

Create a Bucket on AWS S3

S3 Bucket

1

Navigate to

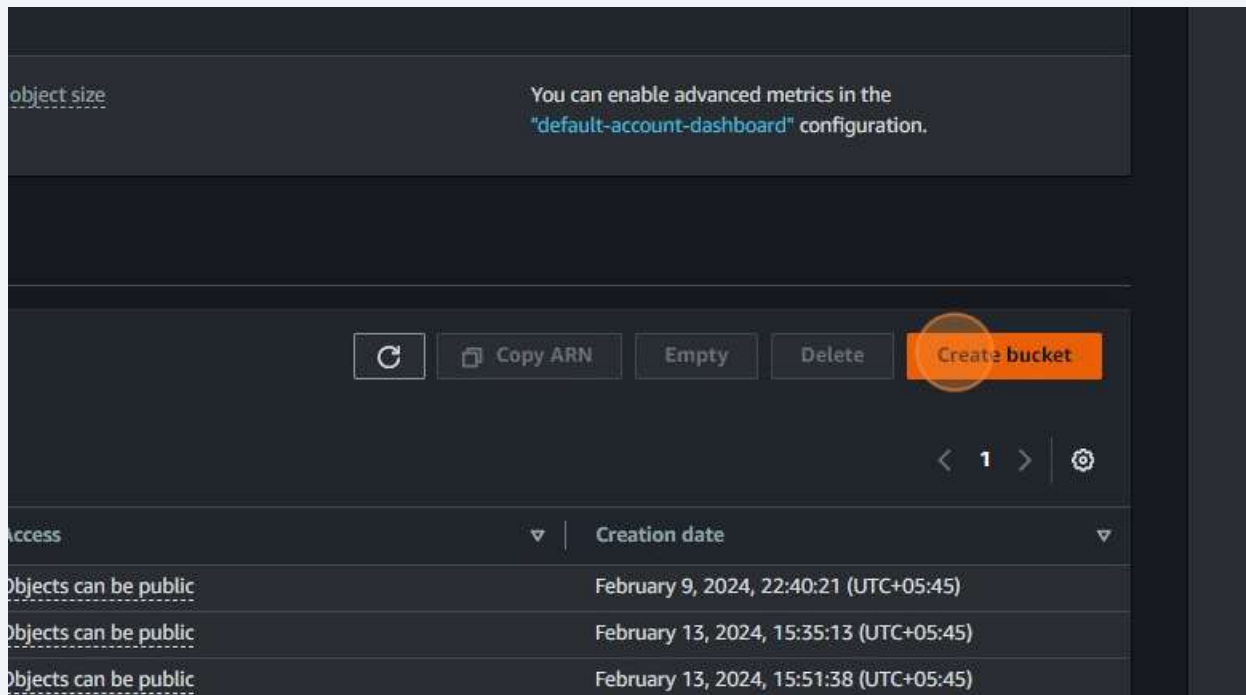
<https://us-east-1.console.aws.amazon.com/console/home?region=us-east-1>

2

Click "S3"



3 Click "Create bucket"



4 Navigate to <https://s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1>

5 Click the "Bucket name" field.

US East (N. Virginia) us-east-1 ▼

Bucket type [Info](#)

☒ **General purpose**
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ **Directory - New**
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name [Info](#)

myawsbucket

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - optional
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

6 Type " **Backspace** my-s3-bucket-files"

7 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

8 Click this checkbox.

bucket-owner-full-control canned ACL is required for object uploads. [Learn more](#)

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 and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☒ **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.

9 Click this checkbox.

bucket-owner-full-control canned ACL is required for object uploads. [Learn more](#)

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 and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☐ **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.

10 Click this checkbox.

ⓘ If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. [Learn more](#)

Block Public Access settings for this bucket

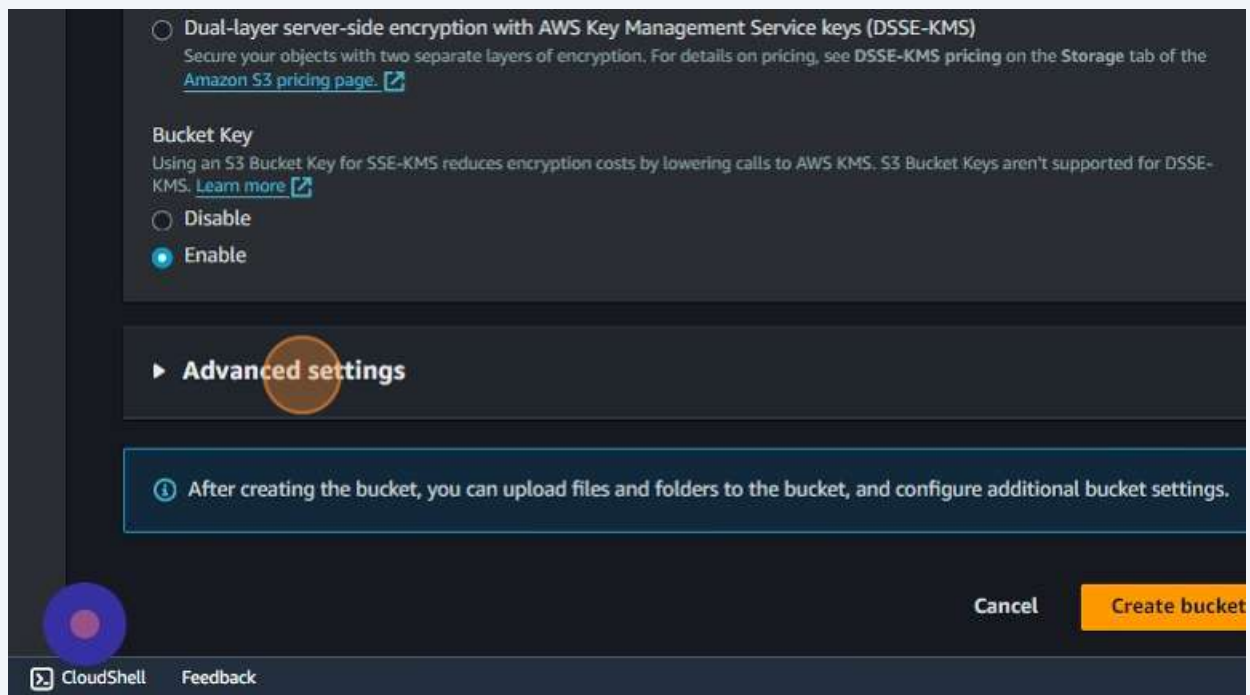
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☒ **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.

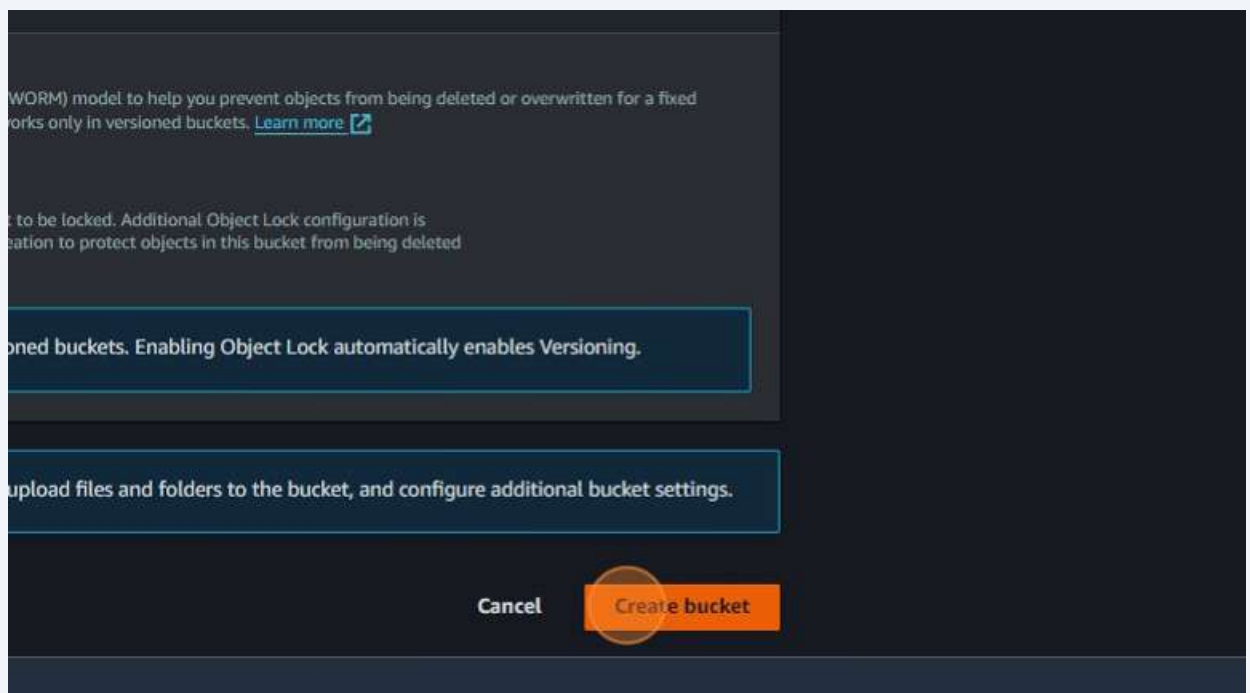
- ☒ **Block public access to buckets and objects granted through *new* access control lists (ACLs)**
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any 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.

CloudShell Feedback

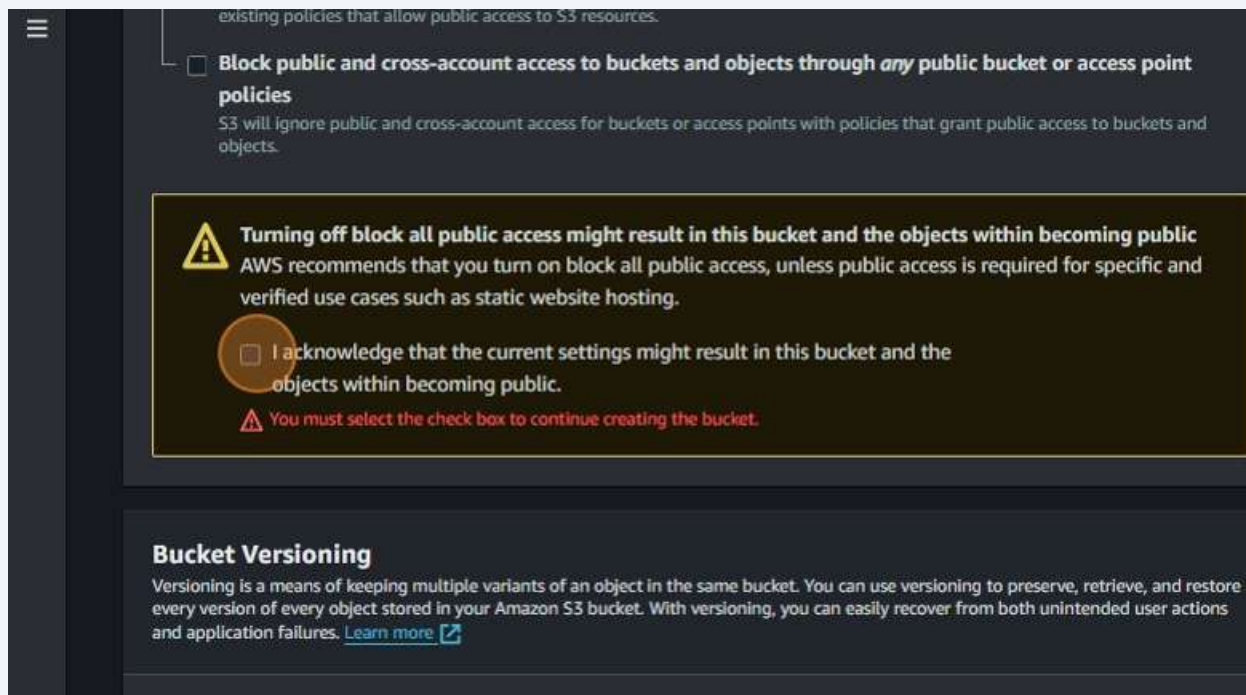
11 Click "Advanced settings"



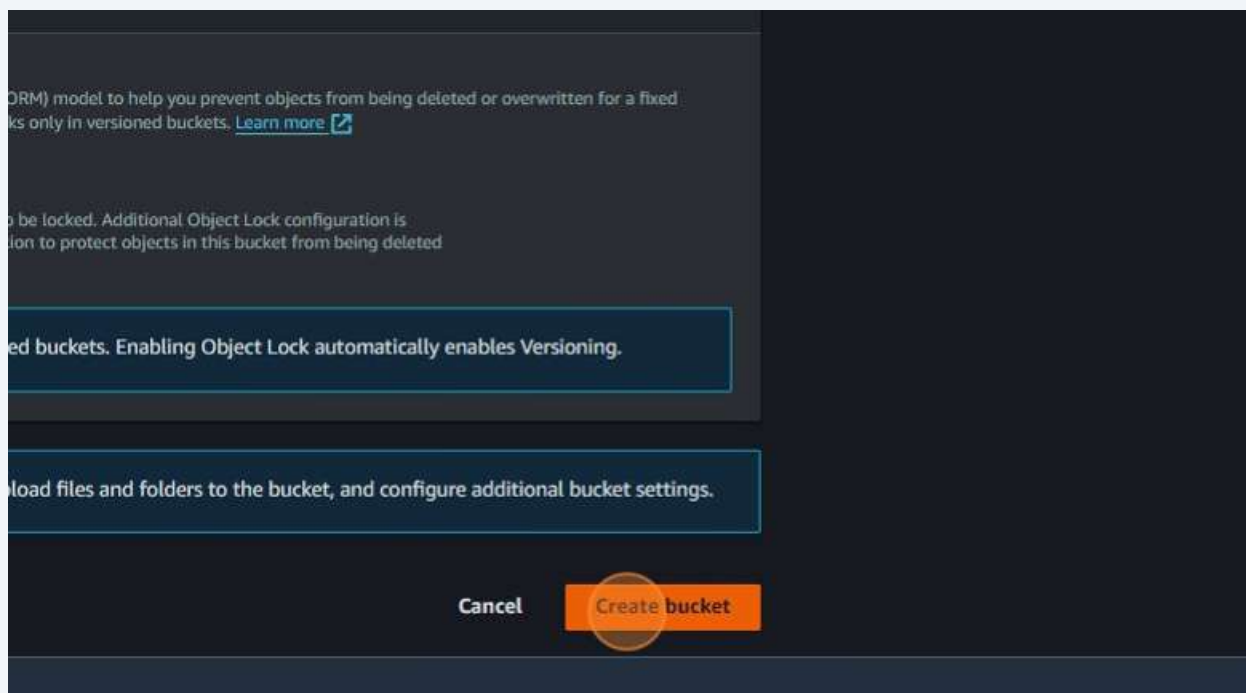
12 Click "Create bucket"



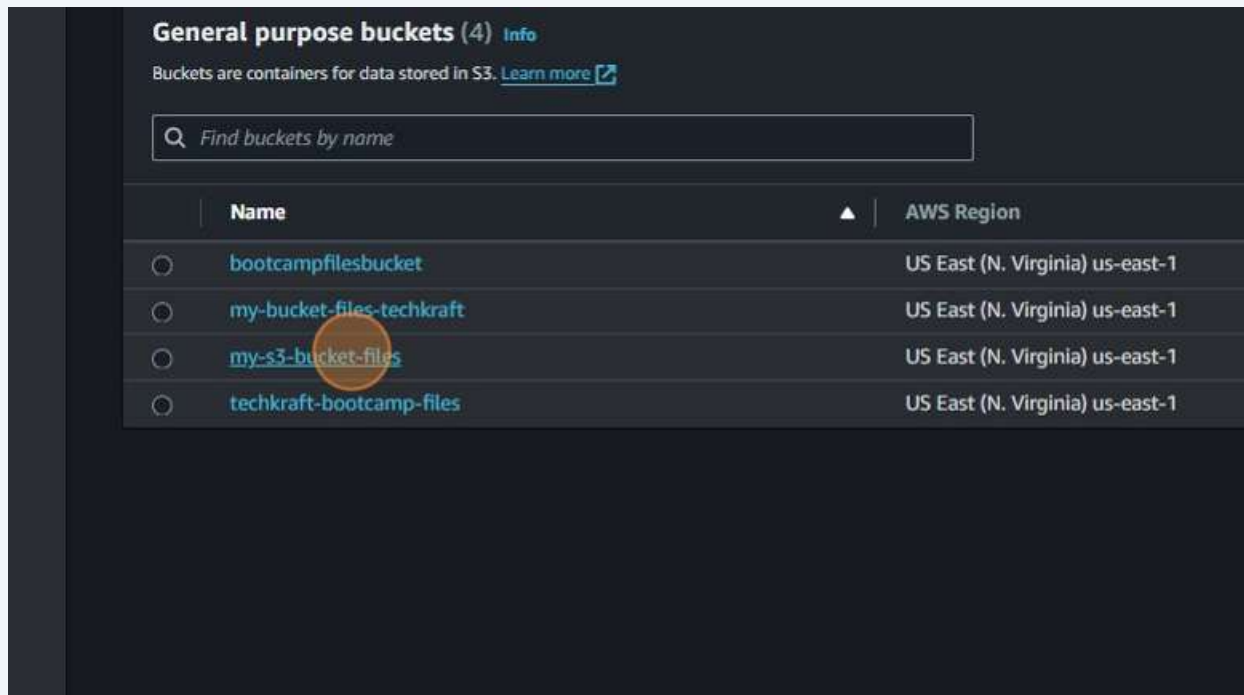
13 Click this checkbox.



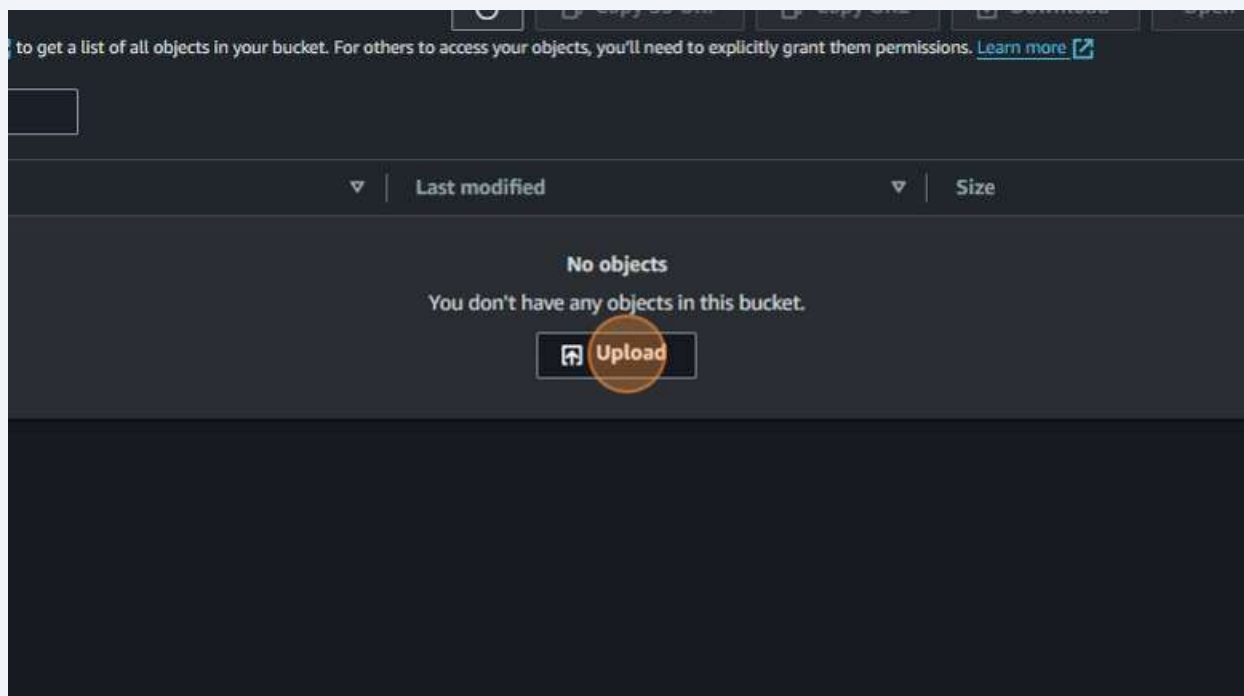
14 Click "Create bucket"



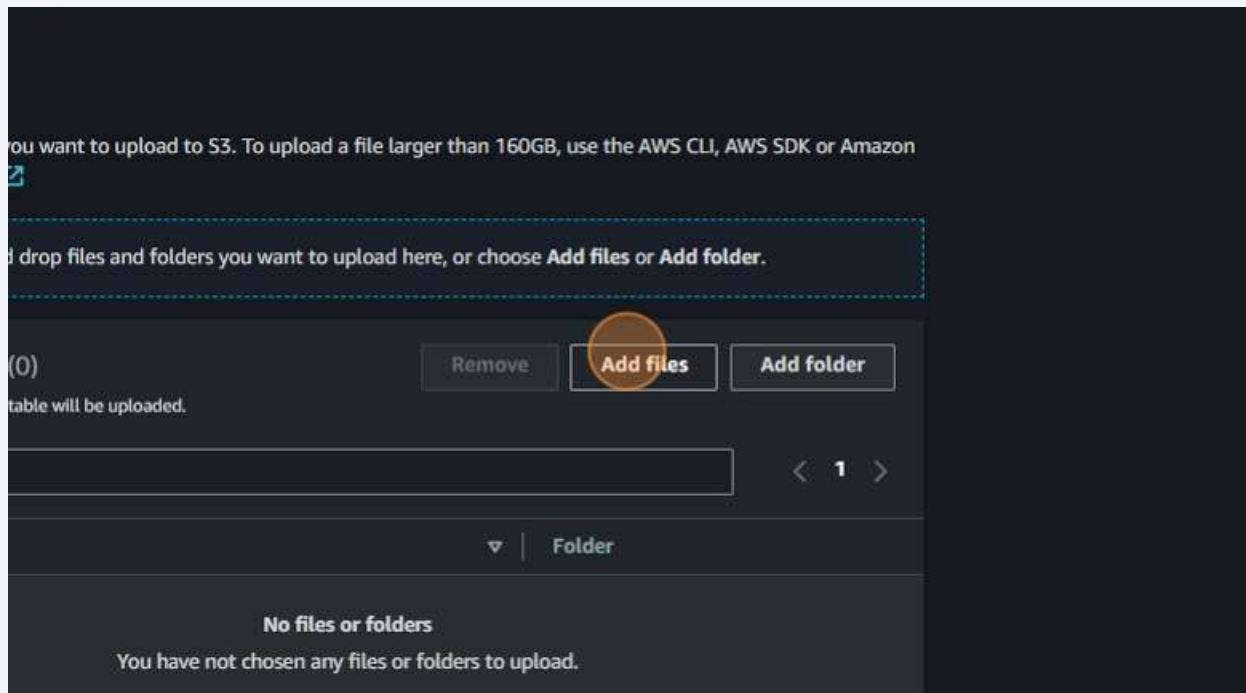
15 Click "my-s3-bucket-files"



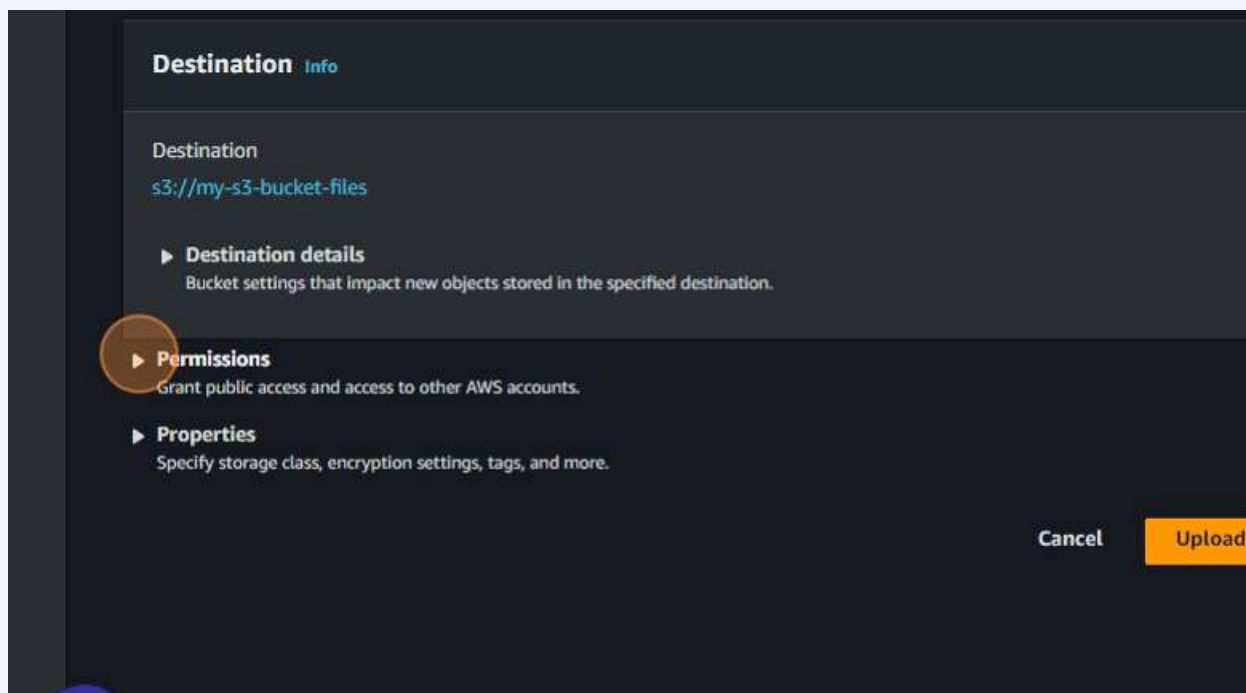
16 Click "Upload"



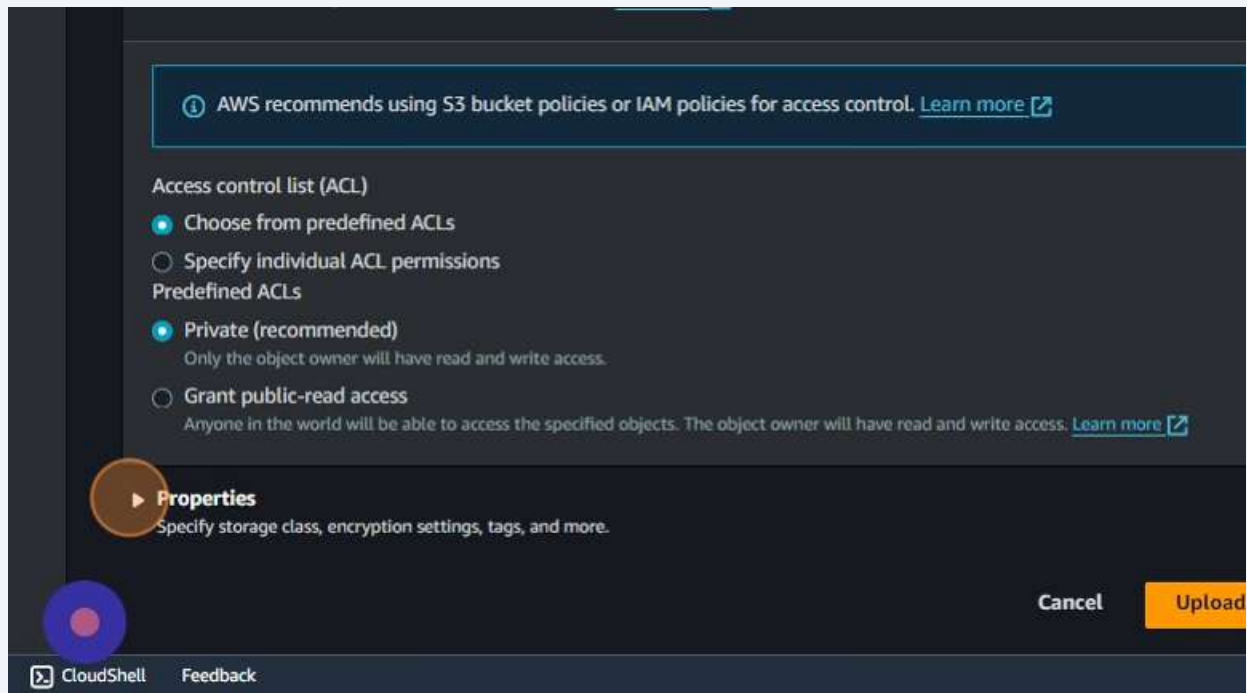
17 Click "Add files"



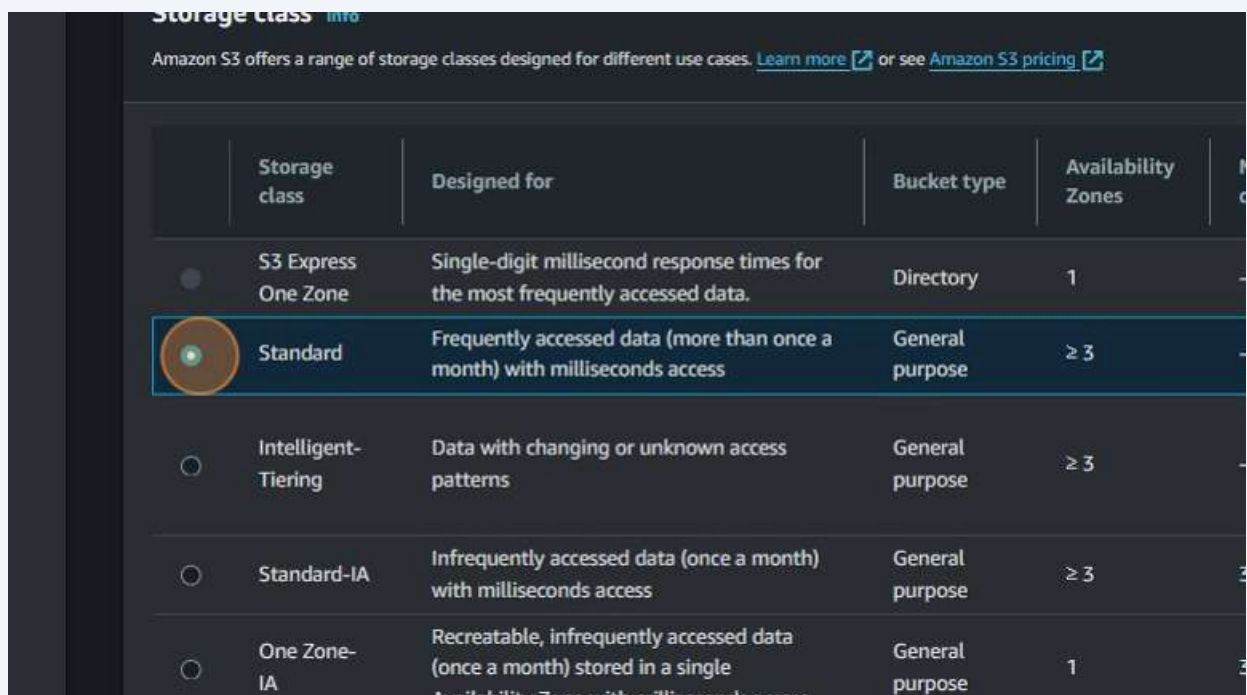
18 Click here.



