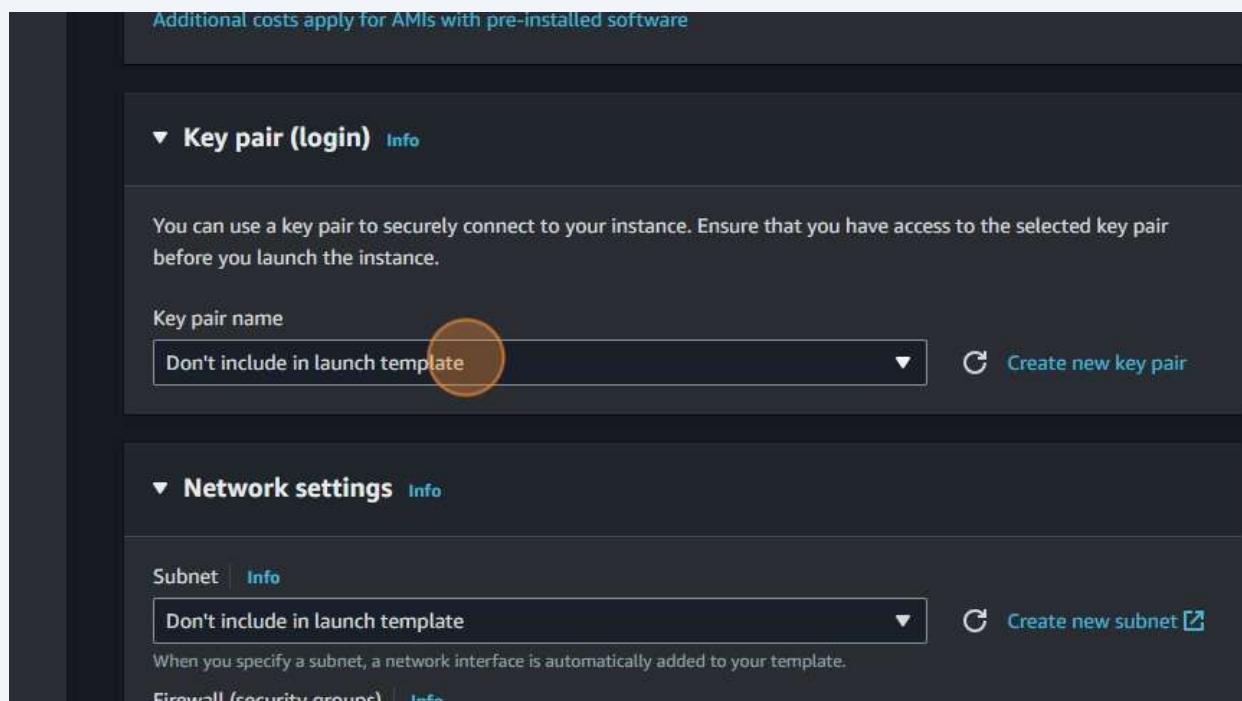
89 Click "Don't include in launch template"



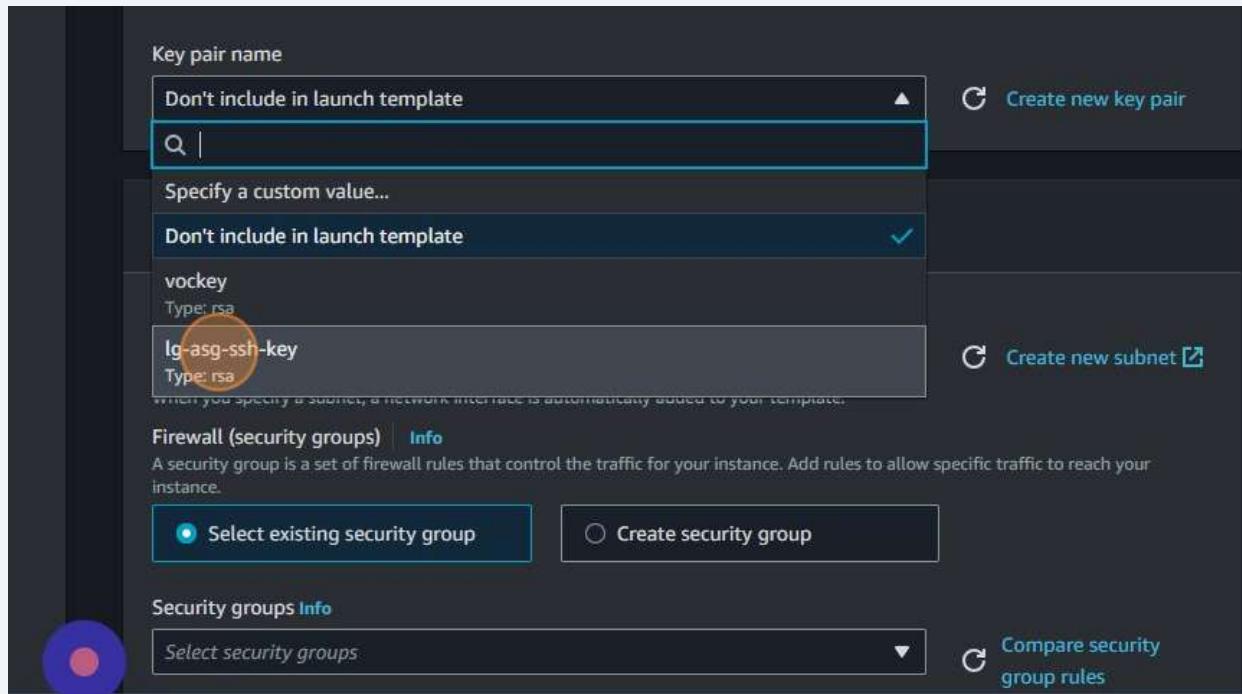
90 Click "1 vCPU"



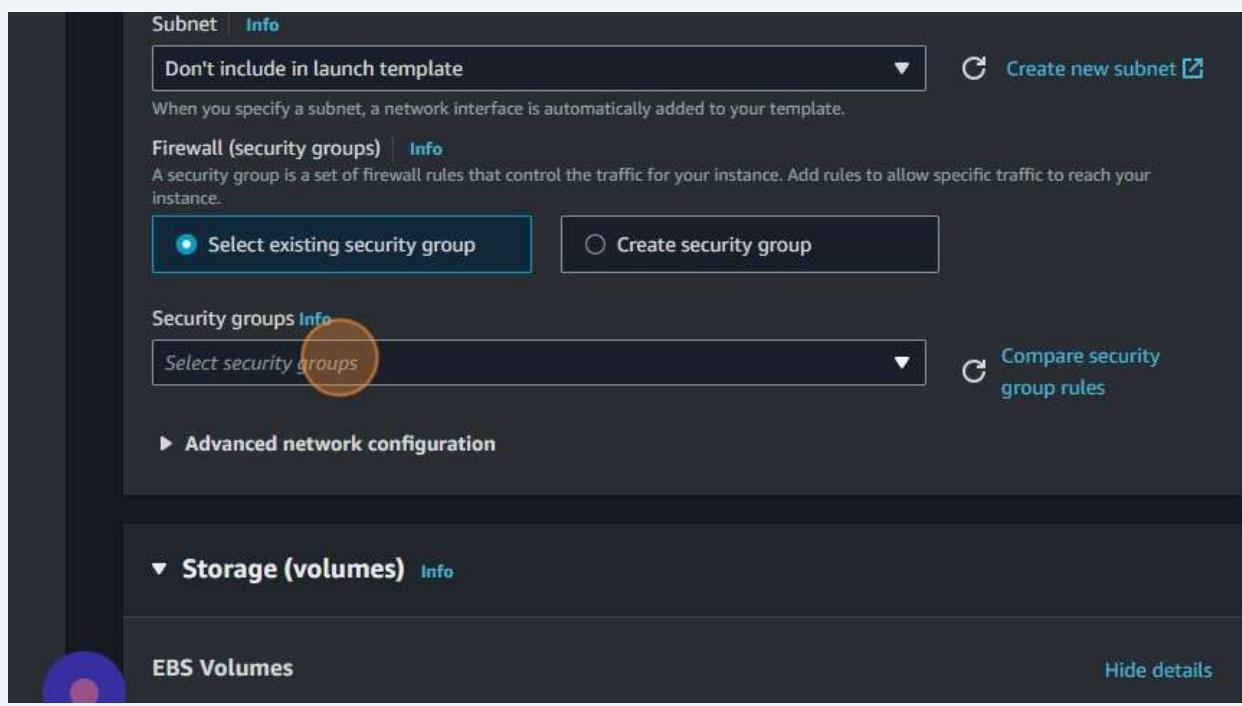
91 Click "Don't include in launch template"



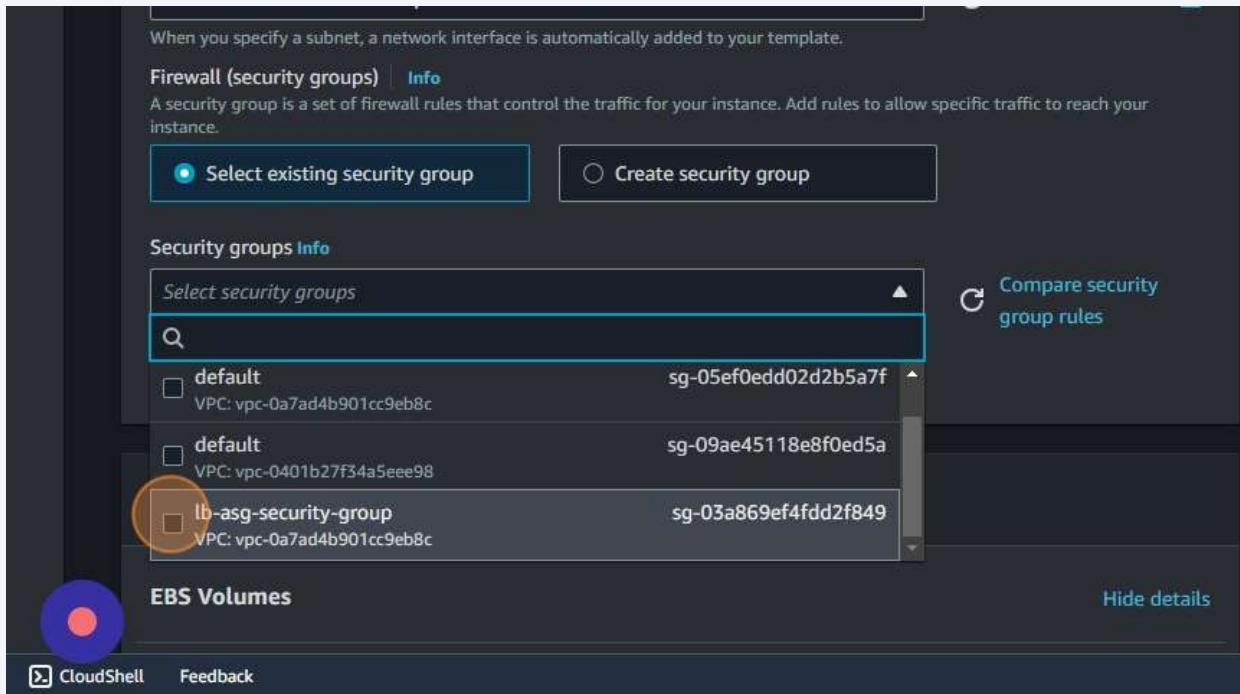
92 Click "lg-asg-ssh-key"



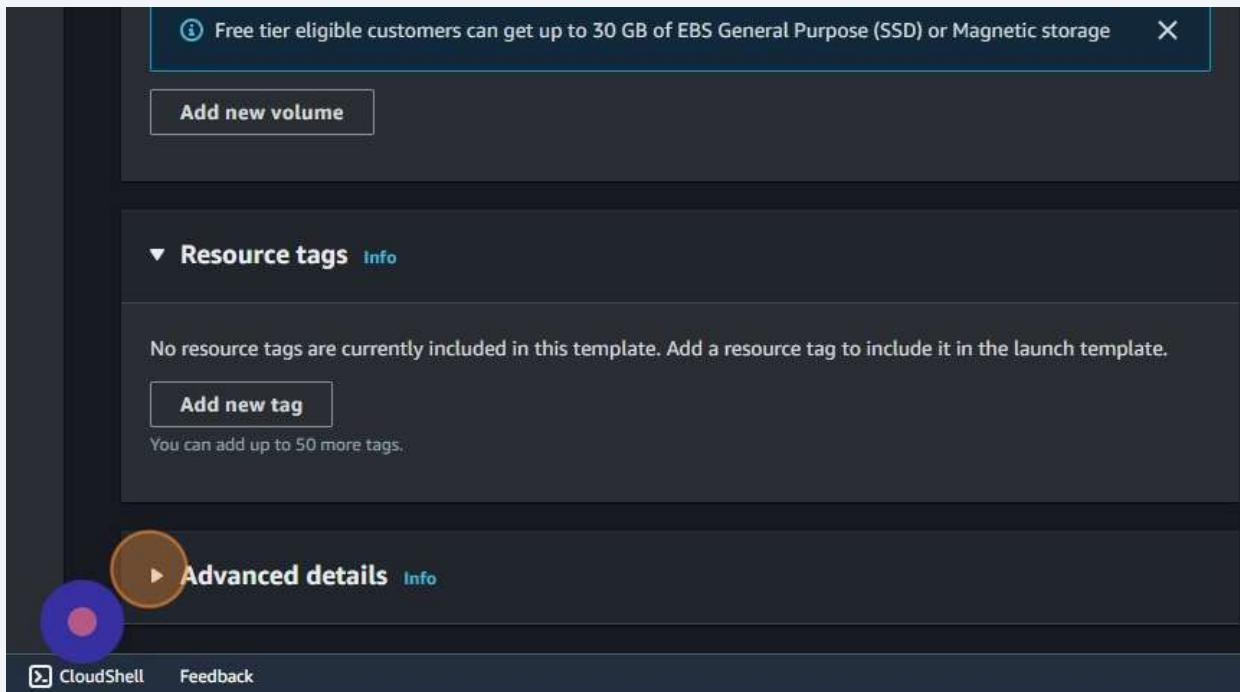
93 Click "Select security groups"



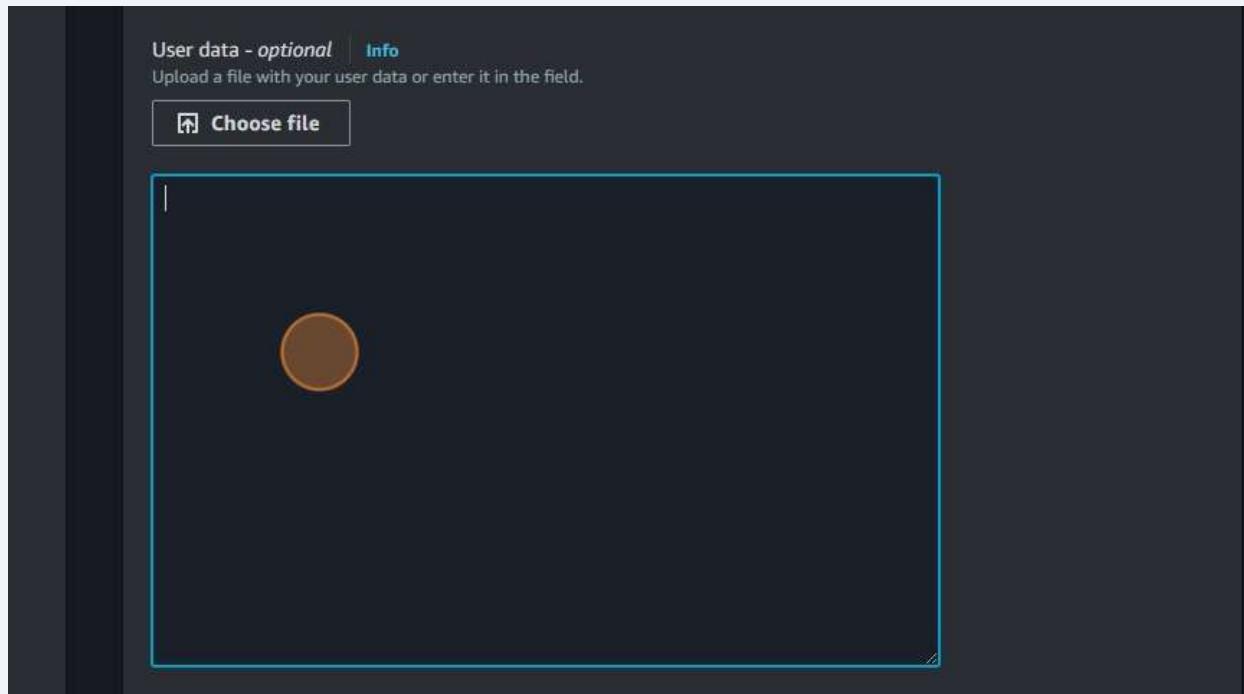
94 Click here.



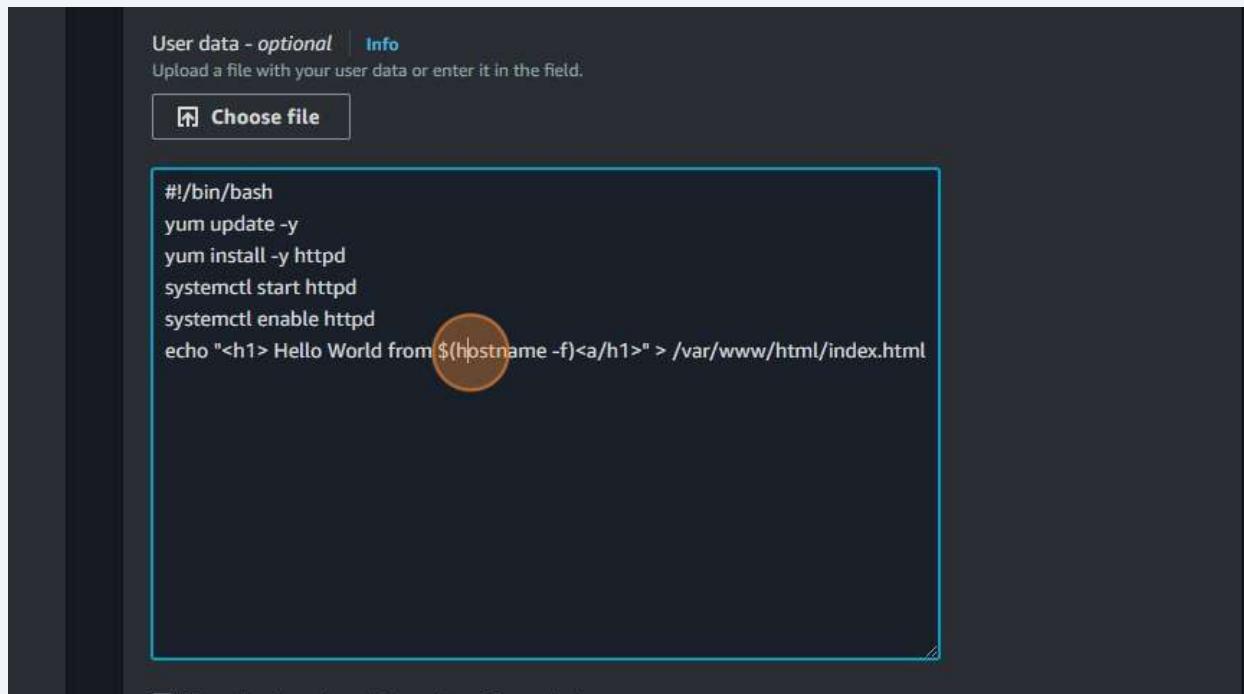
95 Click here.



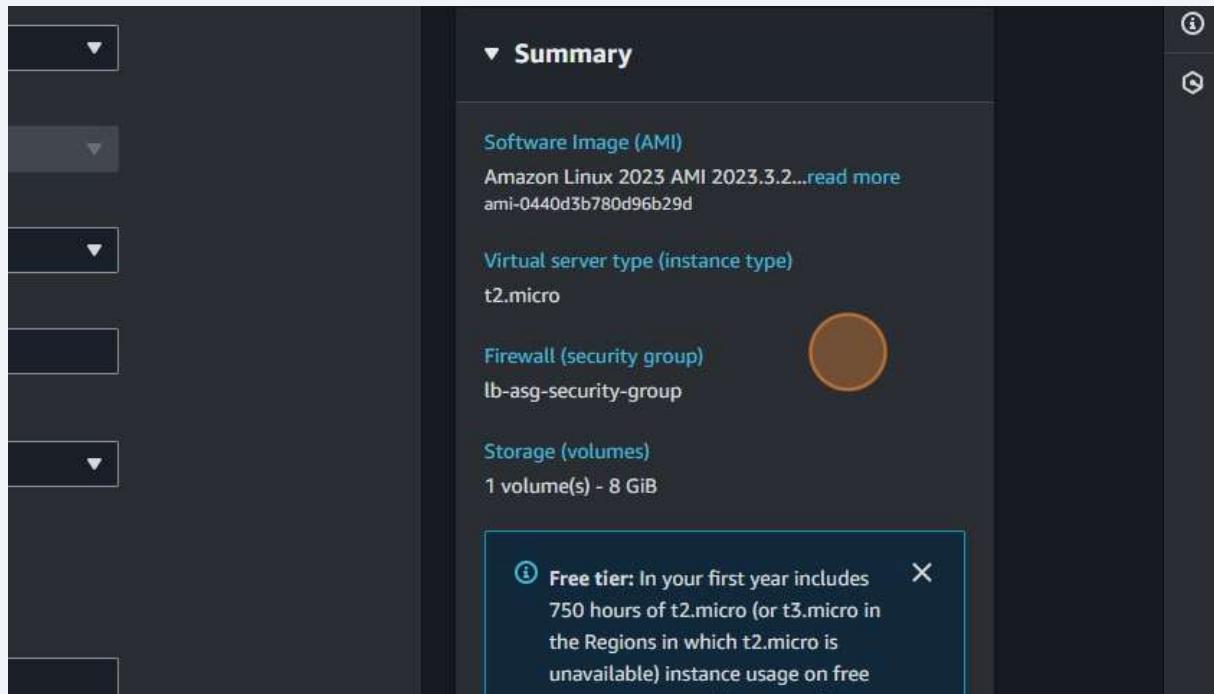
- 96** Click the "User data - optional" field.



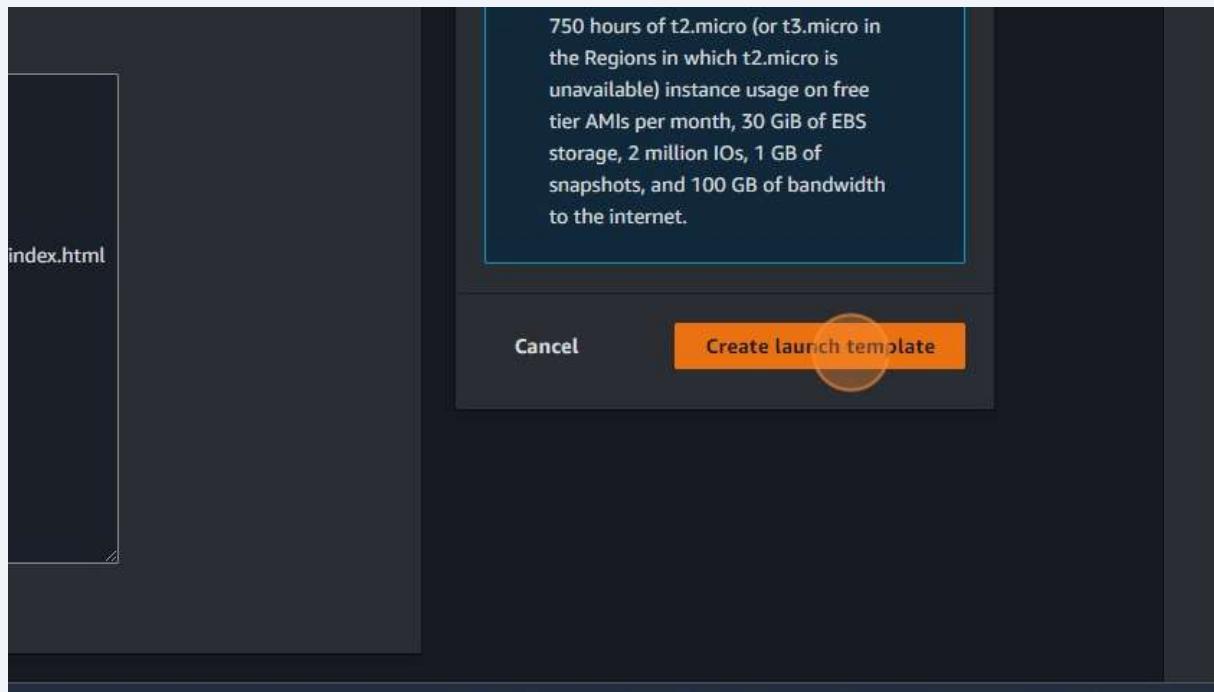
- 97** Click the "User data - optional" field.



98 Click here.



99 Click "Create launch template"



100 Click "Create an Auto Scaling group from your template"

actions log

Next Steps

[Launch an instance](#)

With On-Demand Instances, you pay for compute capacity by the second (for Linux, with a minimum of 60 seconds) or by the hour (for all other operating systems). Launch an On-Demand Instance from your launch template.

[Launch instance from this template](#)

[Create an Auto Scaling group from your template](#)



Amazon EC2 Auto Scaling helps you maintain application availability and allows you to scale your Amazon EC2 capacity up or down automatically. Auto Scaling to help ensure that you are running your desired number of Amazon EC2 instances during demand spikes to maintain performance and costs.

[Create Auto Scaling group](#)

[Create Spot Fleet](#)

A Spot Instance is an unused EC2 instance that is available for less than the On-Demand price. Because Spot Instances enable you to request instances at discounts, you can reduce your Amazon EC2 costs significantly. The hourly price for a Spot Instance (of each instance type in each Availability Zone) is set by Amazon EC2 based on supply of and demand for Spot Instances. Spot instances are well-suited for data-analysis, batch jobs, background processing, and optional tasks.

101 Click "View launch templates"

Allows you to scale your Amazon EC2 capacity up or down automatically according to conditions you define. You can use Auto Scaling to maintain performance and decrease capacity during lulls to reduce costs.

The On-Demand price. Because Spot Instances enable you to request unused EC2 instances at steep discounts, you can save money. The hourly price for a Spot Instance (of each instance type in each Availability Zone) is set by Amazon EC2, and adjusted gradually based on the long-term demand for data-analysis, batch jobs, background processing, and optional tasks.

[View launch templates](#)

102 Click this radio button.

The screenshot shows the AWS EC2 Launch Templates page. On the left, there's a sidebar with various EC2-related options like Dashboard, Global View, Events, and Launch Templates. The 'Launch Templates' option is selected and highlighted in blue. The main area displays a table titled 'Launch Templates (1)'. The table has columns for 'Launch Template ID', 'Launch Template Name', and 'Default'. There is one entry: 'lt-031df025298028980' under 'Launch Template ID', 'ec2-template-asg' under 'Launch Template Name', and '1' under 'Default'. A red circle highlights the radio button in the first column of the table, indicating where the user should click.

103 Click here.

The screenshot shows the 'Launch template details' page for 'ec2-template-asg'. At the top, it says 'ec2-template-asg (lt-031df025298028980)'. Below that is a section titled 'Template details'. The table contains four rows: 'Launch template name' (with a dropdown menu showing 'ec2-template-asg'), 'Default version' (with a dropdown menu showing '1'), 'Owner' (with a dropdown menu showing 'arn:aws:sts::471112888888:role/vclabs/user301'), and 'Last modified' (with a dropdown menu showing '2023-09-01 12:00:00'). A small circular icon with an equals sign is highlighted with a red circle, likely indicating a placeholder or a link.

104 Click "Launch Templates (1/1)

Info
Actions
Create launch template
1

Launch Template ID

Launch Template Name

Default Version

Latest Version

..."

The screenshot shows the AWS Launch Templates list page. At the top, there is a header with a back arrow, a search bar, and buttons for 'Info', 'Actions ▾', and 'Create launch template'. Below the header is a table with the following columns: Create ID, Launch Template Name, Default Version, Latest Version, and Create Time. One row is visible, showing a Create ID of 8028980, a Launch Template Name of ec2-template-asg, a Default Version of 1, a Latest Version of 1, and a Create Time of 2024-02-24T10:51:28Z. The row has a blue background. To the right of the table is a large orange circular button with a white minus sign. Below the table is a 'details' section with tabs for 'General' and 'Configuration'. The 'General' tab shows the Launch template name as ec2-template-asg, the Default version as 1, and the Owner as arn:aws:sts::471112841555:role/voclabs/user301155. There are also 'Actions ▾' and 'Delete' buttons in this section.

Create ID	Launch Template Name	Default Version	Latest Version	Create Time
8028980	ec2-template-asg	1	1	2024-02-24T10:51:28Z

details

General	Configuration
Launch template name ec2-template-asg	Default version 1
	Owner arn:aws:sts::471112841555:role/voclabs/user301155

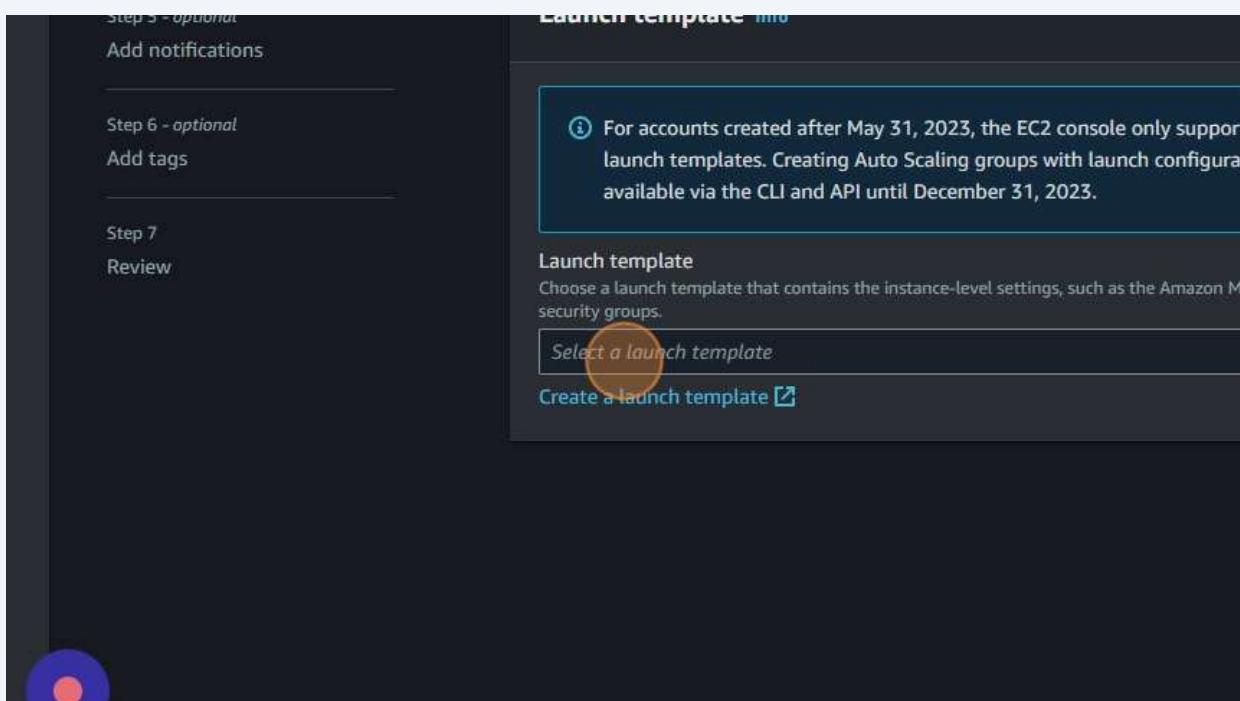
- 105** Click "Details
Versions
Template tags"

The screenshot shows the 'Launch template details' page for a launch template named 'ec2-template-asg'. The 'Template tags' tab is highlighted with a blue underline and a yellow circle. The page displays the launch template ID 'lt-031df025298028980', name 'ec2-template-asg', and default version '1'. Below the main table, there is a section titled 'Launch template version details' with a single entry for version 1 (Default) created on 2024-02-24T10:59:12.000Z.