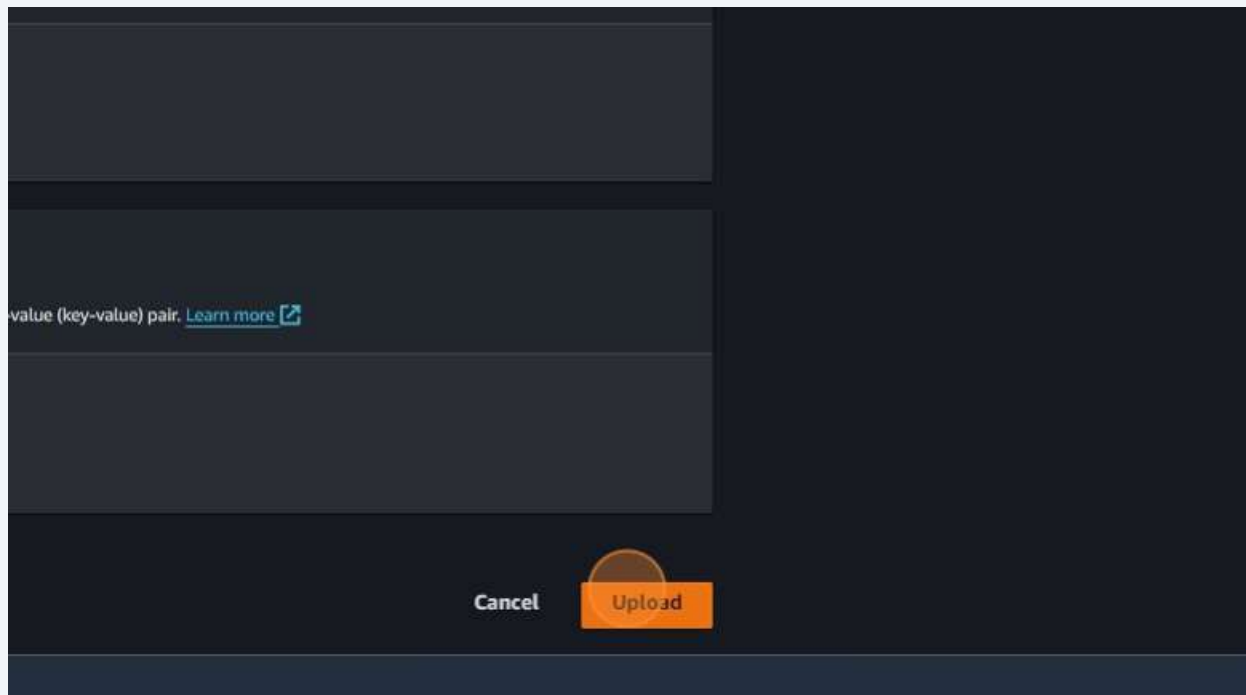
19 Click here.



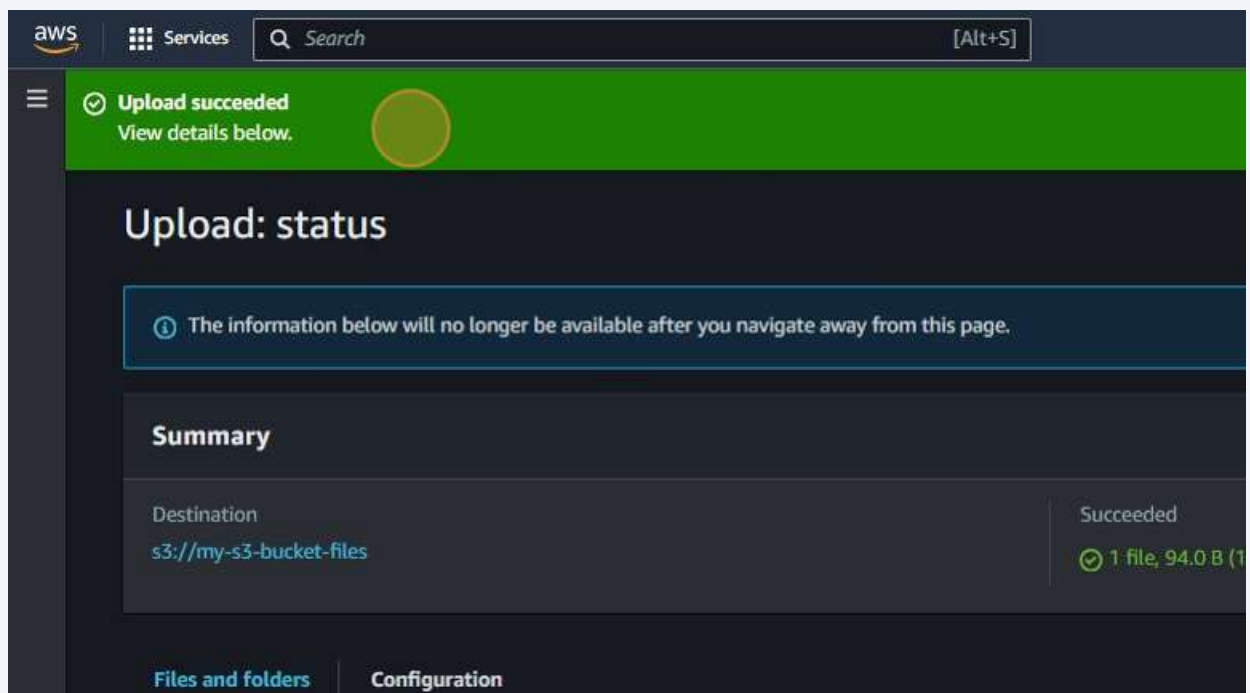
20 Click "Table Selection Select STANDARD"



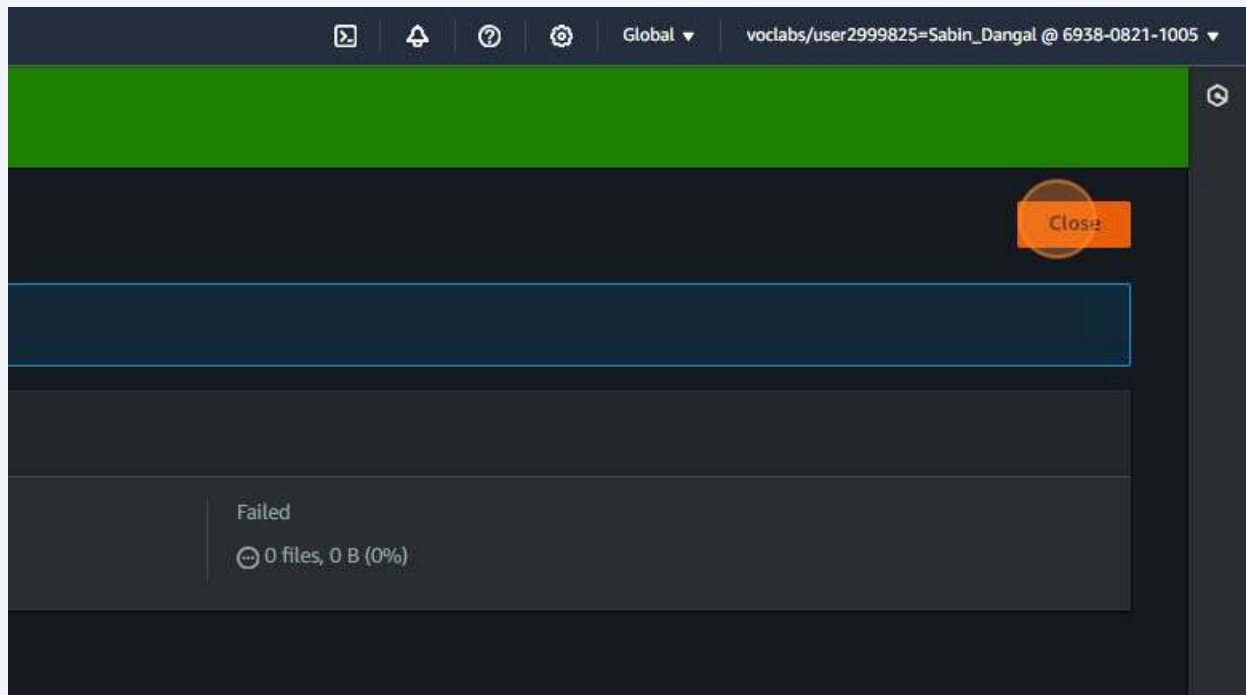
21 Click "Upload"



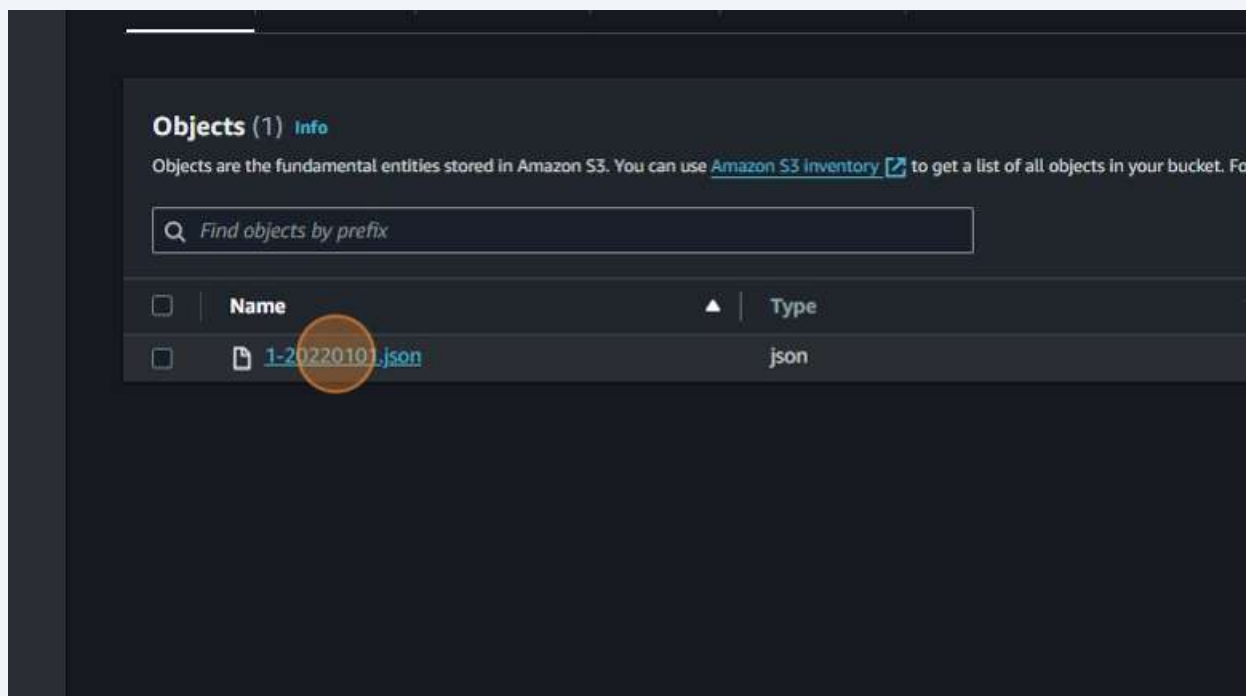
22 Click "View details below."



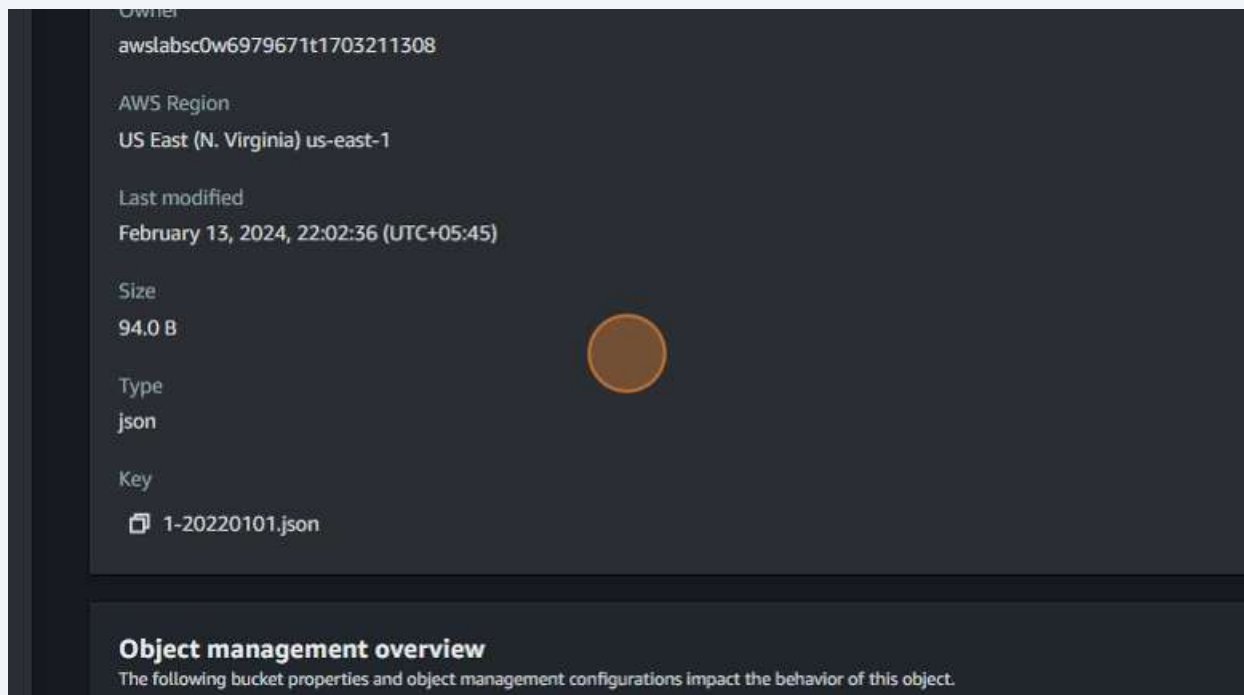
23 Click "Close"



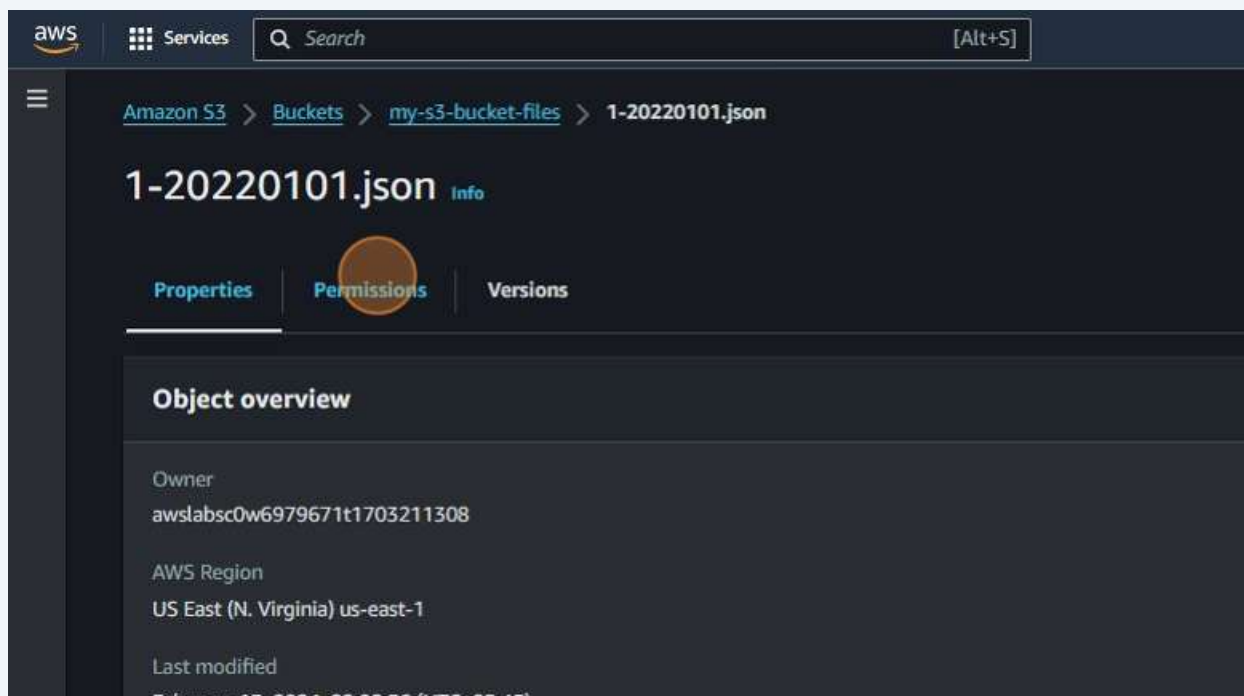
24 Click "1-20220101.json"



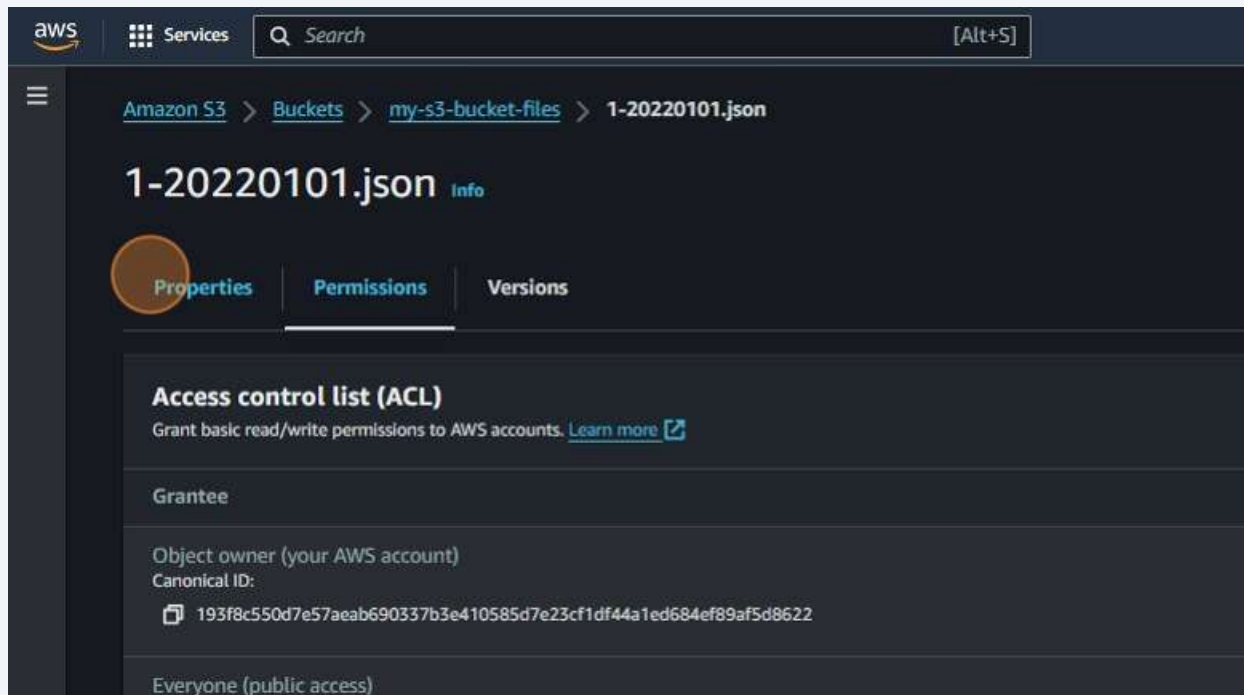
25 Click here.



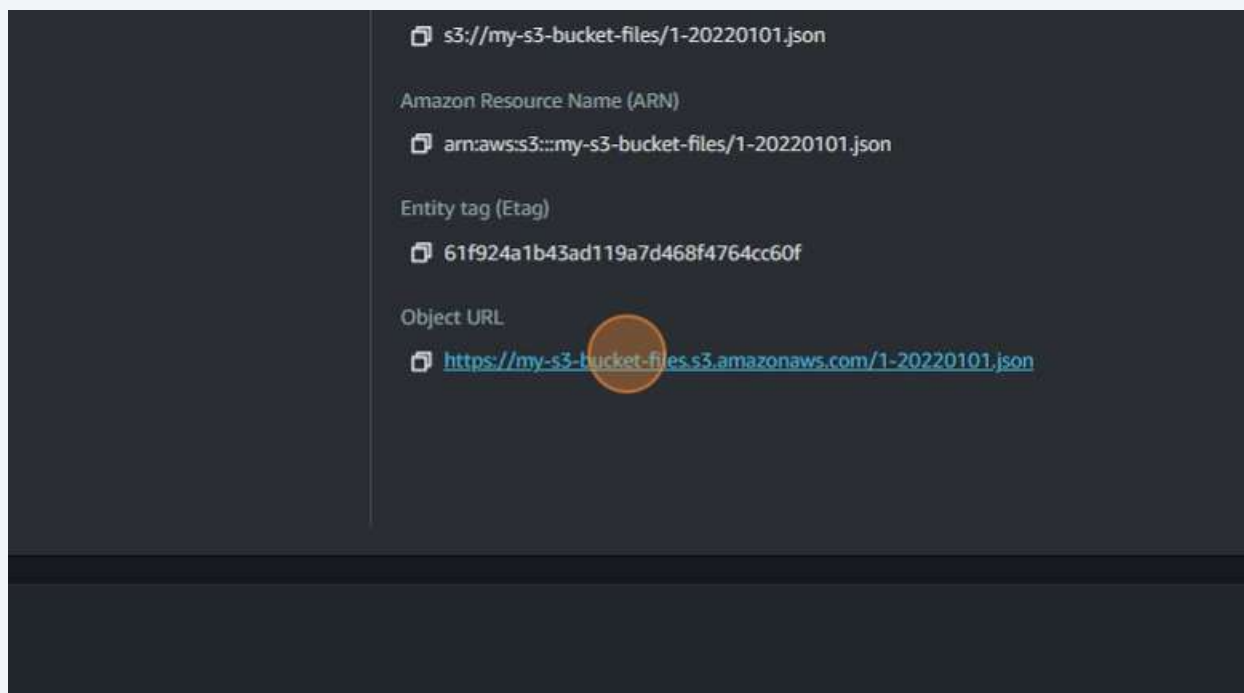
26 Click "Permissions"



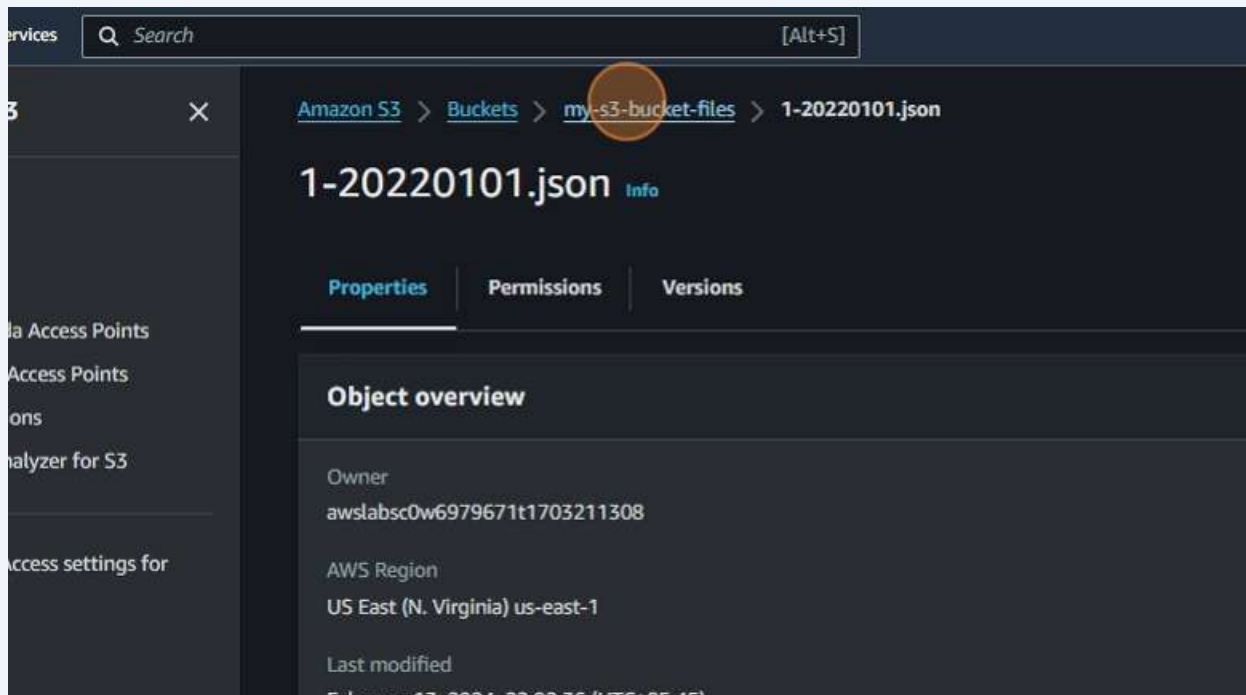
27 Click "Properties"



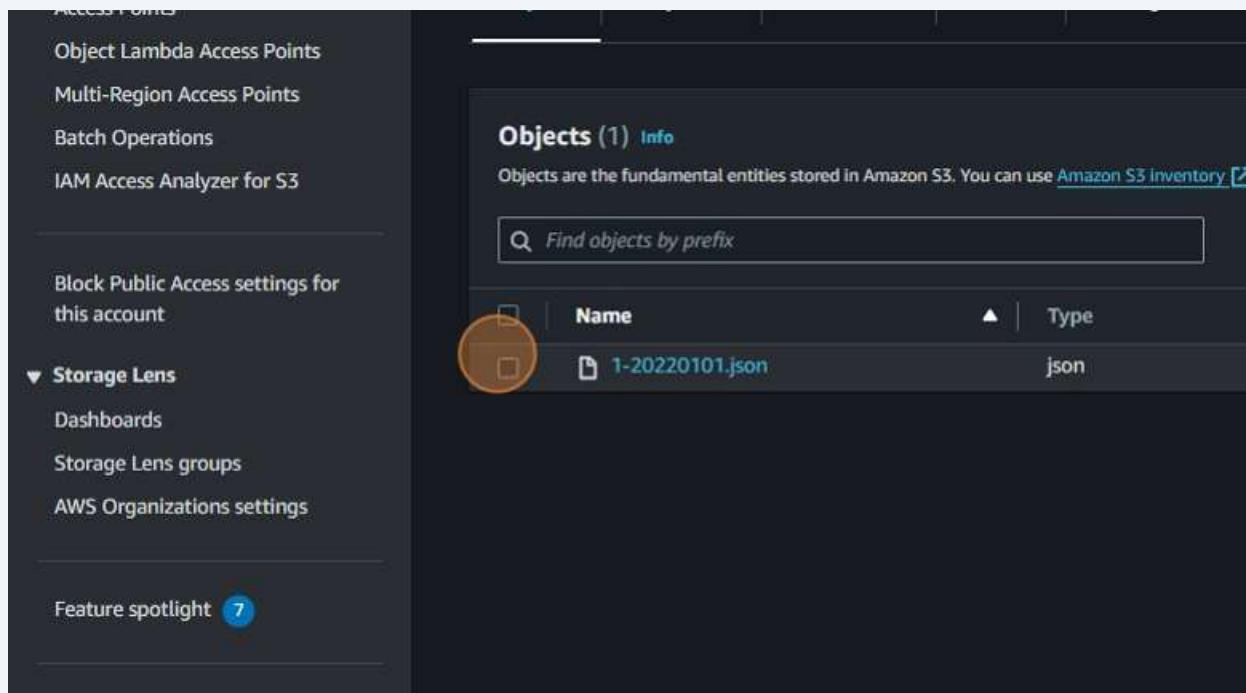
28 Click "<https://my-s3-bucket-files.s3.amazonaws.com/1-20220101.json>"