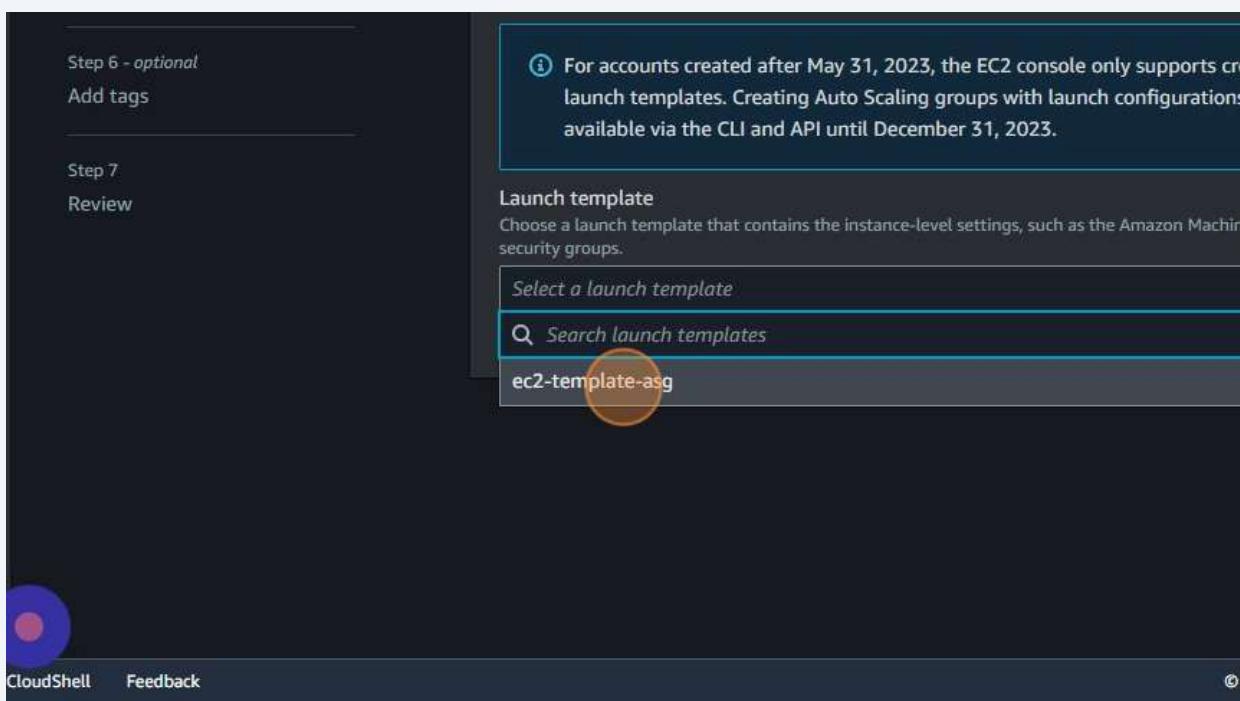
- 106** Click here.

The screenshot shows the second step of the 'Create Auto Scaling group' wizard. A modal window is displayed, stating: 'After May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch configurations. Creating Auto Scaling groups with launch configurations is not recommended but still supported via the API until December 31, 2023.' Below this message, it says: 'This step contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security group.' A dropdown menu is open, showing the option 'ec2-template-asg' with a yellow circle around it. At the bottom of the modal are 'Cancel' and 'Next' buttons.

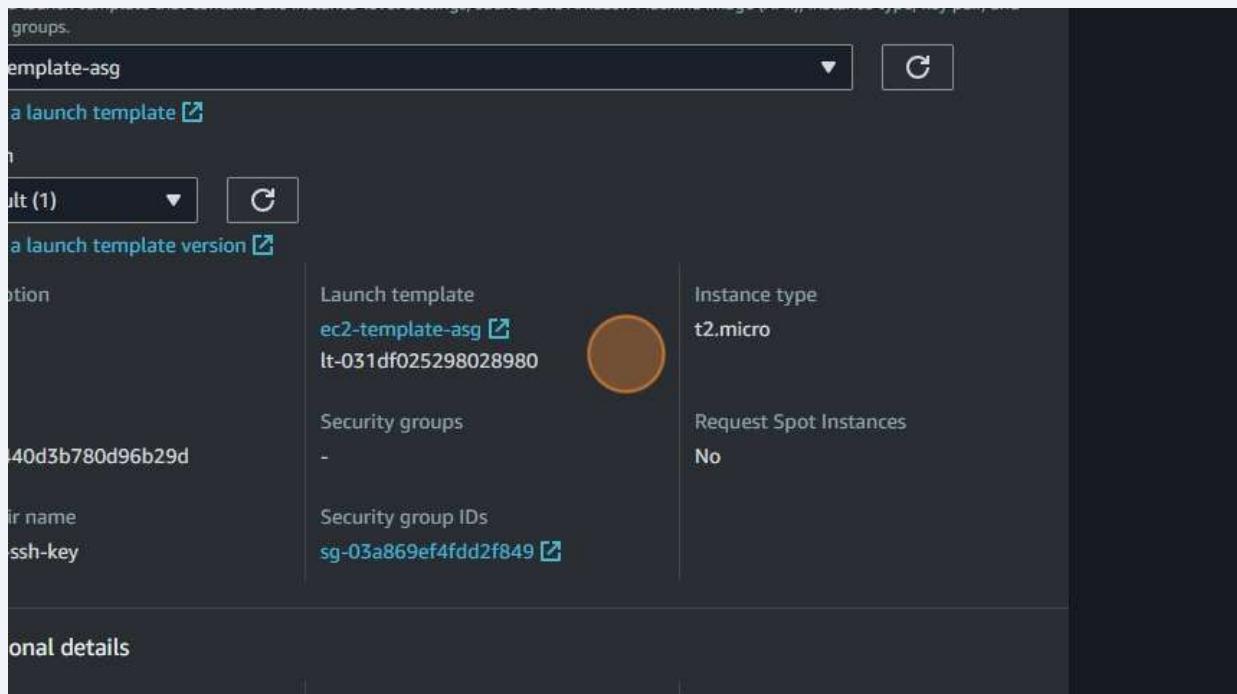
107 Click "Select a launch template"



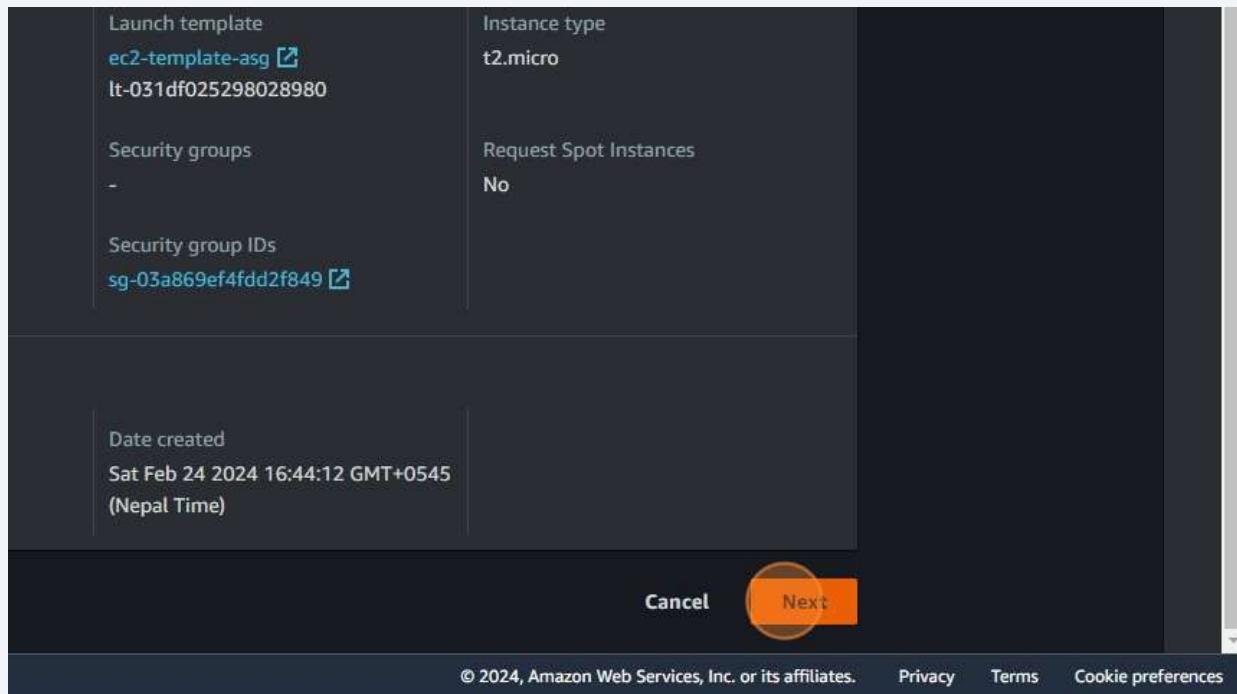
108 Click "ec2-template-asg"



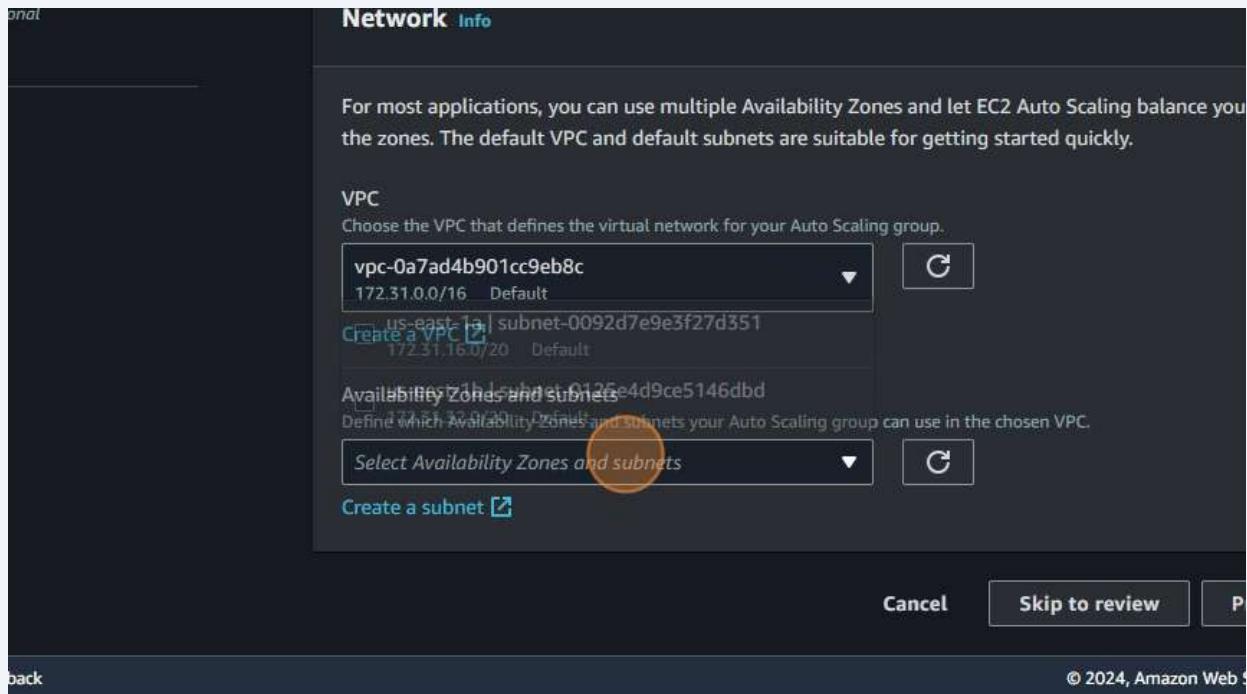
109 Click "lt-031df025298028980"



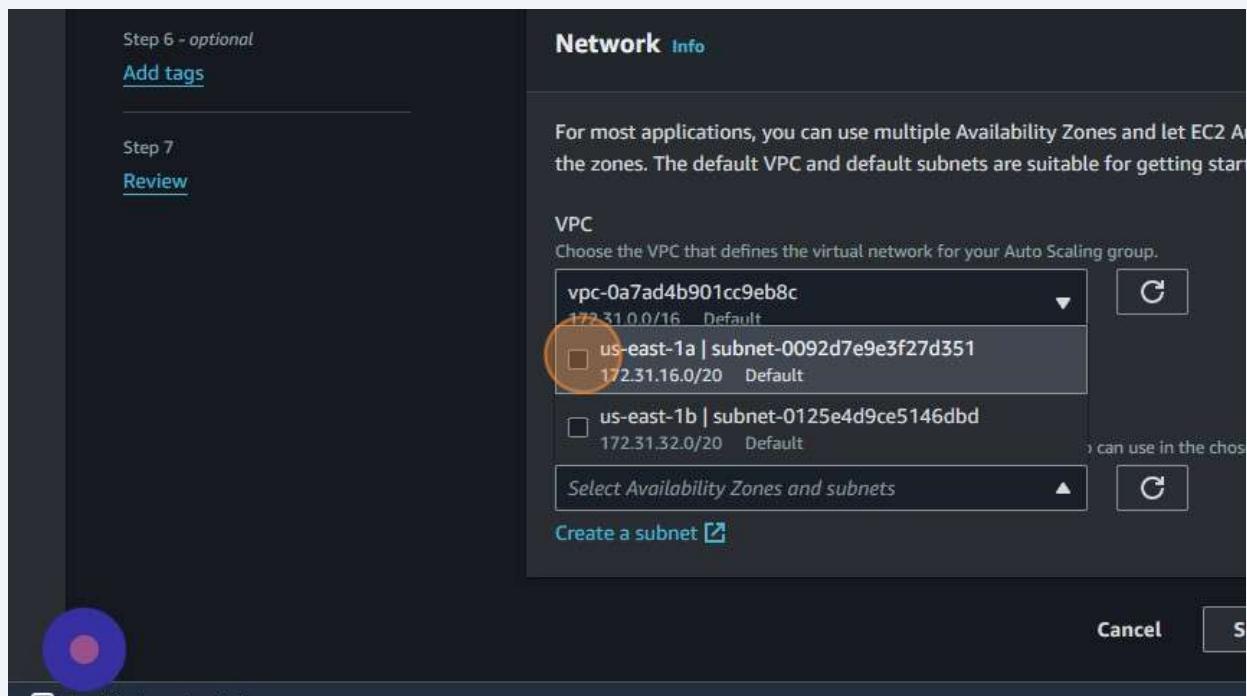
110 Click "Next"



111 Click "Select Availability Zones and subnets"



112 Click here.

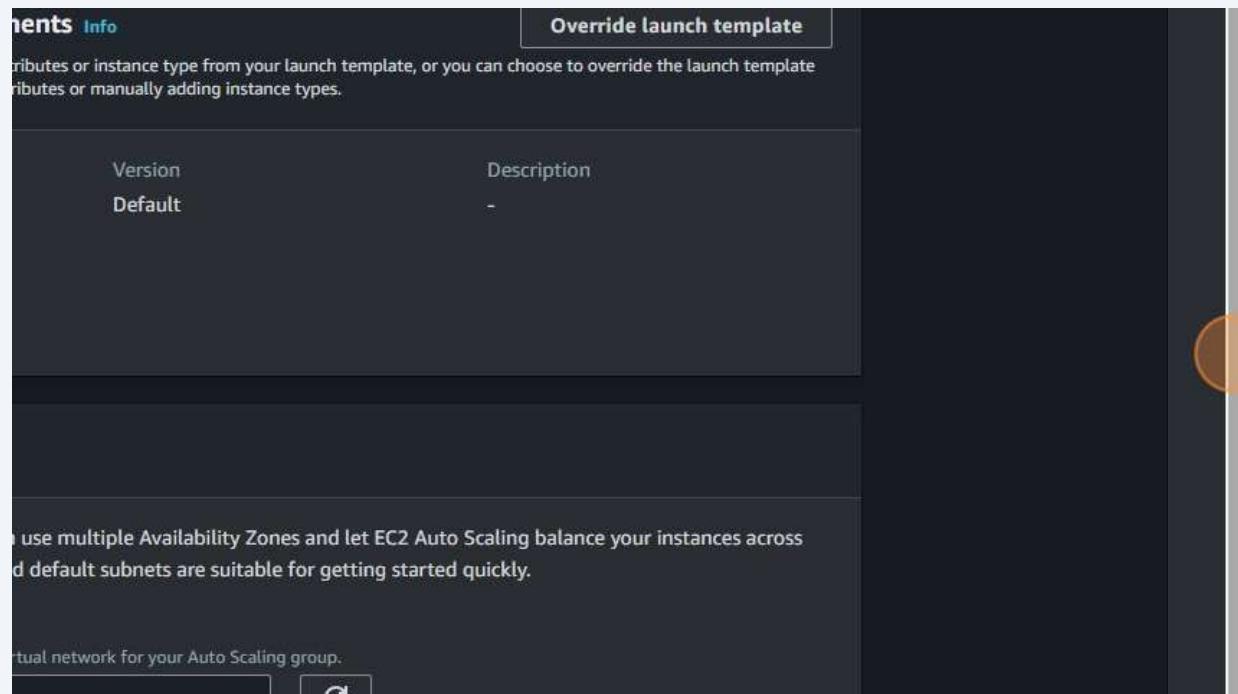


113 Click here.

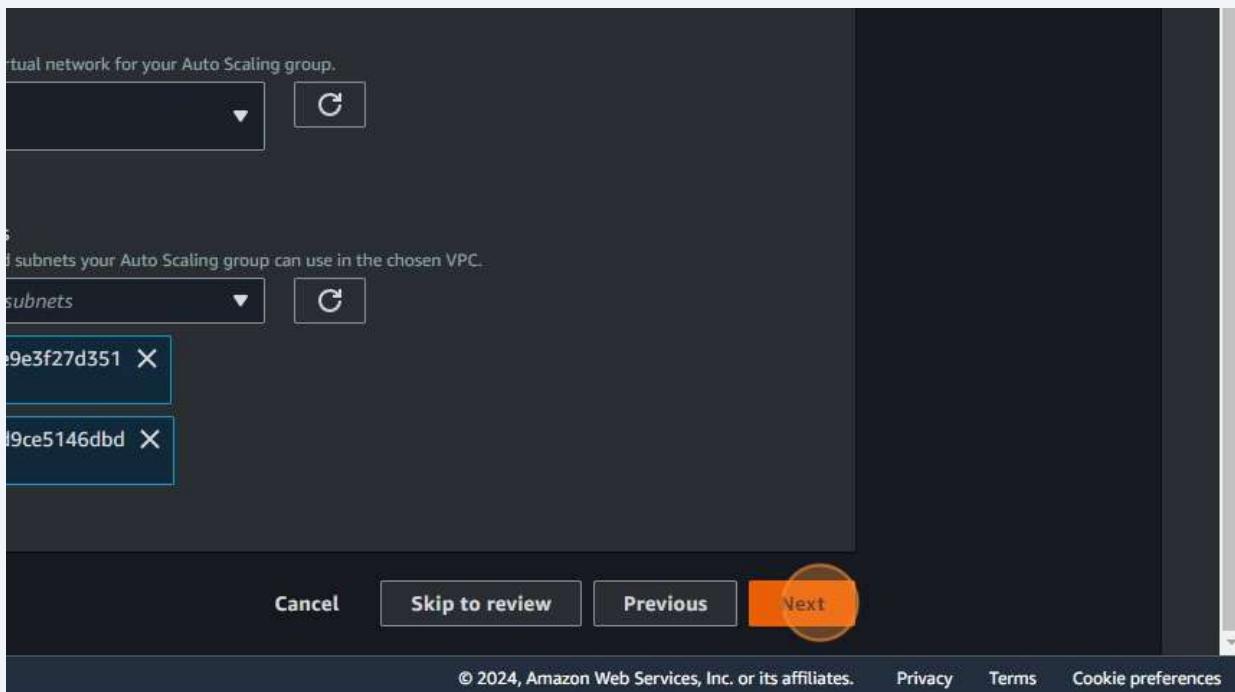
The screenshot shows the 'Network' configuration step of an AWS Auto Scaling group setup. On the left, there are navigation links: 'Step 6 - optional' (disabled), 'Add tags', 'Step 7', and 'Review'. The main area is titled 'Network' with an 'Info' link. It contains a note about using multiple Availability Zones. Below is a 'VPC' section where users can choose the VPC for their Auto Scaling group. A dropdown menu lists three subnets under 'us-east-1a': 'us-east-1a | subnet-0092d7e9e3f27d351' (selected and highlighted with a red circle), 'us-east-1b | subnet-0125e4d9ce5146dbd' (unchecked), and 'Select Availability Zones and subnets'. A 'Create a subnet' button is also present. The bottom of the screen shows standard AWS navigation links: CloudShell, Feedback, and a circular profile icon.

114

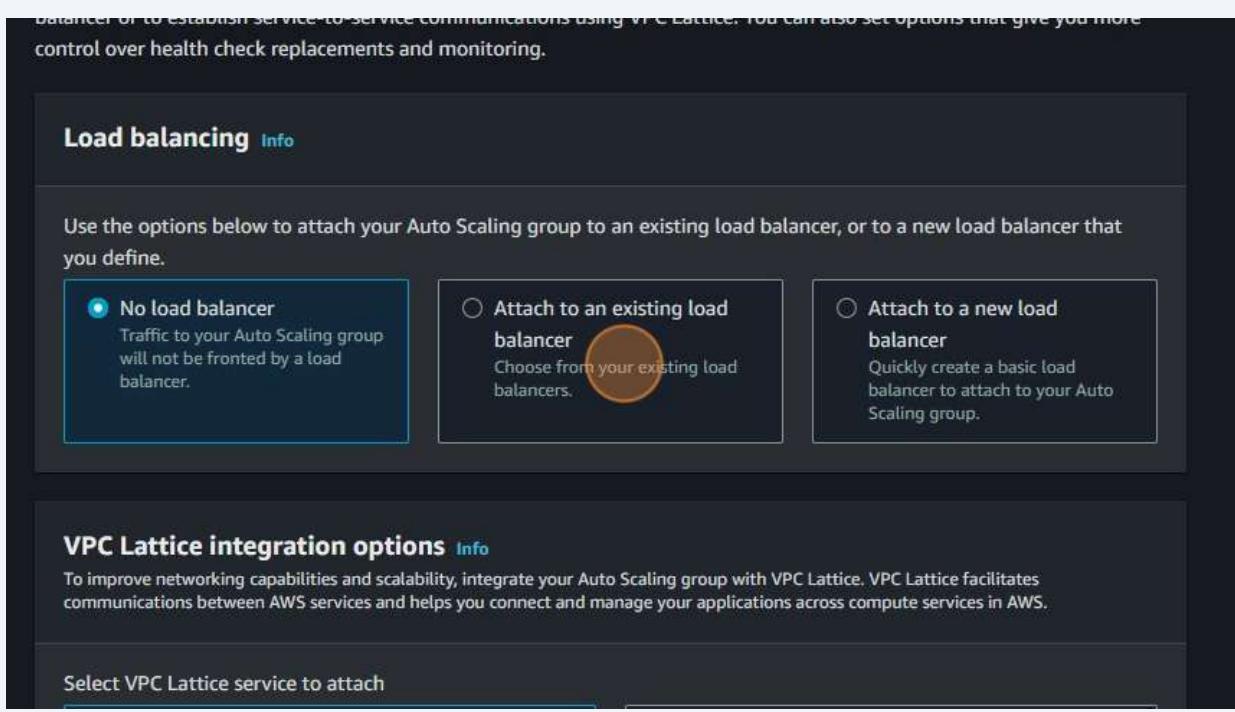
Click "EC2
Auto Scaling groups
Create Auto Scaling group
Step 1
Choose launch template
Step 2
Choose instance launch options
Step 3 - optional
Configur..."



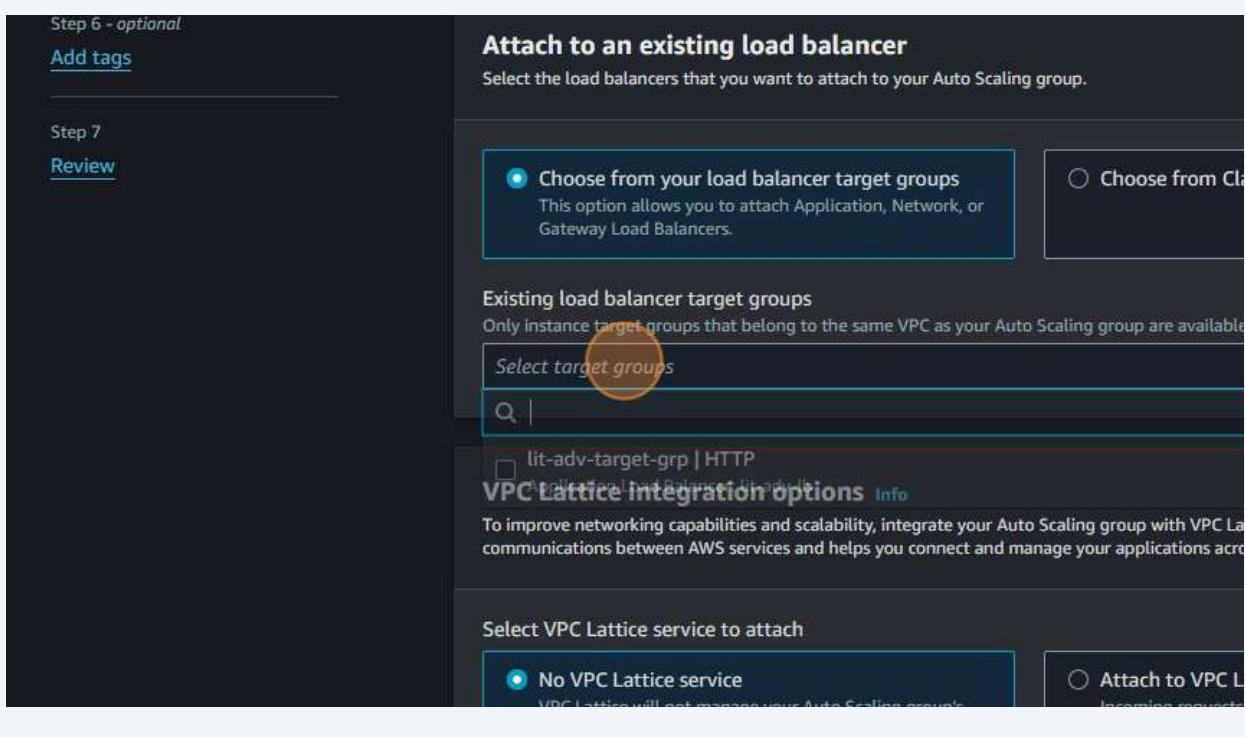
115 Click "Next"



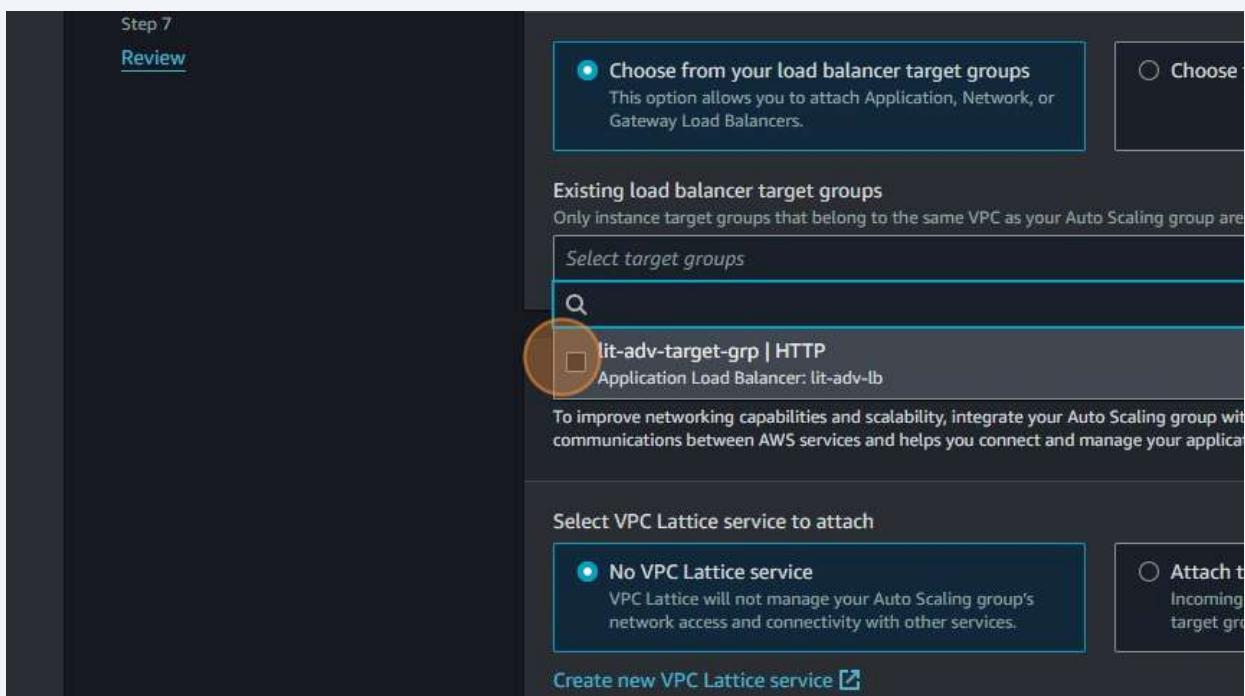
116 Click "Choose from your existing load balancers."