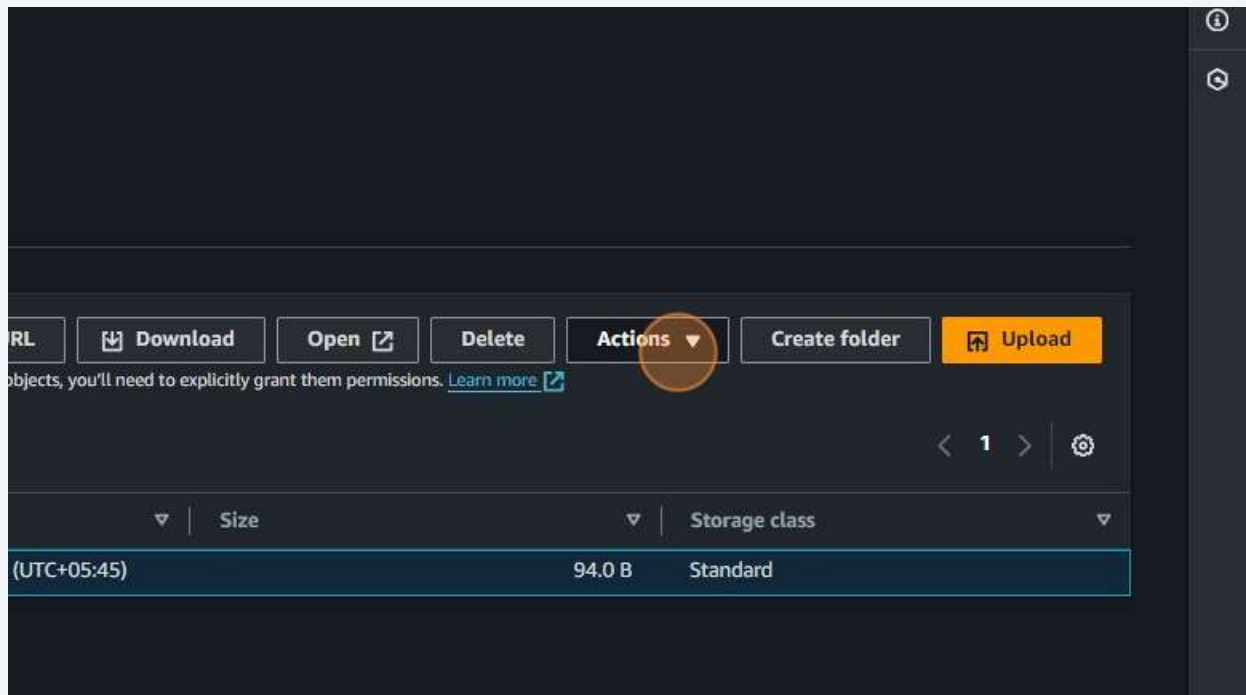
29 Click "my-s3-bucket-files"



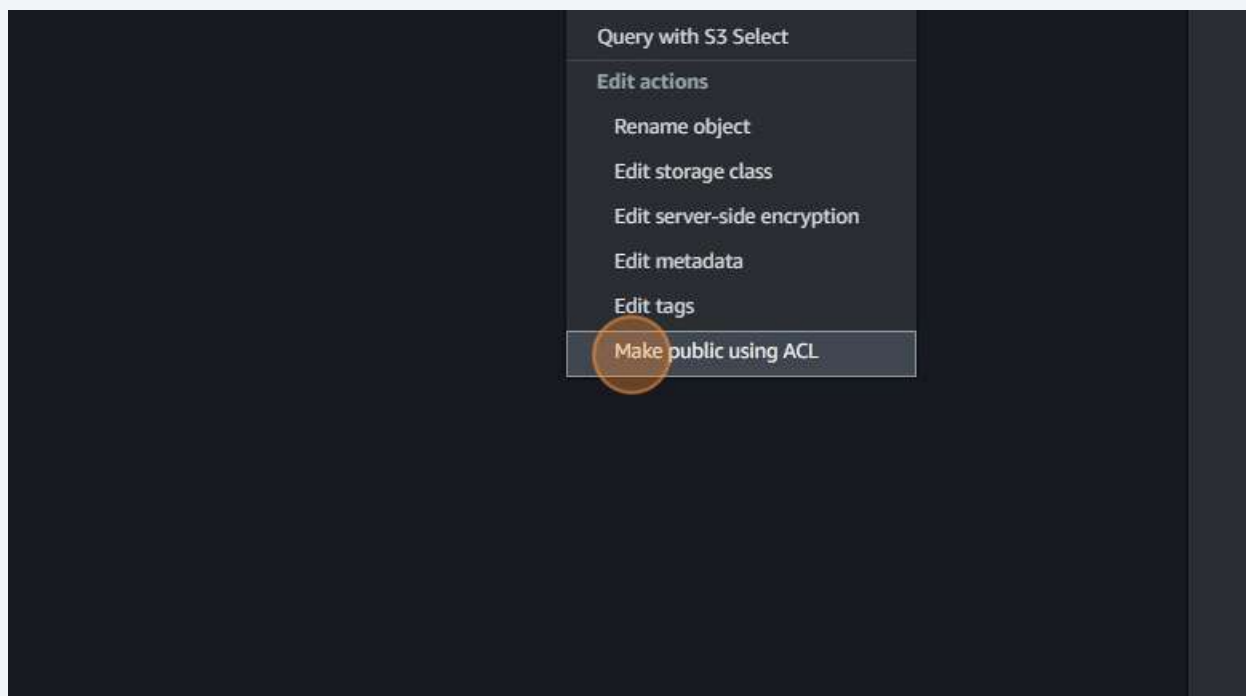
30 Click this checkbox.



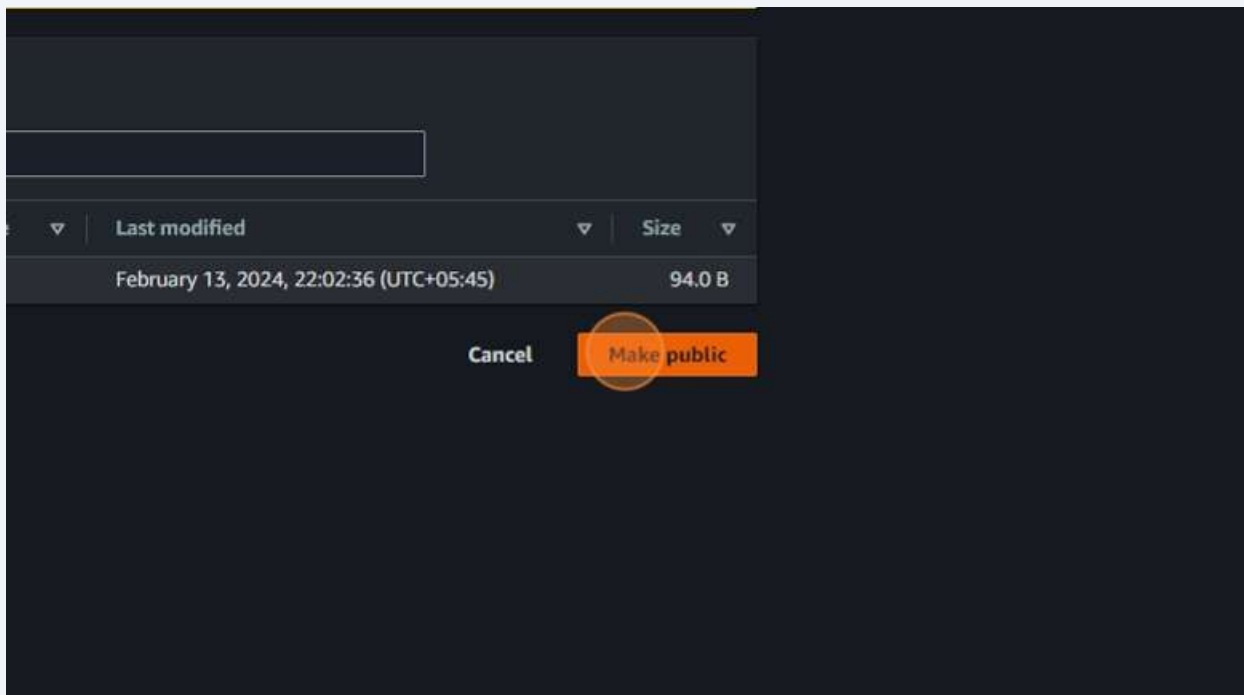
31 Click "Actions"



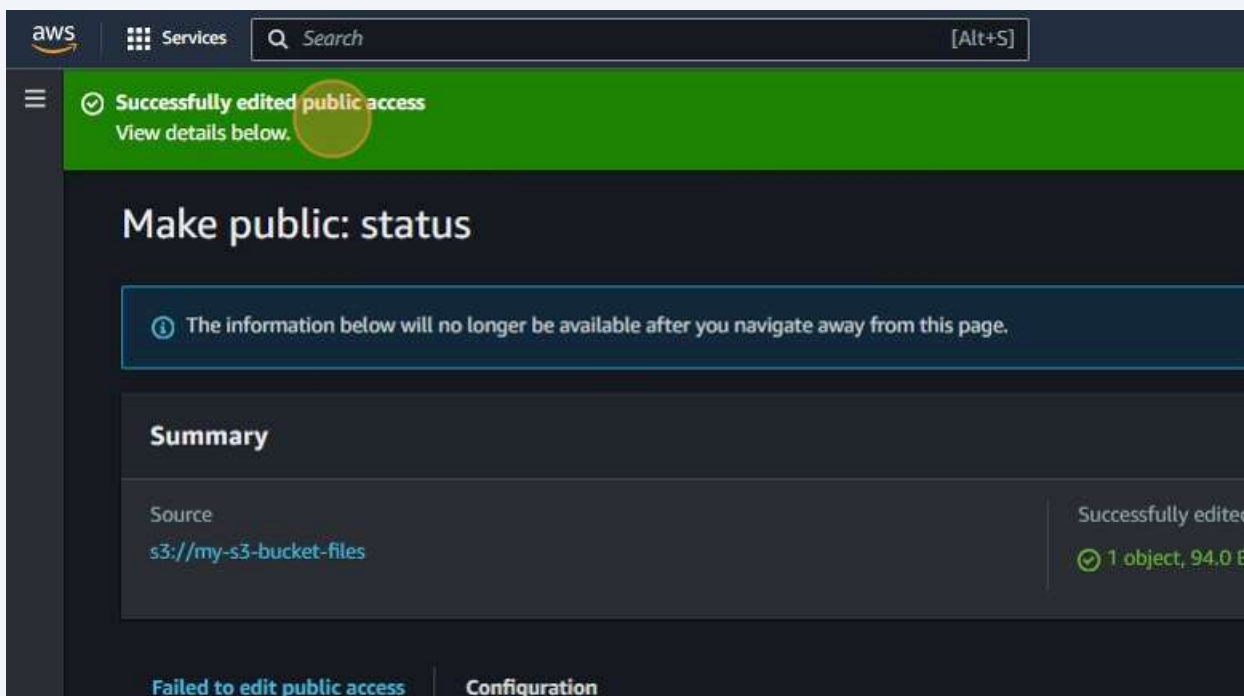
32 Click "Make public using ACL"



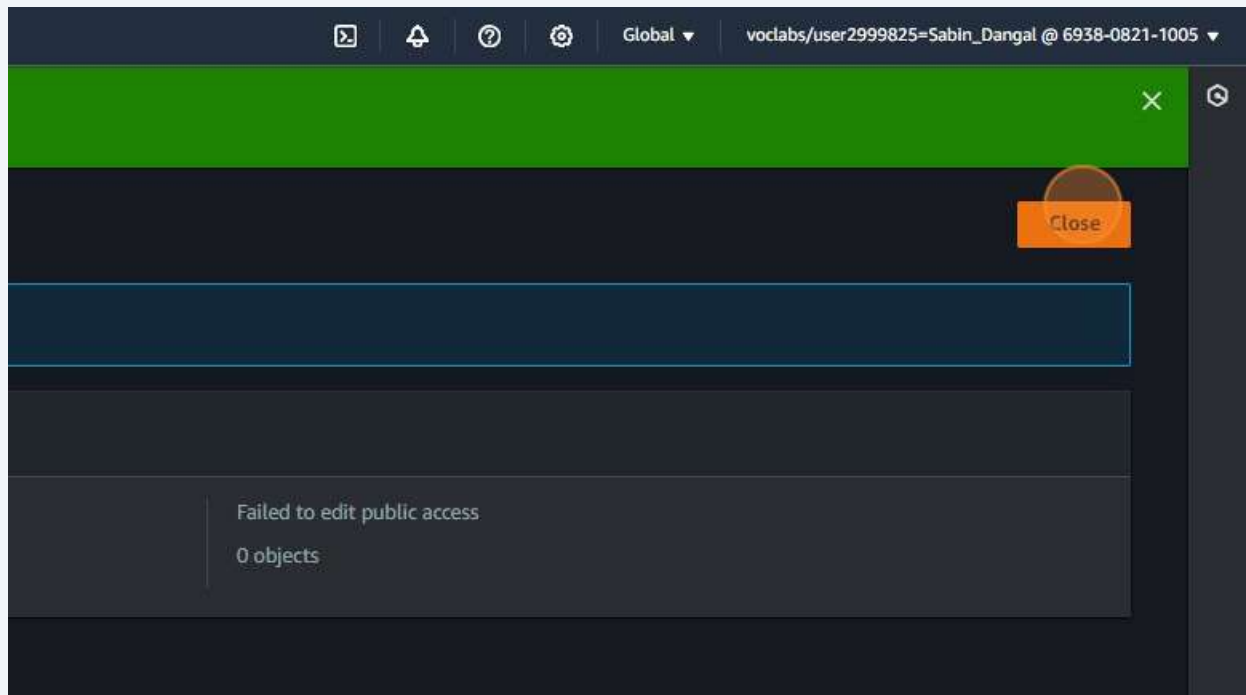
33 Click "Make public"



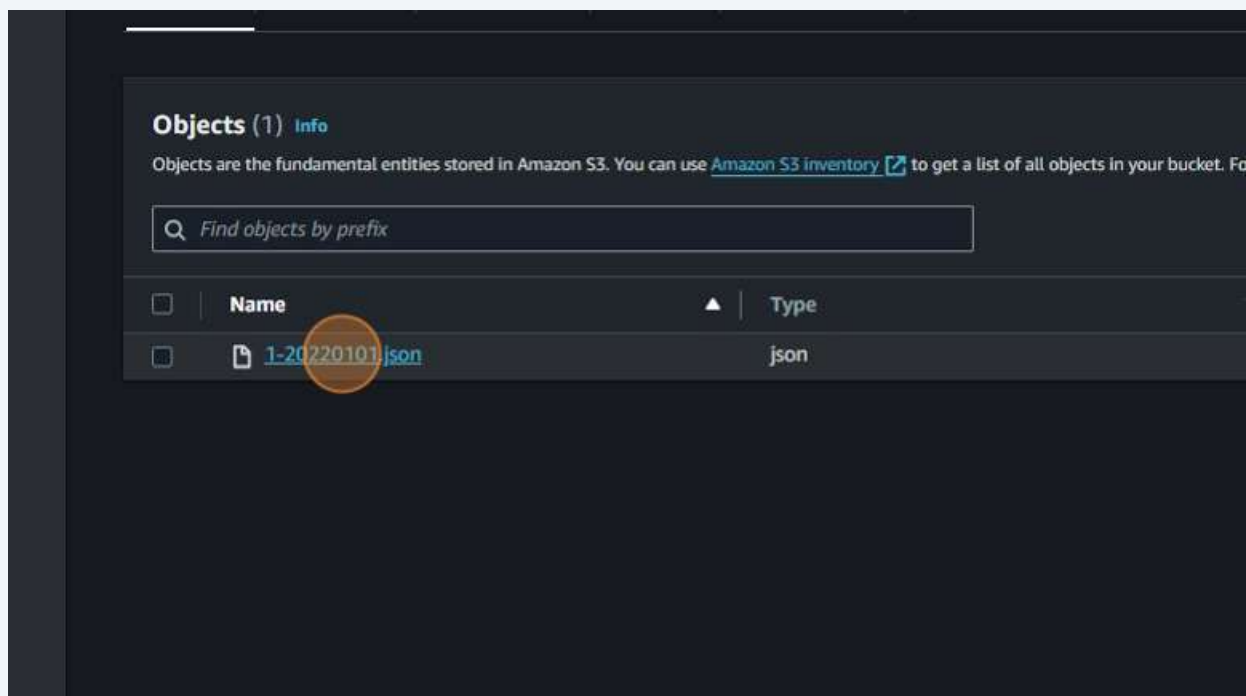
34 Click "View details below."



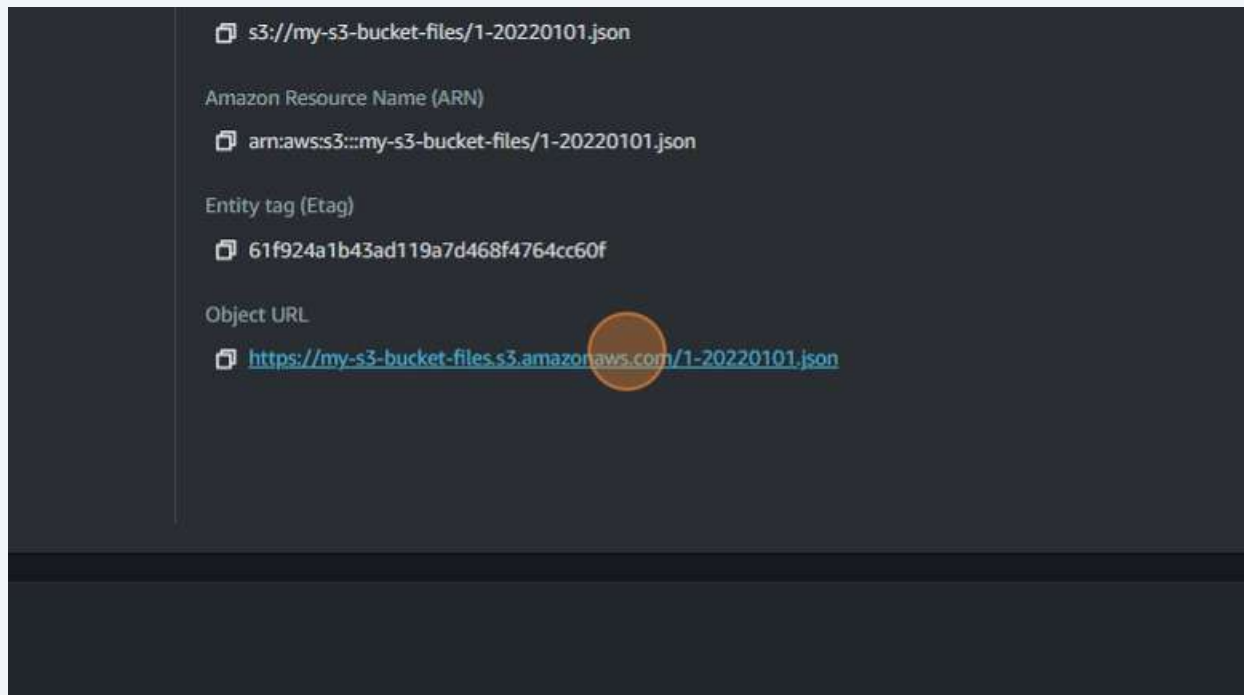
35 Click "Close"



36 Click "1-20220101.json"



37

Click "<https://my-s3-bucket-files.s3.amazonaws.com/1-20220101.json>"

38

Click "age: 30,"

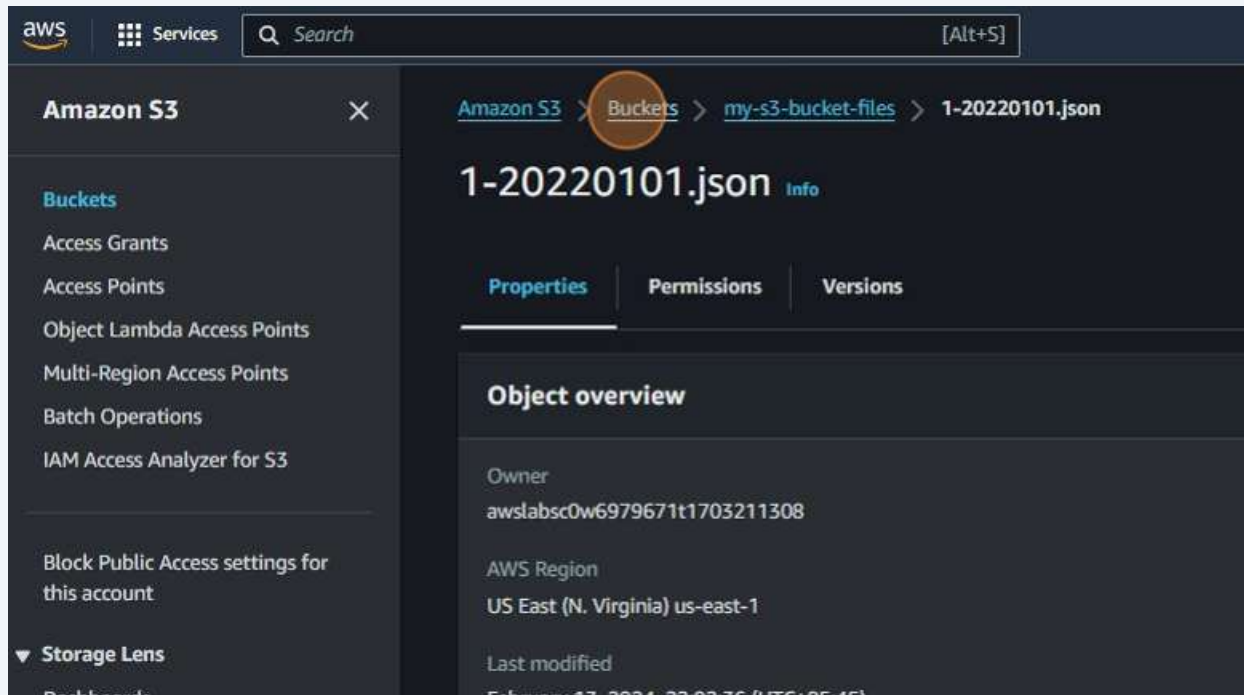


39

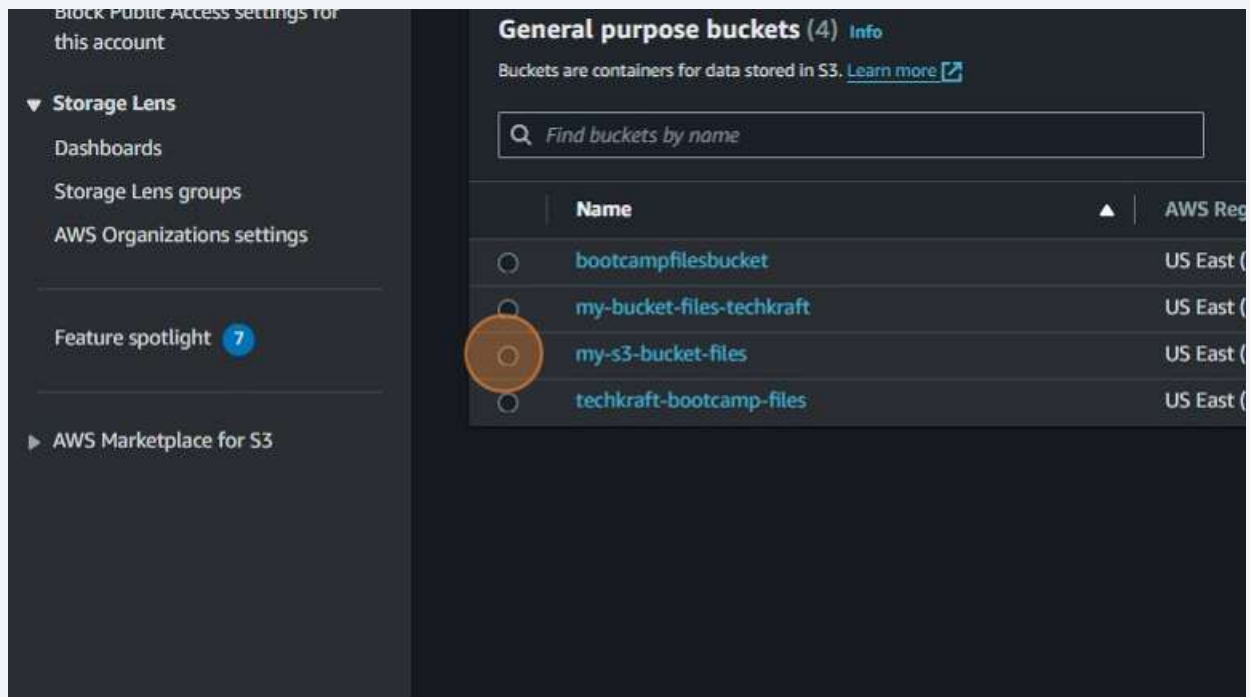
Navigate to <https://s3.console.aws.amazon.com/s3/object/my-s3-bucket-files?region=us-east-1&bucketType=general&prefix=1-20220101.json>

40

Click "Buckets"



41 Lists of buckets



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

43 Click "my-s3-bucket-files"

<input type="radio"/>	bootcampfilesbucket	US East (N. Virginia) us-east-1	Objects can be public	February 9, 2024, 22:40:21 (UTC+05:45)
<input type="radio"/>	my-bucket-files-techkraft	US East (N. Virginia) us-east-1	Objects can be public	February 13, 2024, 15:35:13 (UTC+05:45)
<input type="radio"/>	my-s3-bucket-2-files	US East (N. Virginia) us-east-1	Objects can be public	February 20, 2024, 12:24:45 (UTC+05:45)
<input checked="" type="radio"/>	my-s3-bucket-files	US East (N. Virginia) us-east-1	Objects can be public	February 13, 2024, 22:01:56 (UTC+05:45)
<input type="radio"/>	my-s3-bucket-files-3	US East (N. Virginia) us-east-1	Objects can be public	February 20, 2024, 12:28:03 (UTC+05:45)
<input type="radio"/>	s3-task1-bucket	US East (N. Virginia) us-east-1	Objects can be public	February 20, 2024, 11:03:53 (UTC+05:45)
<input type="radio"/>	static-website-	US East (N. Virginia) us-east-1		

44 Click "Permissions"

aws Services Search [Alt+S]

Amazon S3 > Buckets > my-s3-bucket-files

my-s3-bucket-files [Info](#)

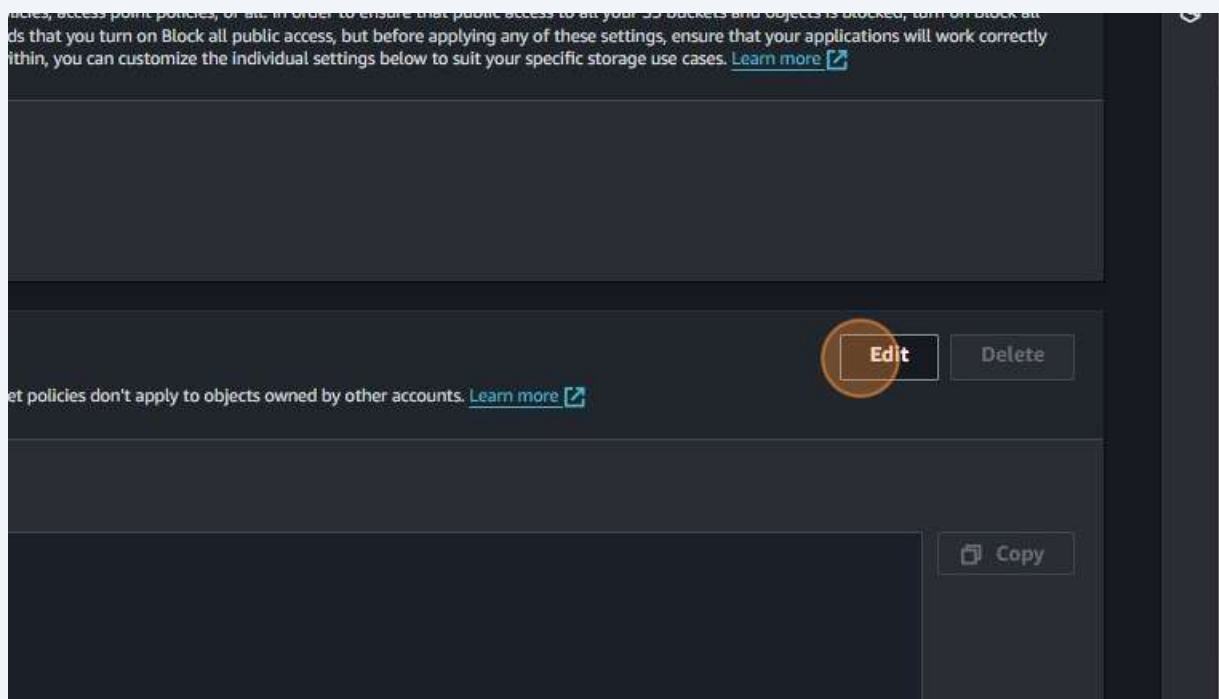
[Objects](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

Objects (1) [Info](#) [Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#)

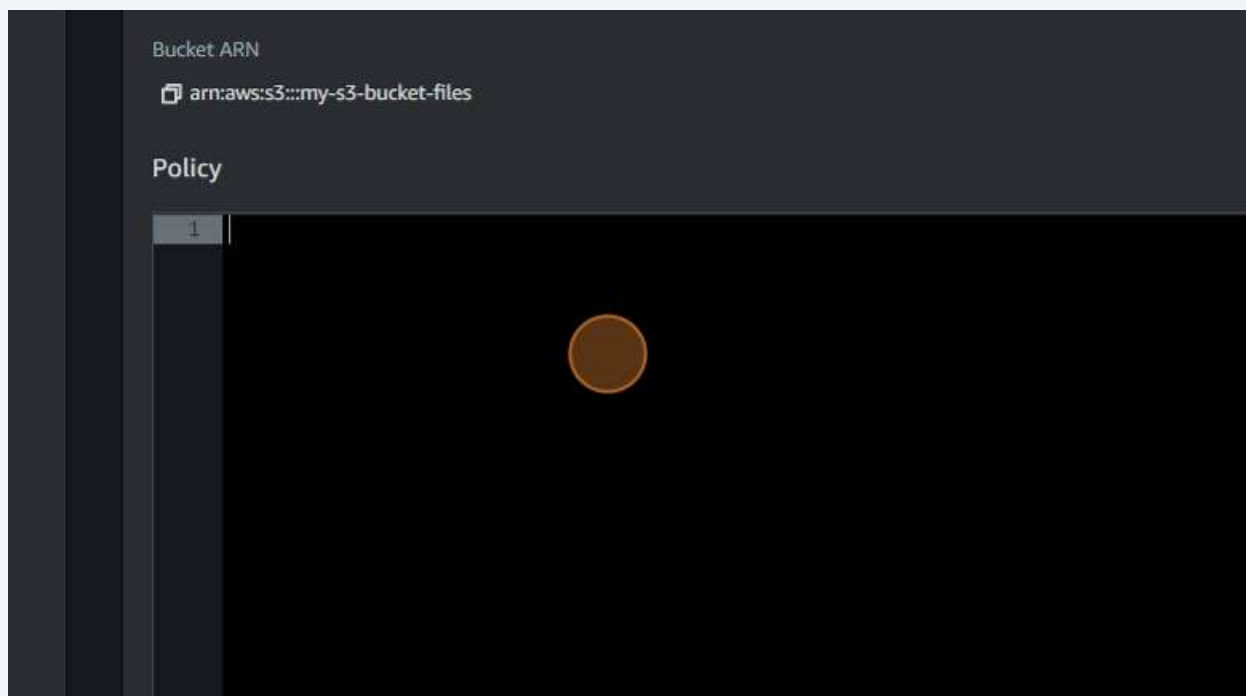
Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. [For more](#)

<input type="checkbox"/>	Name	Type	Last modified
<input type="checkbox"/>	1-20220101.json	json	February 13, 2024, 22:02:36 (UTC+05:45)

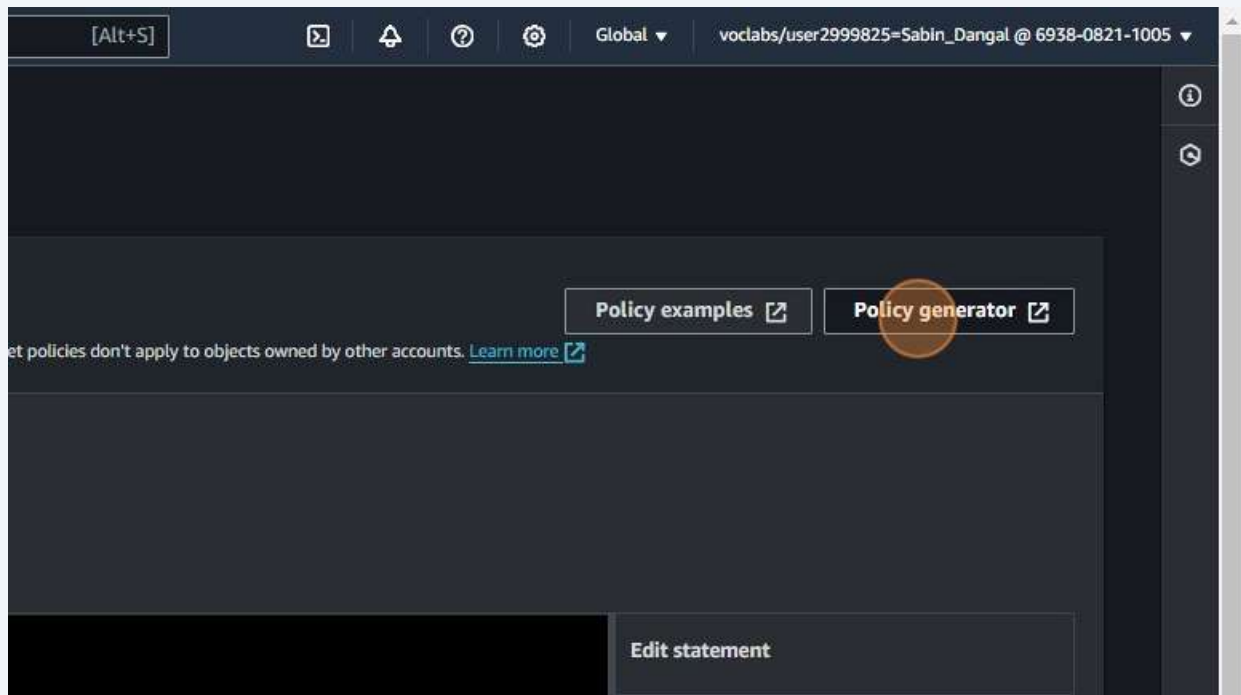
45 Click "Edit"



46 Click here.



47 Click "Policy generator"



48 Click this dropdown.

A screenshot of the AWS Policy Generator tool. The page title is 'AWS Policy Generator'. Below the title, there is a paragraph explaining the tool. The first step is 'Step 1: Select Policy Type'. Under this step, there is a dropdown menu labeled 'Select Type of Policy' with 'SQS Queue Policy' selected. This dropdown menu is highlighted with an orange circle. Below the first step, there is a second step 'Step 2: Add Statement(s)'. Under this step, there is a section for 'Effect' with radio buttons for 'Allow' (selected) and 'Deny'. Below the 'Effect' section, there is a 'Principal' input field. Below the 'Principal' field, there is a note 'Use a comma to separate multiple values.' Below the 'Principal' field, there is a section for 'AWS Service' with a dropdown menu showing 'Amazon SQS'. To the right of the 'AWS Service' dropdown, there is a checkbox labeled 'All Se'.

49 Click this radio button.

Step 1: Select Policy Type

A Policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, a VPC Endpoint Policy, and an SQS Queue Policy.

Select Type of Policy S3 Bucket Policy

Step 2: Add Statement(s)

A statement is the formal description of a single permission. See a [description of elements](#) that you can use in statements.

Effect ☒ Allow ☐ Deny

Principal

Use a comma to separate multiple values.

AWS Service Amazon S3 ☐ All Services

Use multiple statements to add permissions for more than one service.

Actions -- Select Actions -- ☐ All Actions ('*')

Amazon Resource Name (ARN)

ARN should follow the following format: `arn:aws:s3:::{BucketName}/{KeyName}`.
Use a comma to separate multiple values.

50 Click the "Principal" field.

A Policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, a VPC Endpoint Policy, and an SQS Queue Policy.

Select Type of Policy S3 Bucket Policy

Step 2: Add Statement(s)

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Effect ☐ Allow ☒ Deny

Principal

Use a comma to separate multiple values.

AWS Service Amazon S3 ☐ All Services

Use multiple statements to add permissions for more than one service.

Actions -- Select Actions -- ☐ All Actions ('*')

Amazon Resource Name (ARN)

ARN should follow the following format: `arn:aws:s3:::{BucketName}/{KeyName}`.
Use a comma to separate multiple values.

Add Conditions (Optional)

51 Type "*"

52 Click "-- Select Actions --"

Step 2: Add Statement(s)

A statement is the formal description of a single permission. See a [description of elements](#) that you can use in state

Effect ☐ Allow ☒ Deny

Principal *

Use a comma to separate multiple values.

AWS Service Amazon S3 ☐ All S

Use multiple statements to add permissions for more than one service.

Actions -- Select Actions -- ☐ All Actions (*)

Amazon Resource Name (ARN)

ARN should follow the following format: arn:aws:s3:::\${BucketName}/\${KeyName}.
Use a comma to separate multiple values.

Add Conditions (Optional)

Add Statement

No Action selected. You must select at least one Action

Step 3: Generate Policy

53

Click "Effect
Allow Deny
Principal

Use a comma to separate multiple values.

AWS Service
AWS Account Management
AWS Activate
AWS Amplify
AWS Amplify..."

Principal *

Use a comma to separate multiple values.

AWS Service Amazon S3

Use multiple statements to add permissions for more than one service.

Actions -- Select Actions -- ☐ All Actions ('*') (BucketName)/\${KeyName}

Amazon Resource Name (ARN)

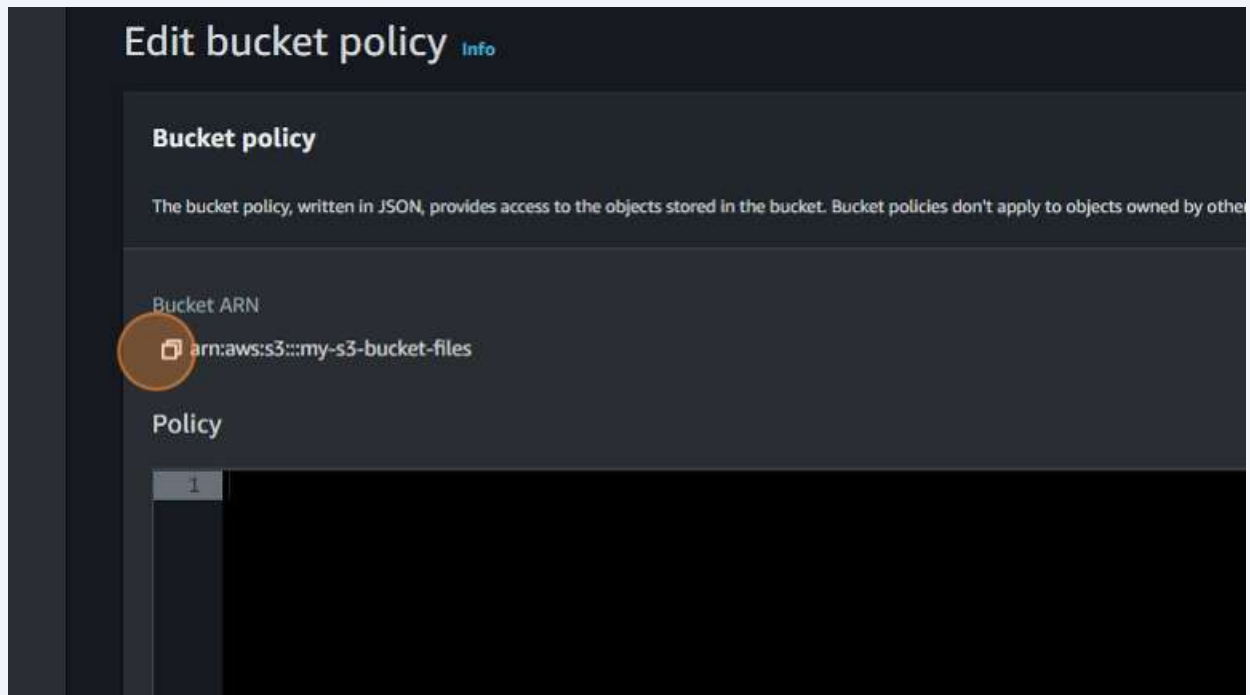
☐ DeleteBucketWebsite
☐ DeleteJobTagging
☐ DeleteMultiRegionAccessPoint
☐ DeleteObject
☐ DeleteObjectTagging
☐ DeleteObjectVersion
☐ DeleteObjectVersionTagging
☐ DeleteStorageLensConfiguration

Step 3: Generate Policy

A *policy* is a document (written in the [Access Policy Language](#)) that acts as a container for one or more statements.

Add one or more statements above to generate a policy.

54 Click here.



55 Click the "Amazon Resource Name (ARN)" field.

A statement is the formal description of a single permission. See [a description of elements that you can use in a policy](#).

Effect ☐ Allow ☒ Deny

Principal *

Use a comma to separate multiple values.

AWS Service Amazon S3 ☐

Use multiple statements to add permissions for more than one service.

Actions -- Select Actions -- ☐ All Actions (*)

Amazon Resource Name (ARN) *

ARN should follow the following format: arn:aws:s3:::\${BucketName}/\${KeyName}.
Use a comma to separate multiple values.

[Add Conditions \(Optional\)](#)

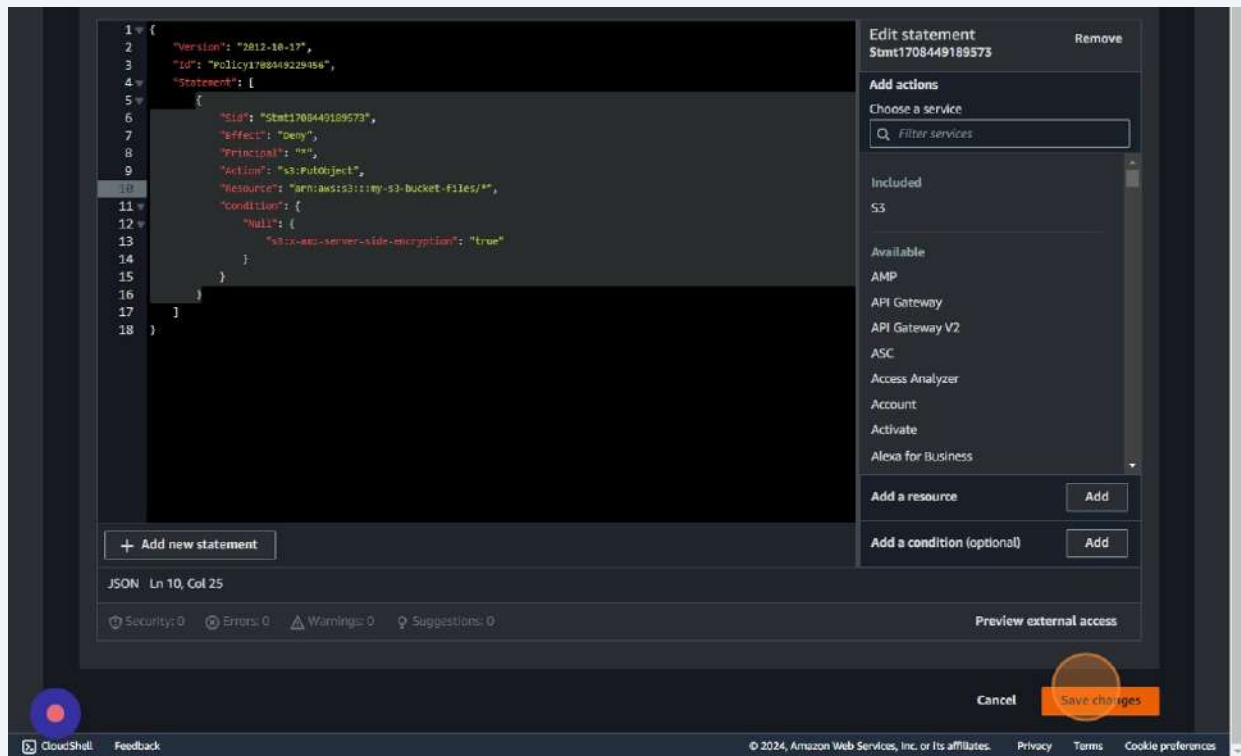
No Action selected. You must select at least one

Step 3: Generate Policy

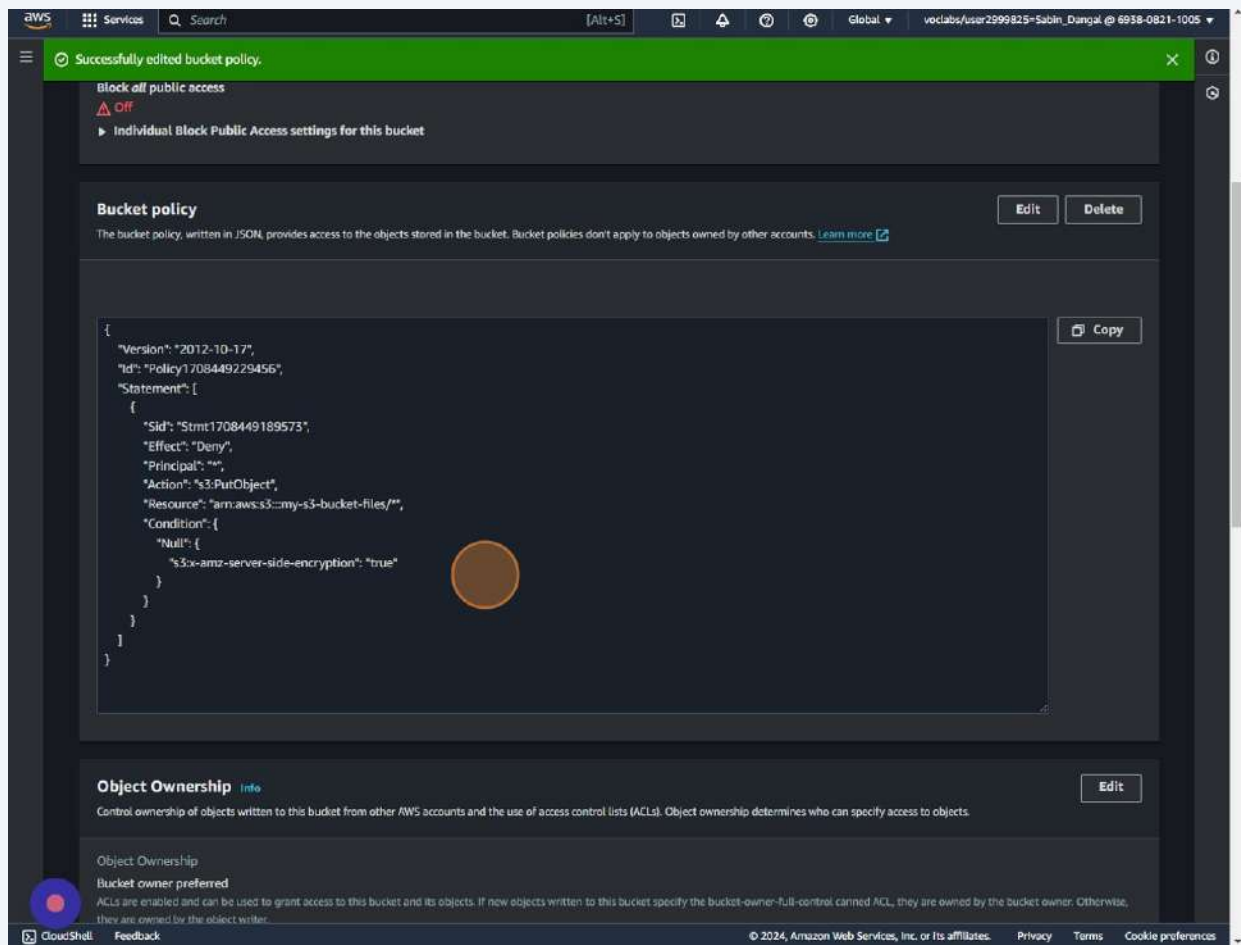
A *policy* is a document (written in the [Access Policy Language](#)) that acts as a container for one or more statements.

~~Add one or more statements above to generate a policy.~~

56 Click "Save changes"



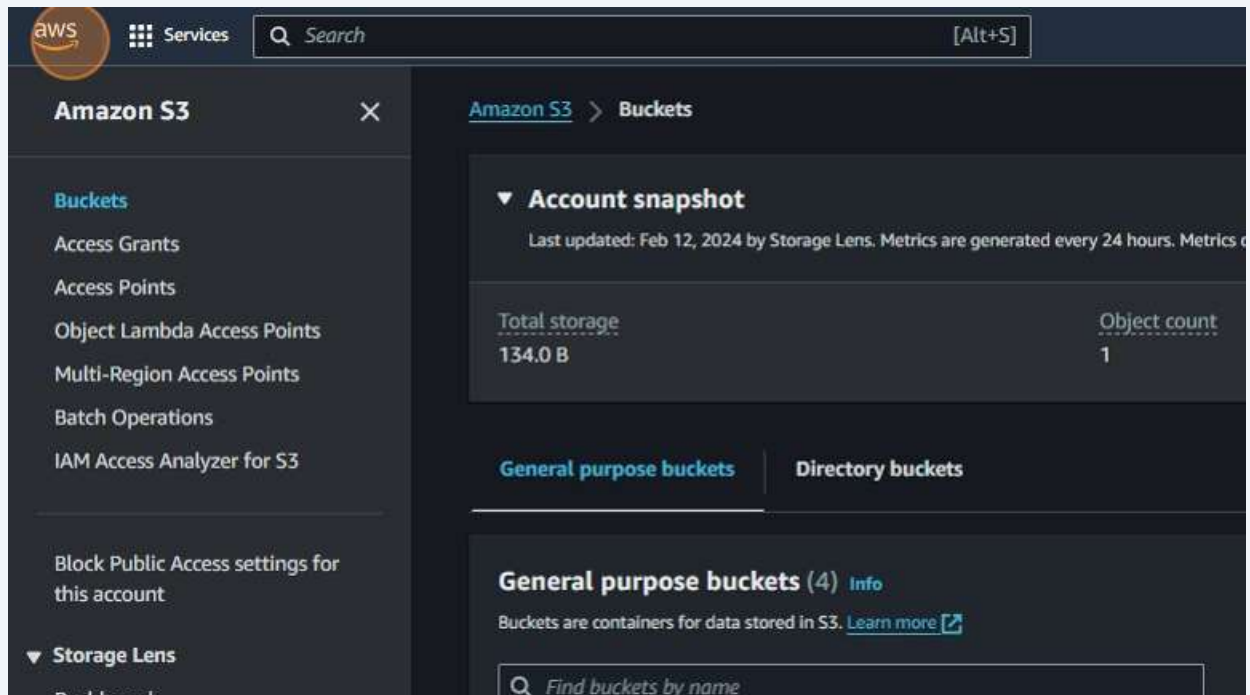
57 Click this field.



IAM Users and Roles Lab

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

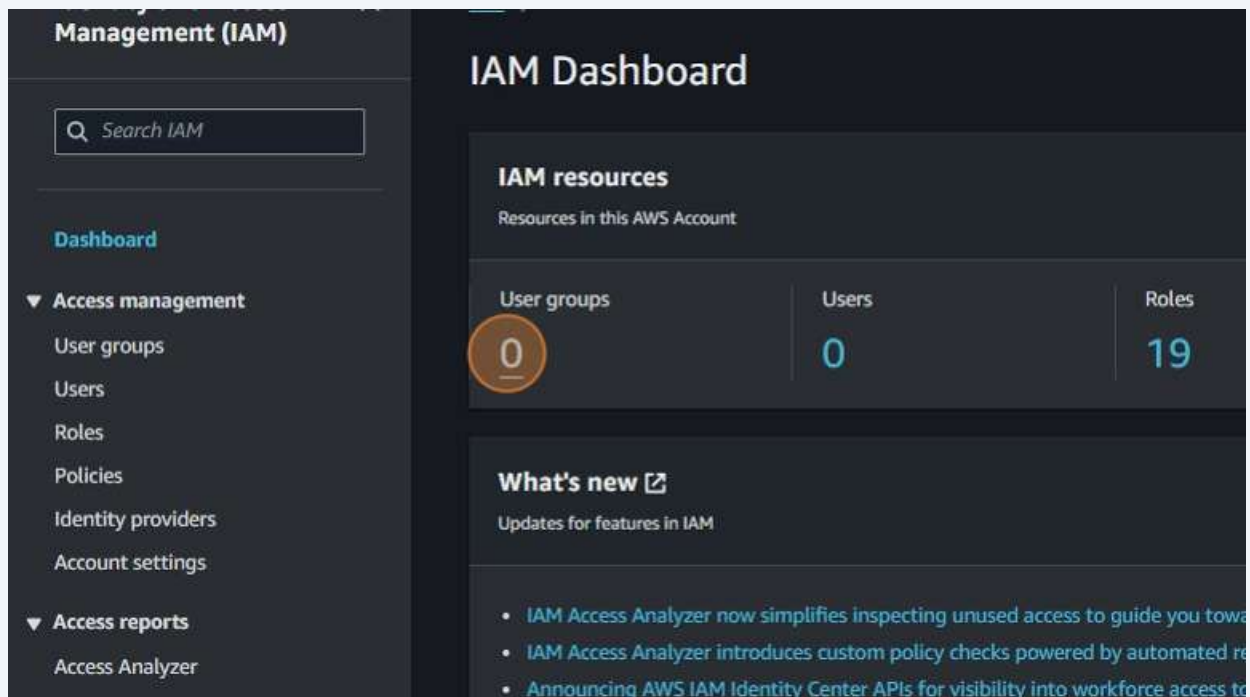
59 Click this link.