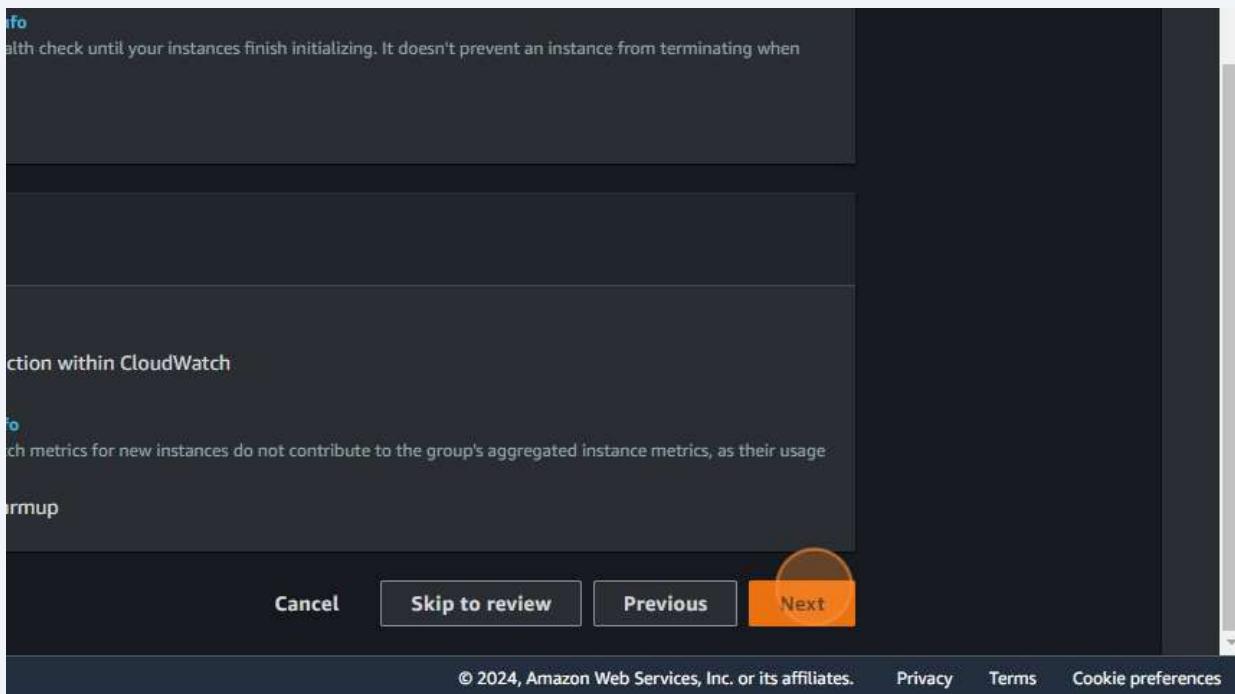
117 Click "Select target groups"



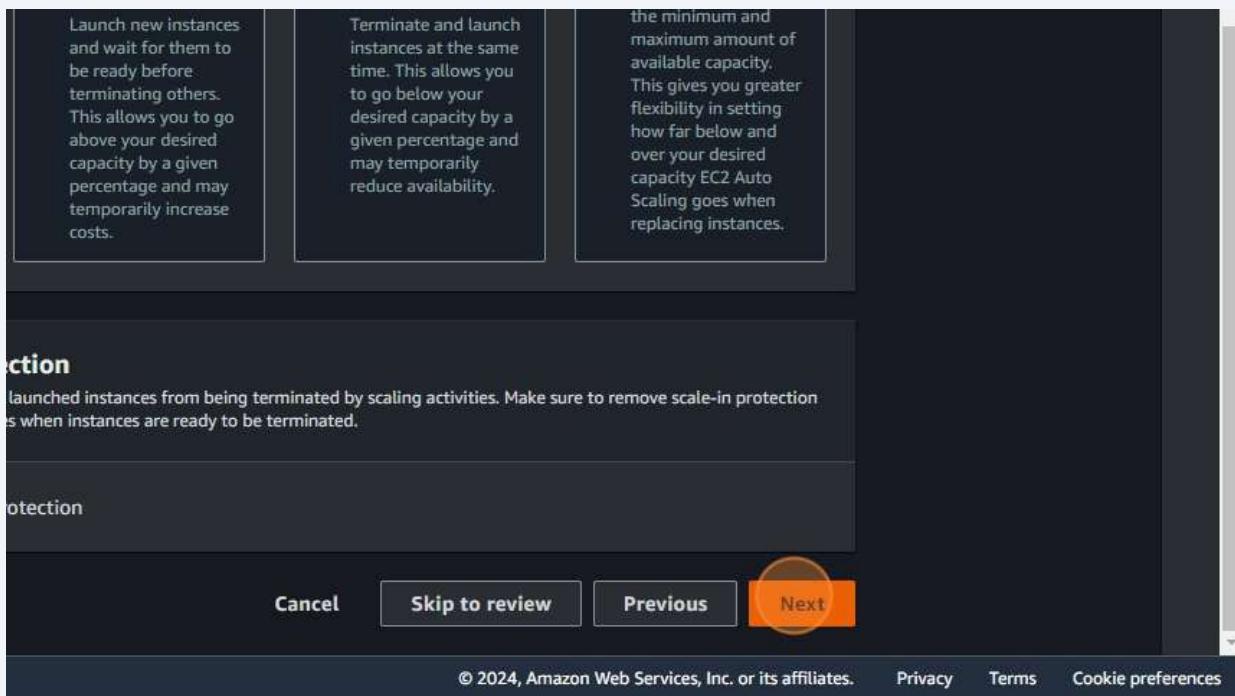
118 Click "lit-adv-target-grp | HTTP
Application Load Balancer: lit-adv-lb
lit-adv-target-grp | HTTP Application Load Balancer: lit-adv-lb"



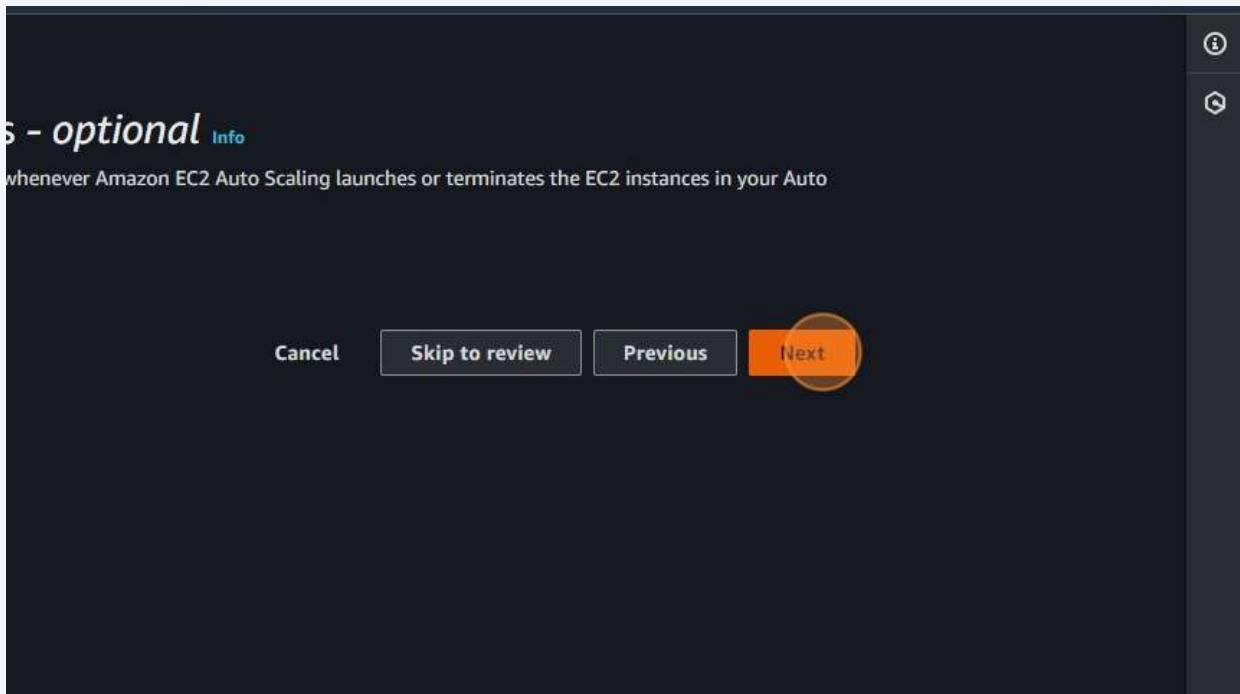
119 Click "Next"



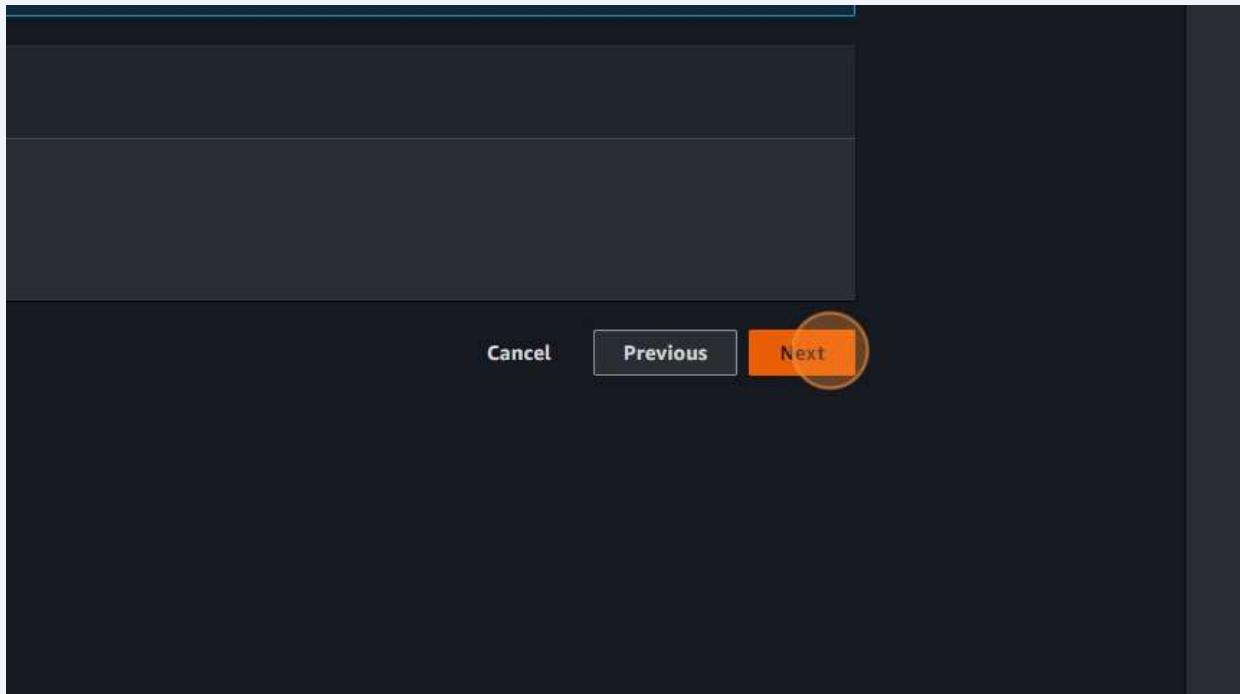
120 Click "Next"



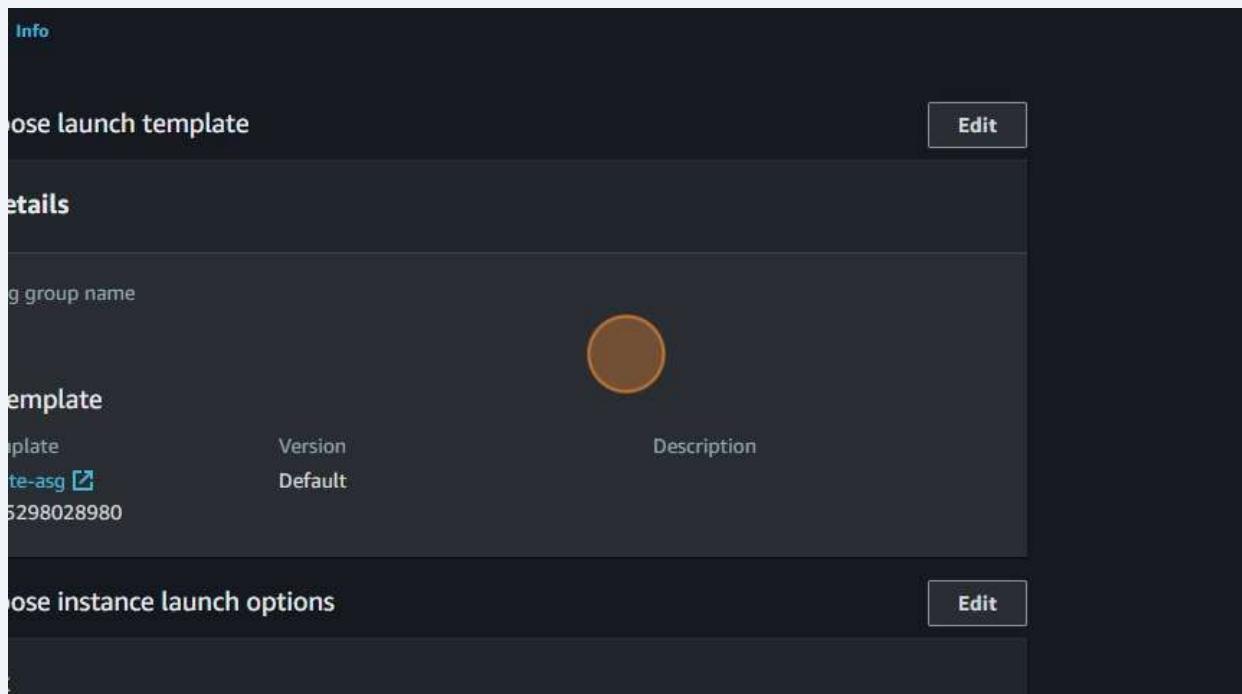
121 Click "Next"



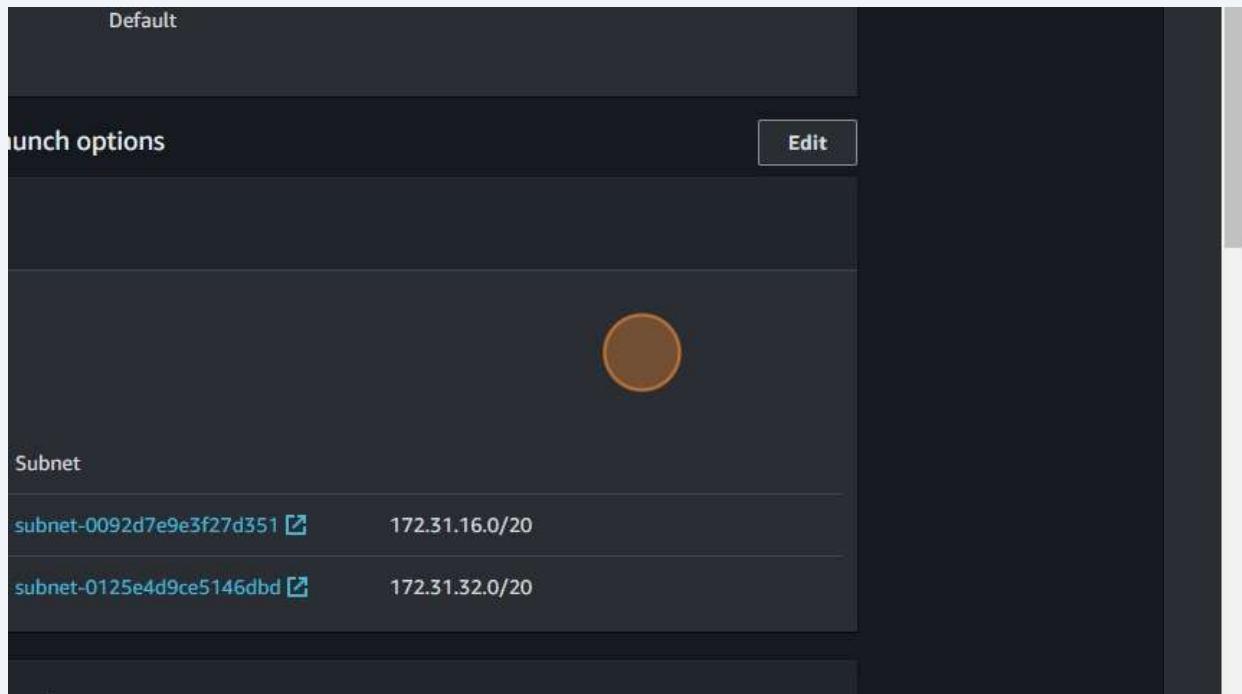
122 Click "Next"



123 Click here.



124 Click "VPC"



125 Click here.

The screenshot shows the 'Advanced type requirements' section of an AWS Auto Scaling launch template configuration. It includes a note that the Auto Scaling group will adhere to the launch template, a link to 'Configure advanced options' with an 'Edit' button, and a 'Load balancing' section for a target balancer named 'balancer 1'. The balancer is of type 'Application/HTTP' and is associated with a target group 'lit-adv-target-grp'. There is also a 'Lattice integration options' section.

126 Click here.

The screenshot shows the 'Integration options' section of an AWS Auto Scaling launch template configuration. It includes a 'Groups' section, a 'Health check grace period' set to '300 seconds', and a 'Warmings' section where 'Default instance warmup' is set to 'Disabled'.

127 Click here.

Step 4: Configure group size and scaling policies

Edit

Group size

Desired capacity	Desired capacity type
1	Units (number of instances)

Scaling

Minimum desired capacity	Maximum desired capacity
1	1

Target tracking policy

-

Instance maintenance policy

128 Click here.

Target tracking policy

-

Instance maintenance policy

Replacement behavior	Min healthy percentage	Max healthy percentage
No policy	-	-

Instance scale-in protection

Instance scale-in protection

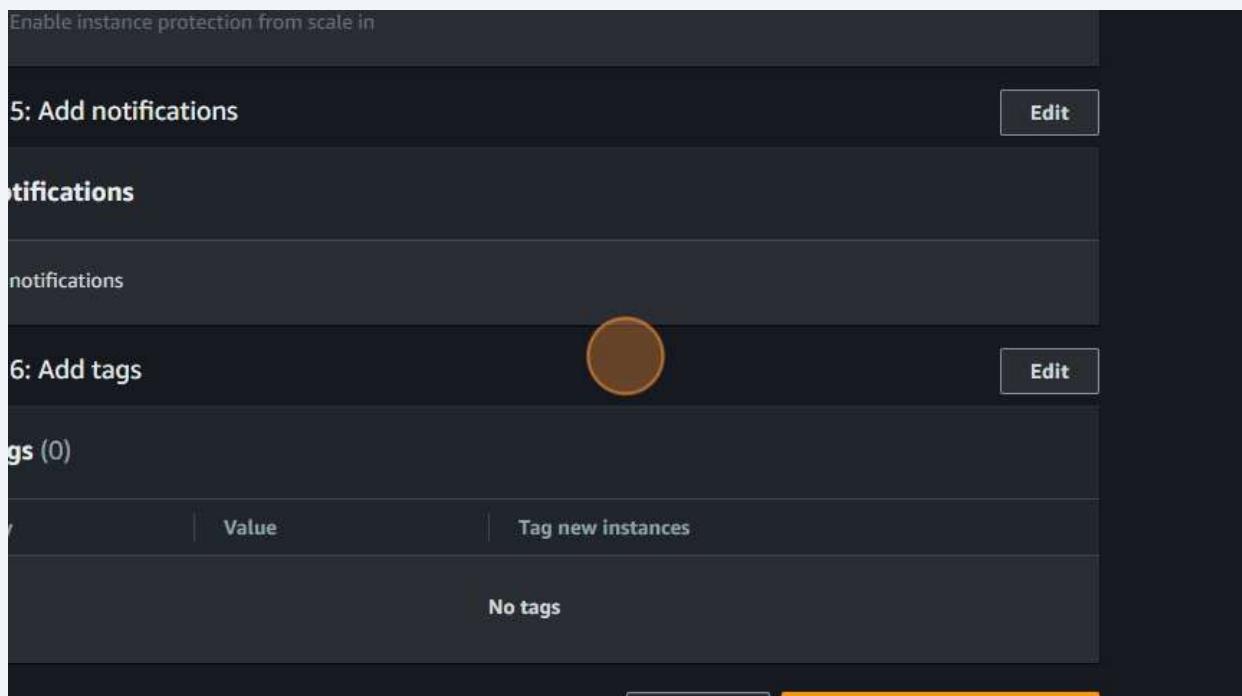
Enable instance protection from scale in

Step 5: Add notifications

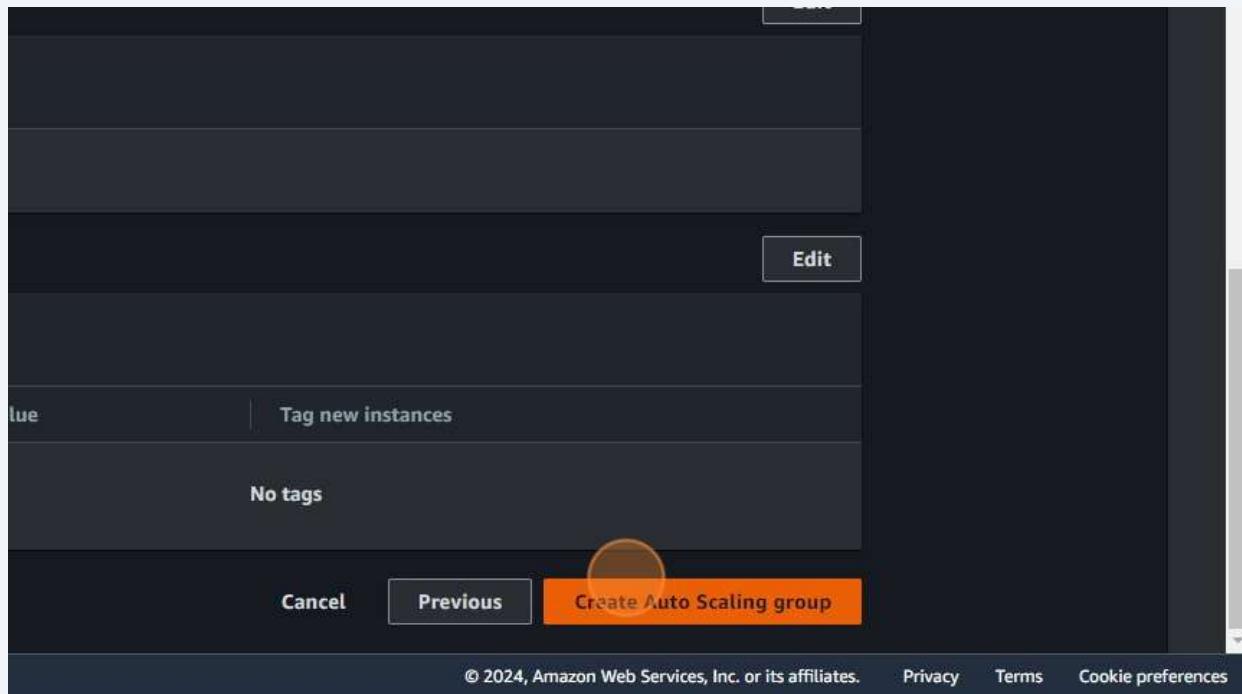
Edit

Notifications

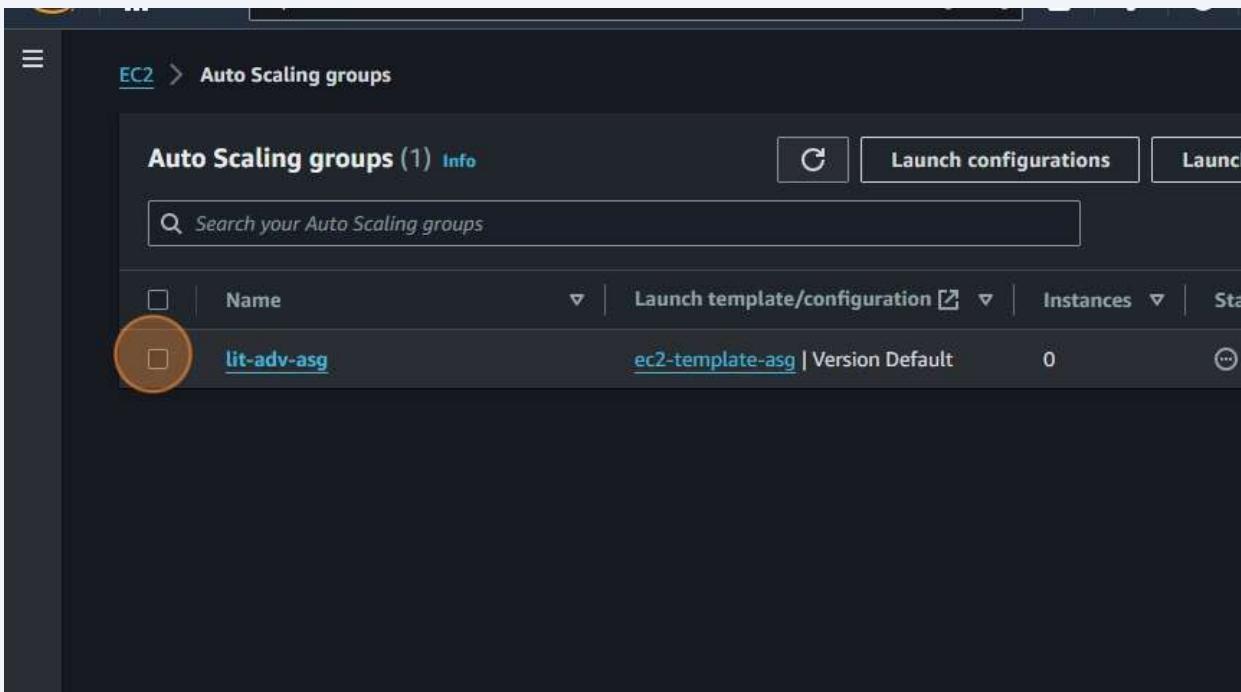
129 Click here.



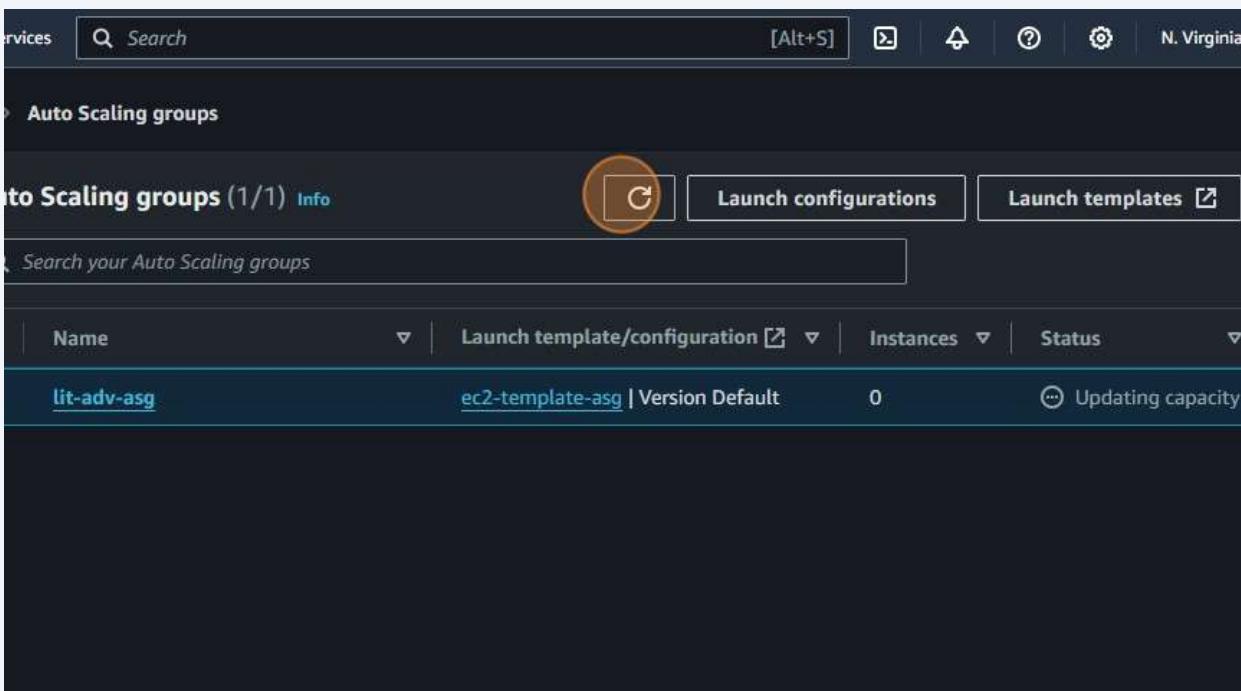
130 Click "Create Auto Scaling group"



131 Click this checkbox.



132 Click this button.



133 Click this checkbox.

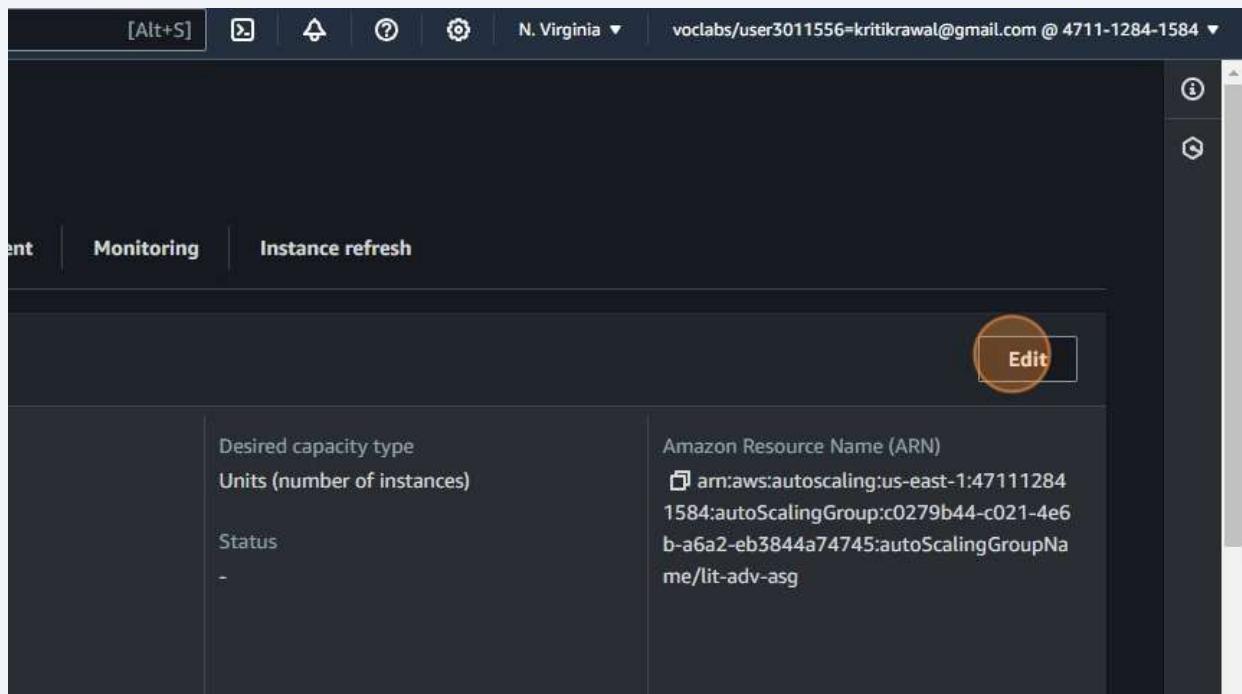
The screenshot shows the AWS EC2 Auto Scaling groups page. At the top, there's a navigation bar with 'EC2 > Auto Scaling groups'. Below it, a search bar says 'Search your Auto Scaling groups'. A table lists one Auto Scaling group:

Name	Launch template/configuration	Instances	Status
lit-adv-asg	ec2-template-asg Version Default	1	-

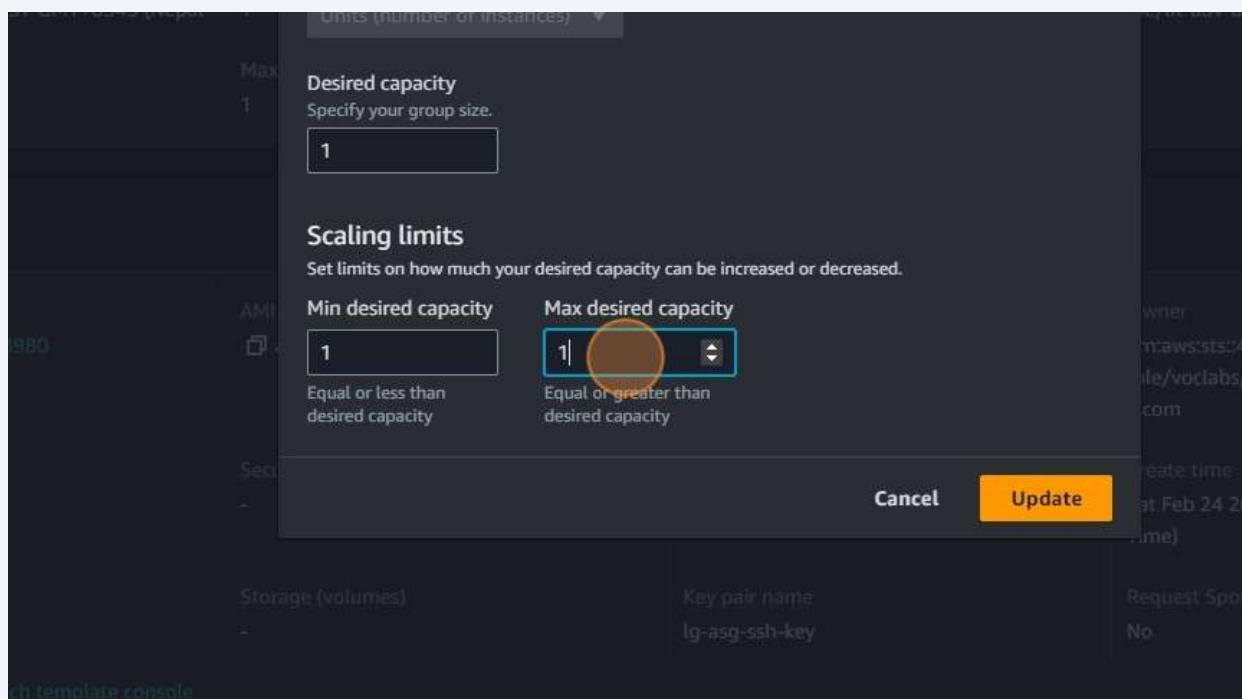
A checkbox is located to the left of the 'Name' column header, and another checkbox is highlighted with a red circle to the left of the 'lit-adv-asg' row.

134 Navigate to <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroupDetails:id=lit-adv-asg;view=details>

135 Click "Edit"

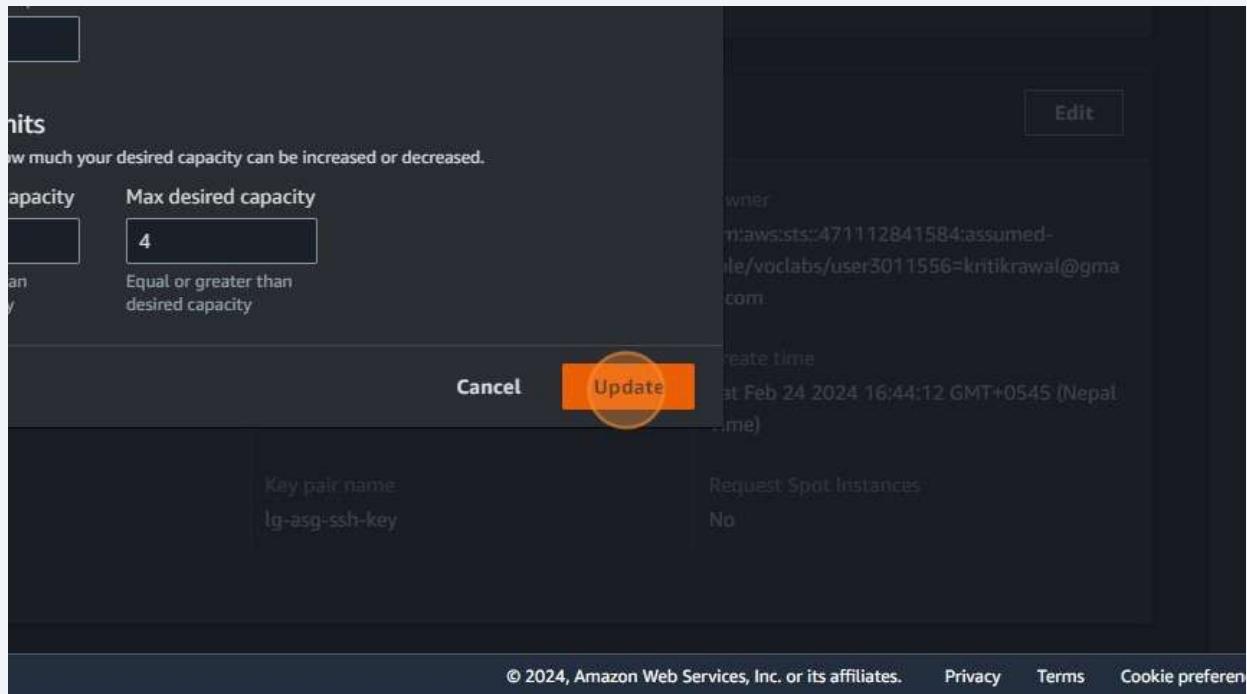


136 Click the "Max desired capacity" field.



137 Type " Backspace 4"

138 Click "Update"



139 Click "Auto Scaling groups"

The screenshot shows the AWS EC2 Auto Scaling groups interface. The navigation bar at the top includes the AWS logo, Services (with Auto Scaling highlighted), a search bar, and various navigation icons. Below the navigation is a breadcrumb trail: EC2 > Auto Scaling groups > lit-adv-asg. The main content area is titled "lit-adv-asg". A horizontal menu bar below the title contains six items: Details (which is selected and highlighted in blue), Activity, Automatic scaling, Instance management, Monitoring, and Instance refresh. Under the "Details" tab, there is a section titled "Group details" containing the following information:

Auto Scaling group name	Desired capacity	Desired capacity type
lit-adv-asg	1	Units (number of instances)
Date created	Minimum capacity	Status
Sat Feb 24 2024 16:47:57 GMT+0545 (Nepal Time)	1	-
	Maximum capacity	
	4	

140 Click here.

The screenshot shows the AWS Auto Scaling groups interface. The navigation bar at the top includes the Services (with Auto Scaling selected), a search bar, and various navigation icons. Below the navigation is a breadcrumb trail: Auto Scaling groups > Auto Scaling groups (1). The main content area lists one Auto Scaling group:

Name	Launch template/configuration	Instances	Status
lit-adv-asg	ec2-template-asg Version Default	1	-

A large orange circle highlights the "Create new" button (indicated by a plus sign) located above the search bar.

141 Click "lit-adv-asg"

The screenshot shows the AWS EC2 Auto Scaling groups page. At the top, there's a navigation bar with 'EC2 > Auto Scaling groups'. Below it, a search bar says 'Search your Auto Scaling groups'. A table lists one Auto Scaling group: 'Name' (lit-adv-asg), 'Launch template/configuration' (ec2-template-asg | Version Default), 'Instances' (1), and 'Status' (green). The 'Name' column has a red circle around the 'lit-adv-asg' entry.

142 Click "Auto Scaling groups"

The screenshot shows the 'Auto Scaling groups' details page for 'lit-adv-asg'. The top navigation bar includes 'Services' and a 'Search' bar. The main title is 'lit-adv-asg'. Below it, there are tabs: 'Details' (which is active), 'Activity', 'Automatic scaling', 'Instance management', 'Monitoring', and 'Instance refresh'. Under the 'Group details' section, there are two columns of information:

Auto Scaling group name	Desired capacity	Desired capacity type
lit-adv-asg	1	Units (number of instances)

Date created	Minimum capacity	Status
Sat Feb 24 2024 16:47:57 GMT+0545 (Nepal Time)	1	-

143

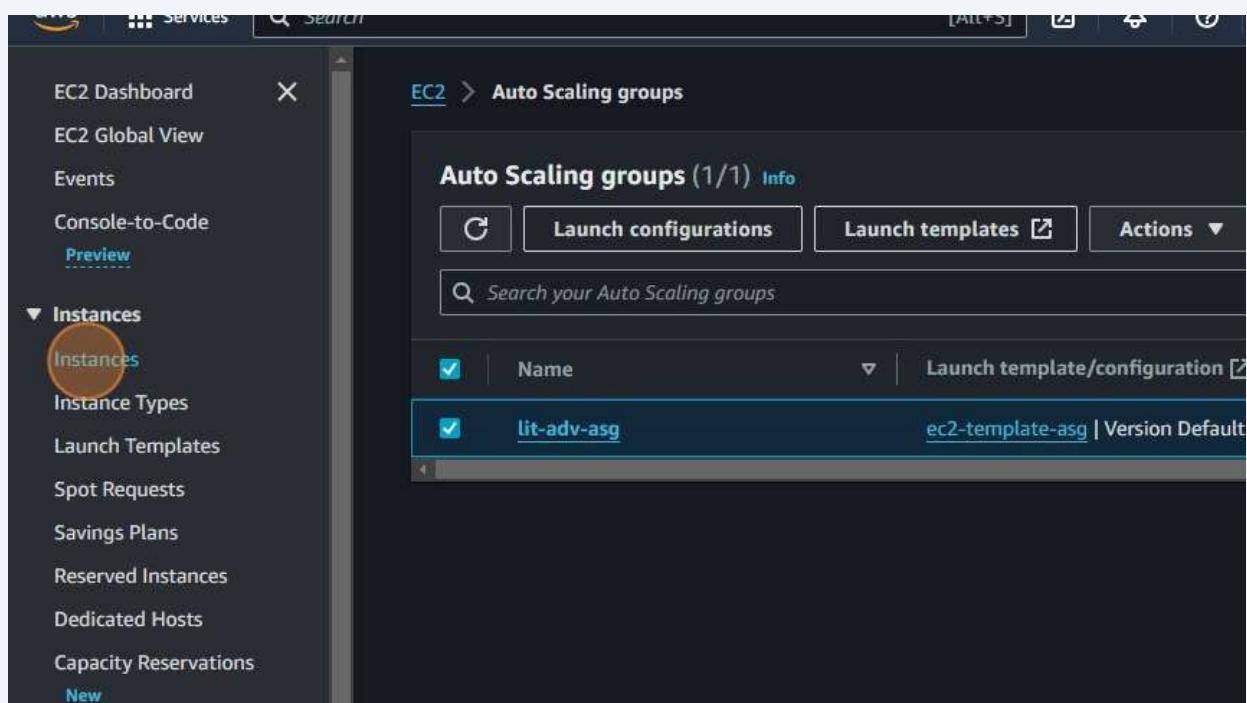
Navigate to <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroups:id=lit-adv-asg;view=details>

144

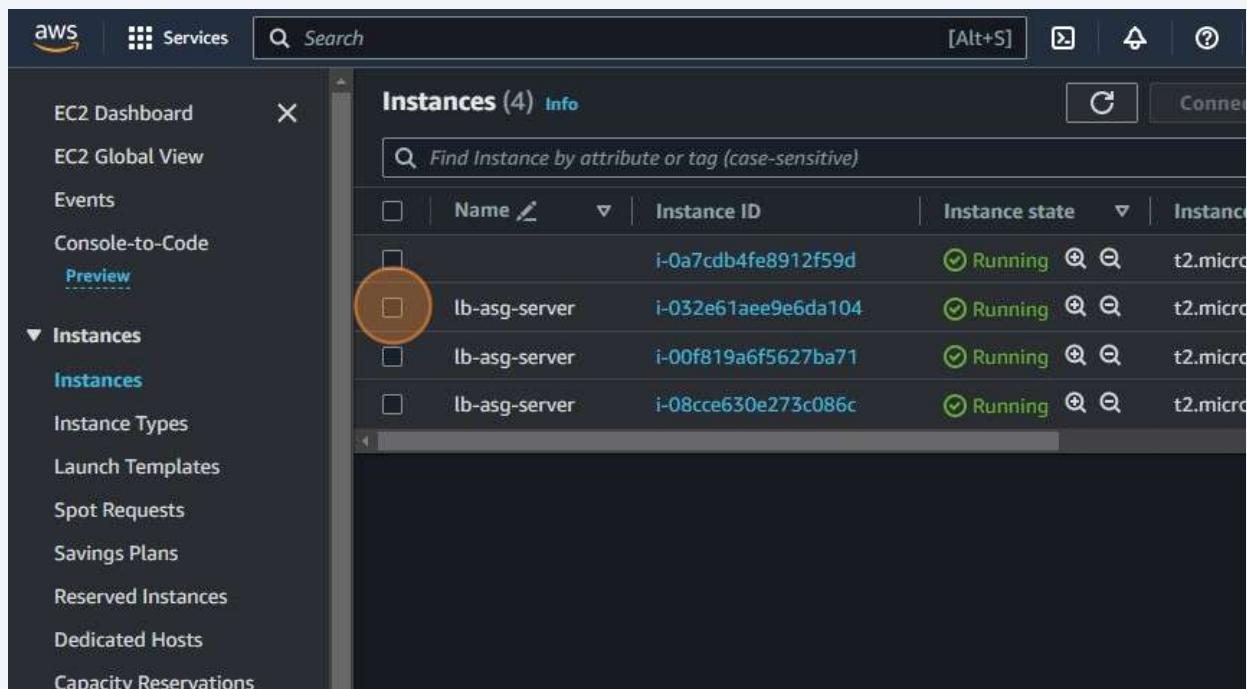
Click here.

The screenshot shows the AWS Management Console interface for the Auto Scaling service. The top navigation bar includes the AWS logo, a 'Services' dropdown, a search bar with placeholder text '[Alt+S]', and several icons for refresh, filter, and help. Below the navigation is a breadcrumb trail: 'EC2 > Auto Scaling groups'. The main content area has a dark header with the text 'Auto Scaling groups (1/1)' and a 'Info' link. To the right of the header are three buttons: 'Create' (with a plus sign icon), 'Launch configurations', and 'Launch template'. A search bar below the header contains the placeholder 'Search your Auto Scaling groups'. The main table lists one Auto Scaling group: 'lit-adv-asg'. The table columns are 'Name' (with a checked checkbox), 'Launch template/configuration' (showing 'ec2-template-asg | Version Default'), 'Instances' (showing '1'), and 'Status' (partially visible). The entire screenshot is framed by a light gray border.

145 Click "Instances"



146 Click this checkbox.



147 Click "Select instance: lb-asg-server"

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with options like EC2 Dashboard, EC2 Global View, Events, Console-to-Code (Preview), Instances (selected), Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, and Capacity Reservations. The main area is titled 'Instances (1/4) Info'. It contains a search bar and a table with columns: Name, Instance ID, Instance state, and Instance type. There are four rows, each representing an instance named 'lb-asg-server' with different IDs: i-032e61aee9e6da104, i-00f819a6f5627ba71, and i-08cce630e273c086c. The first row has a checked checkbox and is circled in red.

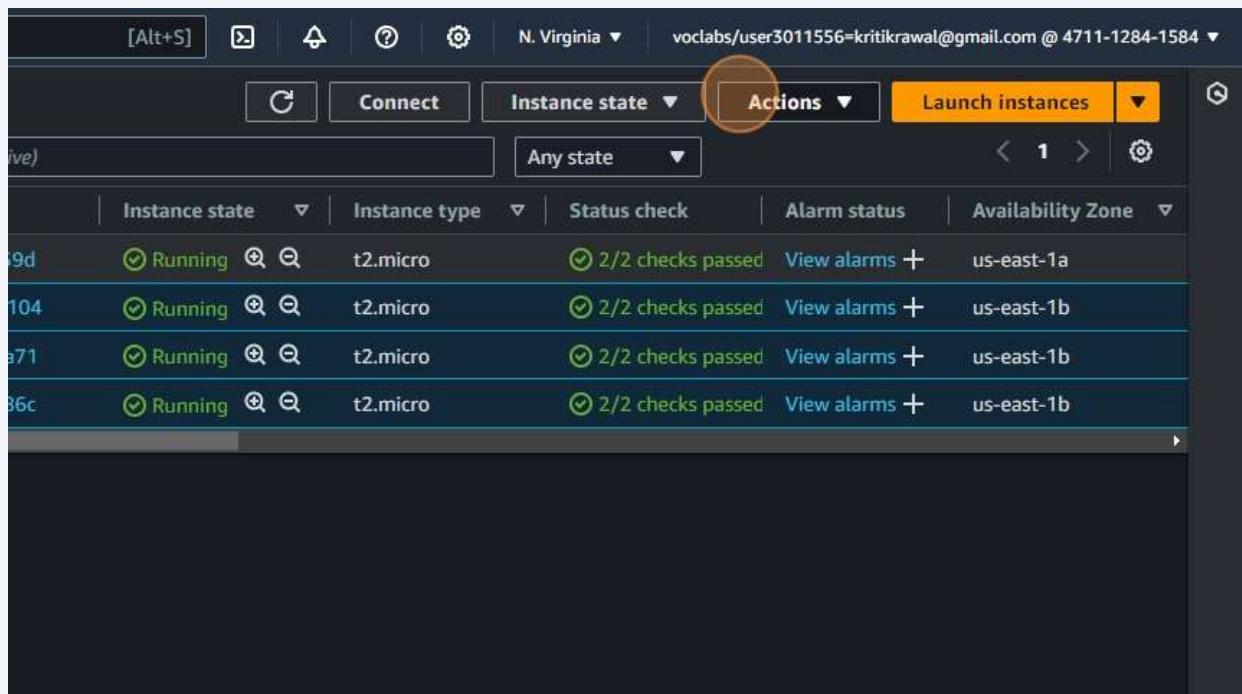
Name	Instance ID	Instance state	Instance type
lb-asg-server	i-032e61aee9e6da104	Running	t2.micro
lb-asg-server	i-00f819a6f5627ba71	Running	t2.micro
lb-asg-server	i-08cce630e273c086c	Running	t2.micro

148 Click this checkbox.

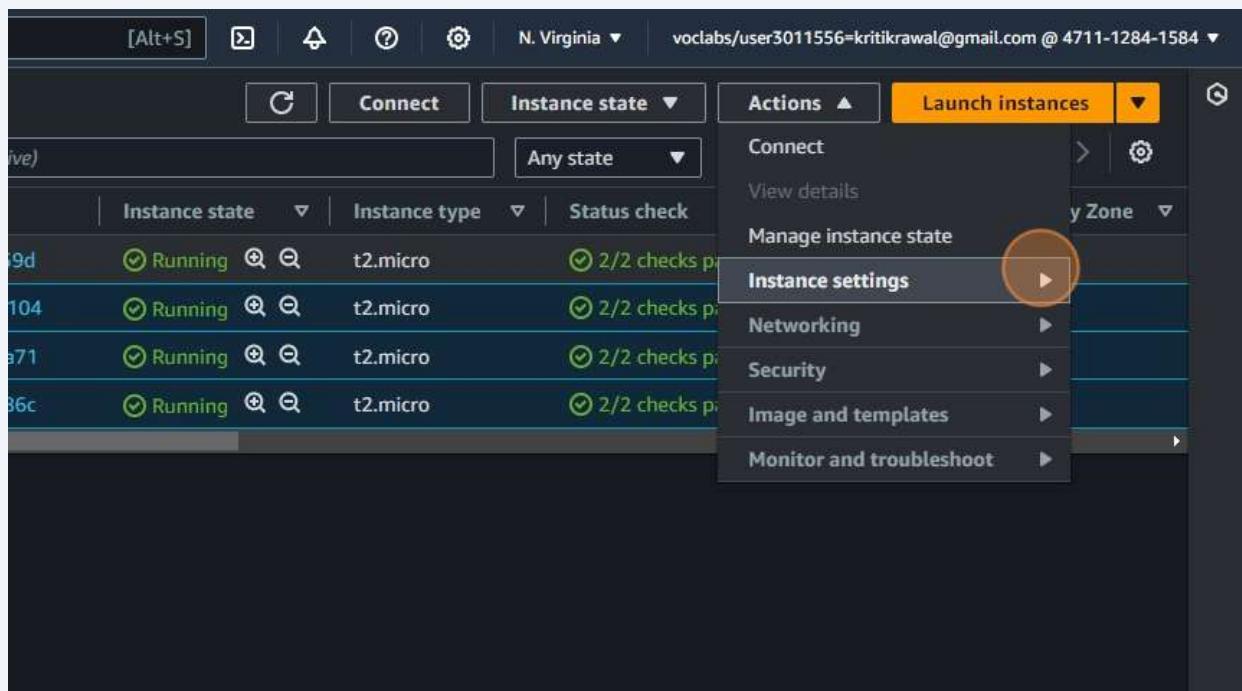
This screenshot is similar to the previous one, showing the AWS EC2 Instances page. The sidebar and table structure are identical. However, in this version, the first two instances ('lb-asg-server') have their checkboxes selected, indicated by a checked mark and a red circle around the checkbox area.

Name	Instance ID	Instance state	Instance type
lb-asg-server	i-032e61aee9e6da104	Running	t2.micro
lb-asg-server	i-00f819a6f5627ba71	Running	t2.micro
lb-asg-server	i-08cce630e273c086c	Running	t2.micro

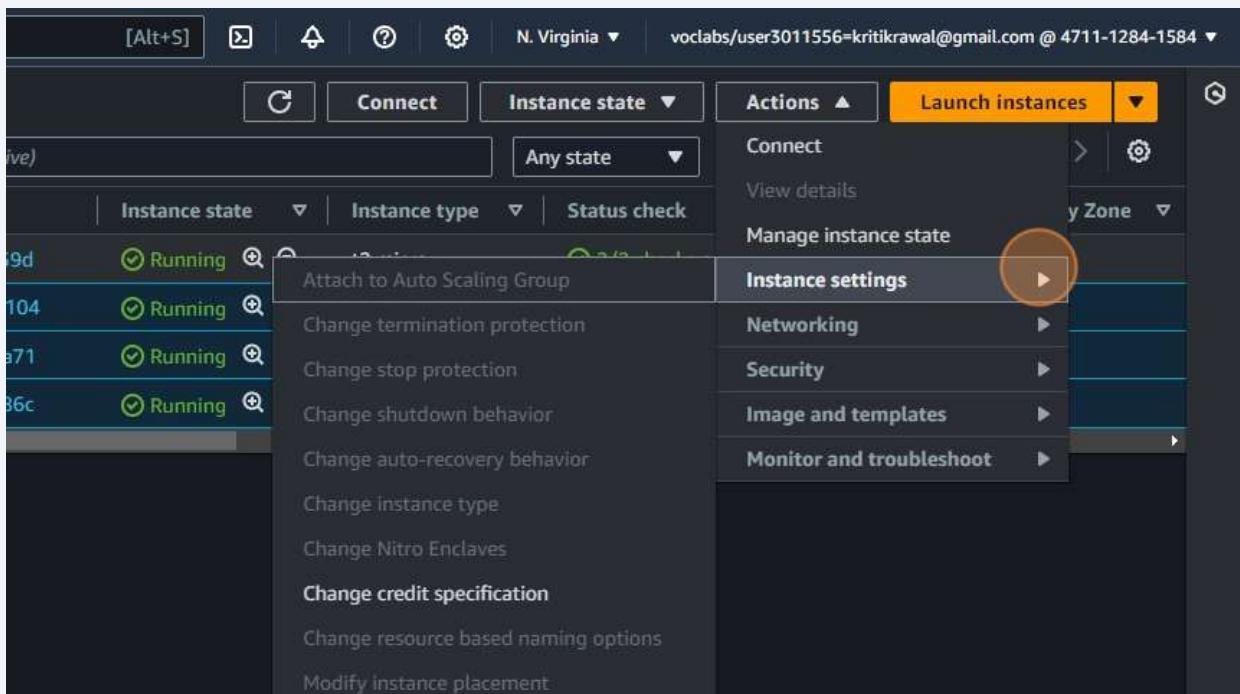
149 Click "Actions"



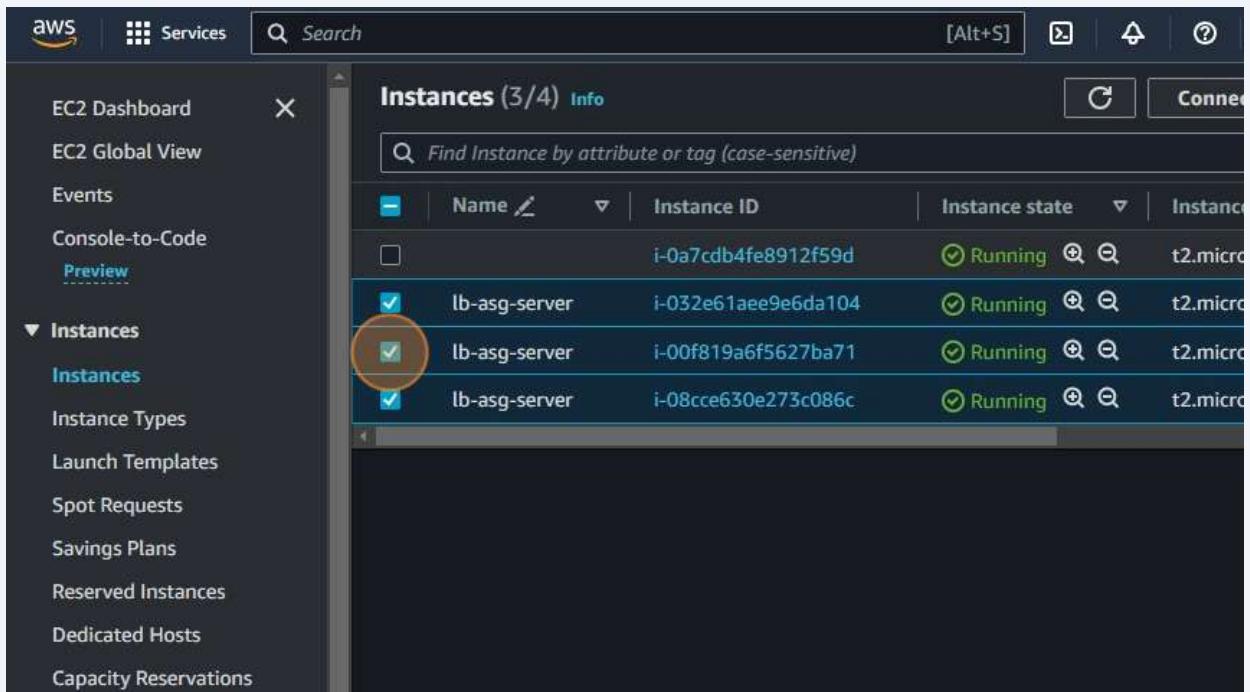
150 Click here.



151 Click here.



152 Click this checkbox.



153 Click this checkbox.

The screenshot shows the AWS EC2 Instances page. On the left sidebar, under the 'Instances' section, the 'Instances' link is selected. The main area displays four instances in a table:

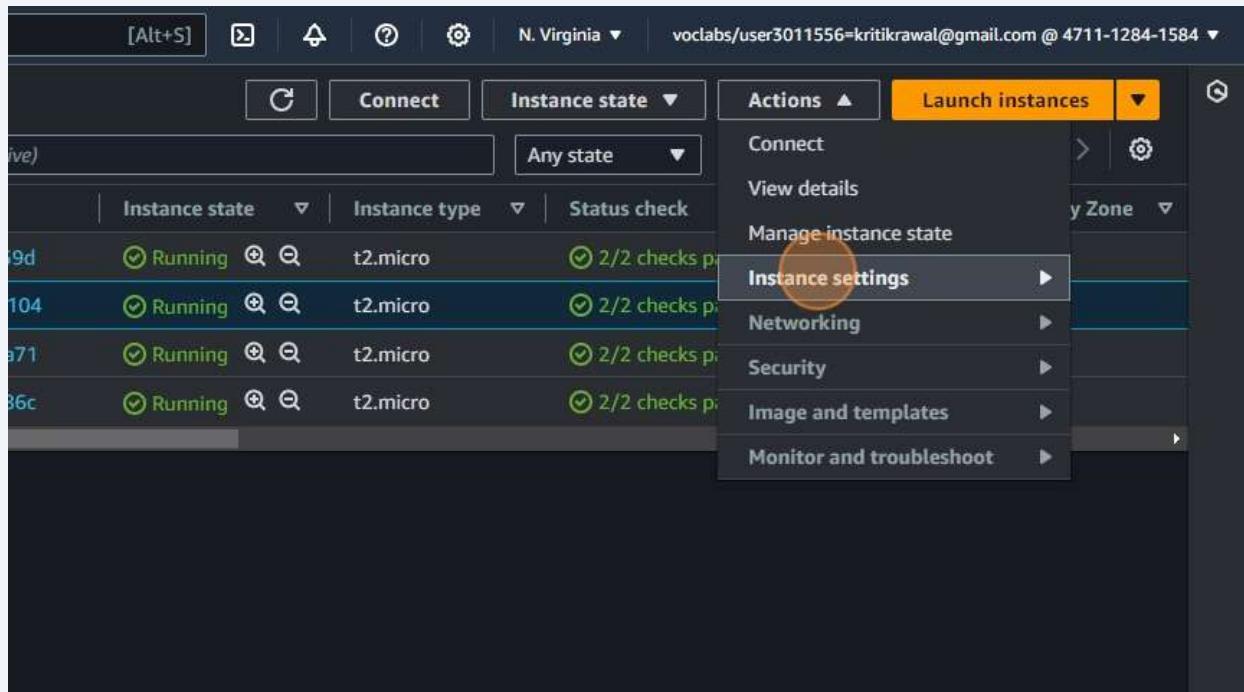
	Name	Instance ID	Instance state	Instance type
<input type="checkbox"/>	i-0a7cdb4fe8912f59d	Running	t2.micro	
<input checked="" type="checkbox"/>	lb-asg-server	i-032e61aee9e6da104	Running	t2.micro
<input type="checkbox"/>	lb-asg-server	i-00f819a6f5627ba71	Running	t2.micro
<input checked="" type="checkbox"/>	lb-asg-server	i-08cce630e273c086c	Running	t2.micro

154 Click "Actions"

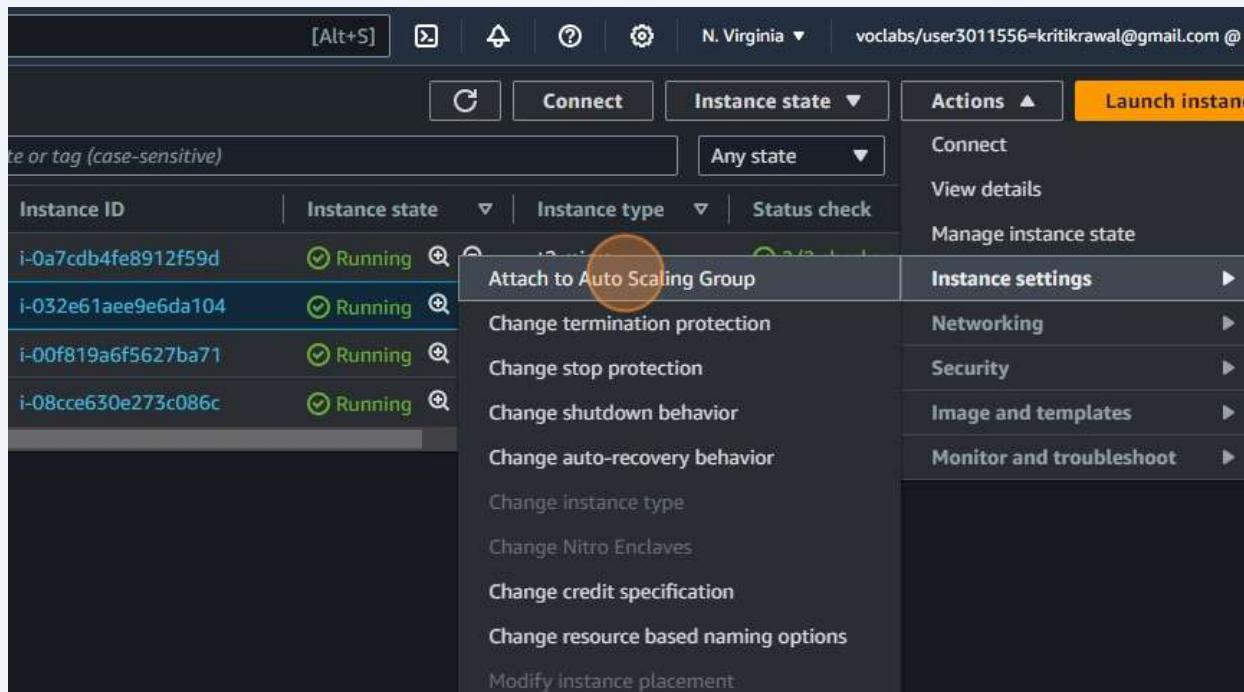
The screenshot shows the AWS EC2 Instances page. The top navigation bar includes buttons for 'C' (Copy), 'Connect', 'Actions' (which is highlighted with a red circle), and 'Launch instances'. The main area displays four instances in a table:

	Instance state	Instance type	Status check	Alarm status	Availability Zone
Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	
Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b	
Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b	
Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b	

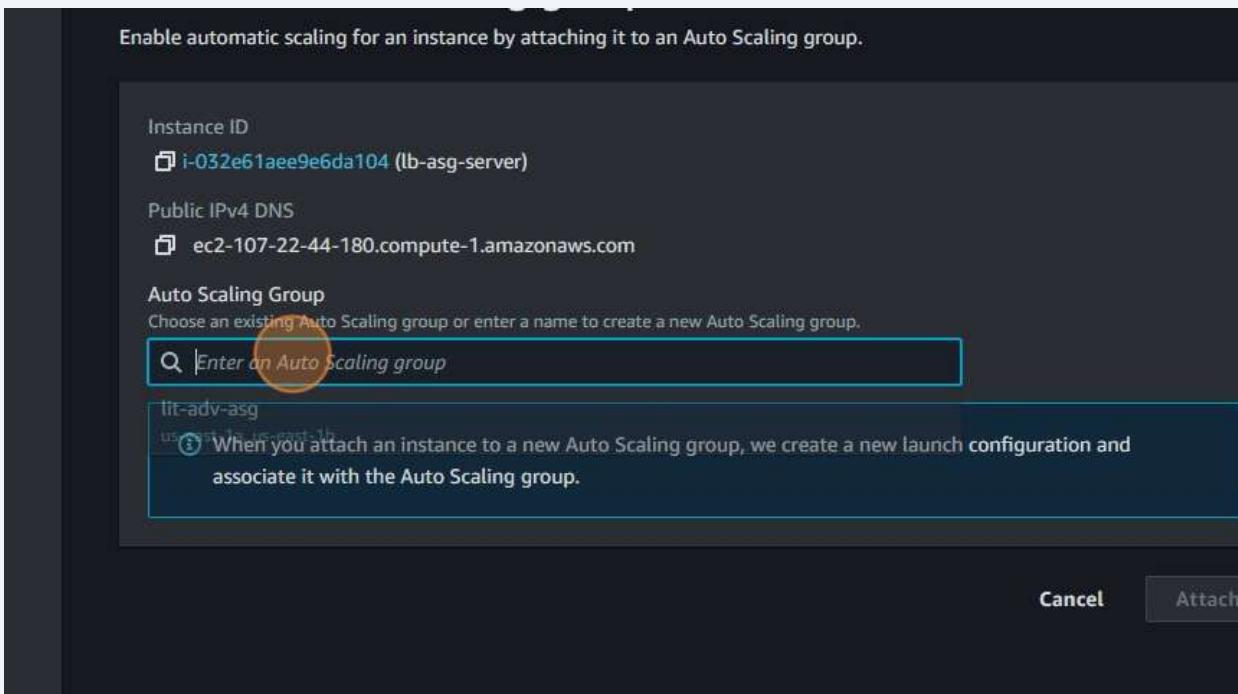
155 Click "Instance settings"



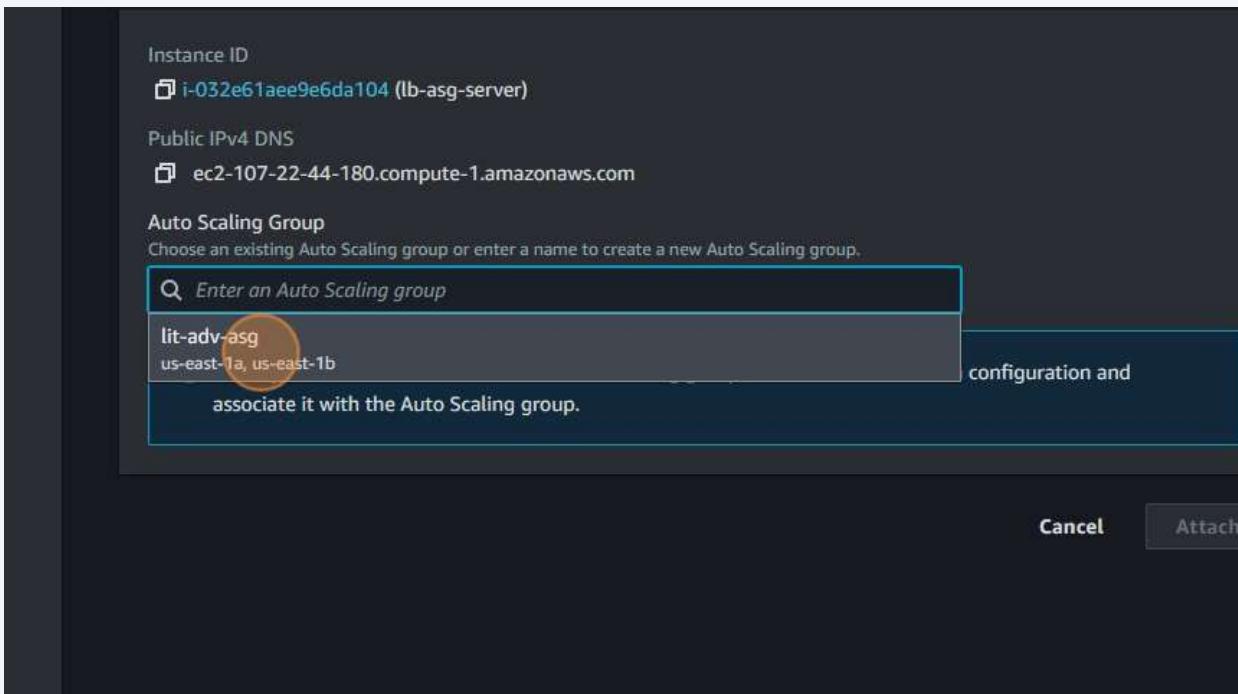
156 Click "Attach to Auto Scaling Group"



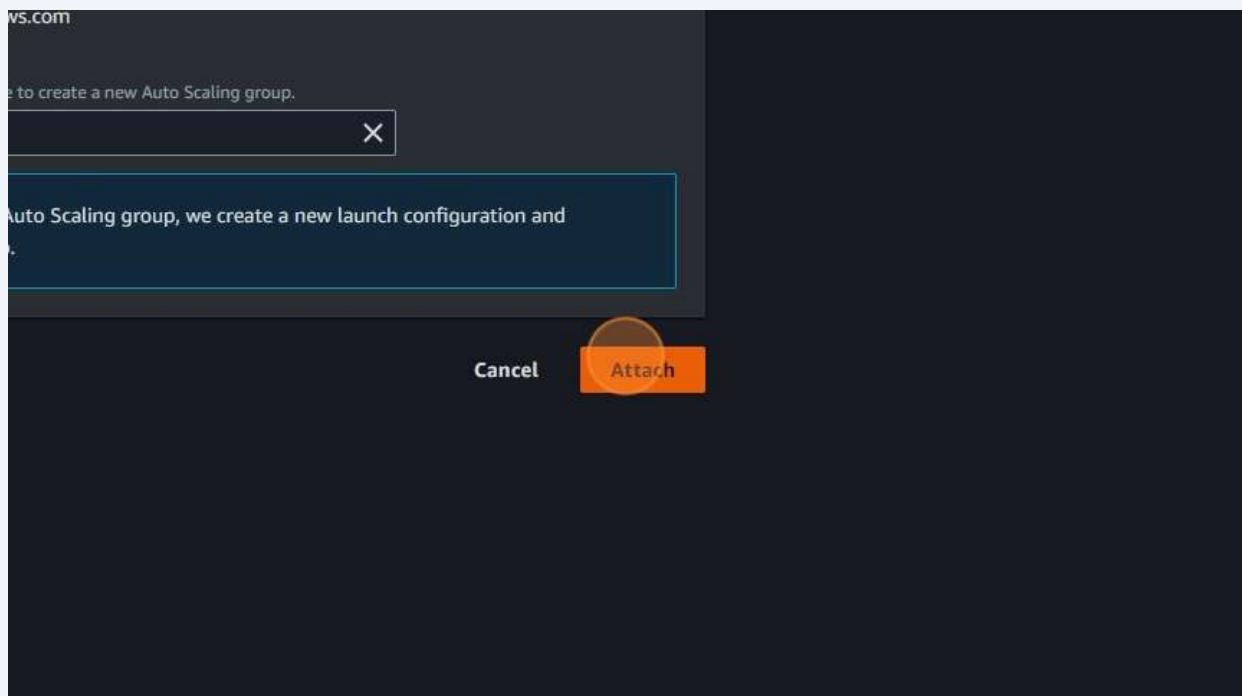
- 157 Click the "Auto Scaling Group" field.