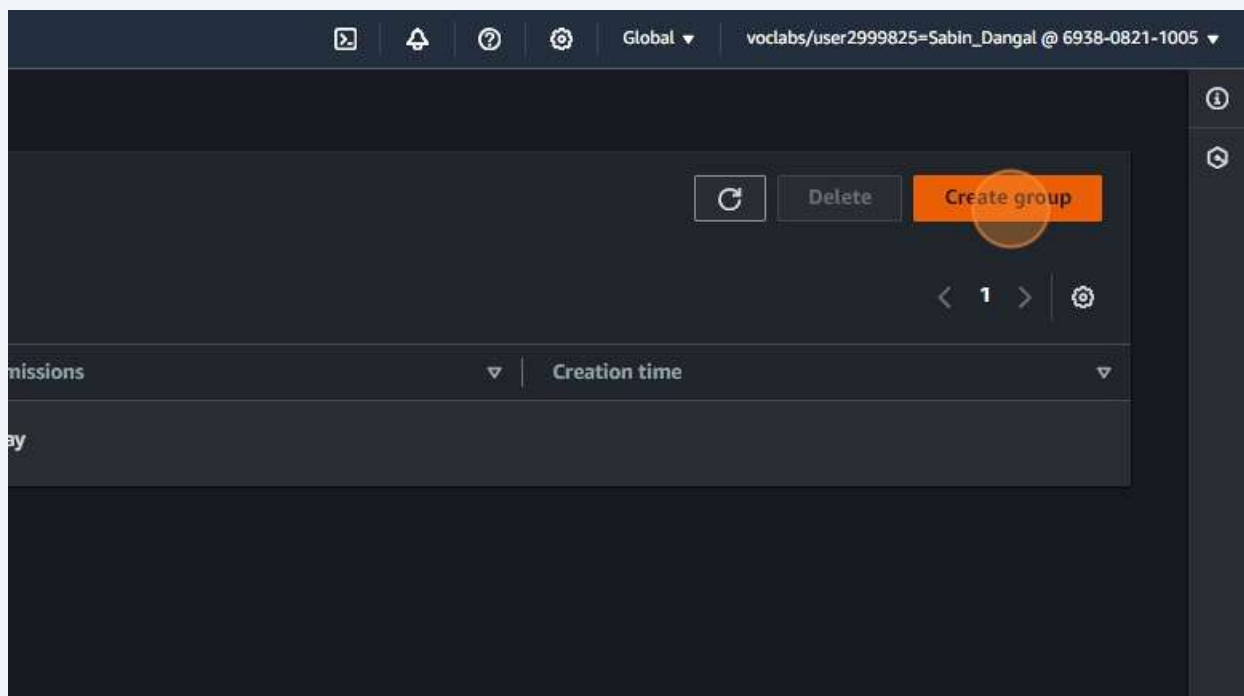
60 Click "IAM"



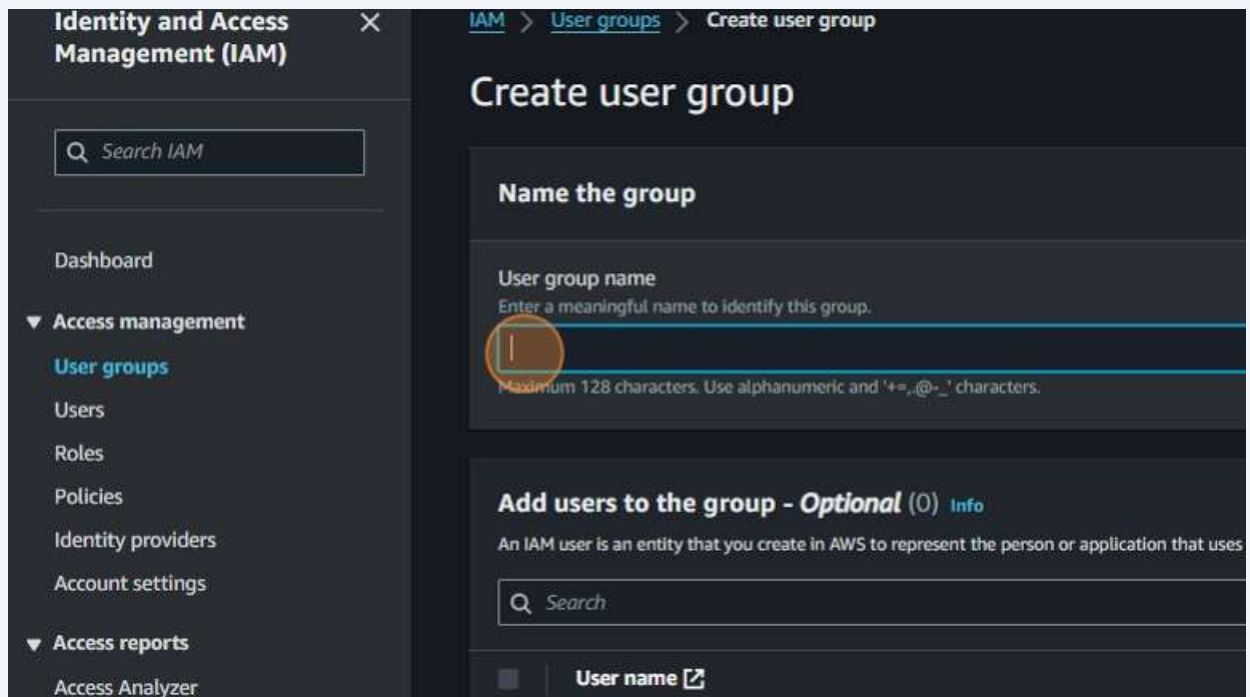
61 Click "0"



62 Click "Create group"



63 Click the "User group name" field.



64 Type "my-user-group"

65 Click this checkbox.

The screenshot shows the AWS IAM console interface. On the left is a navigation sidebar with 'Identity and Access Management (IAM)' selected. The main content area is titled 'Attach permissions policies - Optional (916) Info'. Below the title is a search bar and a table of policies. The first checkbox in the table is highlighted with a red circle.

<input type="checkbox"/>	Policy name	Type
<input type="checkbox"/>	AdministratorAccess	AWS
<input type="checkbox"/>	AdministratorAccess-Amplify	AWS
<input type="checkbox"/>	AdministratorAccess-AWSElasticBeanstalk	AWS
<input type="checkbox"/>	AlexaForBusinessDeviceSetup	AWS
<input type="checkbox"/>	AlexaForBusinessFullAccess	AWS
<input type="checkbox"/>	AlexaForBusinessGatewayExecution	AWS

66 Click "Create group"

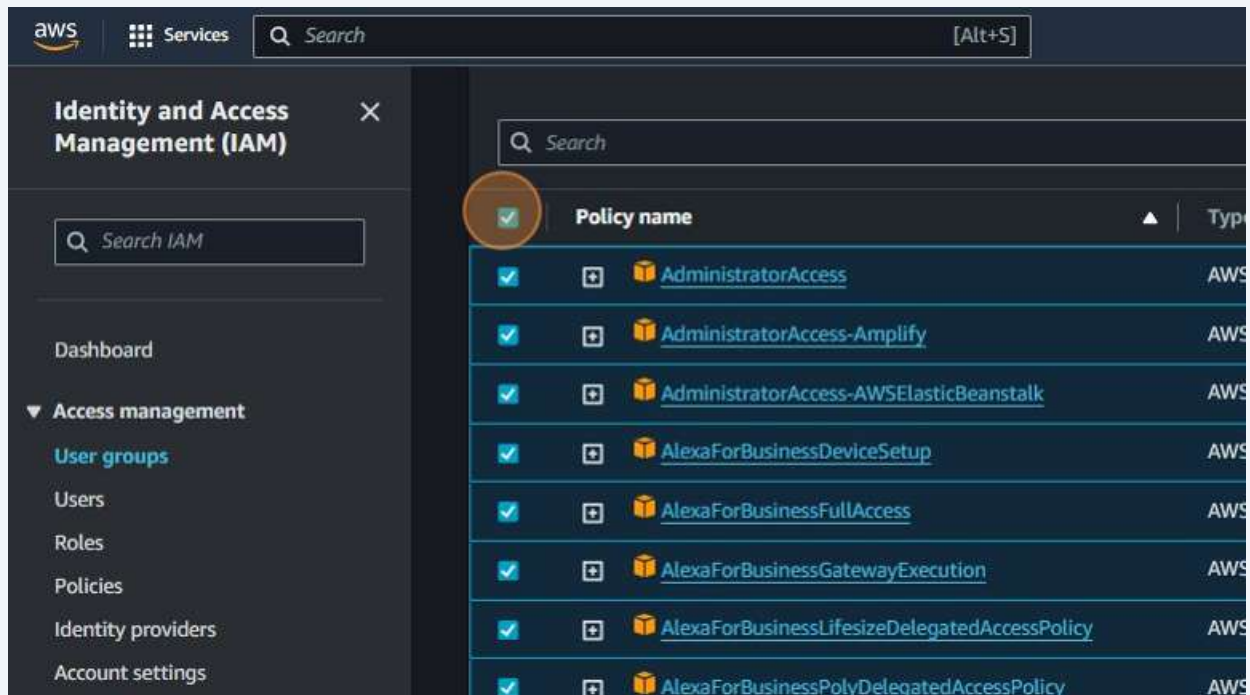
The screenshot shows the 'Create group' dialog in the AWS IAM console. It features a table with columns for 'None' and a description of the policy. At the bottom right, the 'Create group' button is highlighted with a red circle.

None	Allows API Gateway to push logs to us...
None	Provides full access to Amazon AppFlo...
None	Provides read only access to Amazon A...
None	Provides full access to Amazon AppStr...
None	Amazon AppStream 2.0 access to AWS...
None	Provides read only access to Amazon A...
None	Default policy for Amazon AppStream ...
None	Provide full access to Amazon Athena ...
None	Provides access to perform all operati...

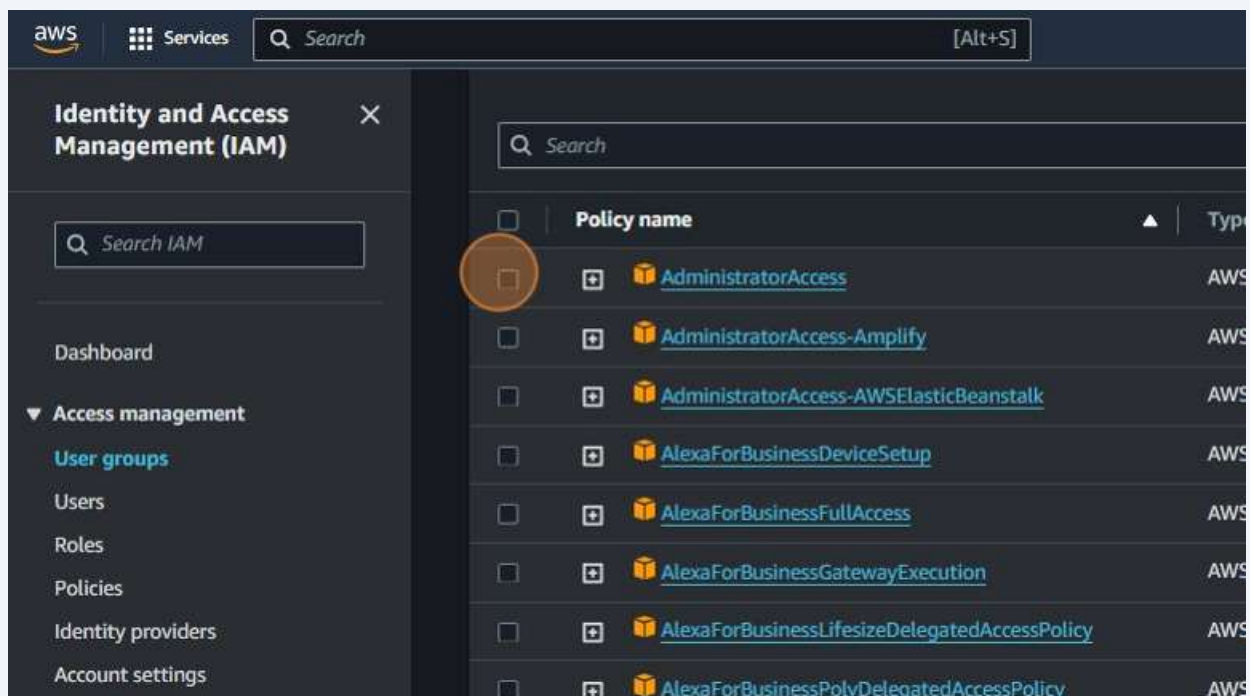
Cancel Create group

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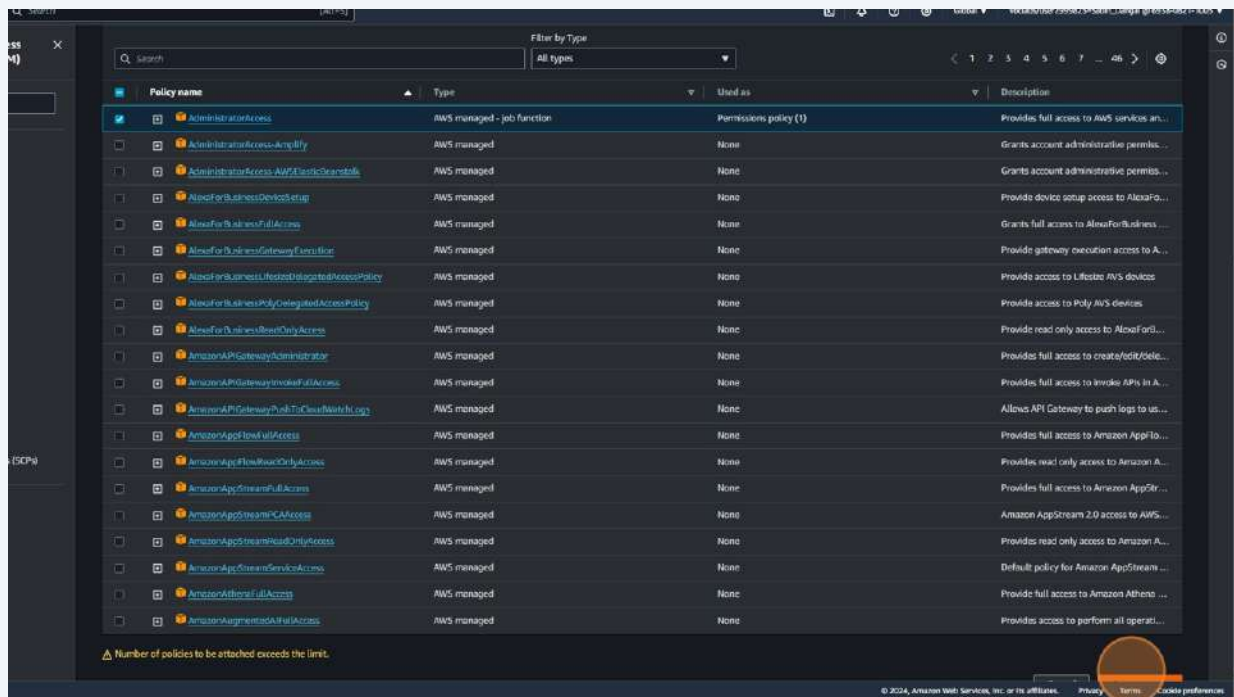
67 Click this checkbox.



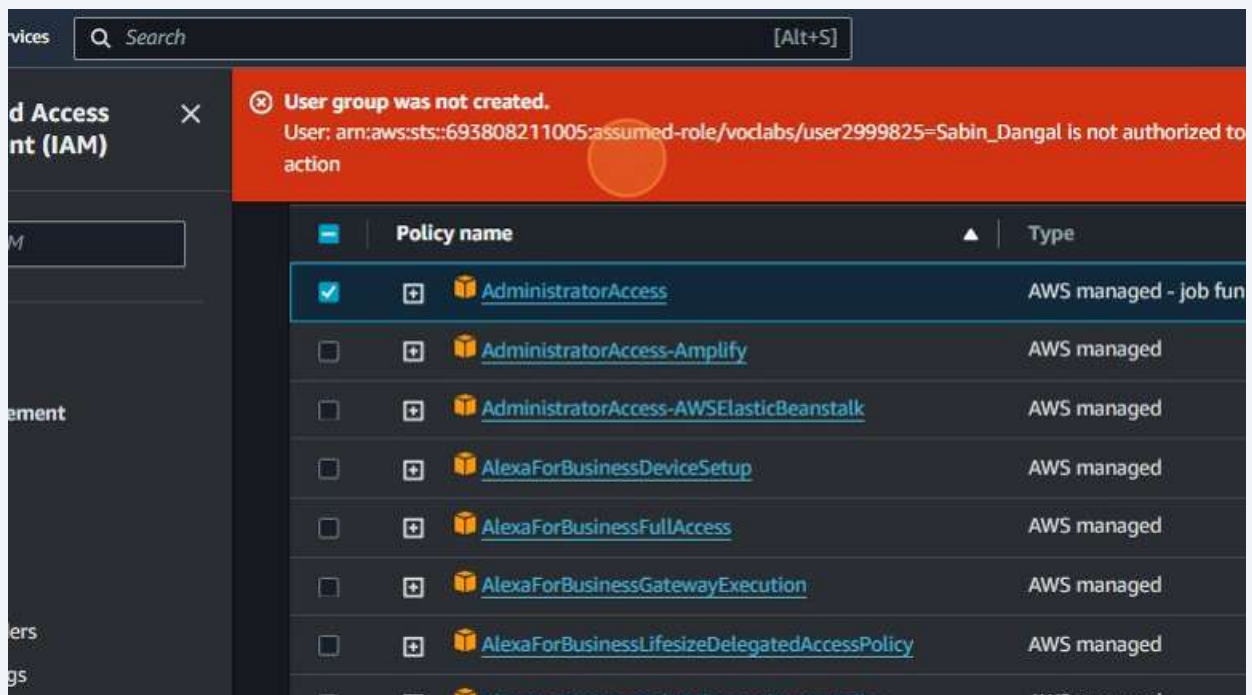
68 Click this checkbox.



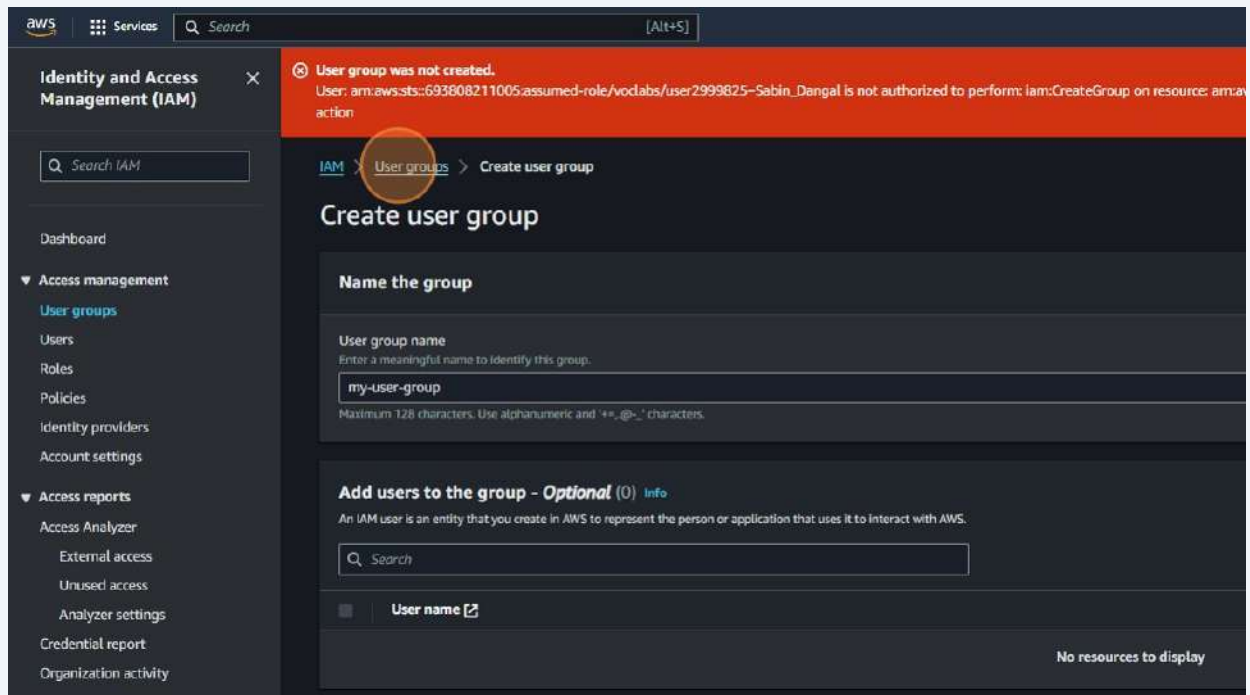
69 Click "Create group"



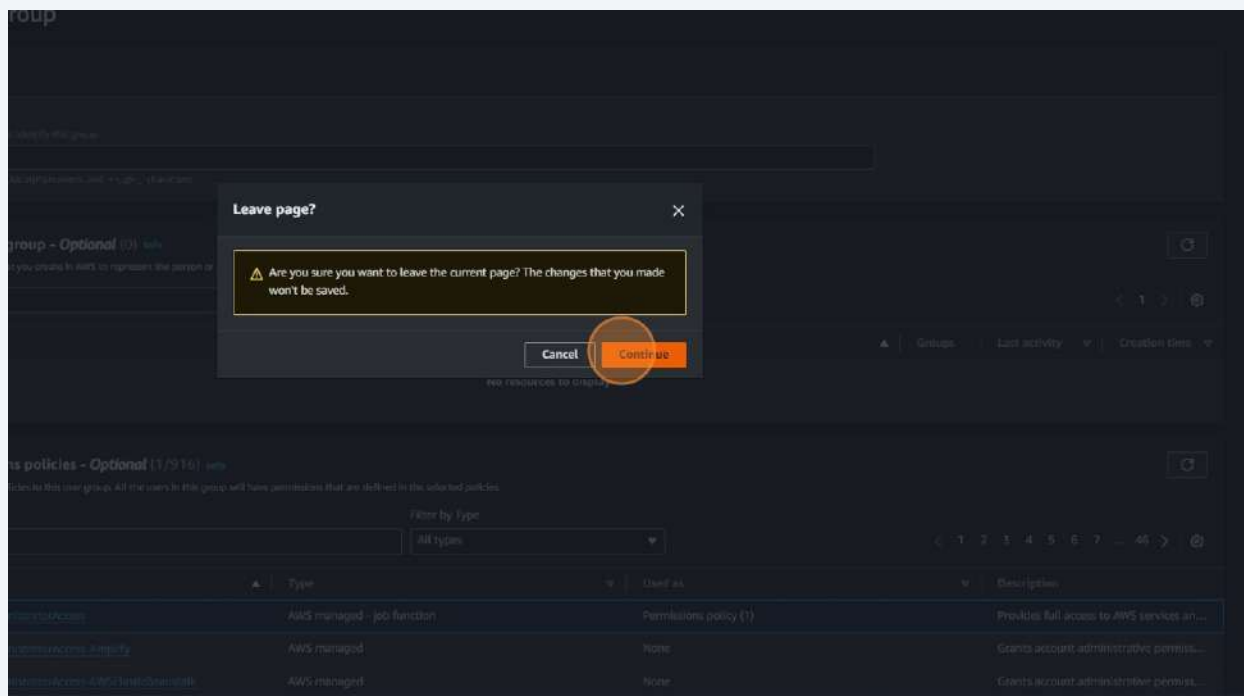
70 Click "User: arn:aws:sts::693808211005:assumed-role/voclabs/user2999825=Sabin_Dangal is not authorized to perform: iam:CreateGroup on resource: arn:aws:iam::693808211005:group/":



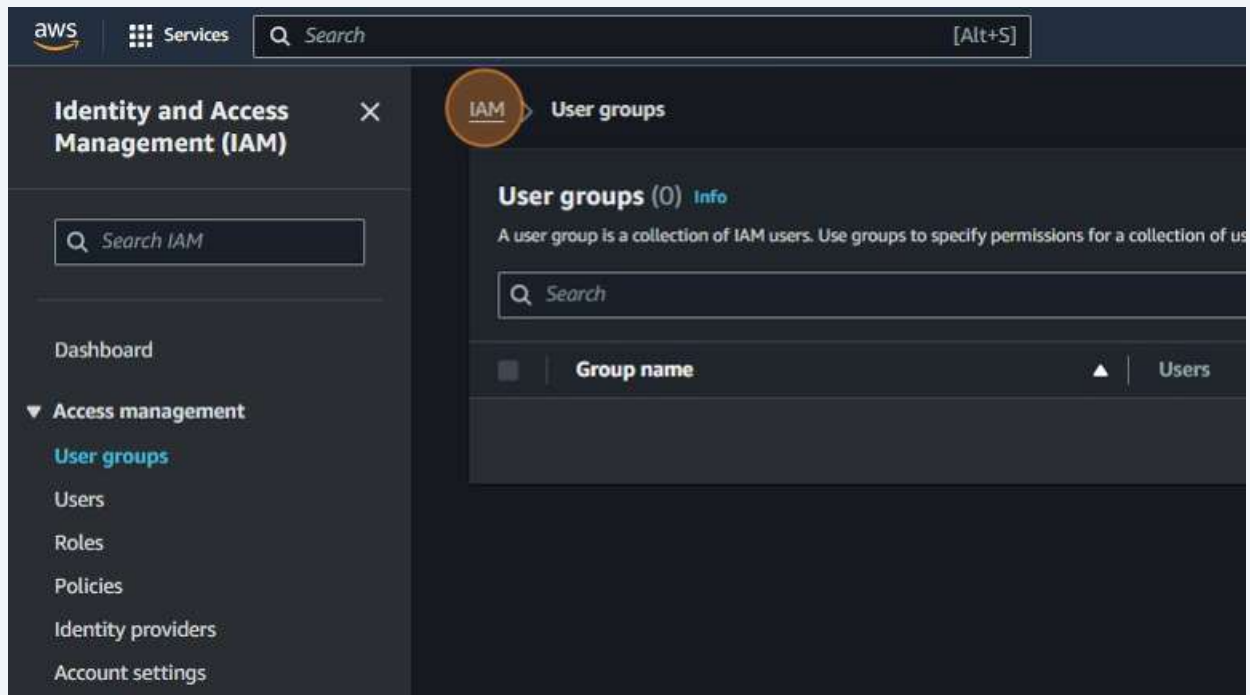
71 Click "User groups"



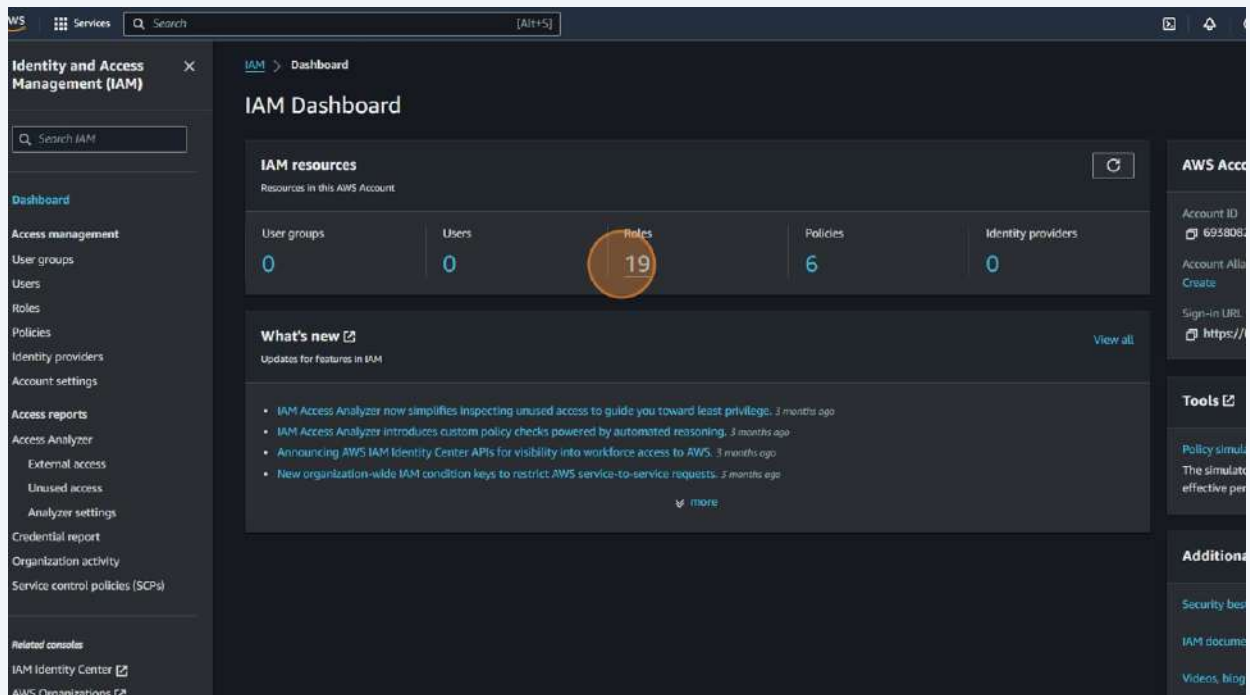
72 Click "Continue"