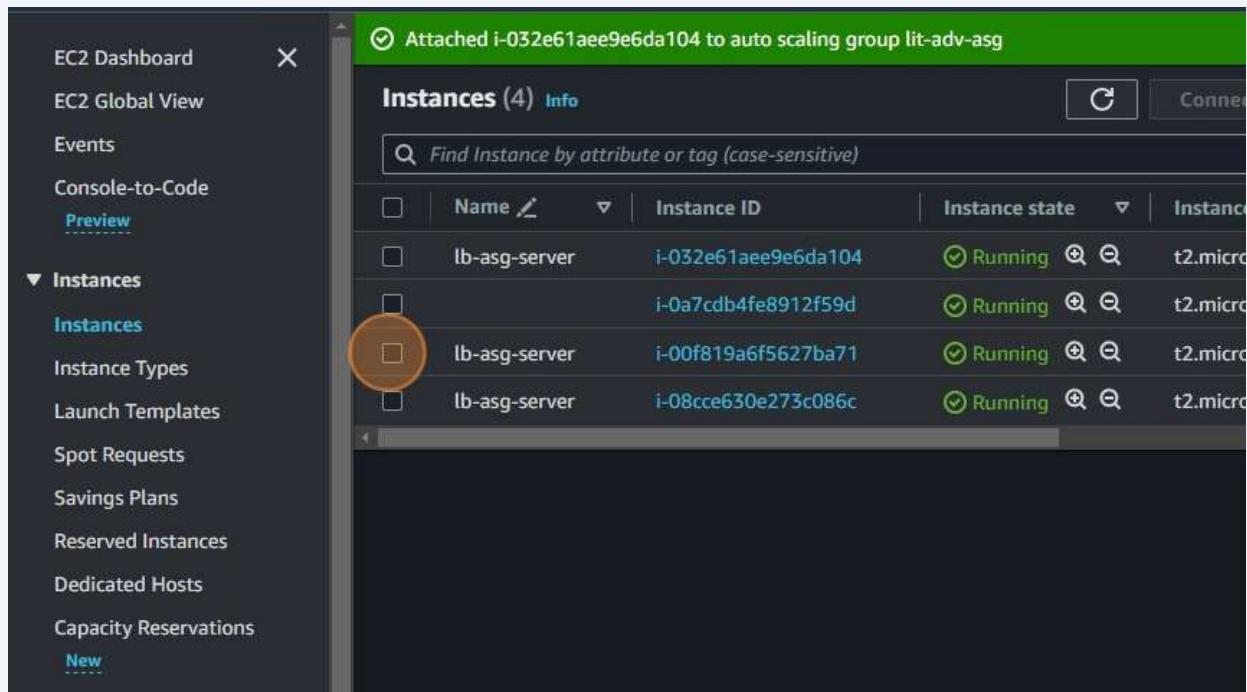
- 158 Click "us-east-1a, us-east-1b"



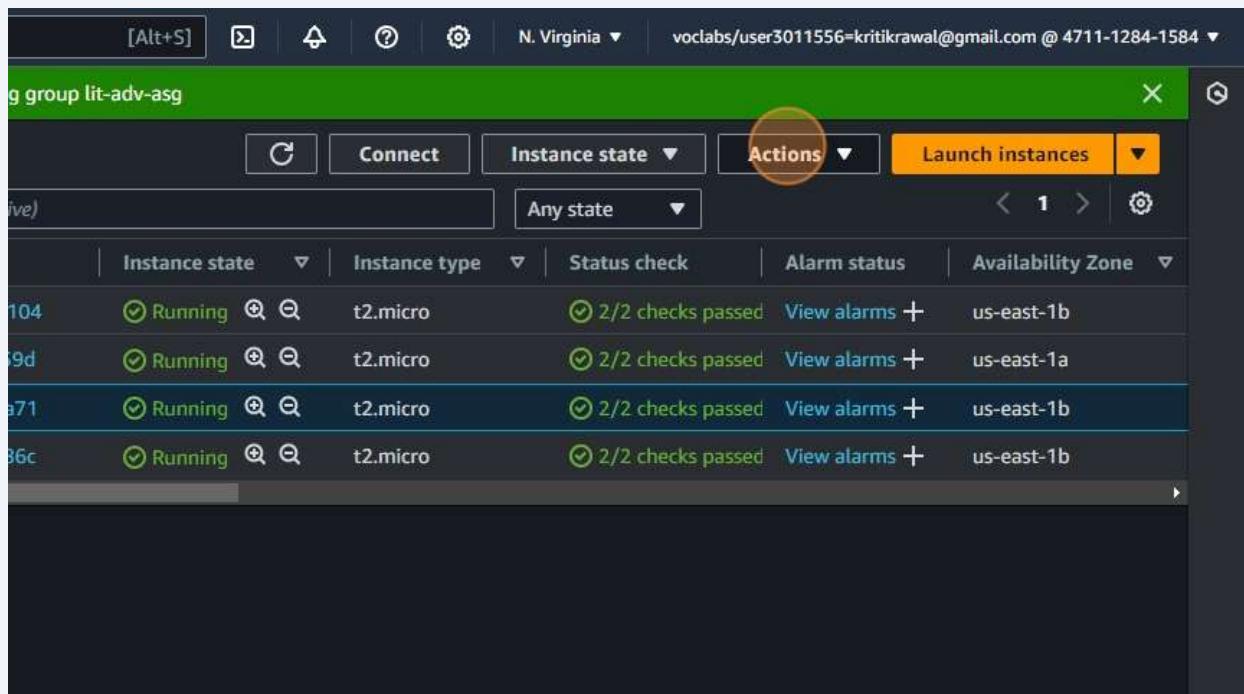
159 Click "Attach"



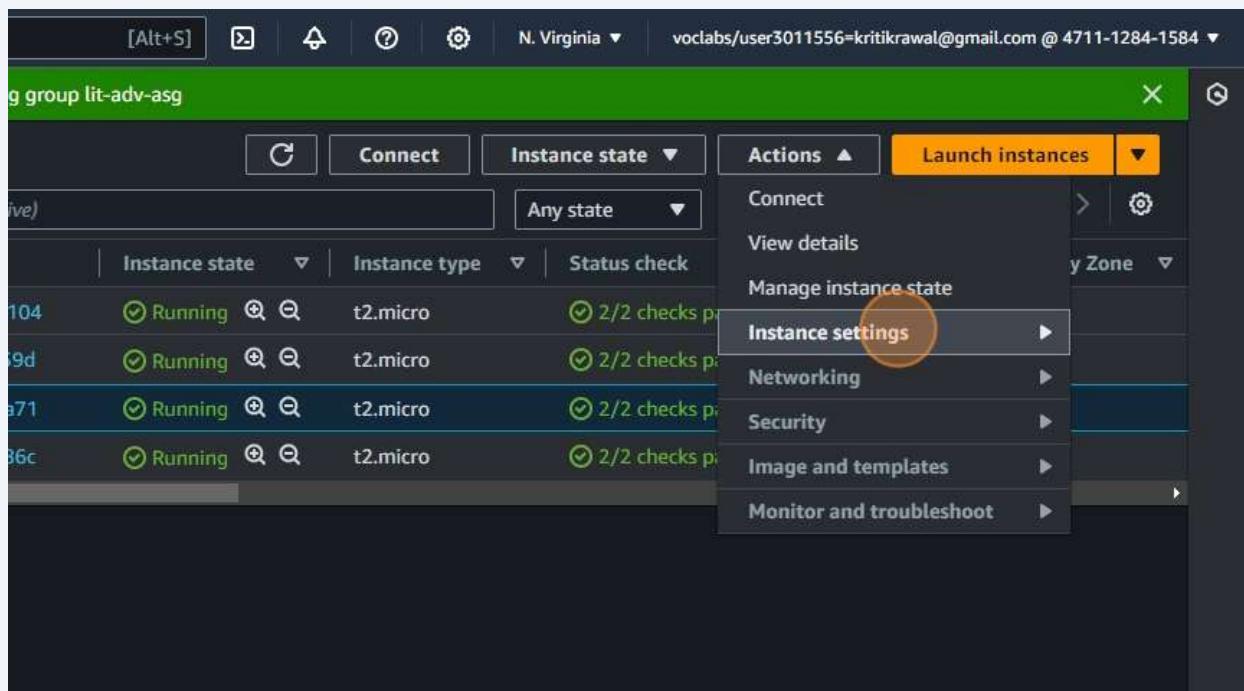
160 Click this checkbox.



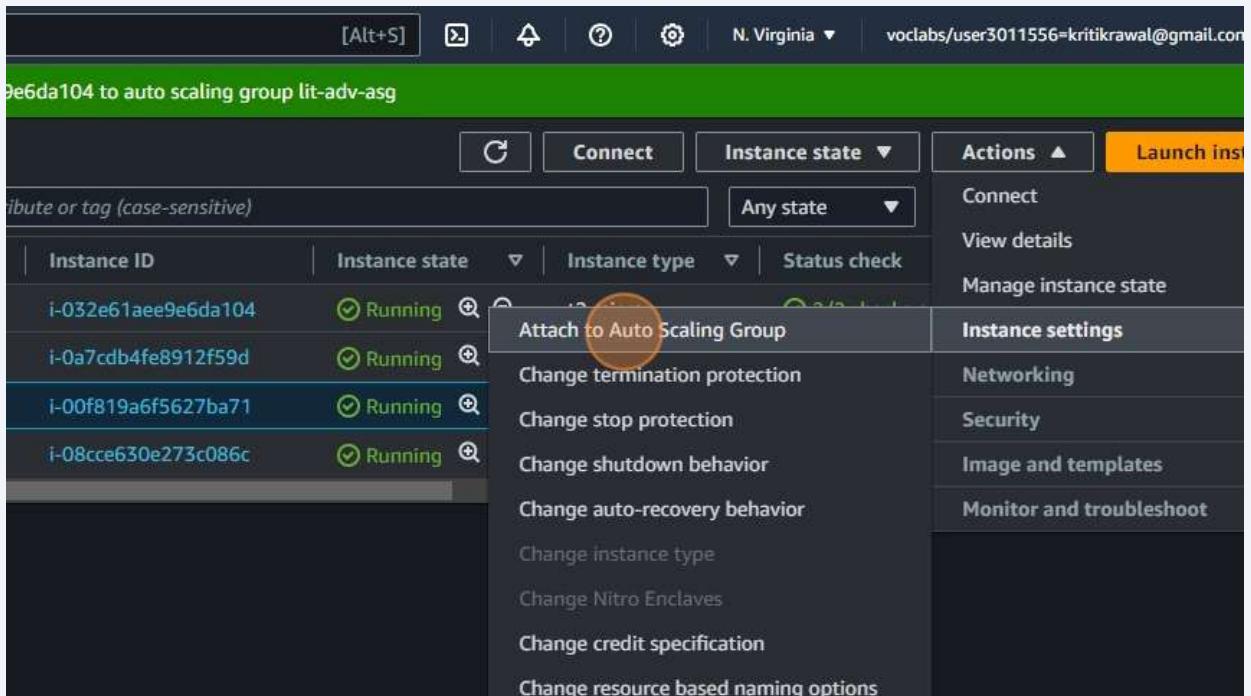
161 Click "Actions"



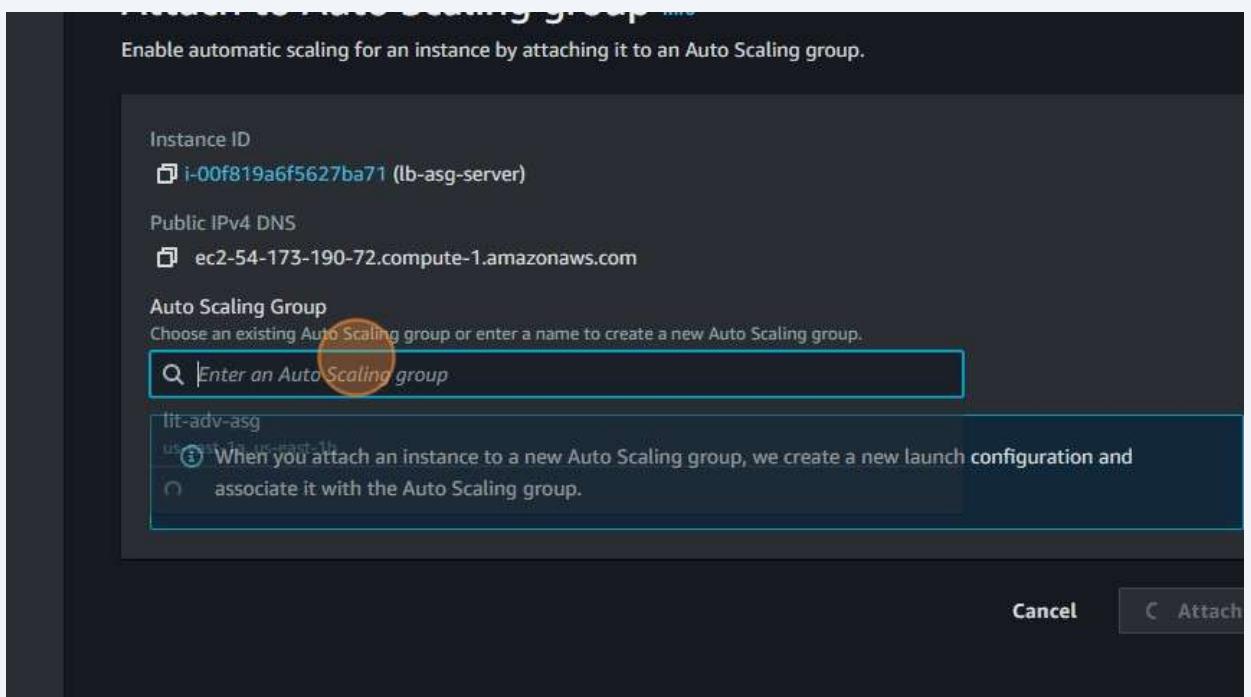
162 Click "Instance settings"



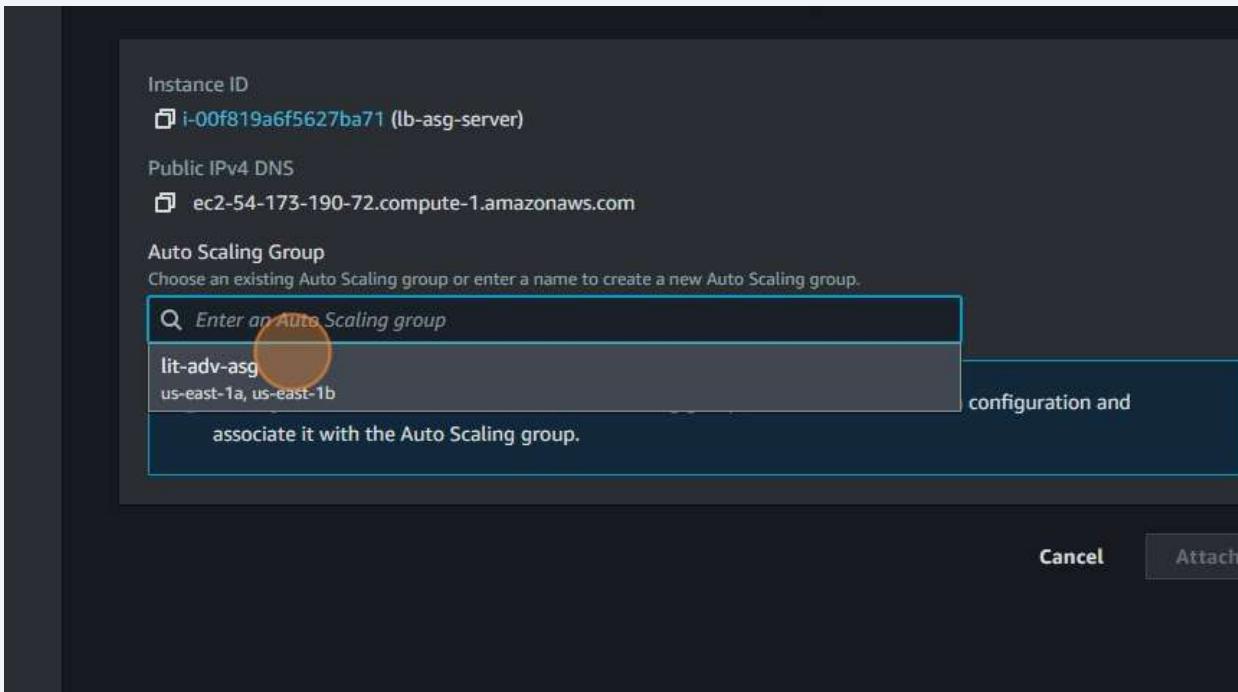
163 Click "Attach to Auto Scaling Group"



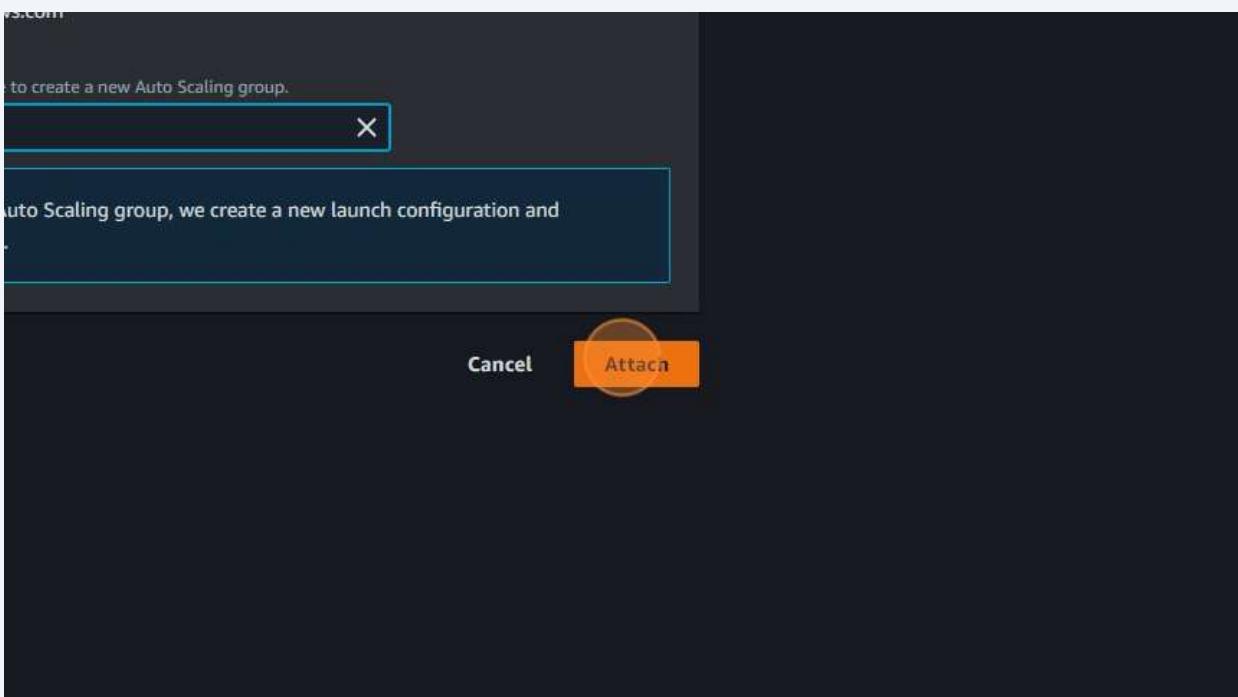
164 Click the "Auto Scaling Group" field.



165 Click "lit-adv-asg"



166 Click "Attach"



167 Click this checkbox.

The screenshot shows the AWS EC2 Dashboard with the 'Instances' section selected. On the right, the 'Instances (4)' page is displayed. A search bar at the top says 'Find Instance by attribute or tag (case-sensitive)'. Below it is a table with columns: Name, Instance ID, Instance state, and Instance type. The first row, which has a checkbox checked, is highlighted with a red circle. The other three rows have their checkboxes unchecked. The table shows four instances, all of which are 'Running' and of type 't2.micro'.

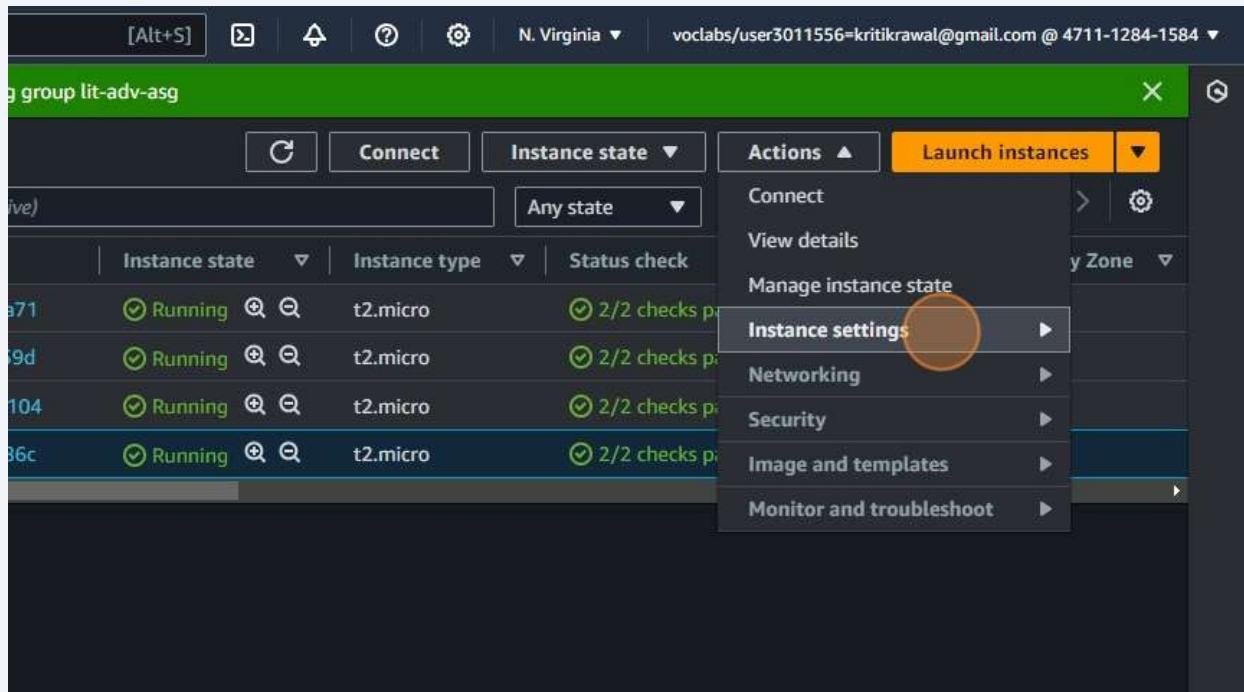
Name	Instance ID	Instance state	Instance type
lb-asg-server	i-00f819a6f5627ba71	Running	t2.micro
	i-0a7cdb4fe8912f59d	Running	t2.micro
lb-asg-server	i-032e61aee9e6da104	Running	t2.micro
lb-asg-server	i-08cce630e273c086c	Running	t2.micro

168 Click "Actions"

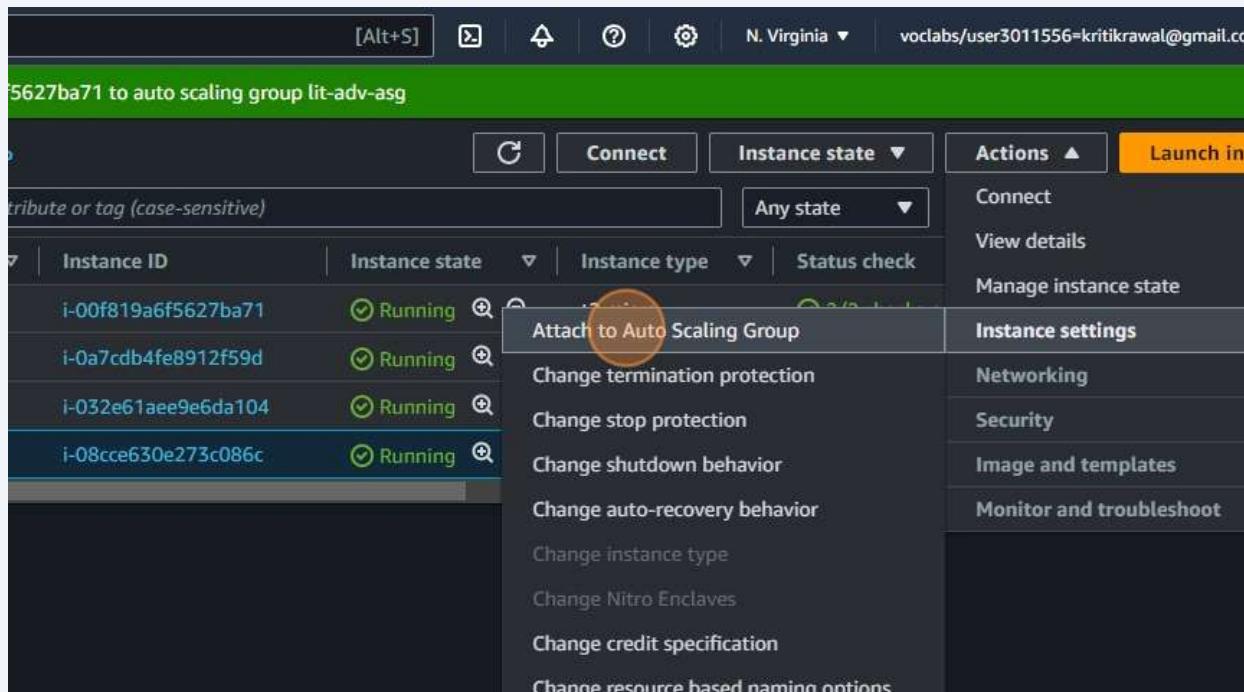
The screenshot shows the AWS Auto Scaling Groups page for the group 'group lit-adv-asg'. The top navigation bar includes buttons for 'Connect', 'Instance state', 'Actions' (which is highlighted with a red circle), and 'Launch instances'. The main area displays a table of four instances, each in a 'Running' state. The columns include Instance state, Instance type, Status check, Alarm status, and Availability Zone.