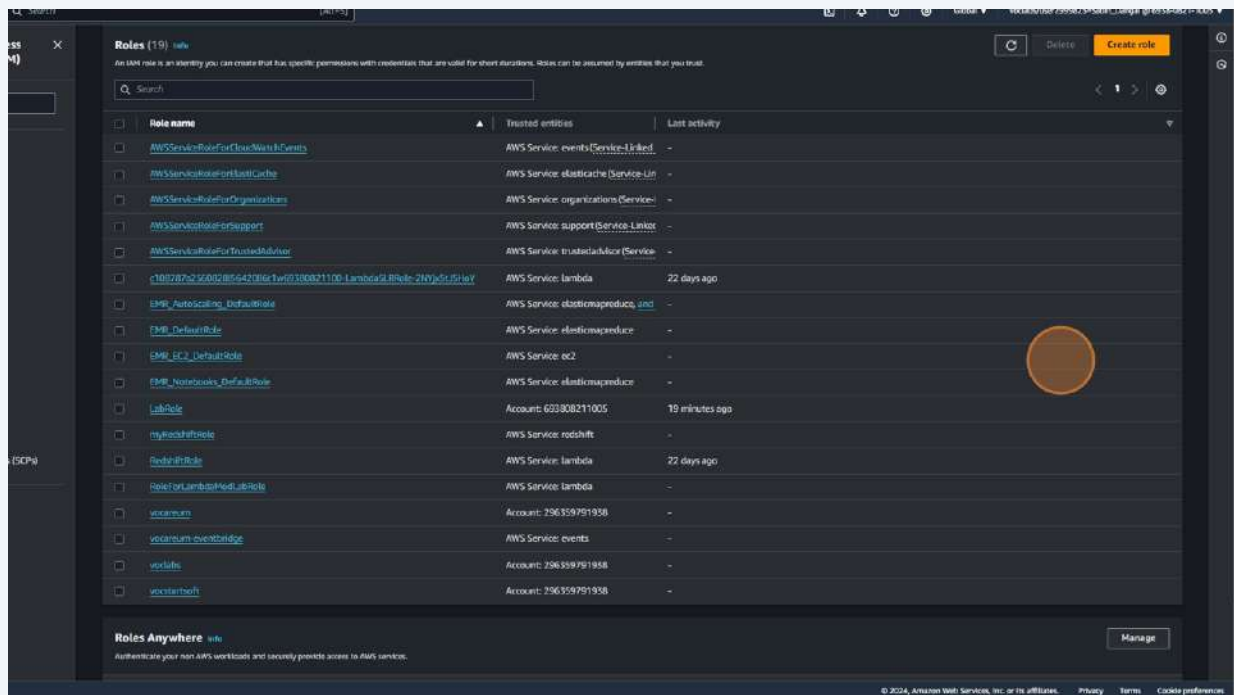
73 Click "IAM"



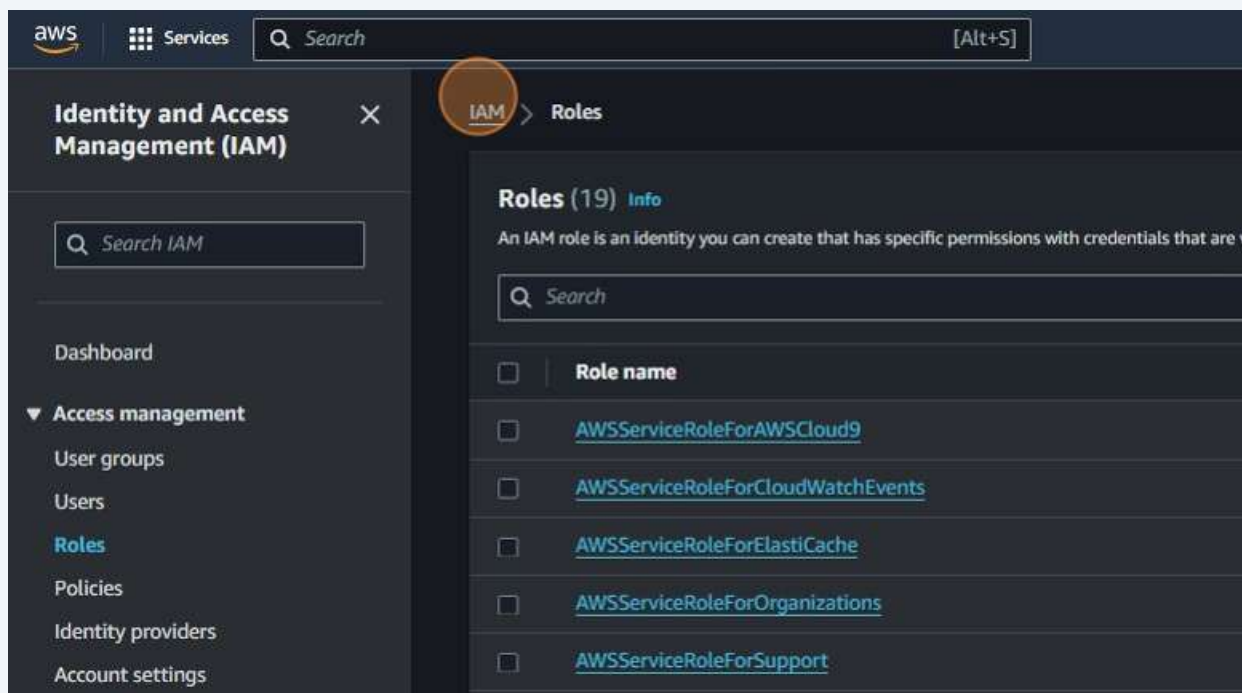
74 Click on the roles



75 Roles List

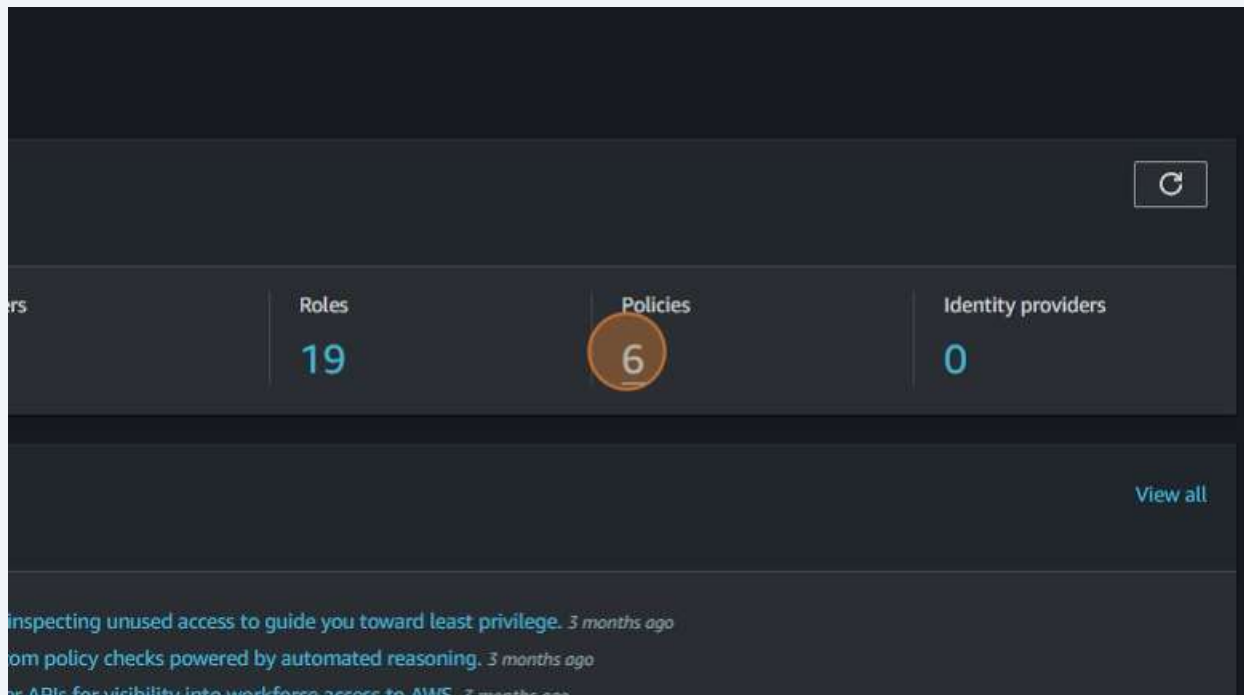


76 Click "IAM"



77

Click on policies



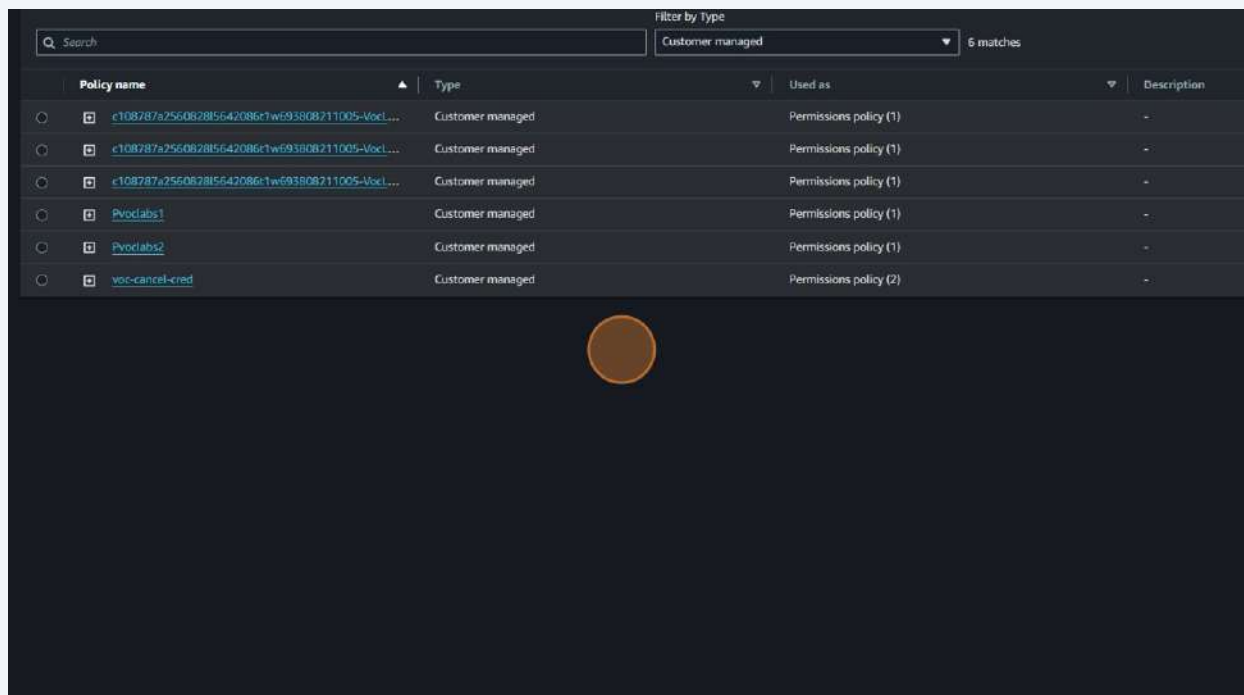
78

Click "IAM
Policies
Policies (1179)

Info
Actions
Delete
Create policy

A policy is an object in AWS that defines permissions.

Filter by Type
Custom...



Search		Filter by Type	Customer managed 6 matches	
Policy name	Type	Used as	Description	
c108787a7550828f5642086c1w693808211005-VocL...	Customer managed	Permissions policy (1)	-	
c108787a7550828f5642086c1w693808211005-VocL...	Customer managed	Permissions policy (1)	-	
c108787a7550828f5642086c1w693808211005-VocL...	Customer managed	Permissions policy (1)	-	
Pvoclabs1	Customer managed	Permissions policy (1)	-	
Pvoclabs2	Customer managed	Permissions policy (1)	-	
voc-cancel-cred	Customer managed	Permissions policy (2)	-	

79 Click "Customer managed"

Filter by Type

Customer managed 6 matches

Type	Used as
Customer managed	Permissions policy (1)
Customer managed	Permissions policy (1)
Customer managed	Permissions policy (1)
Customer managed	Permissions policy (1)
Customer managed	Permissions policy (1)
Customer managed	Permissions policy (2)

80 Click "IAM"

aws Services Search [Alt+S]

Identity and Access Management (IAM) X

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles
- Policies**
- Identity providers
- Account settings

IAM > Policies

Policies (1179) Info

A policy is an object in AWS that defines permissions.

Search

Policy name	Type
c108787a256082815642086t1w693808211005-VocL...	Cust
c108787a256082815642086t1w693808211005-VocL...	Cust
c108787a256082815642086t1w693808211005-VocL...	Cust
Pvoclabs1	Cust
Pvoclabs2	Cust

81

Navigate to

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

82

Click "IAM"



83 Click "3"

The screenshot shows the AWS IAM Dashboard. On the left is a navigation pane for 'Identity and Access Management (IAM)' with a search bar and a list of links: Dashboard, Access management (expanded), Access reports, and their sub-items. The main content area is titled 'IAM Dashboard' and shows 'IAM resources' in the current AWS Account. A table lists 'User groups' (3), 'Users' (4), and 'Roles' (14). The number '3' is circled in orange. Below this is a 'What's new' section with updates for IAM features.

User groups	Users	Roles
3	4	14

84 Click this checkbox.

The screenshot shows the 'User groups' page in the AWS IAM console. The left navigation pane is the same as in the previous screenshot, but 'User groups' is selected. The main content area shows 'User groups (3)' with an 'Info' link. A description states: 'A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.' Below this is a search bar and a table with three user groups. The first checkbox in the table is circled in orange.

<input type="checkbox"/>	Group name	Users
<input type="checkbox"/>	EC2-Admin	
<input type="checkbox"/>	EC2-Support	
<input type="checkbox"/>	S3-Support	

85 Click "EC2-Admin"

The screenshot shows the AWS IAM console. On the left, the 'Identity and Access Management (IAM)' sidebar is visible with a search bar and a list of navigation items: Dashboard, Access management (expanded), User groups (selected), Users, Roles, Policies, Identity providers, Account settings, and Access reports. The main content area is titled 'IAM > User groups'. It shows 'User groups (3/3)' with an 'Info' link. Below this is a search bar and a table with columns 'Group name' and 'Users'. The table lists three groups: 'EC2-Admin', 'EC2-Support', and 'S3-Support'. The 'EC2-Admin' group is highlighted with an orange circle.

Group name	Users
EC2-Admin	
EC2-Support	
S3-Support	

86 Click "IAM"

The screenshot shows the AWS IAM console. On the left, the 'Identity and Access Management (IAM)' sidebar is visible with a search bar and a list of navigation items: Dashboard, Access management (expanded), User groups (selected), Users, Roles, Policies, Identity providers, Account settings, and Access reports. The main content area is titled 'IAM > User groups > EC2-Admin'. It shows 'EC2-Admin' with an 'Info' link. Below this is a 'Summary' section with the 'User group name' 'EC2-Admin'. At the bottom, there are tabs for 'Users', 'Permissions', and 'Access Advisor'. The 'Users' tab is selected, showing 'Users in this group (0)'. The 'IAM' breadcrumb is highlighted with an orange circle.

Summary

User group name
EC2-Admin

Users | Permissions | Access Advisor

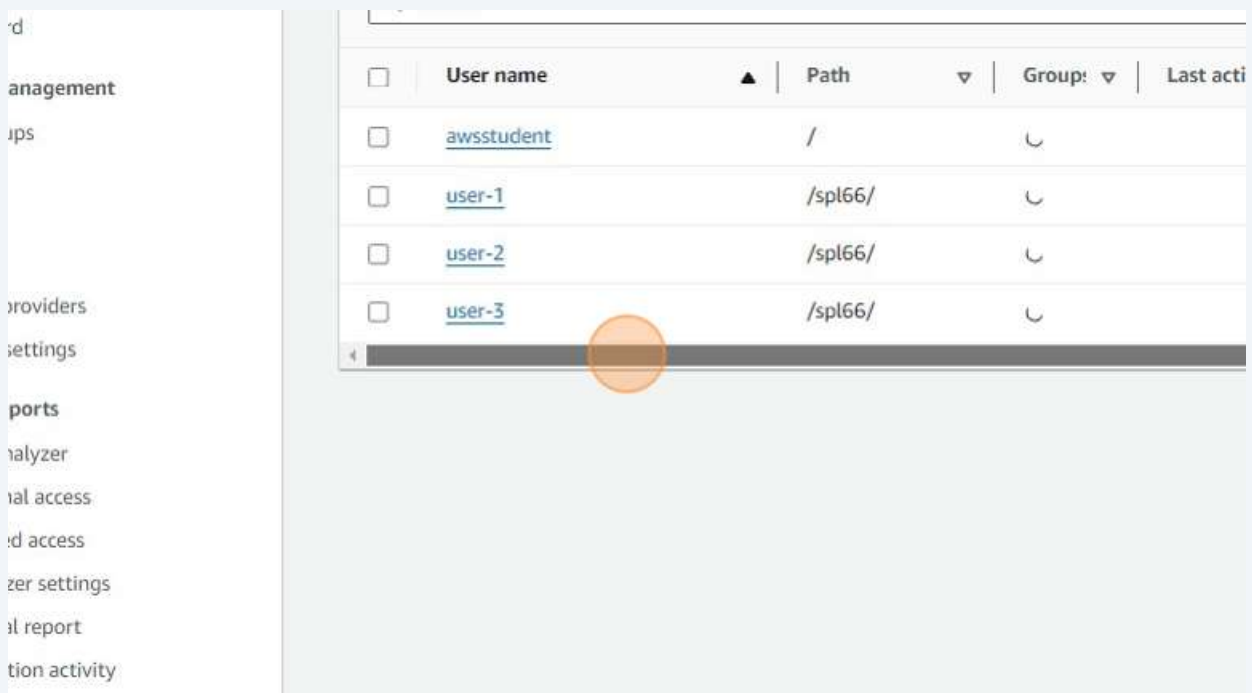
Users in this group (0)

An IAM user is an entity that you create in AWS to represent the person or application that uses

87 Click "4"



88 [Click here.](#)



89 Click this checkbox.

The screenshot shows the AWS IAM console interface. On the left is a navigation sidebar with the title 'Identity and Access Management (IAM)' and a search bar labeled 'Search IAM'. Below the search bar are sections for 'Dashboard', 'Access management' (containing links for User groups, Users, Roles, Policies, Identity providers, and Account settings), and 'Access reports'. The main content area is titled 'IAM > Users' and shows 'Users (4) Info'. A description states: 'An IAM user is an identity with long-term credentials that is used to interact with AWS in an account'. Below this is another search bar labeled 'Search'. A table lists the users, with an orange circle highlighting the checkbox in the first row. The table has columns for 'User name', 'Path', and 'Group!'. The first row is for 'awsstudent' with path '/' and a red 'Access denied' status. The other three rows are for 'user-1', 'user-2', and 'user-3', all with path '/spl66/' and a status of '0'.

<input type="checkbox"/>	User name	Path	Group!
<input type="checkbox"/>	awsstudent	/	Access denied
<input type="checkbox"/>	user-1	/spl66/	0
<input type="checkbox"/>	user-2	/spl66/	0
<input type="checkbox"/>	user-3	/spl66/	0

90 Click this checkbox.

This screenshot is identical to the previous one, but the checkbox for the 'awsstudent' user is now checked, indicated by a blue checkmark. The title in the main content area has changed to 'Users (4/4) Info'.

<input checked="" type="checkbox"/>	User name	Path	Group!
<input checked="" type="checkbox"/>	awsstudent	/	Access denied
<input checked="" type="checkbox"/>	user-1	/spl66/	0
<input checked="" type="checkbox"/>	user-2	/spl66/	0
<input checked="" type="checkbox"/>	user-3	/spl66/	0

91 Click "IAM"

The screenshot shows the AWS IAM console. The left sidebar contains the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, User groups, Users, Roles, Policies, Identity providers, and Account settings. The main content area is titled 'Users (4) Info' and shows a table of users. The 'Users' link in the breadcrumb is highlighted with an orange circle.

<input type="checkbox"/>	User name	Path	Group!
<input type="checkbox"/>	awsstudent	/	Access denied
<input type="checkbox"/>	user-1	/spl66/	0
<input type="checkbox"/>	user-2	/spl66/	0
<input type="checkbox"/>	user-3	/spl66/	0

92 Click "3"

The screenshot shows the AWS IAM console's 'IAM Dashboard'. The left sidebar contains the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, User groups, Users, Roles, Policies, Identity providers, Account settings, Access reports, and Access Analyzer. The main content area is titled 'IAM Dashboard' and shows a summary of IAM resources. The 'User groups' card shows a count of 3, which is highlighted with an orange circle.

User groups	Users	Roles
3	4	14

What's new

- IAM Access Analyzer now simplifies inspecting unused access to guide you toward
- IAM Access Analyzer introduces custom policy checks powered by automated re
- Announcing AWS IAM Identity Center APIs for visibility into workforce access to

93 Click "EC2-Admin"

The screenshot shows the AWS IAM console interface. On the left is a sidebar with the 'Identity and Access Management (IAM)' header and a search bar. Below the search bar are navigation links: 'Dashboard', 'Access management' (expanded), 'User groups' (selected), 'Users', 'Roles', 'Policies', 'Identity providers', 'Account settings', and 'Access reports'. The main content area is titled 'IAM > User groups'. It includes a 'User groups (3) Info' section with a description: 'A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.' Below this is a search bar and a table of user groups. The table has columns for 'Group name' and 'Users'. The 'EC2-Admin' group is highlighted with an orange circle. The other groups listed are 'EC2-Support' and 'S3-Support'.

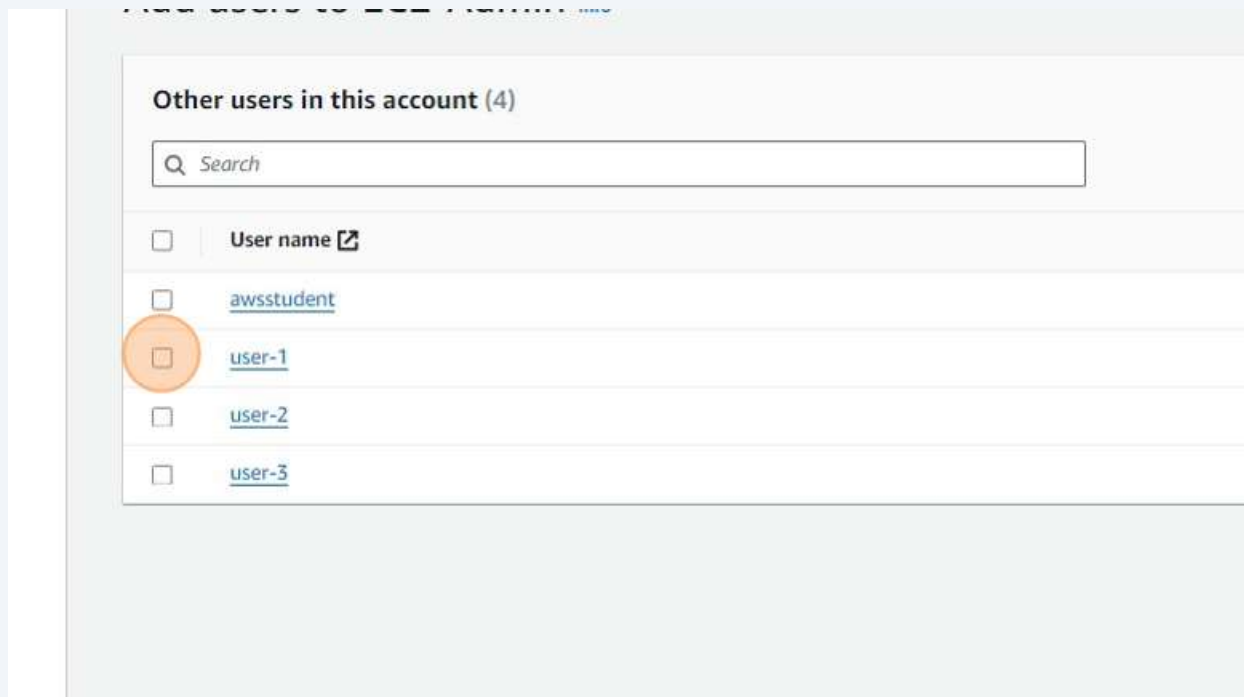
<input type="checkbox"/>	Group name	Users
<input type="checkbox"/>	<u>EC2-Admin</u>	
<input type="checkbox"/>	<u>EC2-Support</u>	
<input type="checkbox"/>	<u>S3-Support</u>	

94 Click "Add users"

The screenshot shows a detailed view of the 'EC2-Admin' user group. At the top, the 'ARN' is displayed as 'arn:aws:iam::381492217946:group/spl66/EC2-Admin'. Below this, there are three buttons: a refresh button (circular arrow), a 'Remove' button, and an 'Add users' button, which is highlighted with an orange circle. At the bottom, there is a pagination bar showing '< 1 >' and a settings gear icon. Below the pagination bar is a table header with columns: 'Groups', 'Last activity', and 'Creation time'.

Groups	Last activity	Creation time
--------	---------------	---------------

95 Click this checkbox.

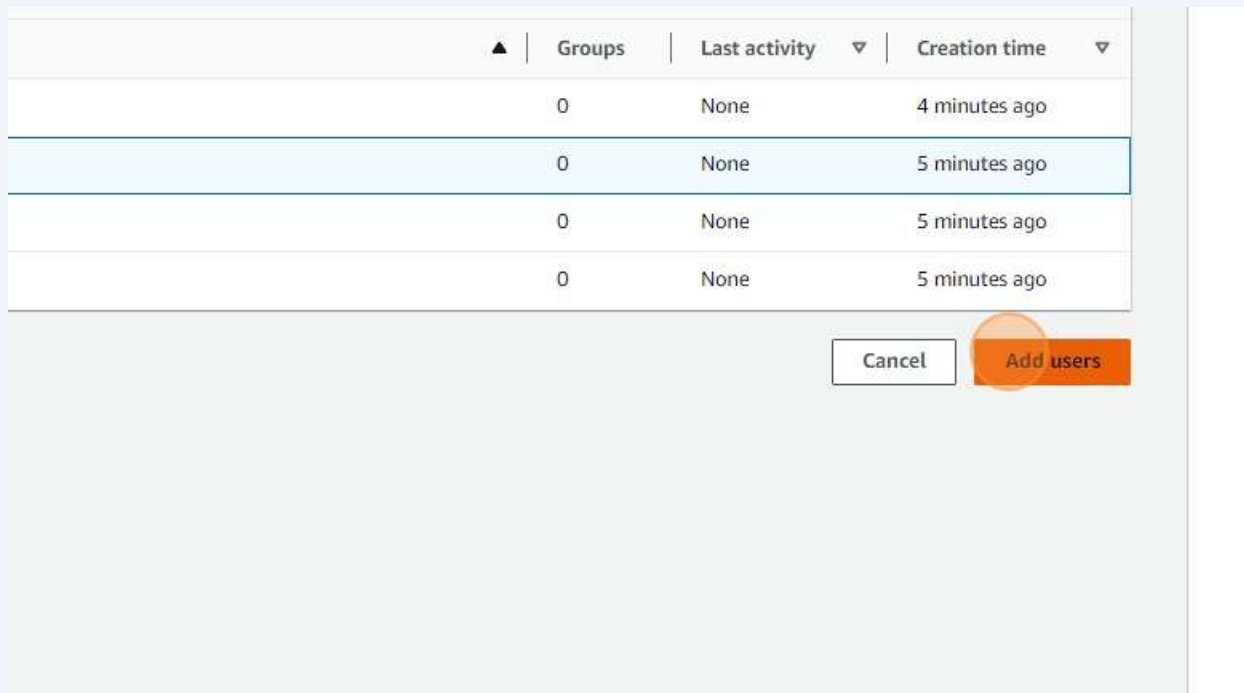


Other users in this account (4)

Search

<input type="checkbox"/>	User name ↗
<input type="checkbox"/>	awsstudent
<input checked="" type="checkbox"/>	user-1
<input type="checkbox"/>	user-2
<input type="checkbox"/>	user-3

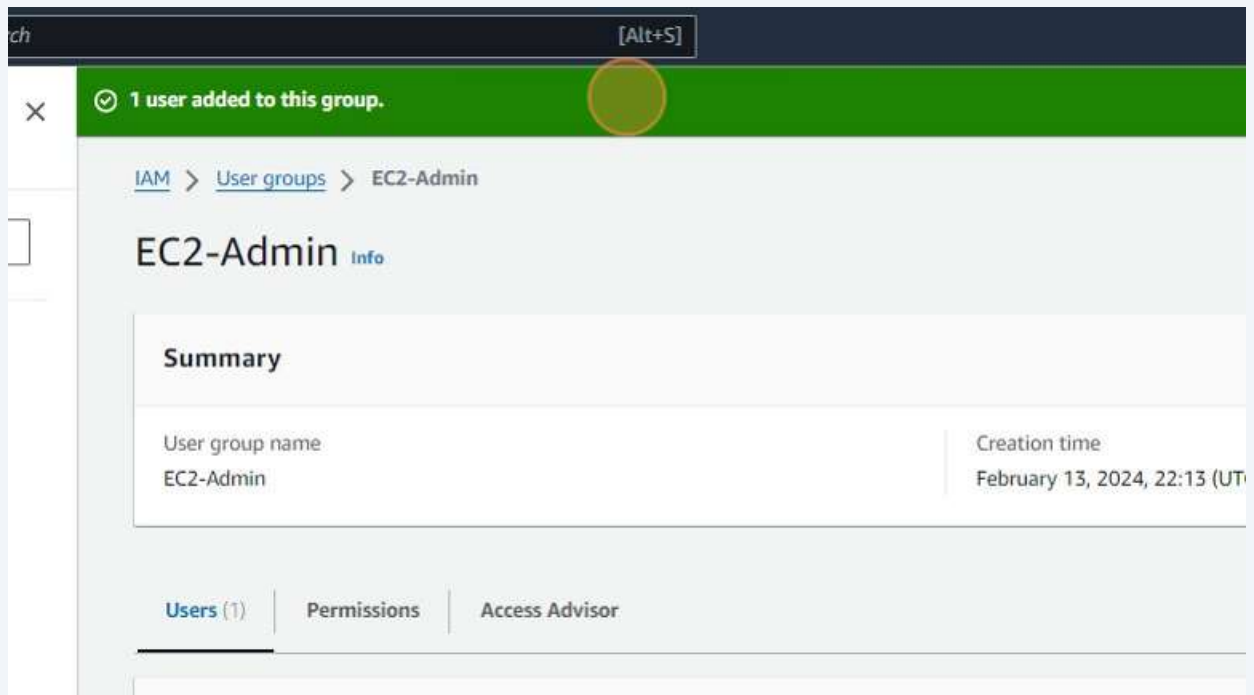
96 Click "Add users"