	Instance state	Instance type	Status check	Alarm status	Availability Zone
a71	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b
9d	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a
104	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b
36c	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b

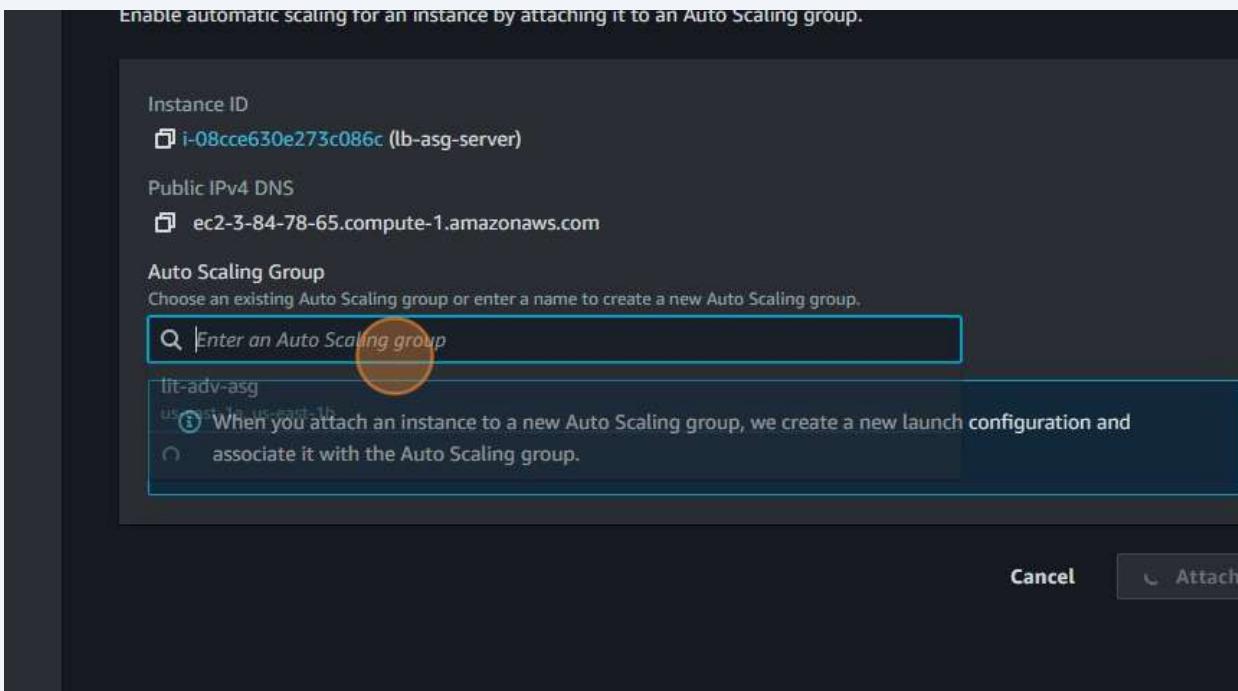
169 Click "Instance settings"



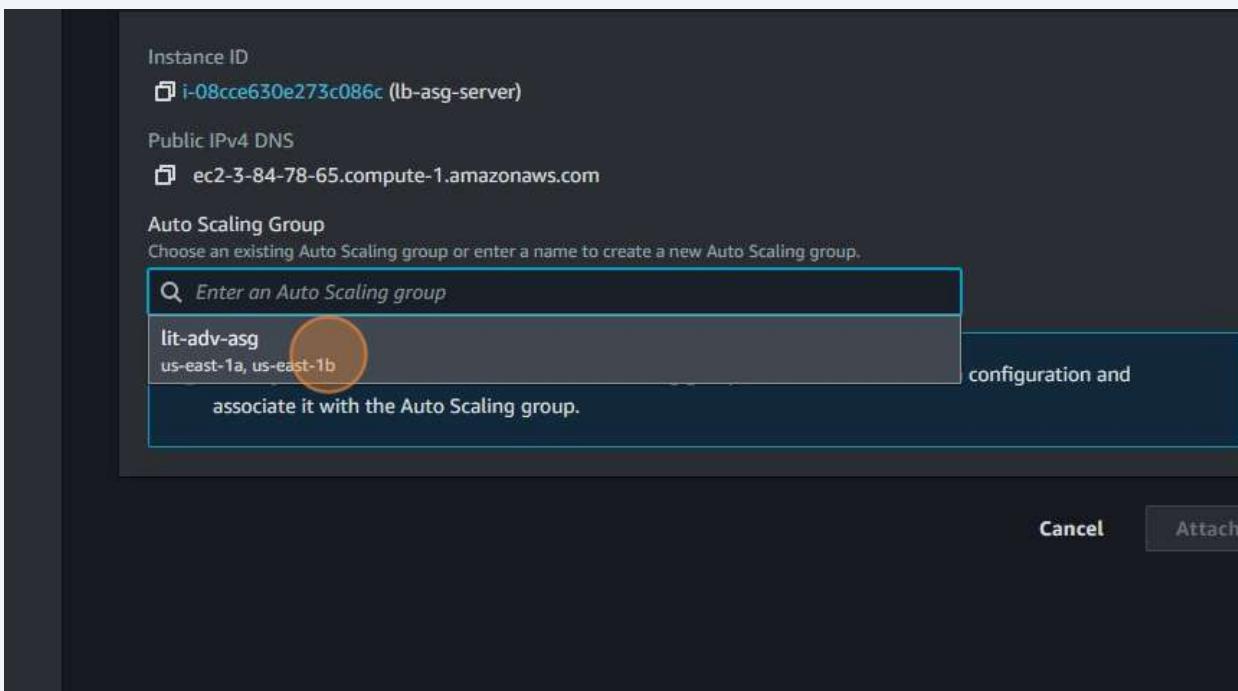
170 Click "Attach to Auto Scaling Group"



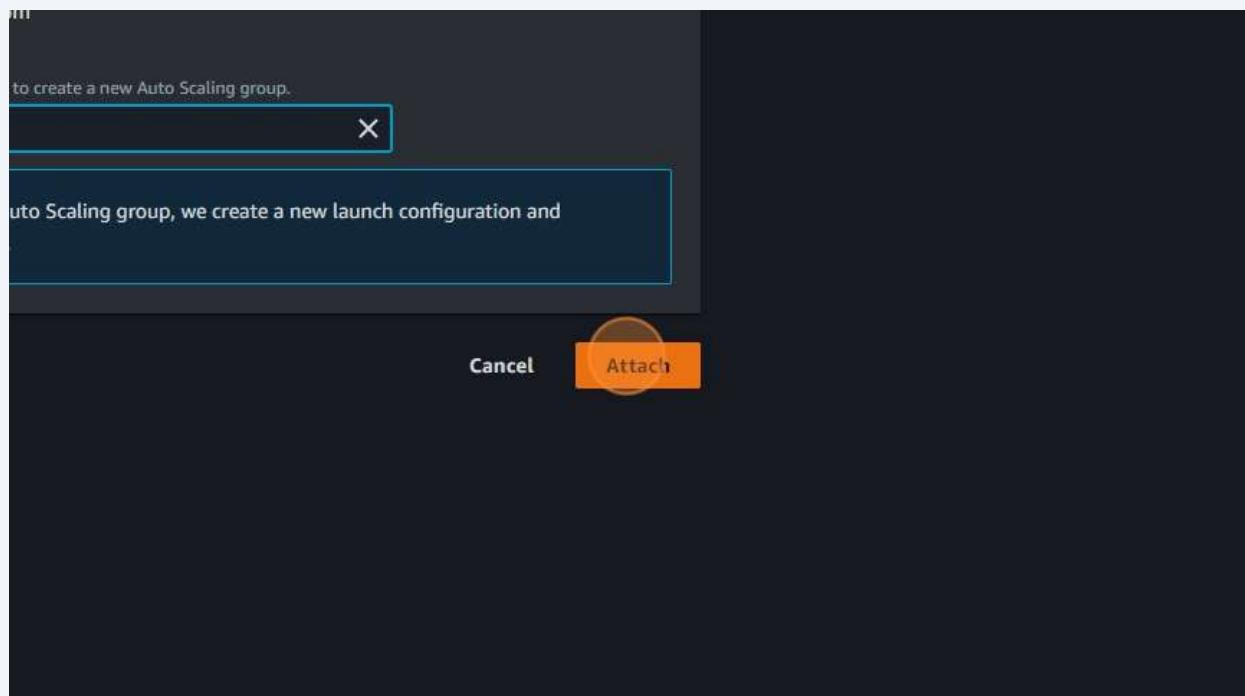
- 171 Click the "Auto Scaling Group" field.



- 172 Click "us-east-1a, us-east-1b"



173 Click "Attach"



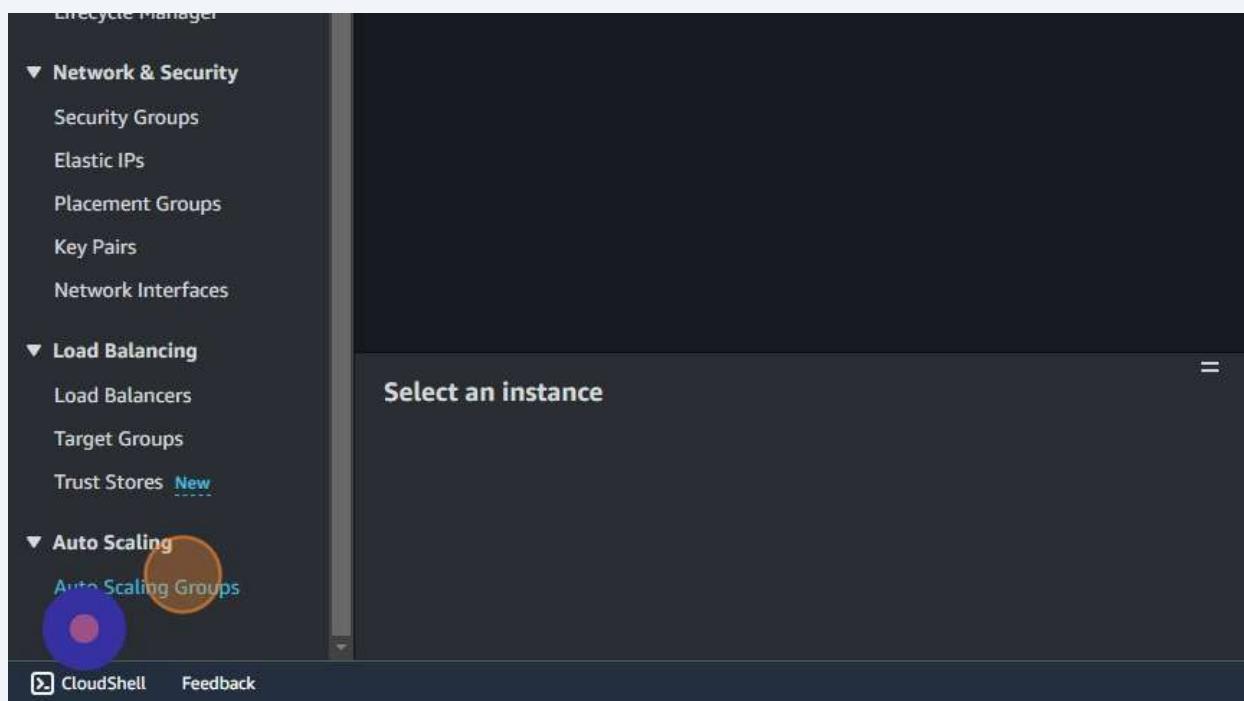
174 Click this button.

A screenshot of the AWS Lambda console. The top navigation bar includes "[Alt+S]", a search icon, a filter icon, a help icon, and a region dropdown set to "N. Virginia". The main title is "e273c086c to auto scaling group lit-adv-asg". Below the title, there is a search bar with placeholder text "Attribute or tag (case-sensitive)" and a dropdown menu set to "Any state". A large orange circle highlights the "Edit" button, which is located in the top right corner of the main content area. The main content area displays a table of Lambda functions:

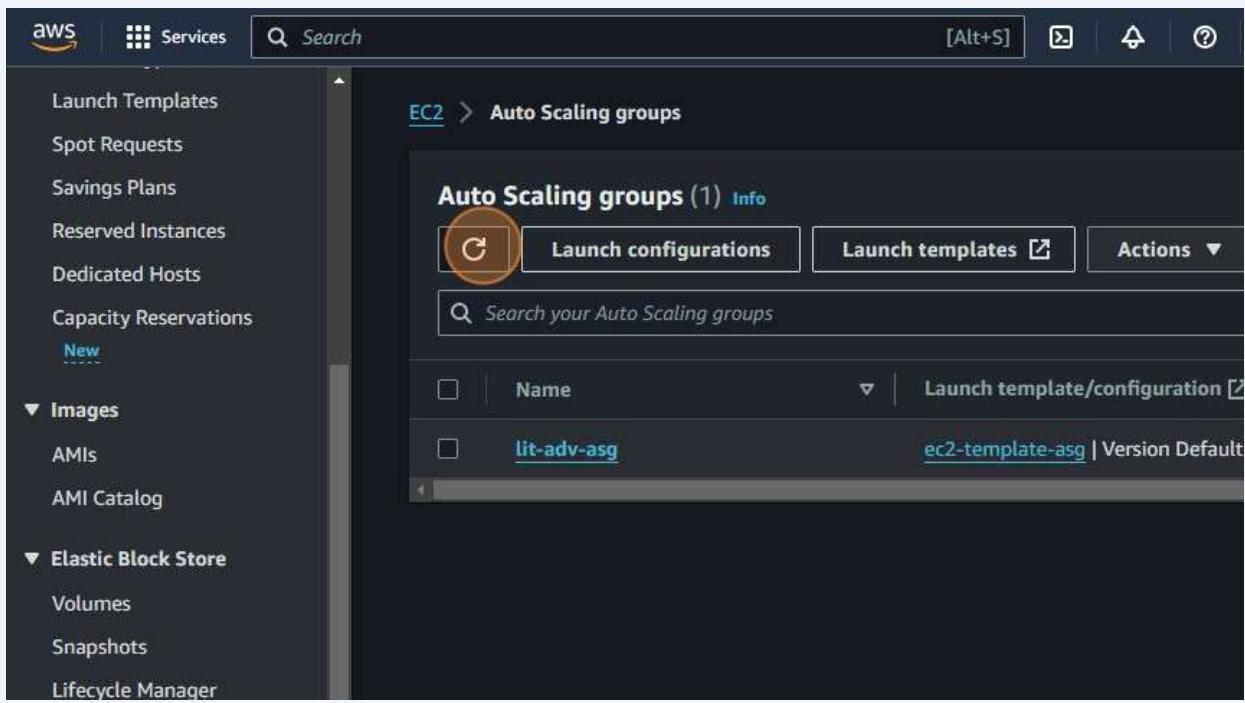
Instance ID	Instance state	Instance type	Status check
i-08cce630e273c086c	Running	t2.micro	2/2 checks passed
i-0a7cdb4fe8912f59d	Running	t2.micro	2/2 checks passed
i-032e61aee9e6da104	Running	t2.micro	2/2 checks passed
i-00f819a6f5627ba71	Running	t2.micro	2/2 checks passed

175 Switch to tab "lit-adv-lb-403394019.us-east-1.elb.amazonaws.com"

176 Click "Auto Scaling Groups"

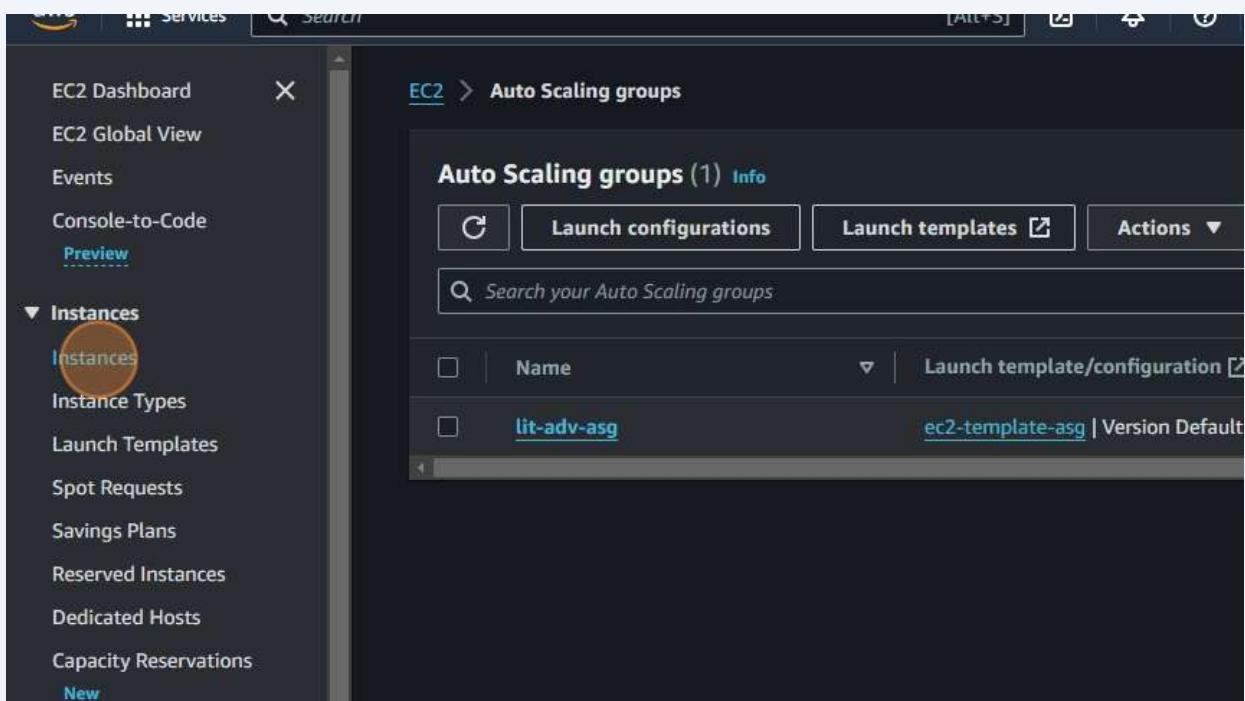


177 Click here.



The screenshot shows the AWS Management Console with the EC2 service selected. In the left navigation pane, under the 'Instances' section, the 'Launch configurations' tab is highlighted with a red circle. The main content area displays the 'Auto Scaling groups (1)' page, showing one group named 'lit-adv-asg' associated with the launch template 'ec2-template-asg | Version Default'.

178 Click "Instances"



The screenshot shows the AWS Management Console with the EC2 service selected. In the left navigation pane, the 'Instances' tab is highlighted with a red circle. The main content area displays the 'Auto Scaling groups (1)' page, showing one group named 'lit-adv-asg' associated with the launch template 'ec2-template-asg | Version Default'.

179 Click this checkbox.

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with various EC2-related options like Dashboard, Global View, Events, and Instances. Under Instances, 'Instances' is selected. The main area displays a table of four instances, all of which are currently running. The first instance, 'lb-asg-server' with Instance ID 'i-0a7cdb4fe8912f59d', has its checkbox highlighted with a red circle. The table columns include Name, Instance ID, Instance state, and Instance type.

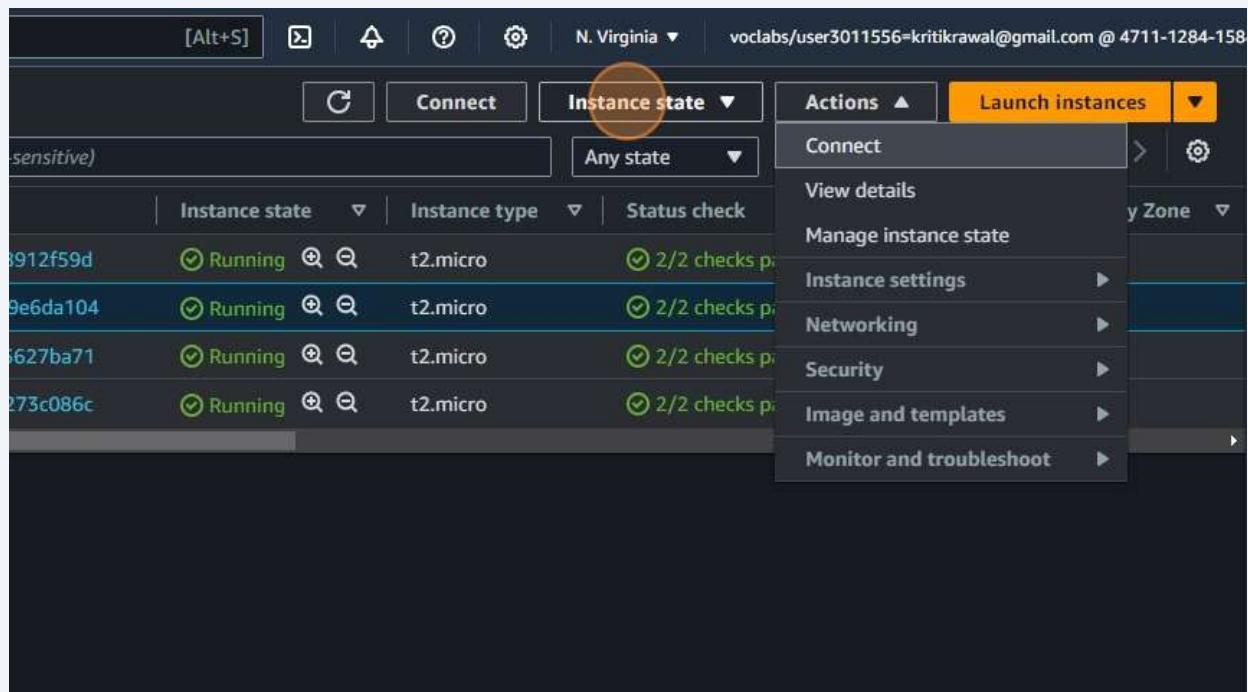
Name	Instance ID	Instance state	Instance type
lb-asg-server	i-0a7cdb4fe8912f59d	Running	t2.micro
lb-asg-server	i-032e61aee9e6da104	Running	t2.micro
lb-asg-server	i-00f819a6f5627ba71	Running	t2.micro
lb-asg-server	i-08cce630e273c086c	Running	t2.micro

180 Click "Actions"

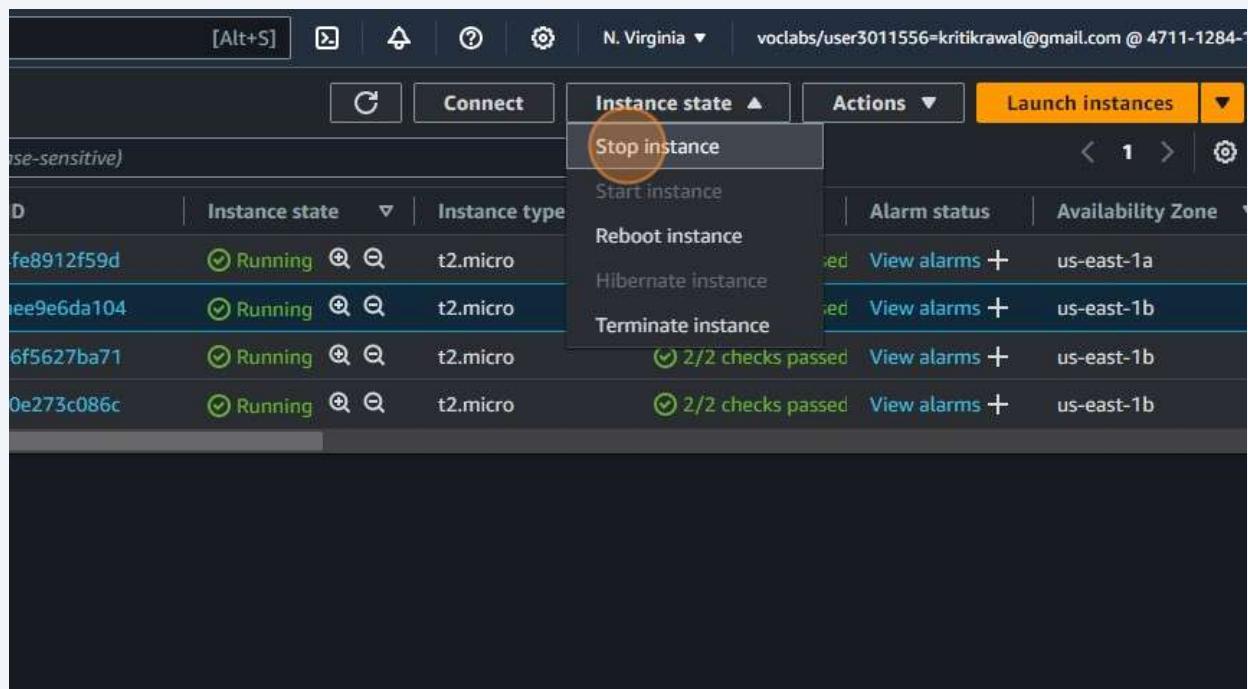
The screenshot shows the AWS EC2 Instances page. The top navigation bar includes buttons for 'C' (Create), 'Connect', 'Instance state' (set to 'Any state'), 'Actions' (which is highlighted with a red circle), and 'Launch instances'. Below the navigation bar is a search bar and a filter section. The main content area displays a table of four instances, all running. The table columns are Instance state, Instance type, Status check, Alarm status, and Availability Zone.

Instance state	Instance type	Status check	Alarm status	Availability Zone
Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a
Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b
Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b
Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b

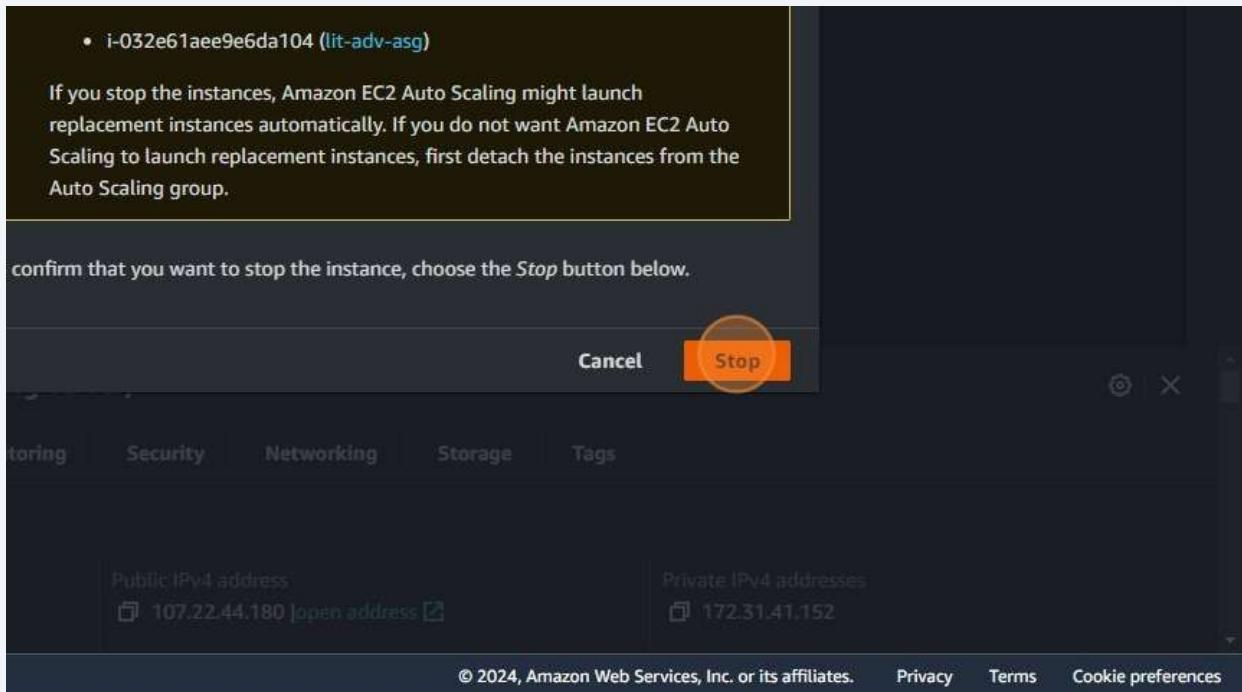
181 Click "Instance state"



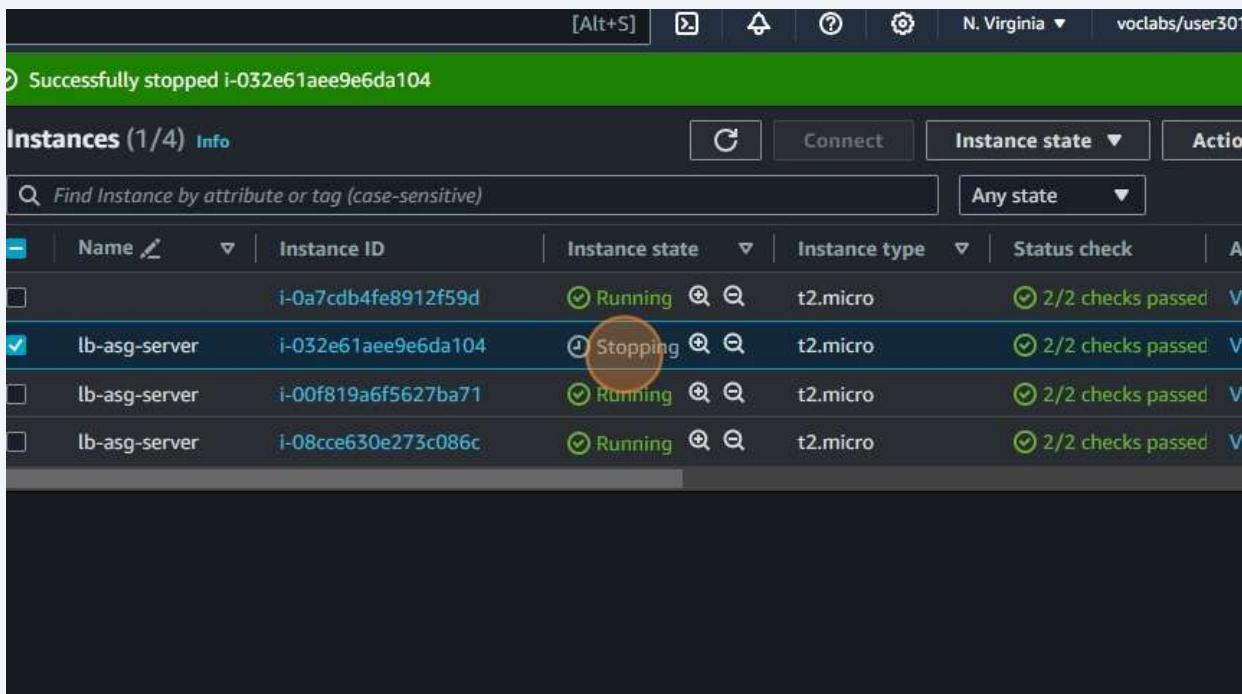
182 Click "Stop instance"



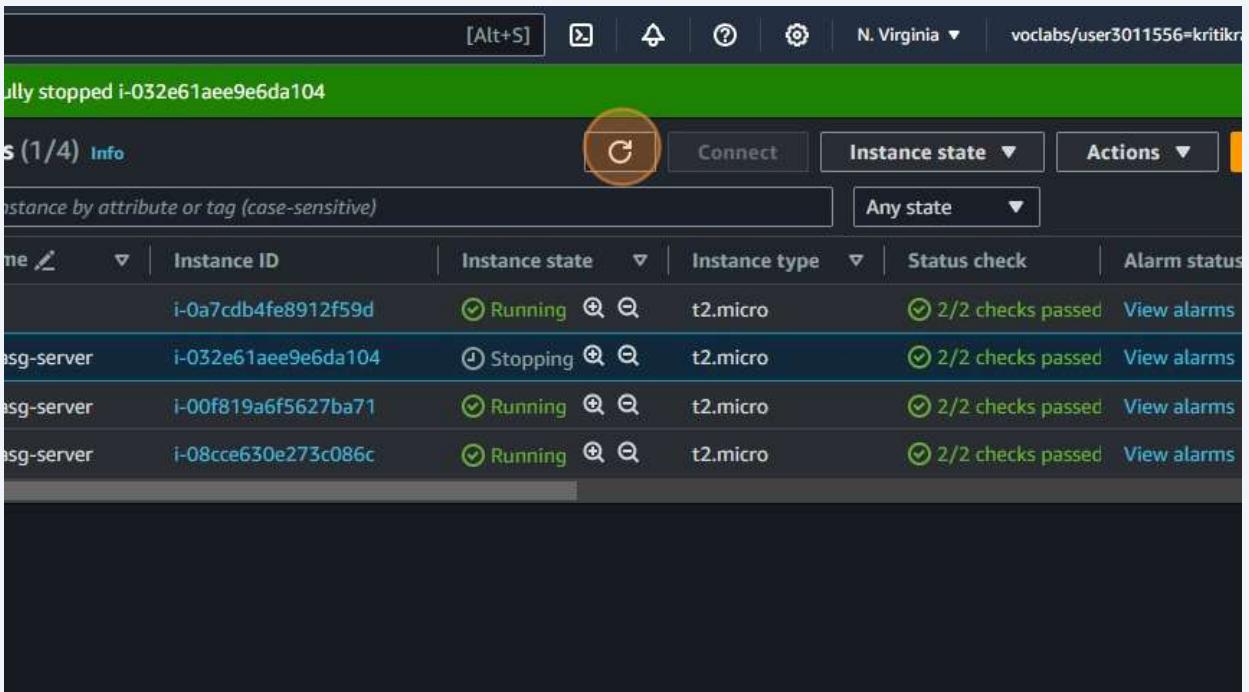
183 Click "Stop"



184 Click "Stopping"



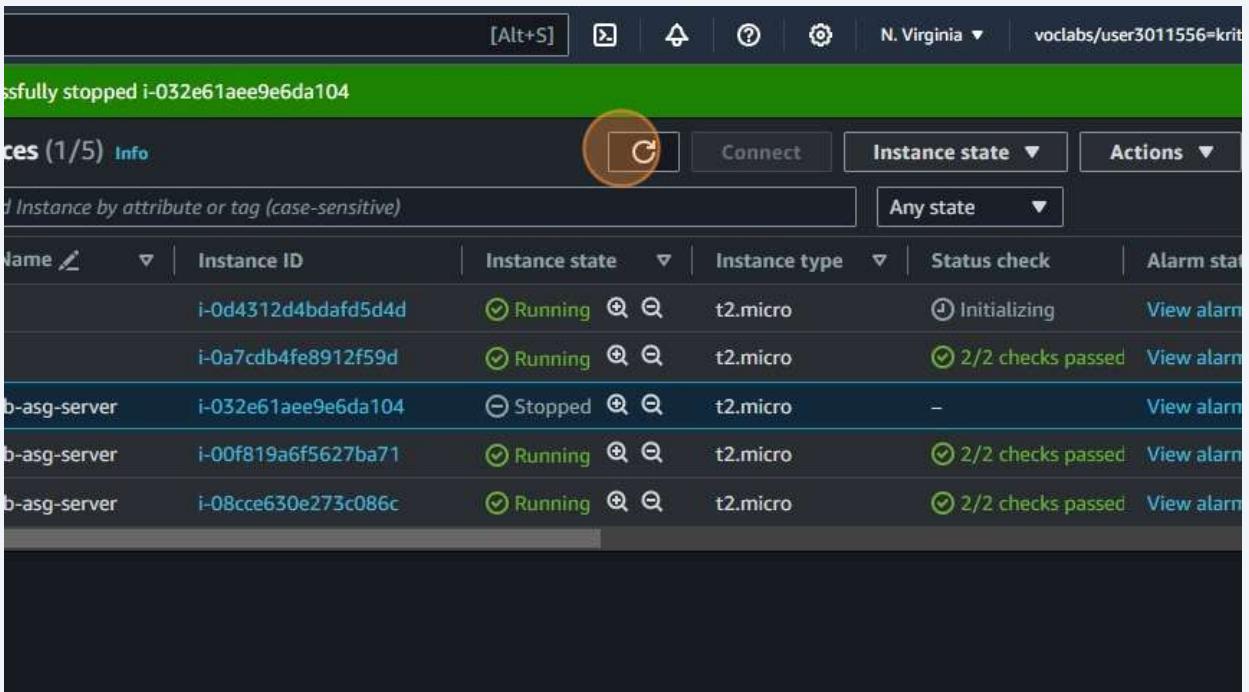
185 Click here.



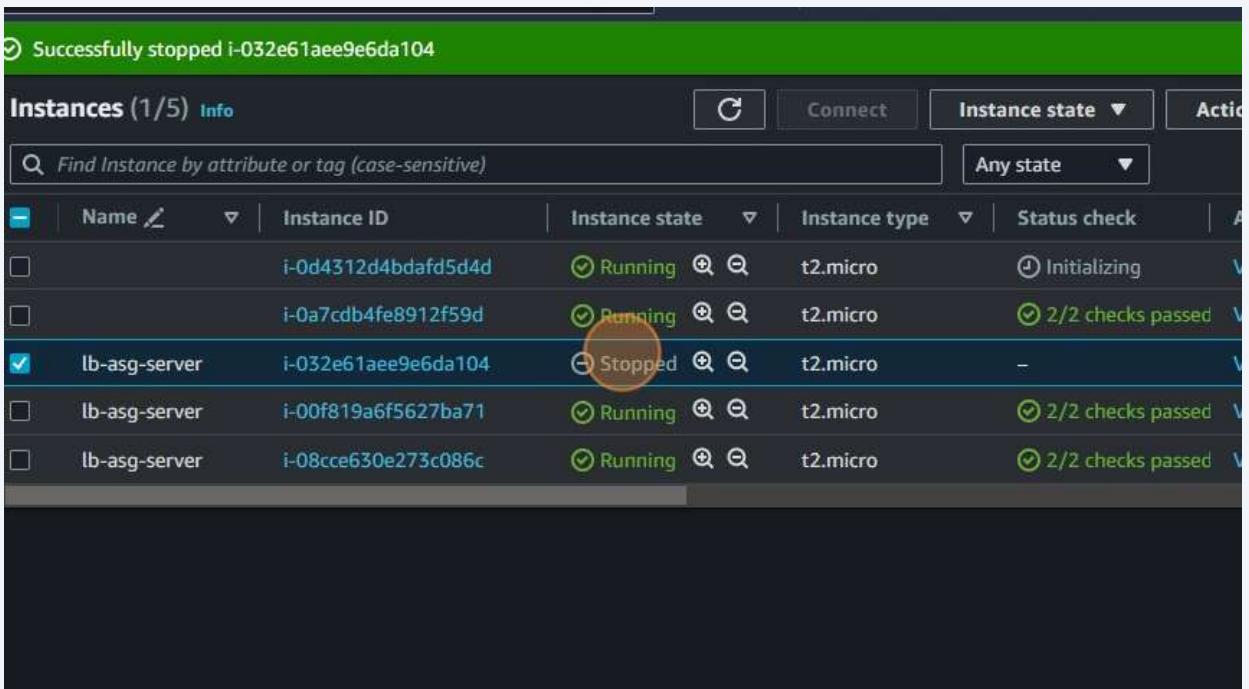
186 Click "Hello World from ip-172-31-34-163.ec2.internal"

ld from ip-172-31-34-163.ec2.internal

187 Click this button.



188 Click "Stopped"



189 Switch to tab "lit-adv-lb-403394019.us-east-1.elb.amazonaws.com"

190 Switch to tab "Launch templates | EC2 | us-east-1"

191 Switch to tab "Target group details | EC2 | us-east-1"

192 Click here.

Time	Instance ID	Instance state	Instance type	Status check	Alarm status
	i-0d4312d4bdaf5d4d	Running	t2.micro	Initializing	View alarms
	i-0a7cdb4fe8912f59d	Running	t2.micro	2/2 checks passed	View alarms
sg-server	i-032e61aee9e6da104	Stopped	t2.micro	-	View alarms
sg-server	i-00f819a6f5627ba71	Running	t2.micro	2/2 checks passed	View alarms
sg-server	i-08cce630e273c086c	Running	t2.micro	2/2 checks passed	View alarms

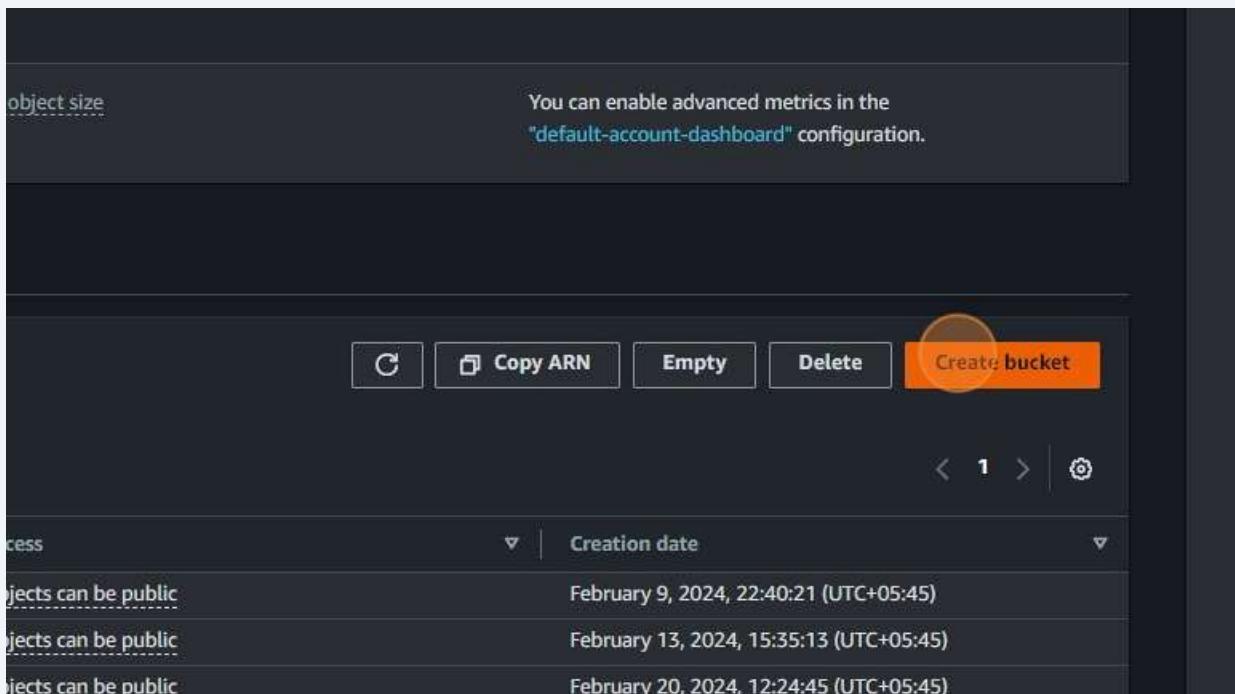
193 Click "t2.micro"

Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
4312d4bdaf5d4d	Running	t2.micro	Initializing	View alarms +	us-east-1a
7cdb4fe8912f59d	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a
2e61aee9e6da104	Stopped	t2.micro	-	View alarms +	us-east-1b
f819a6f5627ba71	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b
cce630e273c086c	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b

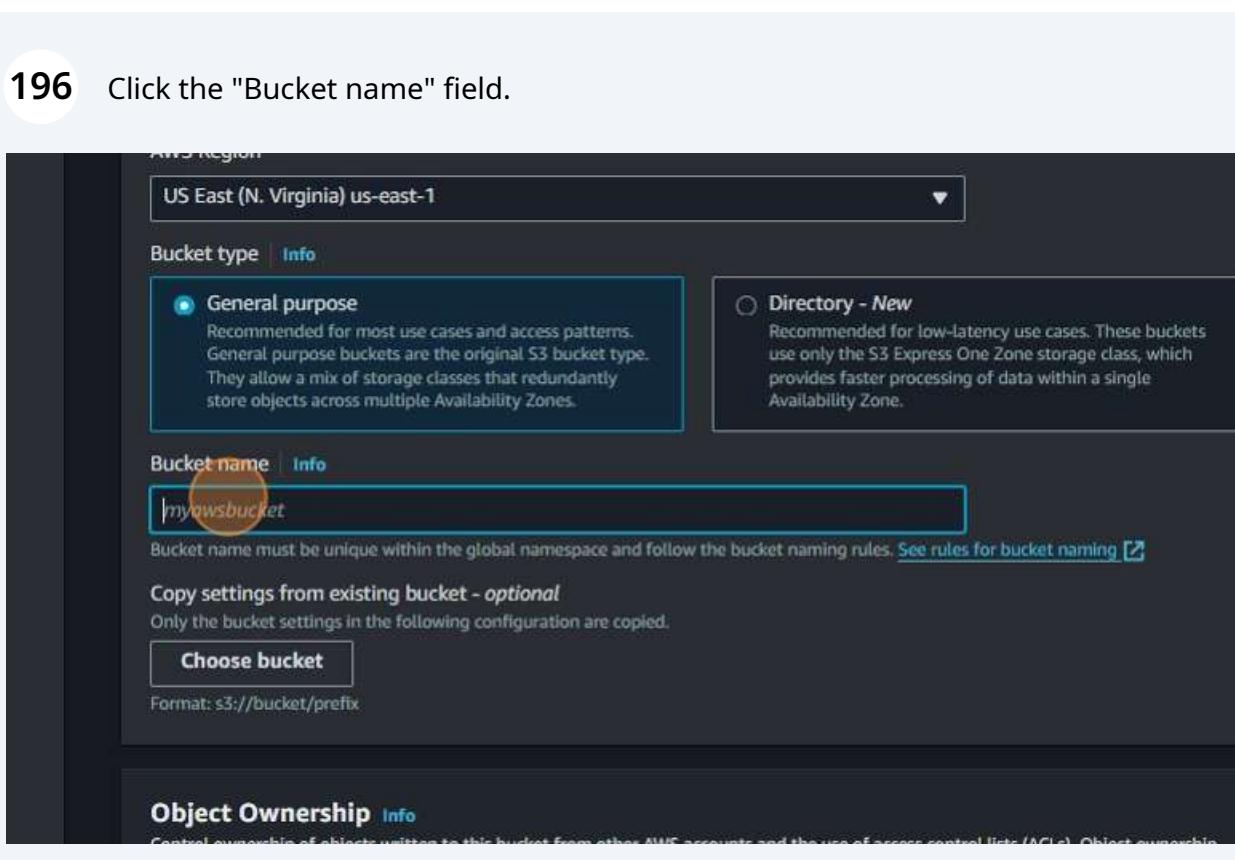
Hosting a Static Portfolio Website on S3

194 Navigate to <https://s3.console.aws.amazon.com/s3/buckets?region=us-east-1&bucketType=general®ion=us-east-1>

195 Click "Create bucket"



196 Click the "Bucket name" field.



197 Type "static-website-s3-bucket-global"

198 Click this radio button.

Only the bucket settings in the following configuration are copied.

Choose bucket

Format: s3://bucket/prefix

Object Ownership Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

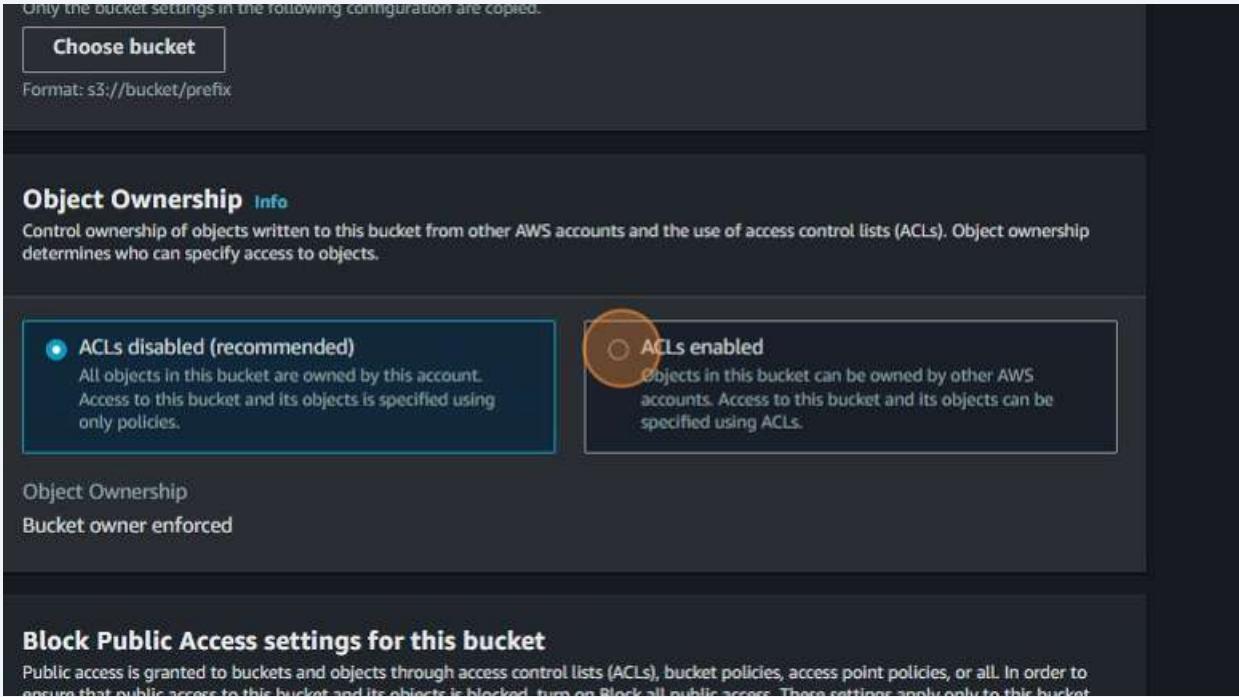
ACLs disabled (recommended)
All objects in this bucket are owned by this account.
Access to this bucket and its objects is specified using only policies.

ACLs enabled
Objects in this bucket can be owned by other AWS accounts.
Access to this bucket and its objects can be specified using ACLs.

Object Ownership
Bucket owner enforced

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket.



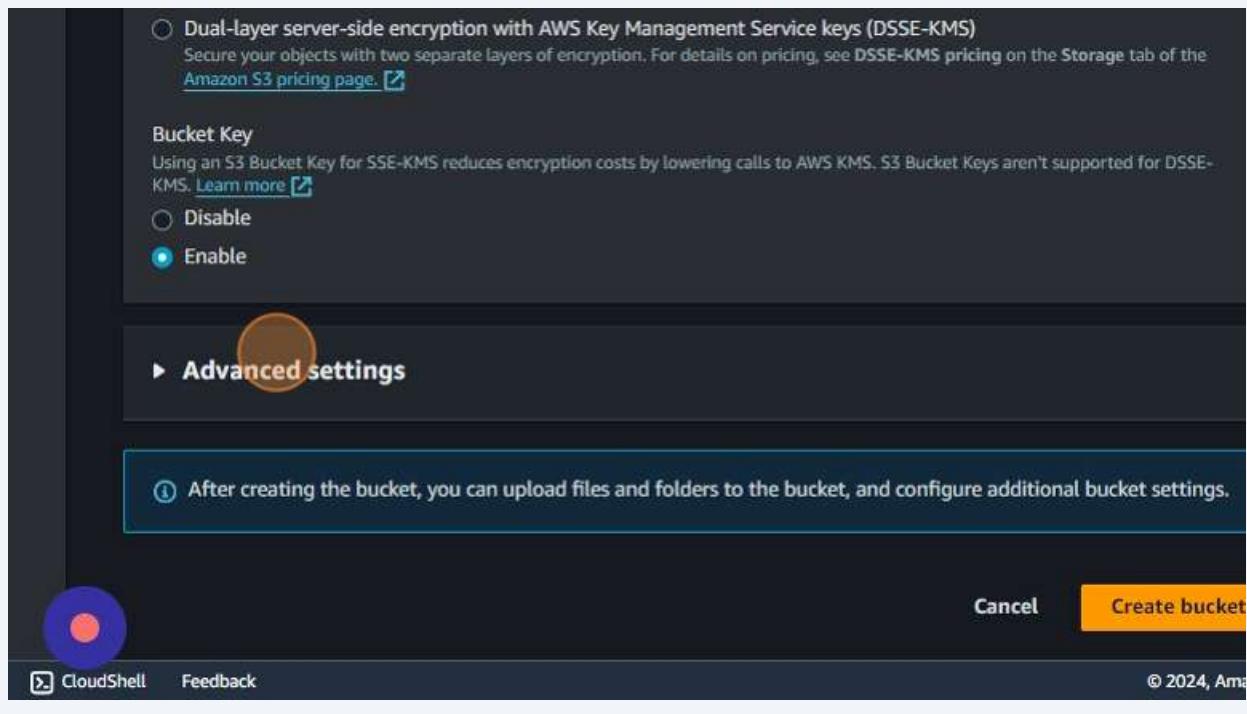
199 Click this checkbox.

The screenshot shows the 'Block Public Access settings for this bucket' section. At the top, there's a note about bucket owner full control and a link to learn more. Below it, a bold heading says 'Block all public access'. A descriptive text follows, stating that turning this setting on is equivalent to enabling four specific sub-settings. The first sub-setting, 'Block public access to buckets and objects granted through new access control lists (ACLs)', is checked and highlighted with a red circle. The other three sub-settings are also checked but not highlighted.

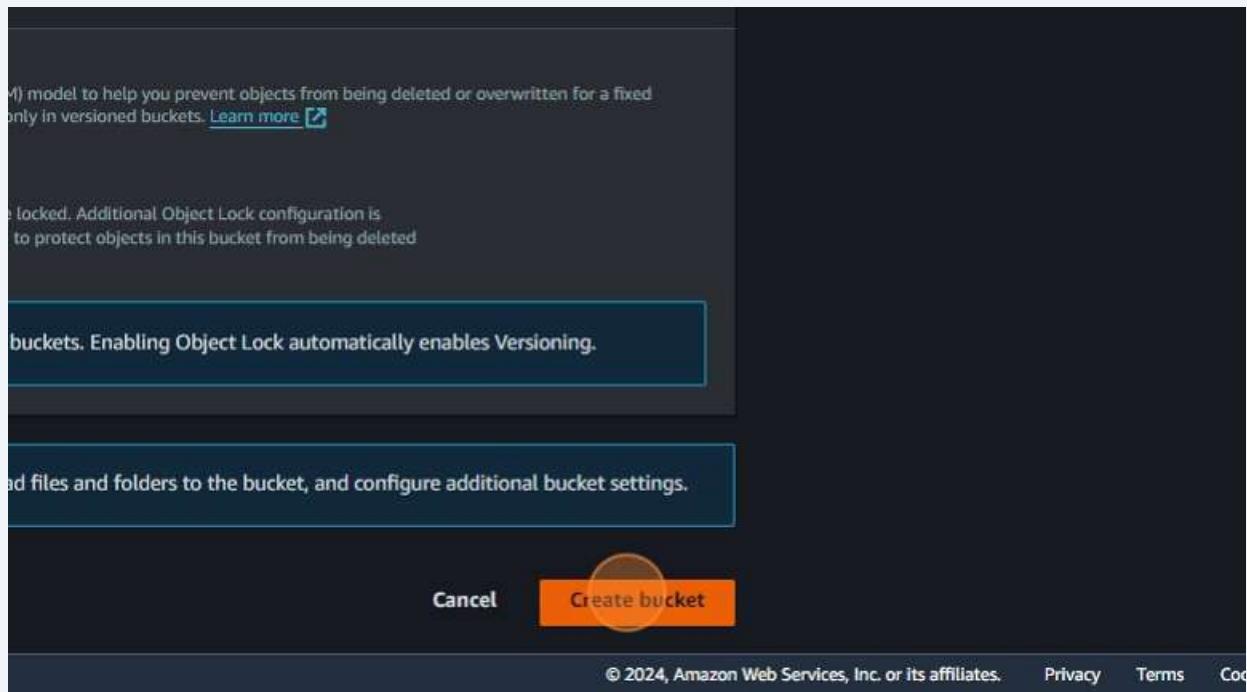
- **Block all public access**
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.
 - **Block public access to buckets and objects granted through *new* access control lists (ACLs)**
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
 - **Block public access to buckets and objects granted through *any* access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.
 - **Block public access to buckets and objects granted through *new* public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

200 Switch to tab "How to host static website on S3 [Step-by-Step] | GoLinuxCloud"

201 Click "Advanced settings"



202 Click "Create bucket"



203 Click this checkbox.

existing policies that allow public access to S3 resources.

Block public and cross-account access to buckets and objects through any public bucket or access point policies

S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

⚠️ Turning off block all public access might result in this bucket and the objects within becoming public
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

I acknowledge that the current settings might result in this bucket and the objects within becoming public.

⚠️ You must select the check box to continue creating the bucket.

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

204 Click "Create bucket"

(WORM) model to help you prevent objects from being deleted or overwritten for a fixed period of time. This feature works only in versioned buckets. [Learn more](#)

to be locked. Additional Object Lock configuration is available to protect objects in this bucket from being deleted.

ned buckets. Enabling Object Lock automatically enables Versioning.

Upload files and folders to the bucket, and configure additional bucket settings.

Create bucket

Cancel

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205 Click this radio button.

The screenshot shows a list of S3 buckets in the AWS console. The buckets listed are:

Bucket Name	Region	Object Access
my-s3-bucket-z-hles	US East (N. Virginia) us-east-1	Objects can be public
my-s3-bucket-files	US East (N. Virginia) us-east-1	Objects can be public
my-s3-bucket-files-3	US East (N. Virginia) us-east-1	Objects can be public
s3-task1-bucket	US East (N. Virginia) us-east-1	Objects can be public
static-website-bucket-storage-test	US East (N. Virginia) us-east-1	⚠️ Public
static-website-s3-bucket-global	US East (N. Virginia) us-east-1	Objects can be public
sttsitic-sitw-34433	US East (N. Virginia) us-east-1	Objects can be public
techkraft-bootcamp-files	US East (N. Virginia) us-east-1	Objects can be public

A blue circle with a red dot is overlaid on the radio button next to the 'static-website-s3-bucket-global' bucket. The bottom navigation bar includes CloudShell, Feedback, and a copyright notice for 2024, Amazon.com, Inc. or its affiliates.

206 Click here.

The screenshot shows a list of S3 buckets in the AWS console. The buckets listed are:

AWS Region	Access	Creation date
US East (N. Virginia) us-east-1	Objects can be public	February 9, 2024, 22:40:21 (UTC+05:45)
US East (N. Virginia) us-east-1	Objects can be public	February 13, 2024, 15:35:13 (UTC+05:45)

A blue circle highlights the 'Copy ARN' button in the top right corner of the table header. The bottom navigation bar includes a back arrow, page number 1, a forward arrow, and a refresh icon.

207 Click "static-website-s3-bucket-global"

The screenshot shows the AWS S3 console interface. On the left, there's a sidebar with a purple circular icon. The main area displays a list of S3 buckets:

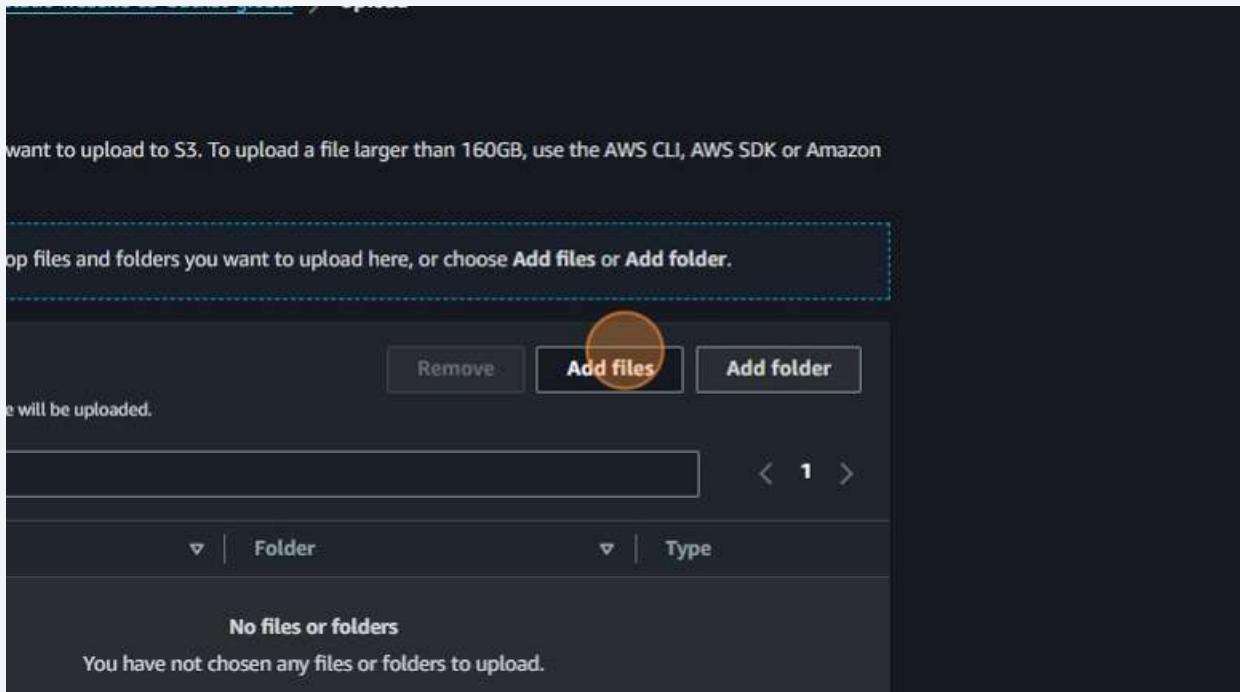
Bucket Name	Region	Status
my-s3-bucket-2-files	US East (N. Virginia) us-east-1	Objects can be public
my-s3-bucket-files	US East (N. Virginia) us-east-1	Objects can be public
my-s3-bucket-files-3	US East (N. Virginia) us-east-1	Objects can be public
s3-task1-bucket	US East (N. Virginia) us-east-1	Objects can be public
static-website-bucket-storage-test	US East (N. Virginia) us-east-1	⚠️ Public
static-website-s3-bucket-global	US East (N. Virginia) us-east-1	Objects can be public
sttsitic-sitw-34433	US East (N. Virginia) us-east-1	Objects can be public
techkraft-bootcamp-files	US East (N. Virginia) us-east-1	Objects can be public

At the bottom of the screen, there are buttons for "CloudShell" and "Feedback", and a copyright notice: "© 2024, Amazon Web Services, Inc. or its affiliates. All rights reserved."

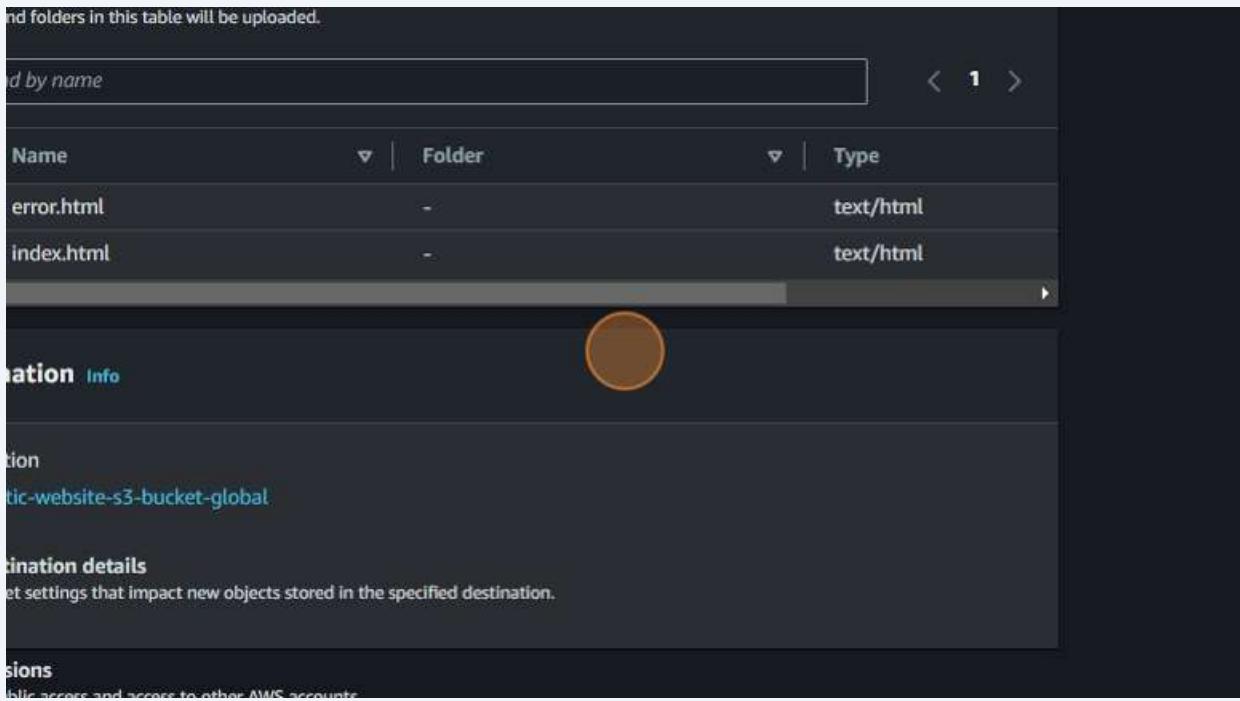
208 Click "Upload"

The screenshot shows the contents of the 'static-website-s3-bucket-global' bucket. The interface includes a search bar labeled 'prefix' and a header with sorting options for 'Type', 'Last modified', 'Size', and 'Storage class'. Below the header, it says 'No objects' and 'You don't have any objects in this bucket.' A prominent 'Upload' button is located at the bottom center, with a yellow circle highlighting it.

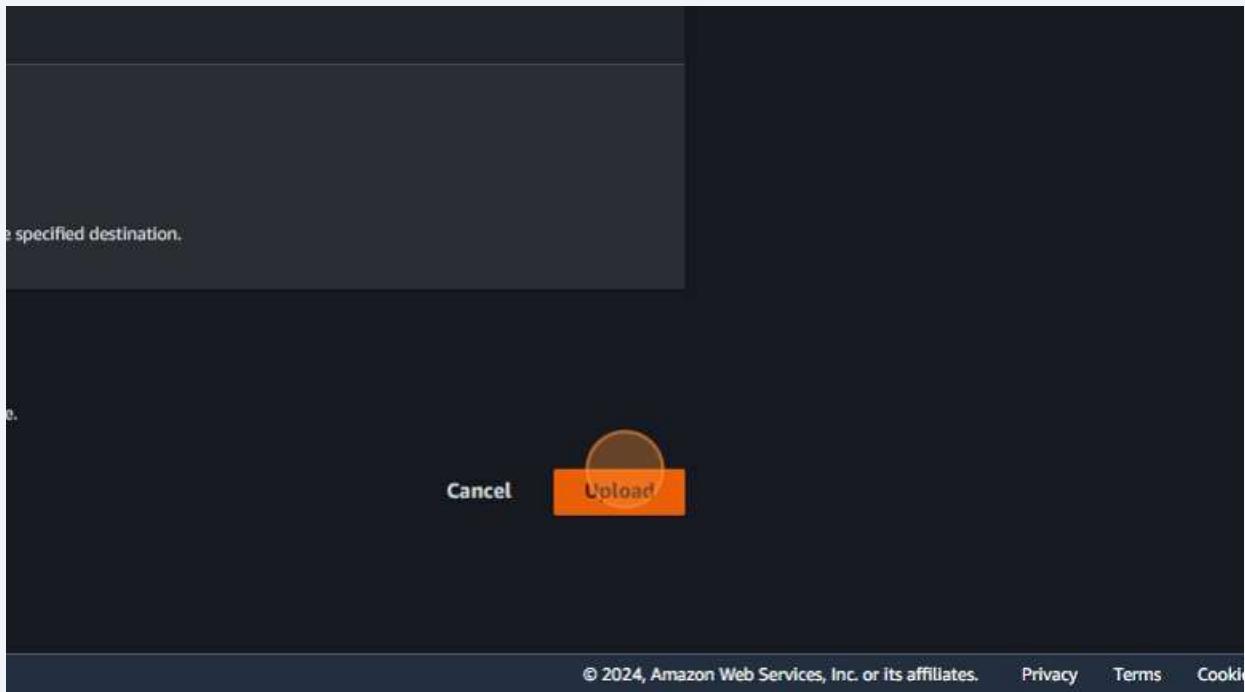
209 Click "Add files"



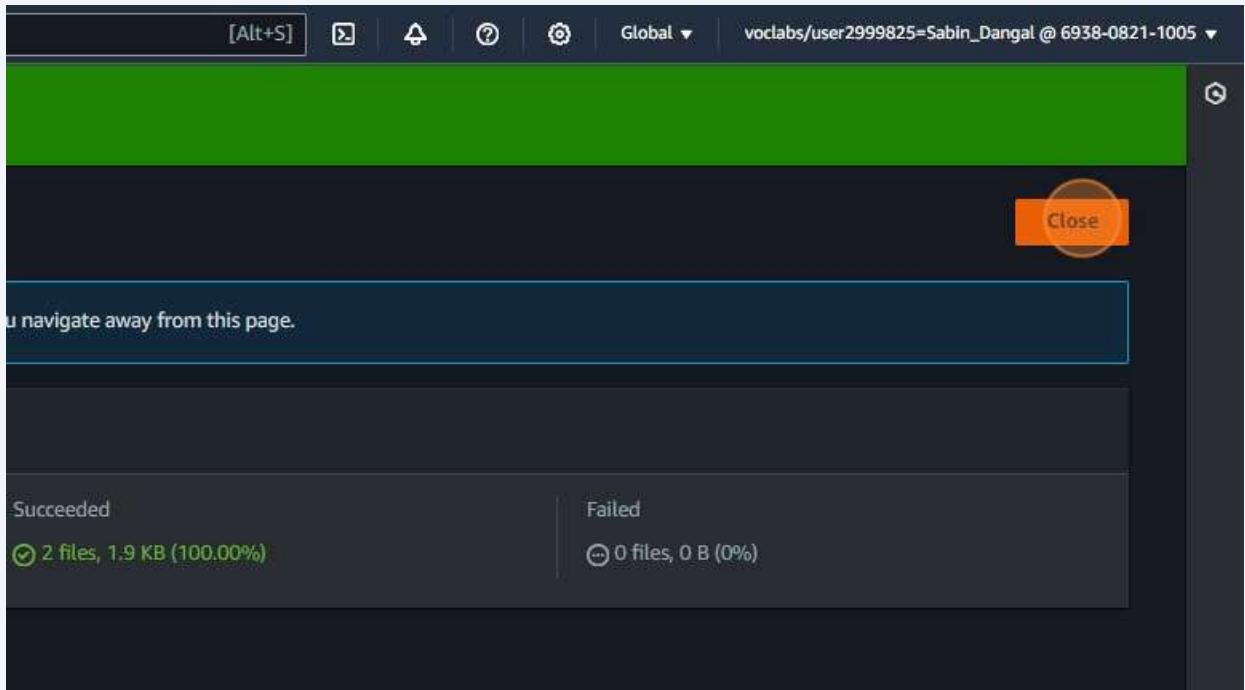
210 Click here.