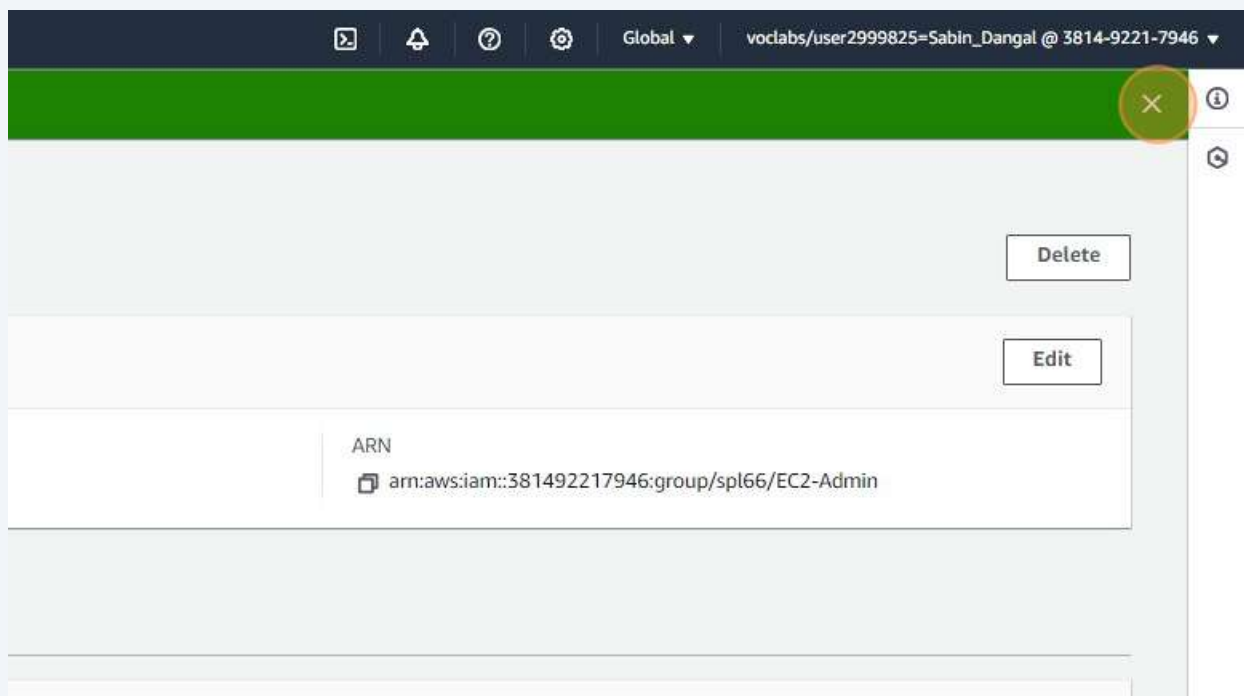
▲	Groups	Last activity ▼	Creation time ▼
	0	None	4 minutes ago
	0	None	5 minutes ago
	0	None	5 minutes ago
	0	None	5 minutes ago

Cancel Add users

97 Click "1 user added to this group."



98 Click here.



99 Click "User groups"

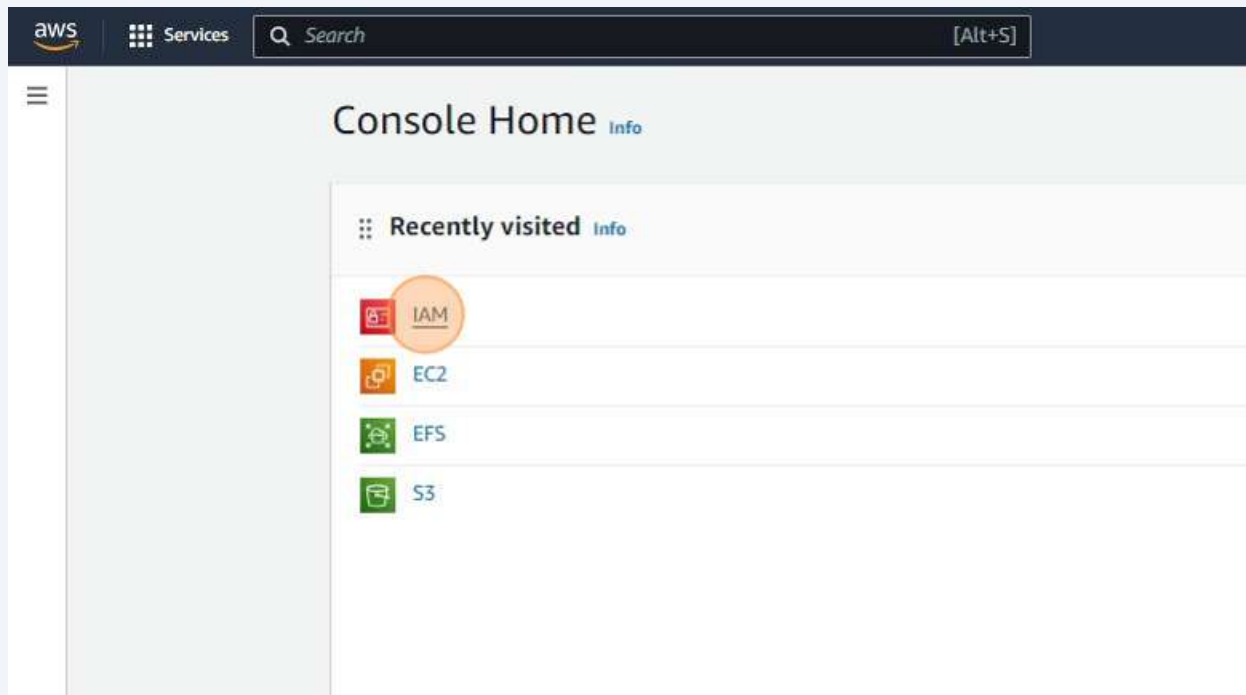
The screenshot shows the AWS IAM console interface. On the left is a navigation pane for 'Identity and Access Management (IAM)' with a search bar and a list of links: Dashboard, Access management (expanded), User groups (highlighted), Users, Roles, Policies, Identity providers, and Account settings. The main content area shows the breadcrumb 'IAM > User groups > EC2-Admin', with 'User groups' highlighted by an orange circle. Below the breadcrumb is the title 'EC2-Admin' with an 'Info' link. A 'Summary' section displays 'User group name: EC2-Admin'. Below this are tabs for 'Users (1)', 'Permissions', and 'Access Advisor'. The 'Users (1)' tab is active, showing a section titled 'Users in this group (1)' with a descriptive text: 'An IAM user is an entity that you create in AWS to represent the person or application that uses'.

100 Click "IAM"

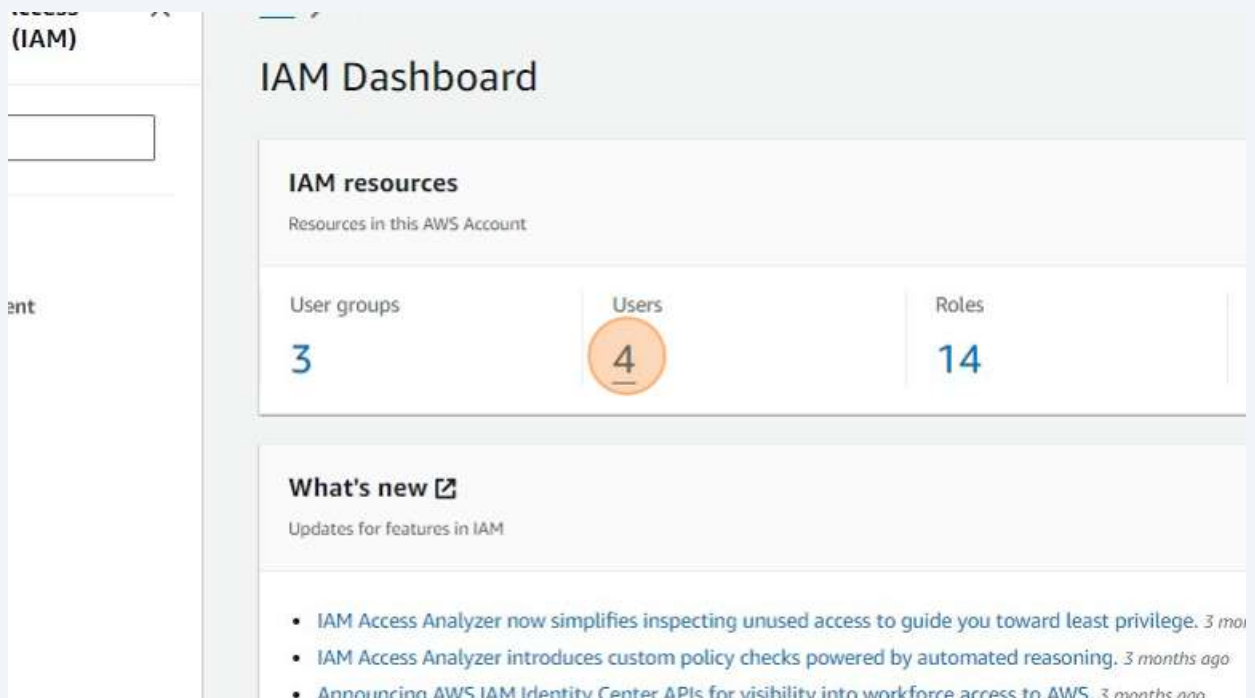
The screenshot shows the AWS IAM console interface. On the left is a navigation pane for 'Identity and Access Management (IAM)' with a search bar and a list of links: Dashboard, Access management (expanded), User groups (highlighted), Users, Roles, Policies, Identity providers, and Account settings. The main content area shows the breadcrumb 'IAM > User groups', with 'IAM' highlighted by an orange circle. Below the breadcrumb is the title 'User groups (3)' with an 'Info' link. A descriptive text states: 'A user group is a collection of IAM users. Use groups to specify permissions for a collection of users'. Below this is a search bar. A table lists three user groups:

<input type="checkbox"/>	Group name	▲	Users
<input type="checkbox"/>	EC2-Admin		
<input type="checkbox"/>	EC2-Support		
<input type="checkbox"/>	S3-Support		

101 Click "IAM"



102 Click "4"



103 Click "user-1"

The screenshot shows the AWS IAM console interface. On the left is a navigation sidebar with a search bar labeled "Search IAM". Below it are sections for "Access management" (containing User groups, Users, Roles, Policies, Identity providers, and Account settings) and "Access reports" (containing Access Analyzer, External access, and Unused access). The main content area is titled "Users (4) Info" and includes a description: "An IAM user is an identity with long-term credentials that is used to interact with AWS in an account." Below this is a search bar and a table of users. The table has columns for checkboxes, User name, Path, and Group. The row for "user-1" is highlighted with an orange circle. The table data is as follows:

<input type="checkbox"/>	User name	Path	Group
<input type="checkbox"/>	awsstudent	/	-
<input type="checkbox"/>	user-1	/spl66/	-
<input type="checkbox"/>	user-2	/spl66/	-
<input type="checkbox"/>	user-3	/spl66/	-

104 Click "Groups (1)"

The screenshot shows the details page for the IAM user "user-1". The left sidebar is the same as in the previous screenshot. The main content area shows the user's ARN as "arn:aws:iam::381492217946:user/spl66/user-1" and the creation date as "February 13, 2024, 22:12 (UTC+05:45)". Below this are tabs for "Permissions", "Groups (1)", "Tags (1)", "Security credentials", and "Access Advisor". The "Groups (1)" tab is highlighted with an orange circle. Below the tabs is a section titled "Permissions policies (1)" with a description: "Permissions are defined by policies attached to the user directly or through groups." Below this is a search bar and the start of a table with columns for checkboxes and Policy name.

105 Click "Tags (1)"

The screenshot shows the AWS IAM console interface. At the top, the user's ARN is `arn:aws:iam::381492217946:user/spl66/user-1` and the console access status is "Enabled without MFA". The "Created" date is February 13, 2024, 22:12 (UTC+05:45). The "Last console sign-in" is "Never". Below the navigation tabs, the "Tags (1)" tab is selected and highlighted with an orange circle. The "User groups membership (1)" section shows a table with one entry: "EC2-Admin".

Group name
EC2-Admin

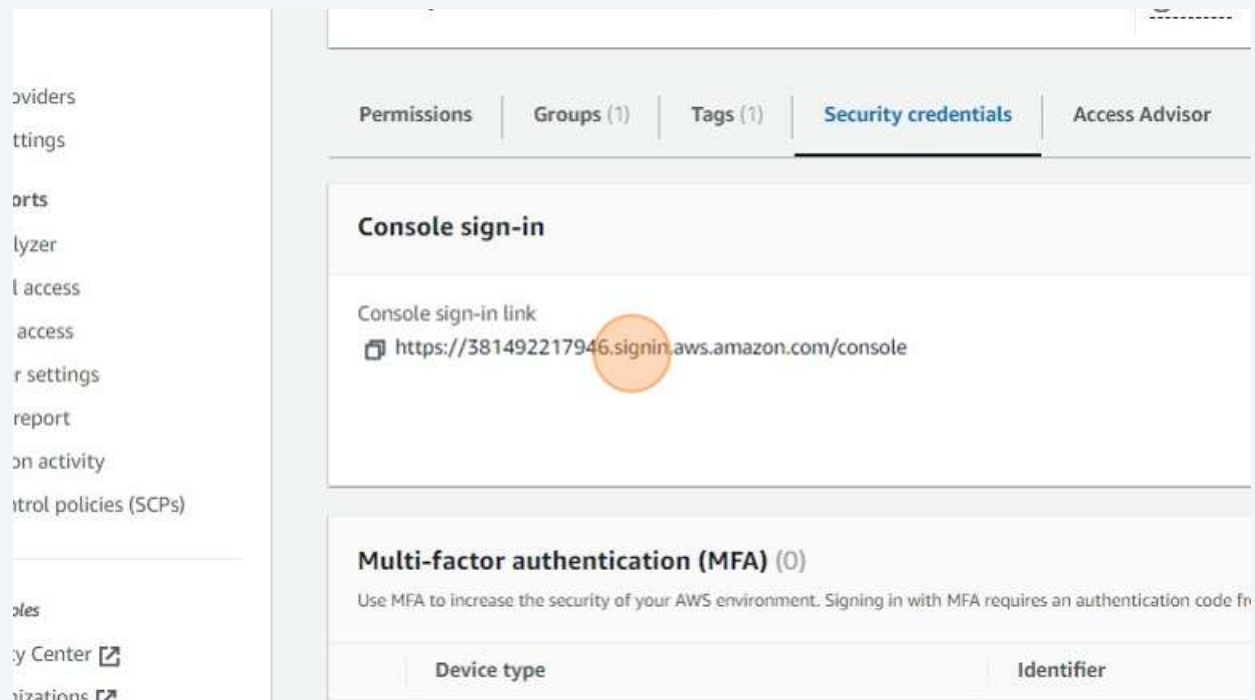
106 Click "Security credentials"

The screenshot shows the AWS IAM console interface. At the top, the user's ARN is `arn:aws:iam::381492217946:user/spl66/user-1` and the console access status is "Enabled without MFA". The "Created" date is February 13, 2024, 22:12 (UTC+05:45). The "Last console sign-in" is "Never". Below the navigation tabs, the "Security credentials" tab is selected and highlighted with an orange circle. The "Tags (1)" section shows a table with one entry: "cloudlab".

Key
cloudlab

107

Double-click "<https://381492217946.signin.aws.amazon.com/console>"



108

[Navigate to \[https://ap-southeast-2.signin.aws.amazon.com/oauth?client_id=arn%3Aaws%3Asignin%3A%3A%3Aconsole%2Fcanvas&code_challenge=20Hlbpqo6aTwPpf5qaPuE37Ctiz13tuL8mz2zjnGgQ&code_challenge_method=SHA-256&response_type=code&redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3FhashArgs%3D%2523%26isauthcode%3Dtrue%26state%3DhashArgsFromTB_ap-southeast-2_5a40952f95a3eae3&X-Amz-Security-Token=IQOjlb3lpZ2luX2VjEKD%2F%2F%2F%2F%2F%2F%2F%2F%2F%2FwEaDmFwLXNvdXRoZWZkdC0yIkcwRQIhAKiOcsQ0bA6aCcPzCT6wztObLwF7B6rixRI6%2BAz8J8srAiB%2B%2BL0eTvnLjYbi4Zxo8pxircPo8hnugfDI%2BqYSBN4RmCqKAgh5EAiaDDQyNjA2MzgxNjU1NCIMVrnzTeuVyeTNaVDSKucBSwroM%2BBAOiylqcsEErYDeObTtrXR8XoLuPOkSqZ6q5OHpqjsxSqzOcOei8bjU93G6uPJY1c0LtJlbQYkgBcihIcTcX0M0t%2FVfkDYqiSUtCGaohuujCnWklzUxK3BE2ITDglVqCeVHQ36FoZVICPbox8bHKKTu9rSG2q2b9ALyDEaBvbOUvgzQSW%2FwfsKnHbj4YUpFb7IOPs0FnEK7EN6Buau3%2FJE%2BtCjBzNzSabnC22cXAMfTmFih31nXLpf3DaiF9N%2F2aCaWsoMb6B4yxraAoXmPEX0IEIpMgp%2BQHfaHkK1M405mWIpMNKtrq4GOo8Bj6Hm4U7OF7%2BWn2brcvFSUc15WejOJSfvCQRPhERm60D9jr%2BvuDYWthzTfITQRtVBasd6GOptqLUOiEM%2FzpDsTqaXixU6p%2F7gfSCZbUbFaA4RDdZeF3wbp1fk91QGxjKWeoi%2BI78gk7qAE%2BB6oSIM6gBNj7qyBawCKw%2FWqJeo6%2BNINU61hA%2Bi8pbj14YsmmI%3D&X-Amz-Date=20240213T163714Z&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=ASIAWGM3B45VAWRBQ6ME%2F20240213%2Fap-southeast-2%2Fsignin%2Faws4_request&X-Amz-SignedHeaders=host&X-Amz-Signature=07223e71f4ea4efa3c290451ad296de450e43b008948940aff1b48ab2fdc6982\]\(https://ap-southeast-2.signin.aws.amazon.com/oauth?client_id=arn%3Aaws%3Asignin%3A%3A%3Aconsole%2Fcanvas&code_challenge=20Hlbpqo6aTwPpf5qaPuE37Ctiz13tuL8mz2zjnGgQ&code_challenge_method=SHA-256&response_type=code&redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3FhashArgs%3D%2523%26isauthcode%3Dtrue%26state%3DhashArgsFromTB_ap-southeast-2_5a40952f95a3eae3&X-Amz-Security-Token=IQOjlb3lpZ2luX2VjEKD%2F%2F%2F%2F%2F%2F%2F%2F%2F%2FwEaDmFwLXNvdXRoZWZkdC0yIkcwRQIhAKiOcsQ0bA6aCcPzCT6wztObLwF7B6rixRI6%2BAz8J8srAiB%2B%2BL0eTvnLjYbi4Zxo8pxircPo8hnugfDI%2BqYSBN4RmCqKAgh5EAiaDDQyNjA2MzgxNjU1NCIMVrnzTeuVyeTNaVDSKucBSwroM%2BBAOiylqcsEErYDeObTtrXR8XoLuPOkSqZ6q5OHpqjsxSqzOcOei8bjU93G6uPJY1c0LtJlbQYkgBcihIcTcX0M0t%2FVfkDYqiSUtCGaohuujCnWklzUxK3BE2ITDglVqCeVHQ36FoZVICPbox8bHKKTu9rSG2q2b9ALyDEaBvbOUvgzQSW%2FwfsKnHbj4YUpFb7IOPs0FnEK7EN6Buau3%2FJE%2BtCjBzNzSabnC22cXAMfTmFih31nXLpf3DaiF9N%2F2aCaWsoMb6B4yxraAoXmPEX0IEIpMgp%2BQHfaHkK1M405mWIpMNKtrq4GOo8Bj6Hm4U7OF7%2BWn2brcvFSUc15WejOJSfvCQRPhERm60D9jr%2BvuDYWthzTfITQRtVBasd6GOptqLUOiEM%2FzpDsTqaXixU6p%2F7gfSCZbUbFaA4RDdZeF3wbp1fk91QGxjKWeoi%2BI78gk7qAE%2BB6oSIM6gBNj7qyBawCKw%2FWqJeo6%2BNINU61hA%2Bi8pbj14YsmmI%3D&X-Amz-Date=20240213T163714Z&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=ASIAWGM3B45VAWRBQ6ME%2F20240213%2Fap-southeast-2%2Fsignin%2Faws4_request&X-Amz-SignedHeaders=host&X-Amz-Signature=07223e71f4ea4efa3c290451ad296de450e43b008948940aff1b48ab2fdc6982\)](https://ap-southeast-2.signin.aws.amazon.com/oauth?client_id=arn%3Aaws%3Asignin%3A%3A%3Aconsole%2Fcanvas&code_challenge=20Hlbpqo6aTwPpf5qaPuE37Ctiz13tuL8mz2zjnGgQ&code_challenge_method=SHA-256&response_type=code&redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3FhashArgs%3D%2523%26isauthcode%3Dtrue%26state%3DhashArgsFromTB_ap-southeast-2_5a40952f95a3eae3&X-Amz-Security-Token=IQOjlb3lpZ2luX2VjEKD%2F%2F%2F%2F%2F%2F%2F%2F%2F%2F%2FwEaDmFwLXNvdXRoZWZkdC0yIkcwRQIhAKiOcsQ0bA6aCcPzCT6wztObLwF7B6rixRI6%2BAz8J8srAiB%2B%2BL0eTvnLjYbi4Zxo8pxircPo8hnugfDI%2BqYSBN4RmCqKAgh5EAiaDDQyNjA2MzgxNjU1NCIMVrnzTeuVyeTNaVDSKucBSwroM%2BBAOiylqcsEErYDeObTtrXR8XoLuPOkSqZ6q5OHpqjsxSqzOcOei8bjU93G6uPJY1c0LtJlbQYkgBcihIcTcX0M0t%2FVfkDYqiSUtCGaohuujCnWklzUxK3BE2ITDglVqCeVHQ36FoZVICPbox8bHKKTu9rSG2q2b9ALyDEaBvbOUvgzQSW%2FwfsKnHbj4YUpFb7IOPs0FnEK7EN6Buau3%2FJE%2BtCjBzNzSabnC22cXAMfTmFih31nXLpf3DaiF9N%2F2aCaWsoMb6B4yxraAoXmPEX0IEIpMgp%2BQHfaHkK1M405mWIpMNKtrq4GOo8Bj6Hm4U7OF7%2BWn2brcvFSUc15WejOJSfvCQRPhERm60D9jr%2BvuDYWthzTfITQRtVBasd6GOptqLUOiEM%2FzpDsTqaXixU6p%2F7gfSCZbUbFaA4RDdZeF3wbp1fk91QGxjKWeoi%2BI78gk7qAE%2BB6oSIM6gBNj7qyBawCKw%2FWqJeo6%2BNINU61hA%2Bi8pbj14YsmmI%3D&X-Amz-Date=20240213T163714Z&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=ASIAWGM3B45VAWRBQ6ME%2F20240213%2Fap-southeast-2%2Fsignin%2Faws4_request&X-Amz-SignedHeaders=host&X-Amz-Signature=07223e71f4ea4efa3c290451ad296de450e43b008948940aff1b48ab2fdc6982)

109 Click the "Password" field.

Sign in as IAM user

Account ID (12 digits) or account alias

381492217946

IAM user name

user-1

Password

|

☐ Remember this account

Sign in

[Sign in using root user email](#)

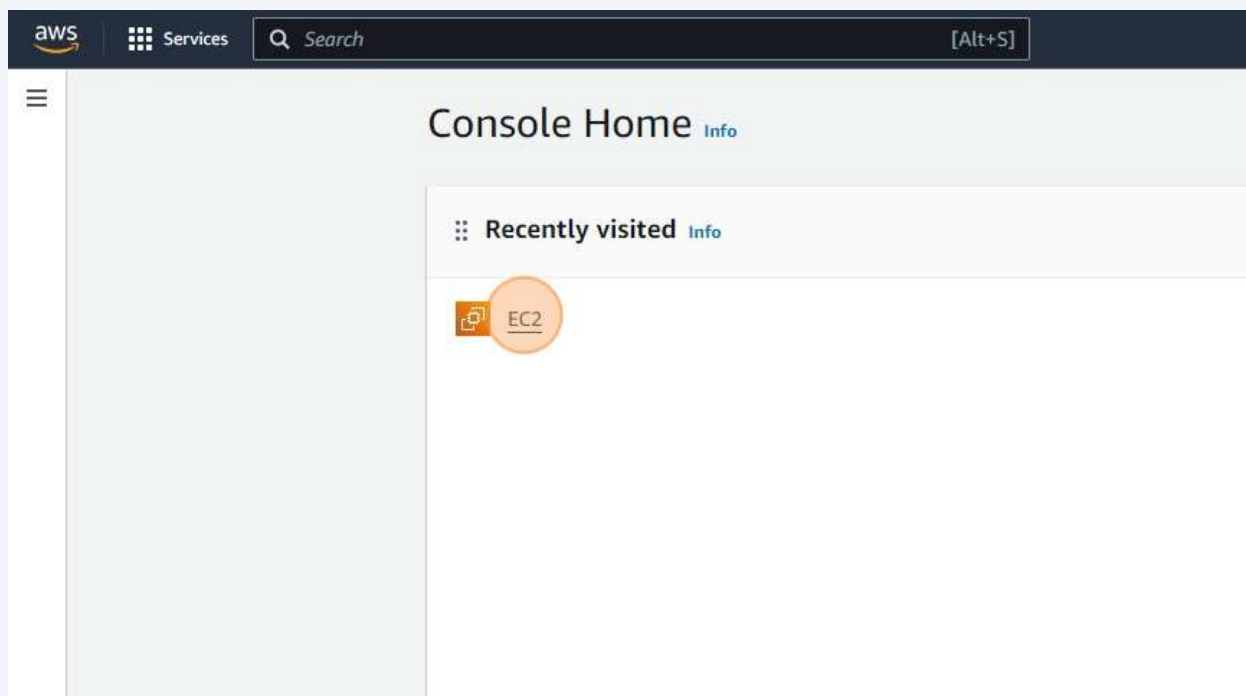
[Forgot password?](#)

Am

Light to ge

[Learn](#)

110 Click "EC2"



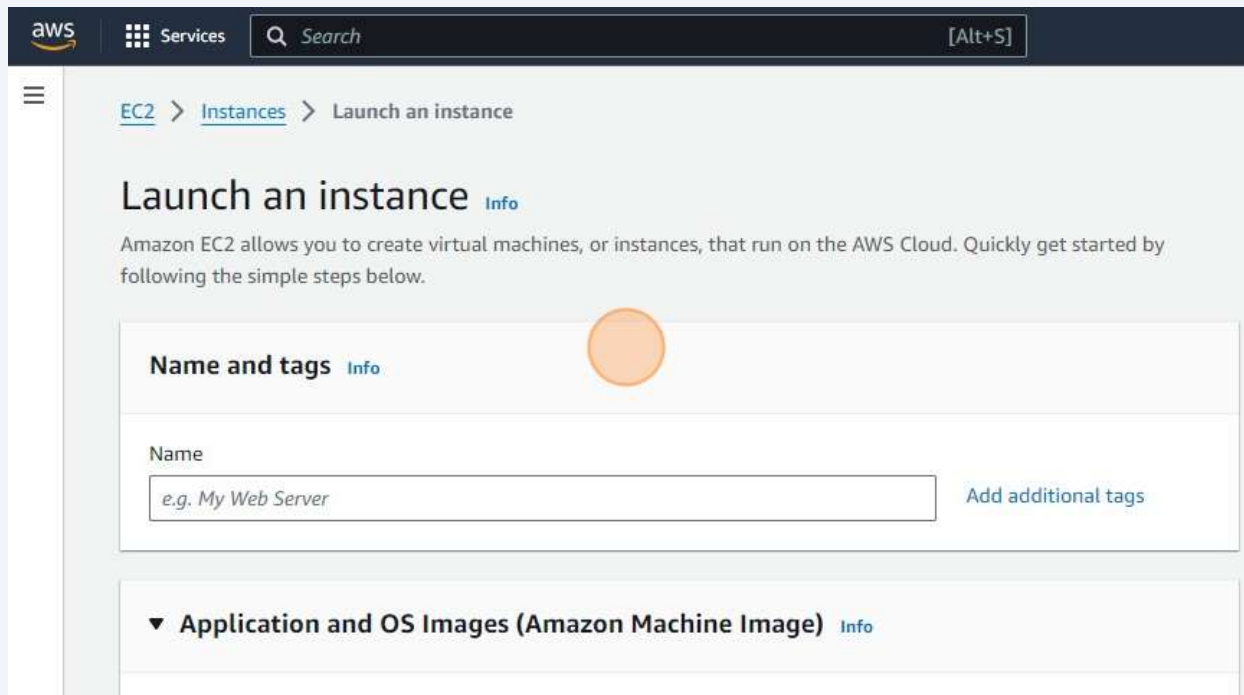
111 Click "Instances"

The screenshot shows the AWS Management Console interface. At the top, there is a navigation bar with the AWS logo, a 'Services' menu, a search bar, and a '[Alt+S]' shortcut. On the left, the 'EC2 Dashboard' sidebar is open, showing a list of navigation links: 'EC2 Global View', 'Events', 'Instances' (highlighted with an orange circle), 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', and 'Capacity Reservations'. Below these links is a 'New' button. The main content area is titled 'Resources' and displays a summary of EC2 resources in the 'Europe (Stockholm) Region'. It lists 'Instances (running)' as 0, 'Elastic IPs' as 0, 'Load balancers' with an 'API Error' icon, and 'Snapshots' as 0. To the right of these counts are links for 'Auto Scaling Groups', 'Instances', 'Placement groups', and 'Volumes'. Below the 'Resources' section, there is a 'Launch instance' section with a brief description: 'To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.' On the far right, a 'Service' section is partially visible, showing a 'Region' dropdown.

112 Click "Launch instances"

The screenshot shows the 'Launch instances' page in the AWS Management Console. At the top, there is a navigation bar with a '[Alt+S]' shortcut and a search icon. Below the navigation bar, there is a search bar and a 'Any state' dropdown menu. To the right of the search bar are three buttons: 'Refresh', 'Connect', and 'Inst'. Below these elements is a table with columns: 'Instance state', 'Instance type', 'Status check', 'Alarm status', 'Availability Zone', and 'Pub'. The table is currently empty, displaying a 'No instances' message: 'You do not have any instances in this region'. Below this message is a 'Launch instances' button, which is highlighted with an orange circle.

113 Click here.



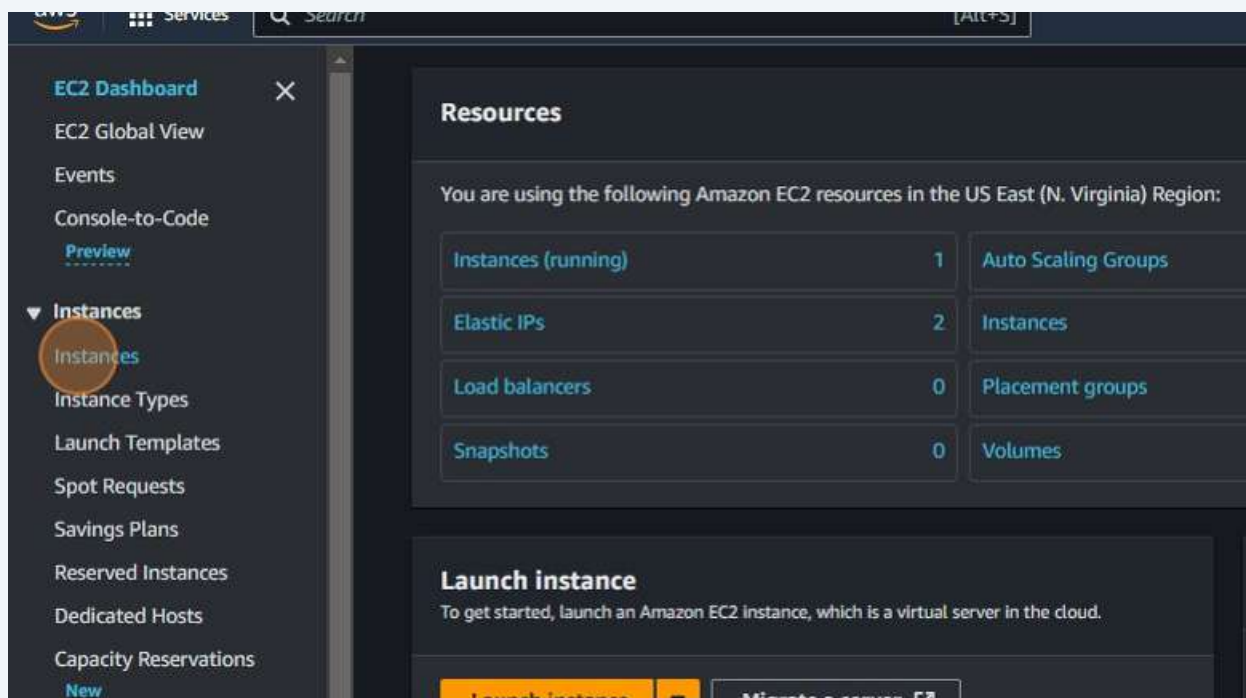
EC2 Basics Lab

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

115 Click "EC2"

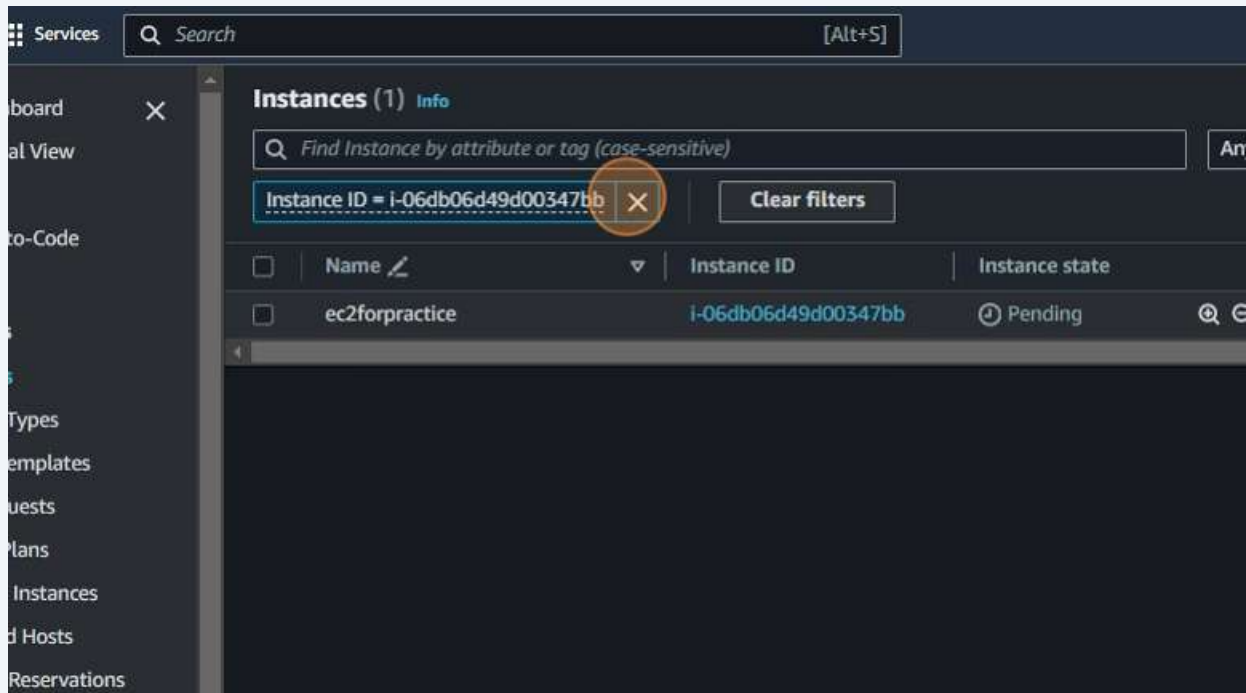


116 Click "Instances"

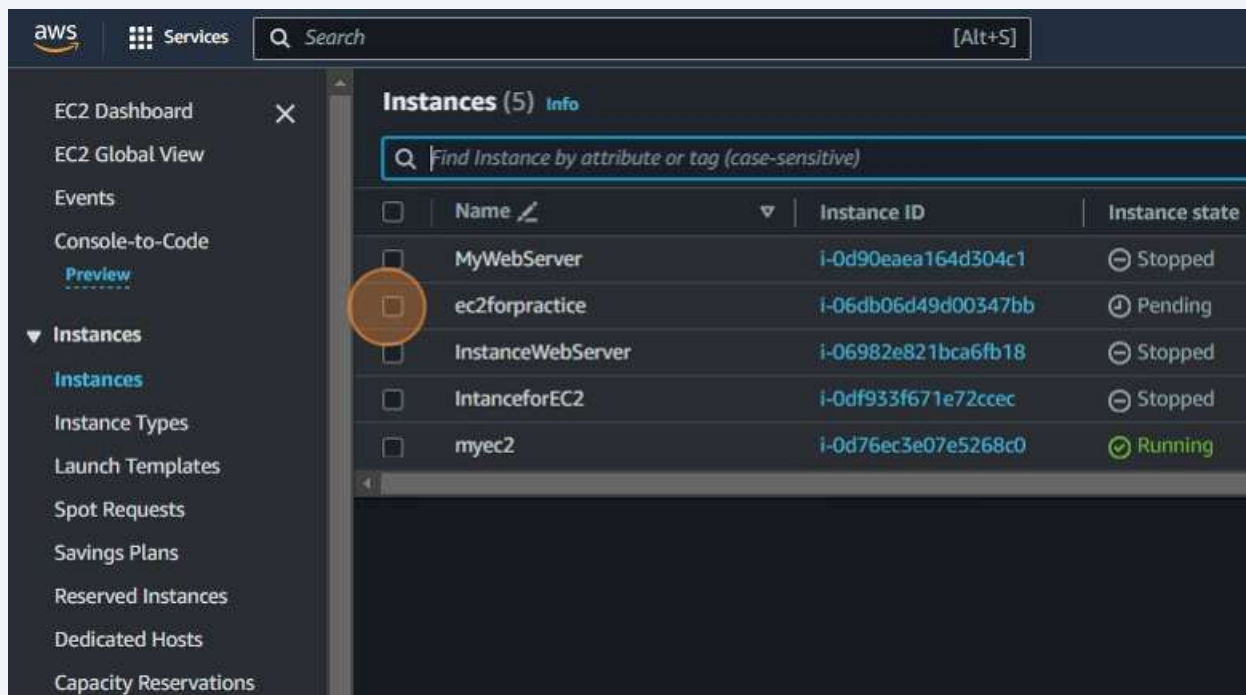


117 Press **ctrl + v**

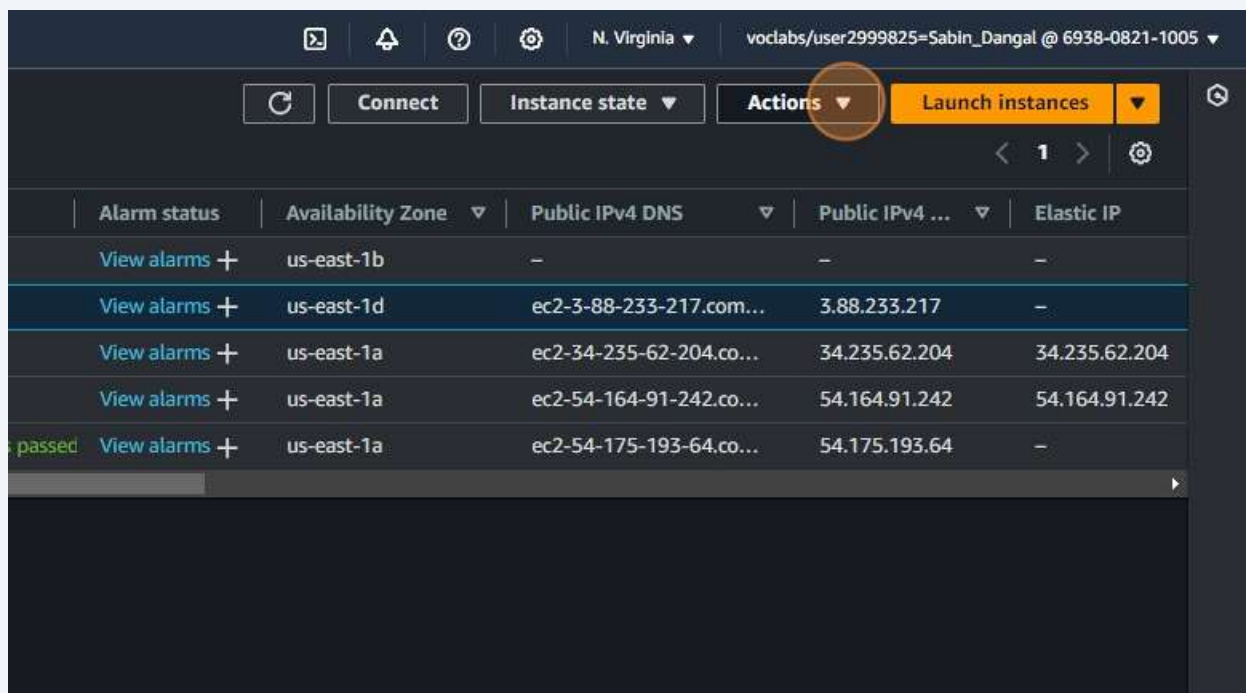
118 Click here.



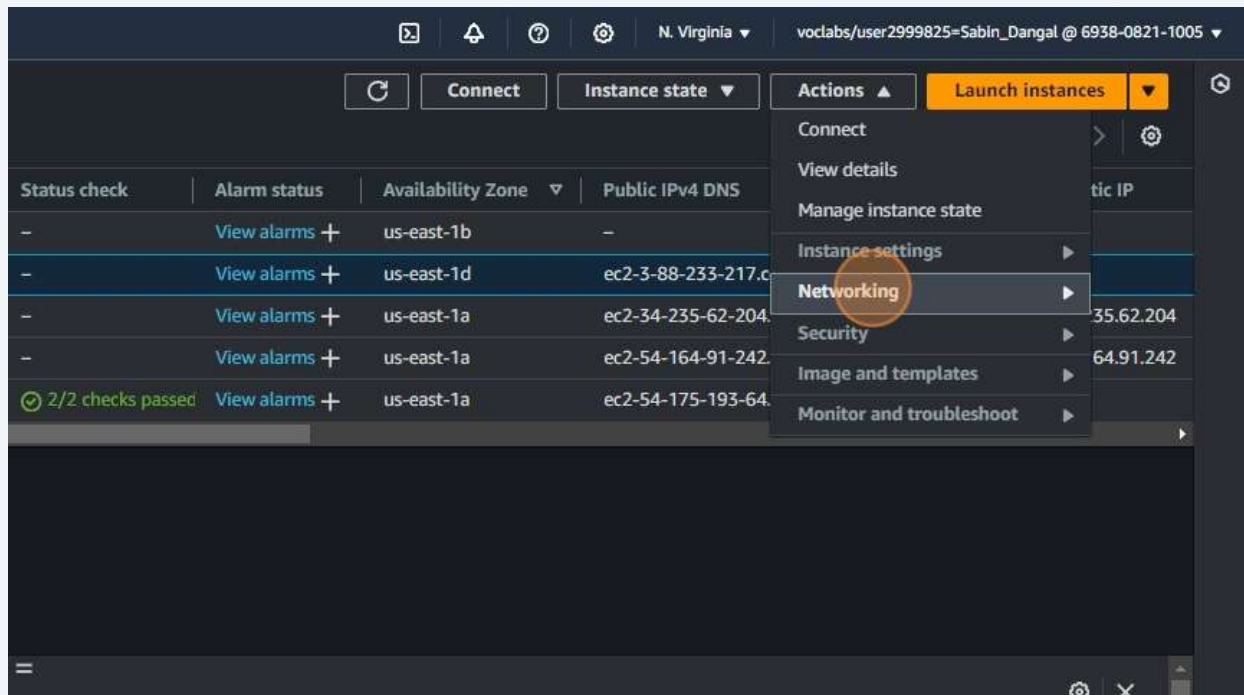
119 Click this checkbox.



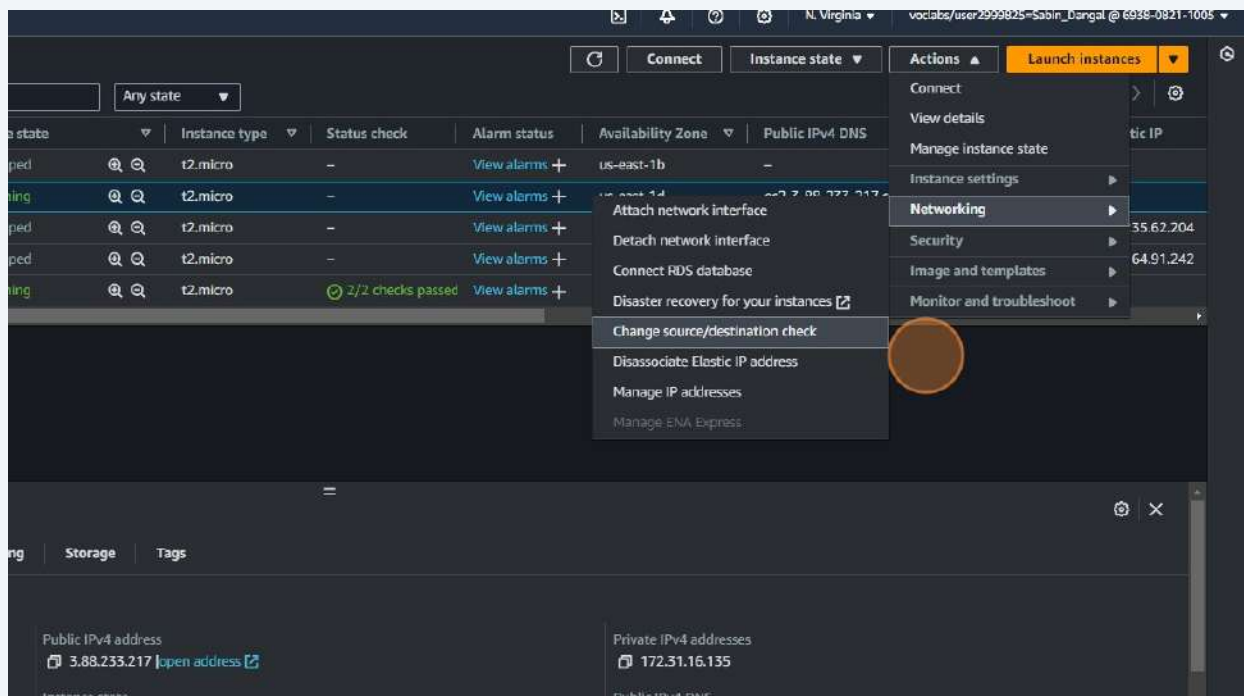
120 Click here.



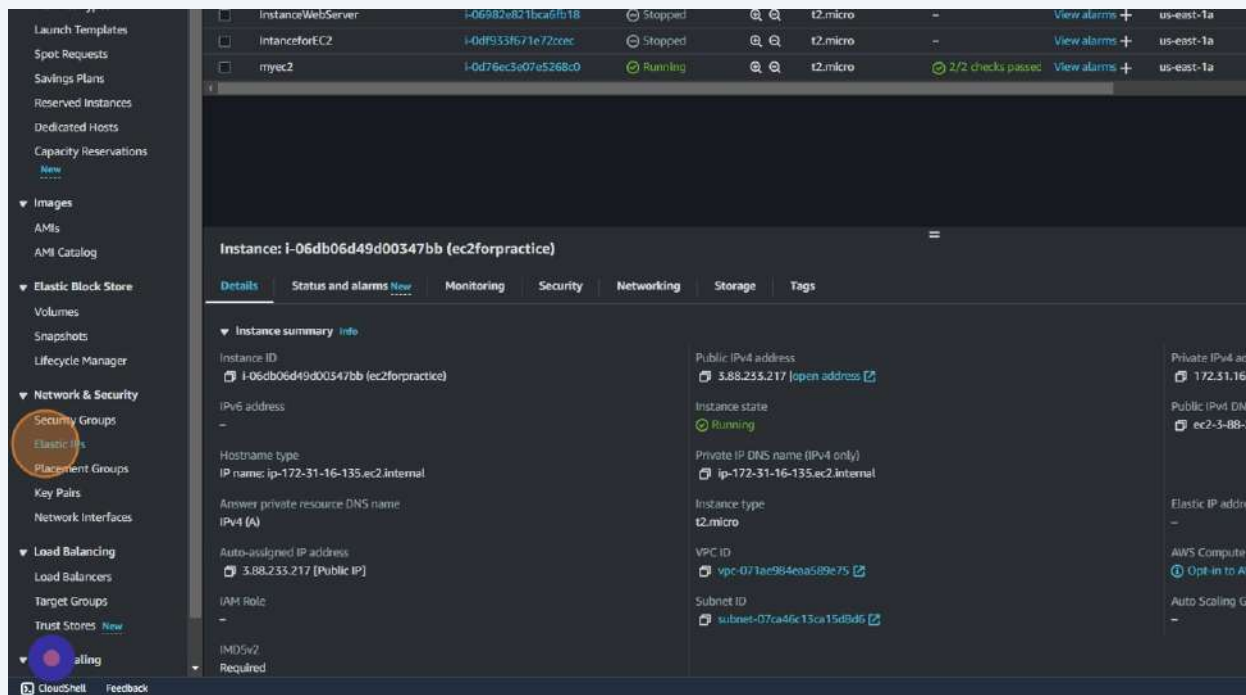
121 Click "Networking"



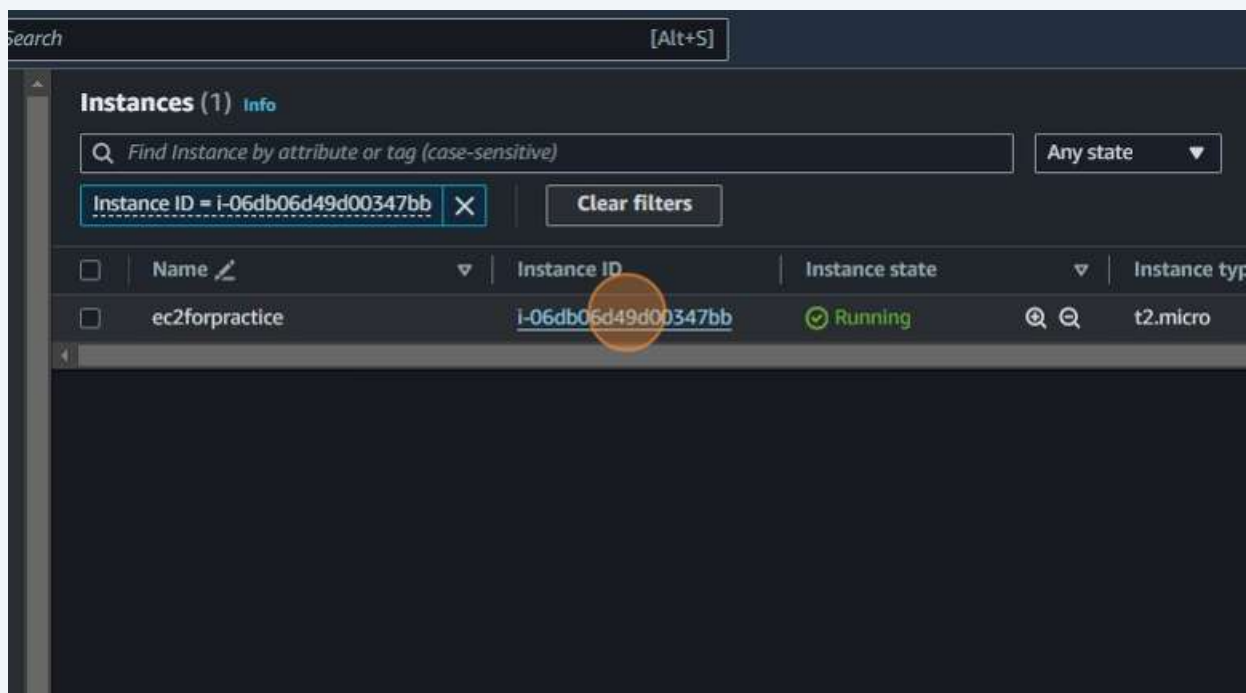
122 Click here.



123 Click "Elastic IPs"



124 Click "i-06db06d49d00347bb"



125 Click "Monitoring"

The screenshot shows the AWS Management Console interface for an EC2 instance. The left sidebar contains navigation links for various services. The main content area displays the instance details for 'i-06db06d49d00347bb (ec2forpractice)'. The 'Monitoring' tab is selected and highlighted with a red circle. The instance is in a 'Running' state. The 'Instance details' section shows the platform as 'Amazon Linux (Inferred)' and the AMI as 'Linux/UNIX'. The 'Monitoring' section shows 'Monitoring disabled' and 'Termination protection enabled'.

Console-to-Code
Preview

Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New

Images
AMIs
AMI Catalog

Elastic Block Store
Volumes
Snapshots
Lifecycle Manager

Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces

Load Balancing
Load Balancers

Instance ID
i-06db06d49d00347bb (ec2forpractice)

IPv4 address
-

Hostname type
IP name: ip-172-31-16-155.ec2.internal

Answer private resource DNS name
IPv4 (A)

Auto-assigned IP address
-

IAM Role
-

IMDSv2
Required

Public IPv4 address
44.222.59.196 (open address)

Instance state
Running

Private IP DNS name (IPv4 only)
ip-172-31-16-155.ec2.internal

Instance type
t2.micro

VPC ID
vpc-071ae984eaa589e75

Subnet ID
subnet-07ca46c13ca15d8d6

Private IPv4 address
172.31.16.155

Public IPv4 DNS
ec2-44-222-59-196.compute-1.amazonaws.com

Elastic IP address
-

AWS Compute Optimizer
Opt-in to AWS Compute Optimizer

Auto Scaling Group
-

Details Status and alarms New Monitoring Security Networking Storage Tags

Instance details Info

Platform
Amazon Linux (Inferred)

Platform details
Linux/UNIX

Stop protection
Disabled

Instance auto-recovery
Default

AMI Launch Index
0

Credit specification
standard

AMI ID
ami-0e751cfa588258d0d

AMI name
al2023-ami-2023.3.20240205.2-kernel-6.1-x86_64

Launch time
Tue Feb 13 2024 22:47:50 GMT+0545 (Nepal Time) (2 minutes)

Lifecycle
normal

Key pair assigned at launch
my-ssh-key

Kernel ID
-

Monitoring disabled

Termination protection enabled

AMI location
amazon/al2023-ami-2023.3.20240205.2-kernel-6.1-x86_64

Stop-hibernate
Disabled

State transition
-

State transition
-

126 Click "Security"

The screenshot shows the AWS Management Console interface for an EC2 instance. The left sidebar contains navigation links for various services. The main content area displays the instance details for 'i-06db06d49d00347bb (ec2forpractice)'. The 'Security' tab is selected and highlighted with a red circle. The instance is in a 'Running' state. The 'Security' section shows 'Alarm recommendations' and a list of metrics including CPU utilization, Network in/out, Network packets out, Disk reads/writes, and CPU credit usage/balance.

BWS Services Q Search [Alt+S]

EC2 Dashboard
EC2 Global View
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Console-to-Code
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Instances
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Lifecycle Manager

Network & Security
Security Groups
Elastic IPs

IPv4 (A)

Auto-assigned IP address
-

IAM Role
-

IMDSv2
Required

t2.micro

VPC ID
vpc-071ae984eaa589e75

Subnet ID
subnet-07ca46c13ca15d8d6

Public IPv4 address
44.222.59.196

AWS Compute Optimizer
Opt-in to AWS Compute Optimizer

Auto Scaling Group
-

Details Status and alarms New Monitoring Security Networking Storage Tags

Alarm recommendations

1h 3h 12h 1d 3d 1w Custom UTC time

CPU utilization (%)
No unit
No data available.
Try adjusting the dashboard time range.

Network in (bytes)
No unit
No data available.
Try adjusting the dashboard time range.

Network out (bytes)
No unit
No data available.
Try adjusting the dashboard time range.

Network packets out (count)
No unit
No data available.
Try adjusting the dashboard time range.

Disk reads (bytes)
No unit
No data available.
Try adjusting the dashboard time range.