211 Click "Upload"



212 Click "Close"



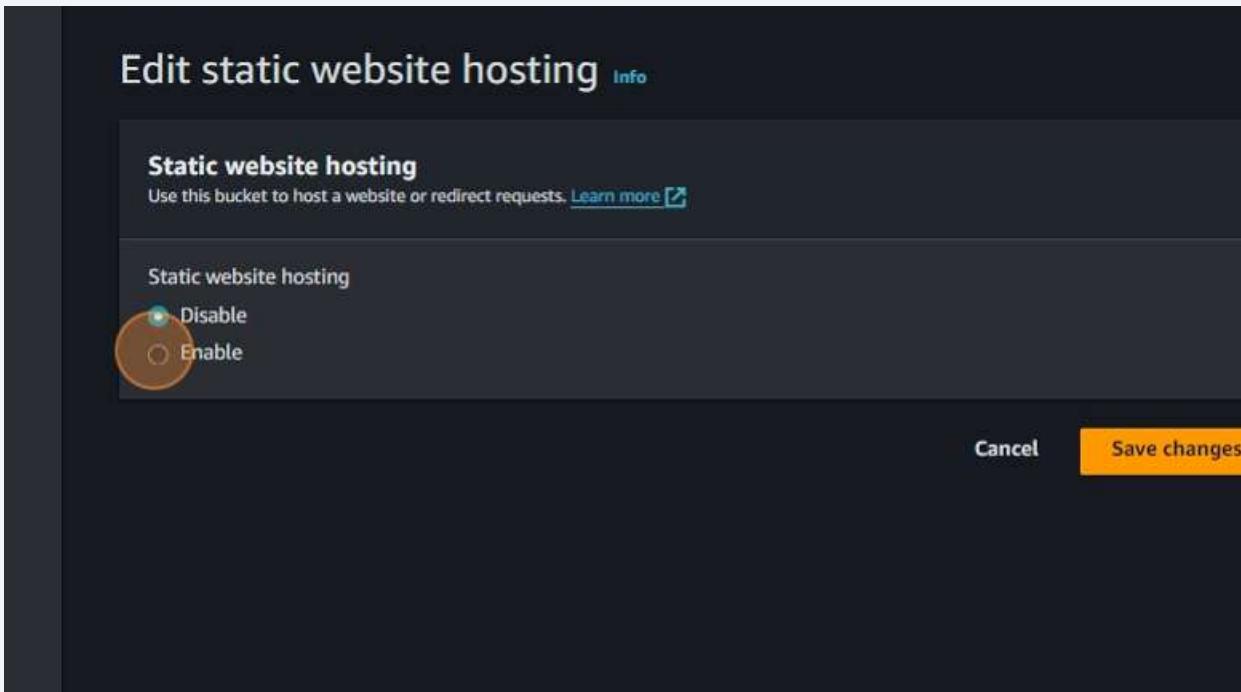
213 Click "Properties"

The screenshot shows the AWS S3 console. In the top navigation bar, the 'Services' tab is selected. Below it, the path 'Amazon S3 > Buckets > static-website-s3-bucket-global' is shown. The main title 'static-website-s3-bucket-global' is followed by a blue 'Info' link. A horizontal menu bar below the title includes tabs for 'Objects', 'Properties' (which is highlighted with a red circle), 'Permissions', 'Metrics', 'Management', and 'Access Points'. Under the 'Properties' tab, there is a section titled 'Objects (2) Info'. This section contains a toolbar with buttons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', and 'Actions'. A search bar labeled 'Find objects by prefix' is also present. At the bottom of this section, there is a table header with columns: 'Name', 'Type', 'Last modified', and 'Size'.

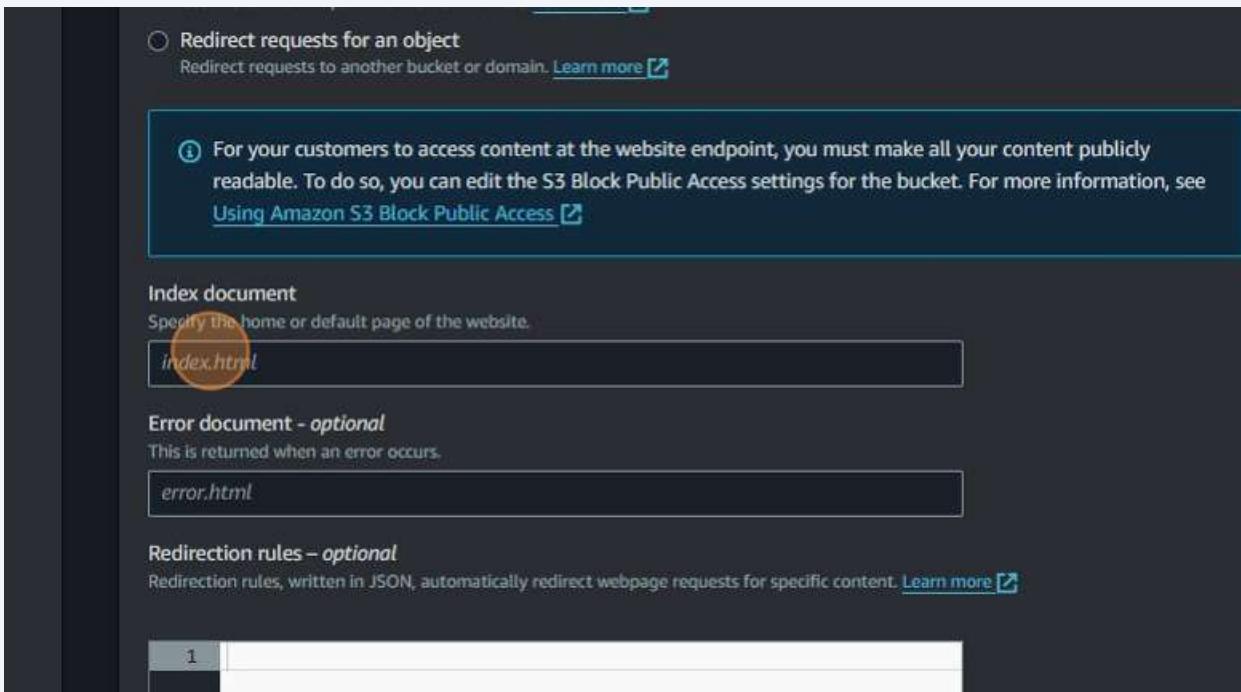
214 Click "Edit"

The screenshot shows the 'Edit' page for the 'static-website-s3-bucket-global' bucket. At the top right, there is a large 'Edit' button. Below it, a message states 'Anonymous access to this bucket is disabled.' with a 'Learn more' link. The main content area is mostly blank, showing a dark gray background. At the bottom, there is a footer bar with links: '© 2024, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'.

215 Click this radio button.

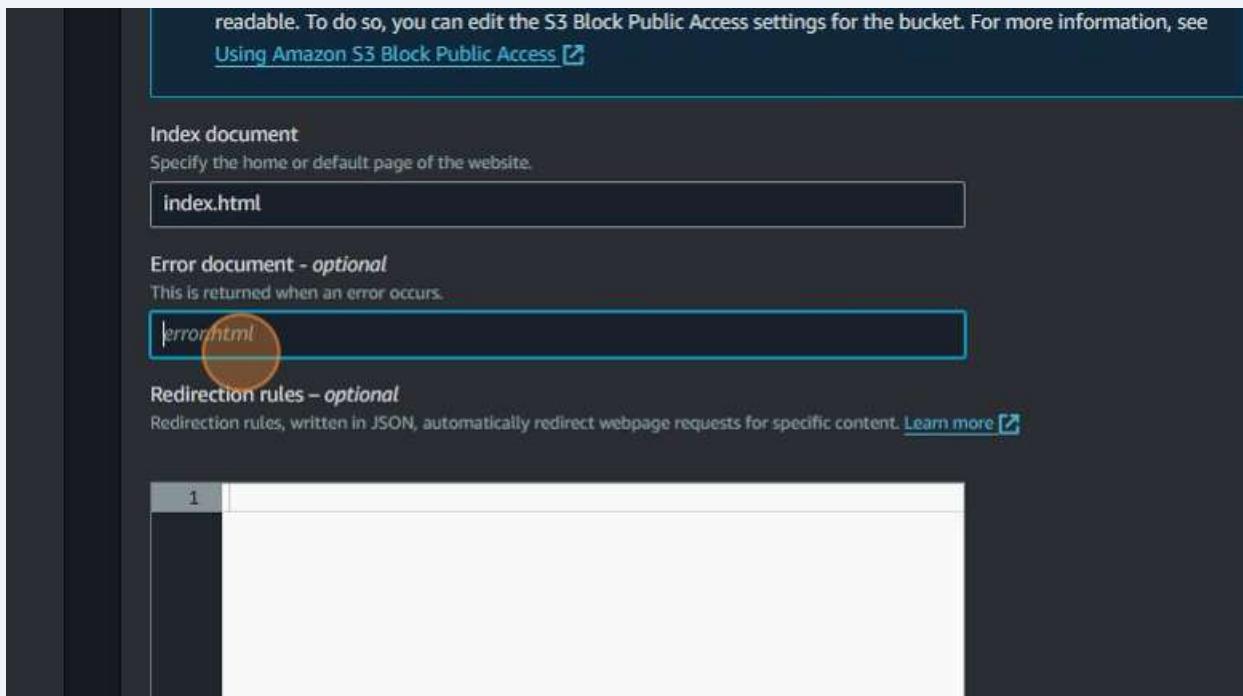


216 Click the "Index document" field.



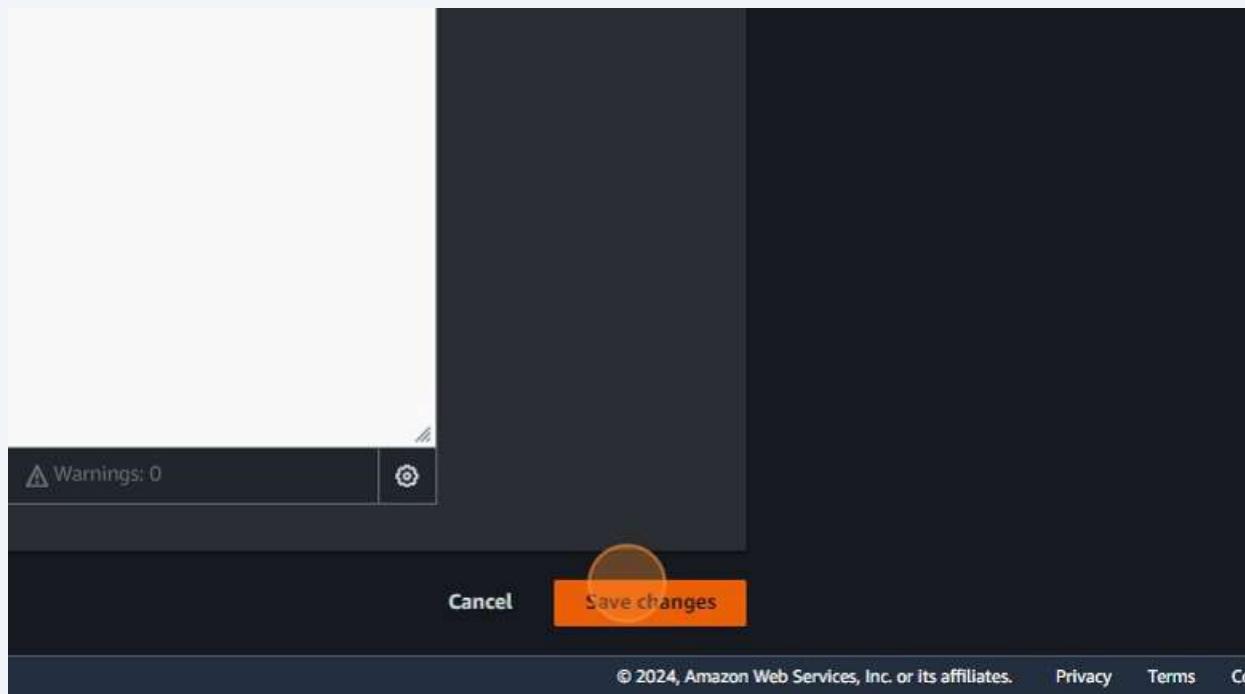
217 Type "undex.html"

218 Click the "Error document - optional" field.

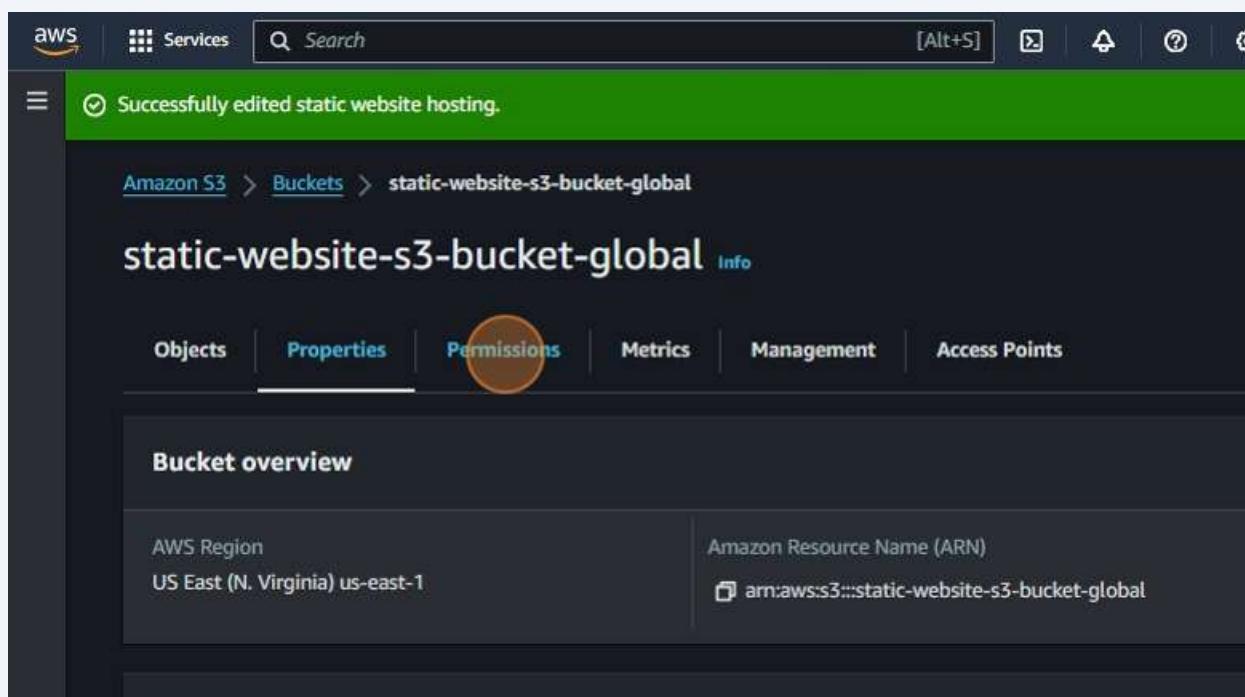


219 Type "error.html"

220 Click "Save changes"

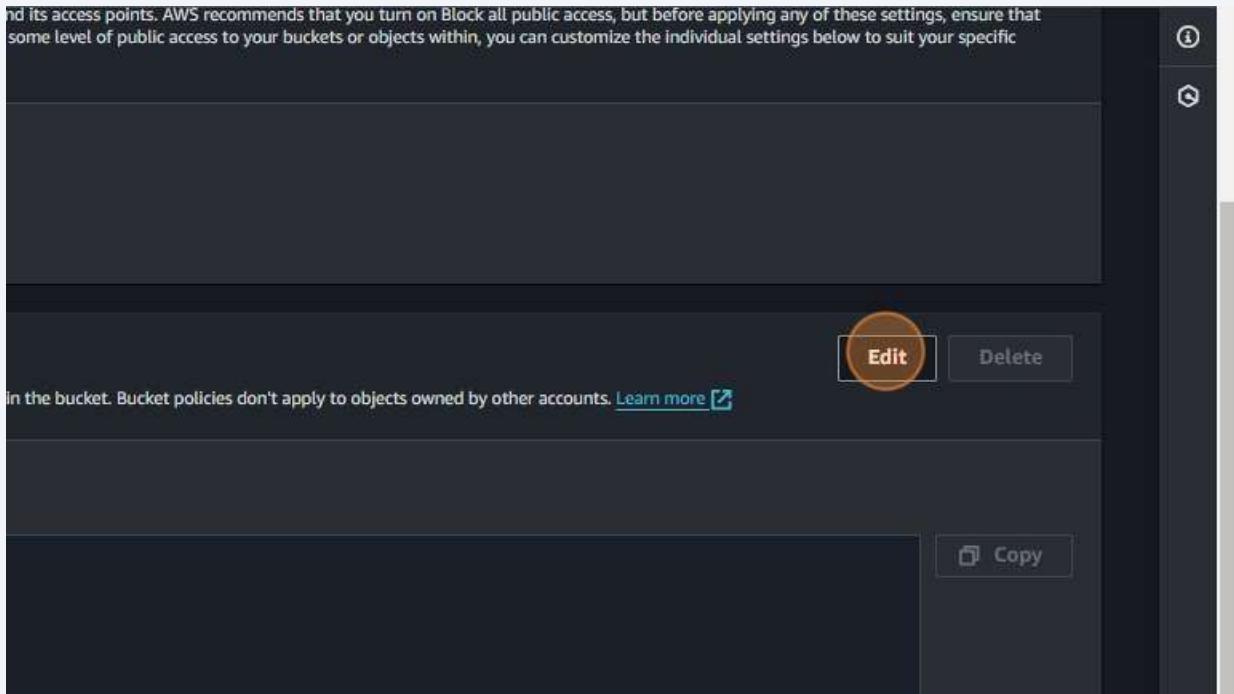


221 Click "Permissions"

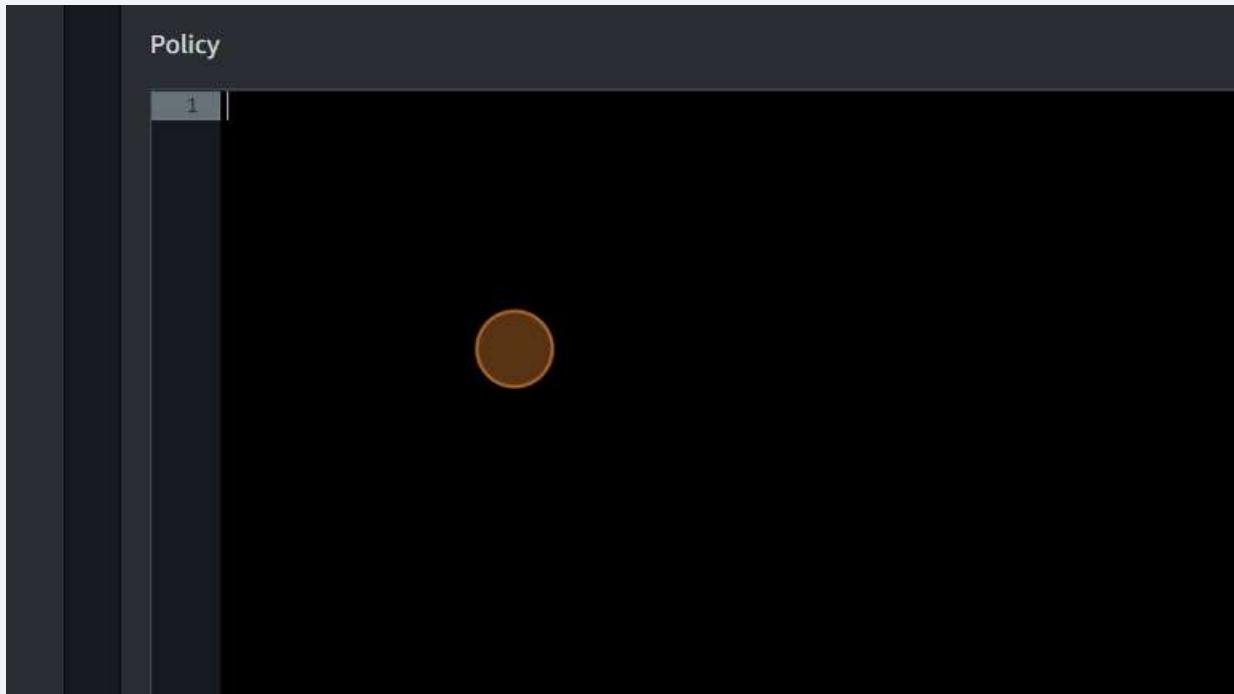


222 Click "Edit"

nd its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific



223 Click here.



224 Press **ctrl + v**

225 Click here.



The screenshot shows a JSON policy document titled "Policy". The code is as follows:

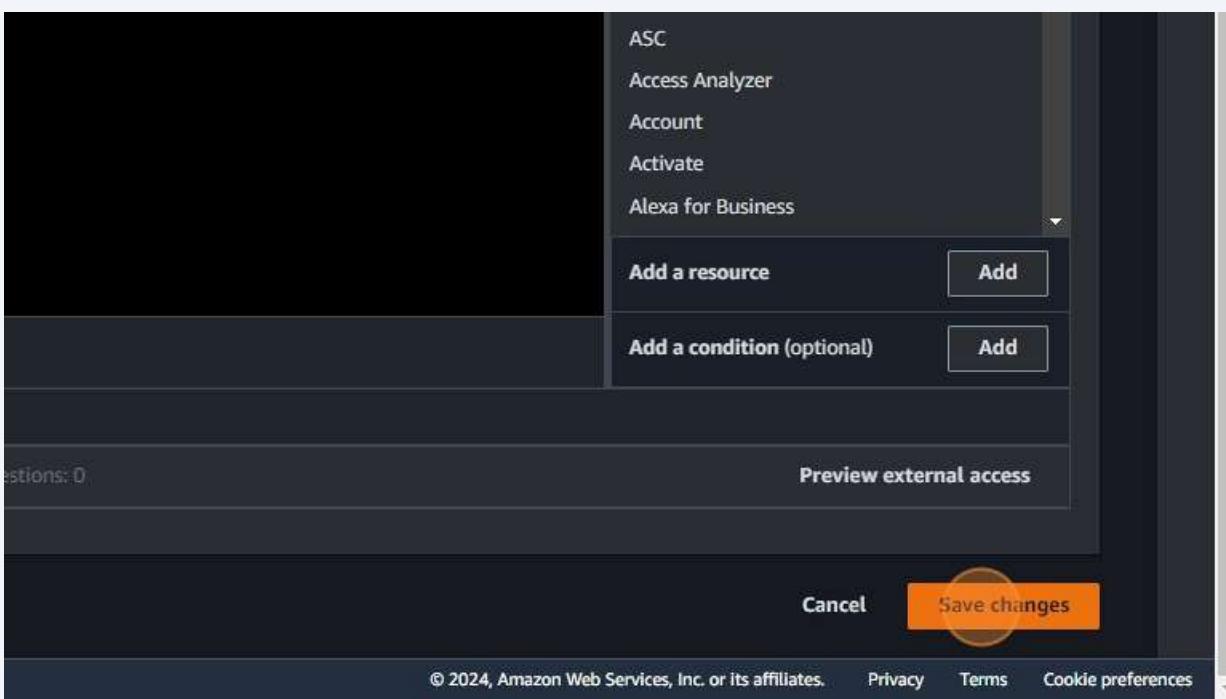
```
1 {  
2     "Version": "2012-10-17",  
3     "Id": "Policy1708060144485",  
4     "Statement": [  
5         {  
6             "Sid": "Stmt1708060129939",  
7             "Effect": "Allow",  
8             "Principal": "*",  
9             "Action": "s3:GetObject",  
10            "Resource": "arn:aws:s3:::static-website-bucket-storage-test/*"  
11        }  
12    ]  
13}
```

A circular orange highlight is placed over the "Resource" field in line 10, which contains the value "arn:aws:s3:::static-website-bucket-storage-test/*".

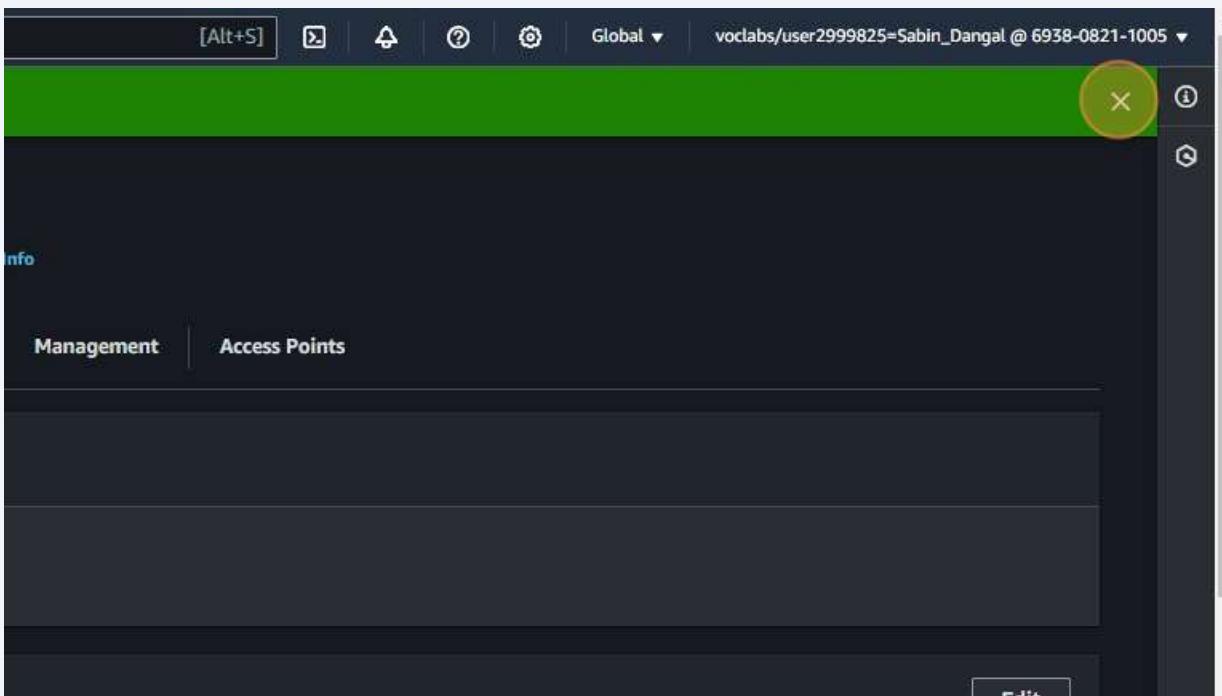
226 Double-click here.



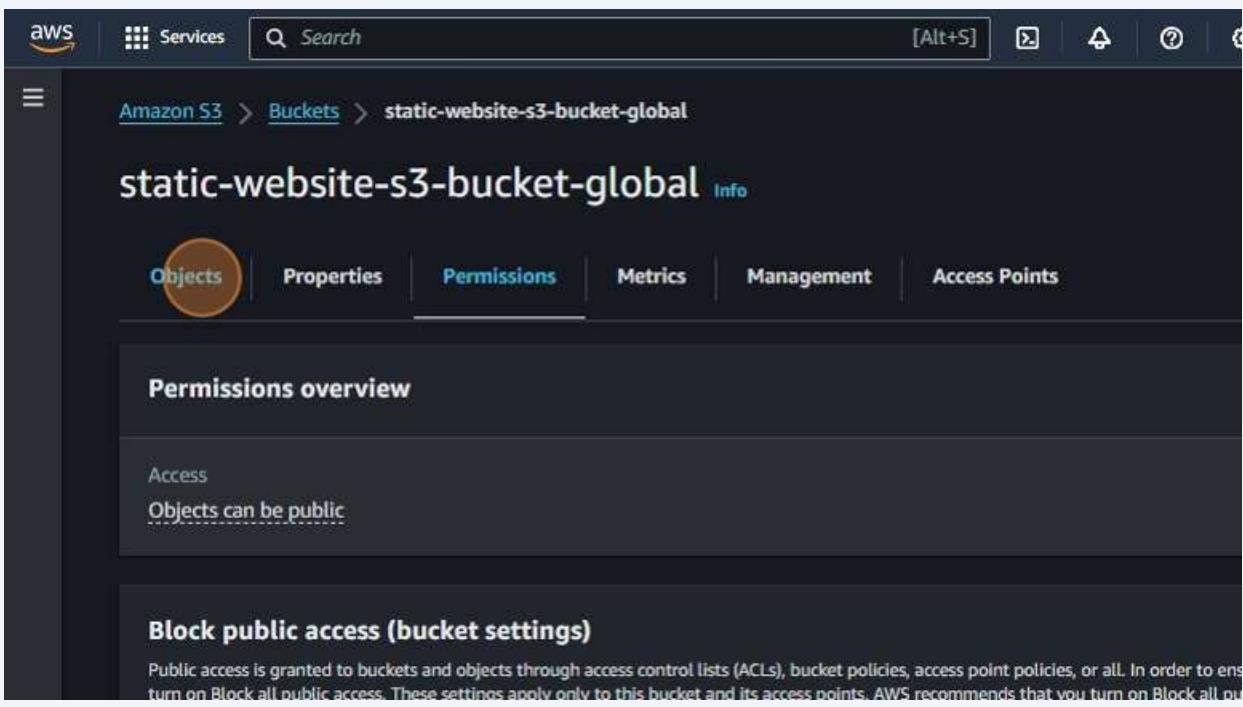
227 Click "Save changes"



228 Click here.



229 Click "Objects"



230 Click "Properties"

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with the AWS logo, 'Services' dropdown, 'Search' bar, and various icons. Below the navigation bar, the breadcrumb path shows 'Amazon S3 > Buckets > static-website-s3-bucket-global'. The main title is 'static-website-s3-bucket-global' with an 'Info' link. Below the title, there are tabs: 'Objects' (selected), 'Properties' (highlighted with a brown circle), 'Permissions', 'Metrics', 'Management', and 'Access Points'. Under the 'Objects' tab, it says '(2) Info'. There are buttons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', and 'Actions'. A note below says 'Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For permissions, Learn more.' A search bar 'Find objects by prefix' is present. At the bottom, there's a table header with columns: 'Name', 'Type', 'Last modified', and 'Size'.

231 Click "Permissions"

The screenshot shows the AWS S3 console interface, similar to the previous one but with the 'Permissions' tab selected (highlighted with a brown circle). The navigation bar, breadcrumb path, and main title are identical. The tabs at the top are now: 'Objects', 'Properties', 'Permissions' (selected), 'Metrics', 'Management', and 'Access Points'. Below the tabs, there's a section titled 'Bucket overview' with two rows of information: 'AWS Region' (US East (N. Virginia) us-east-1) and 'Amazon Resource Name (ARN)' (arn:aws:s3:::static-website-s3-bucket-global). At the bottom, there's a section titled 'Bucket Versioning' with a note: 'Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore'.

232 Click here.

The screenshot shows the AWS S3 console. On the left, there's a sidebar with a 'Feature spotlight' section (7 notifications) and a 'AWS Marketplace for S3' link. The main area is titled 'Static website hosting' and contains the following configuration details:

- Requester pays: Disabled
- Static website hosting: Enabled
- Hosting type: Bucket hosting
- Bucket website endpoint: <http://static-website-s3-bucket-global.s3-website-us-east-1.amazonaws.com/>

A blue circle highlights the endpoint URL. At the bottom of the screen, there are links for 'CloudShell' and 'Feedback', and the text '© 2024, Amazon Web Services'.

233 In a new tab, navigate to
<http://static-website-s3-bucket-global.s3-website-us-east-1.amazonaws.com/>

Submit Form

ID:

Name:

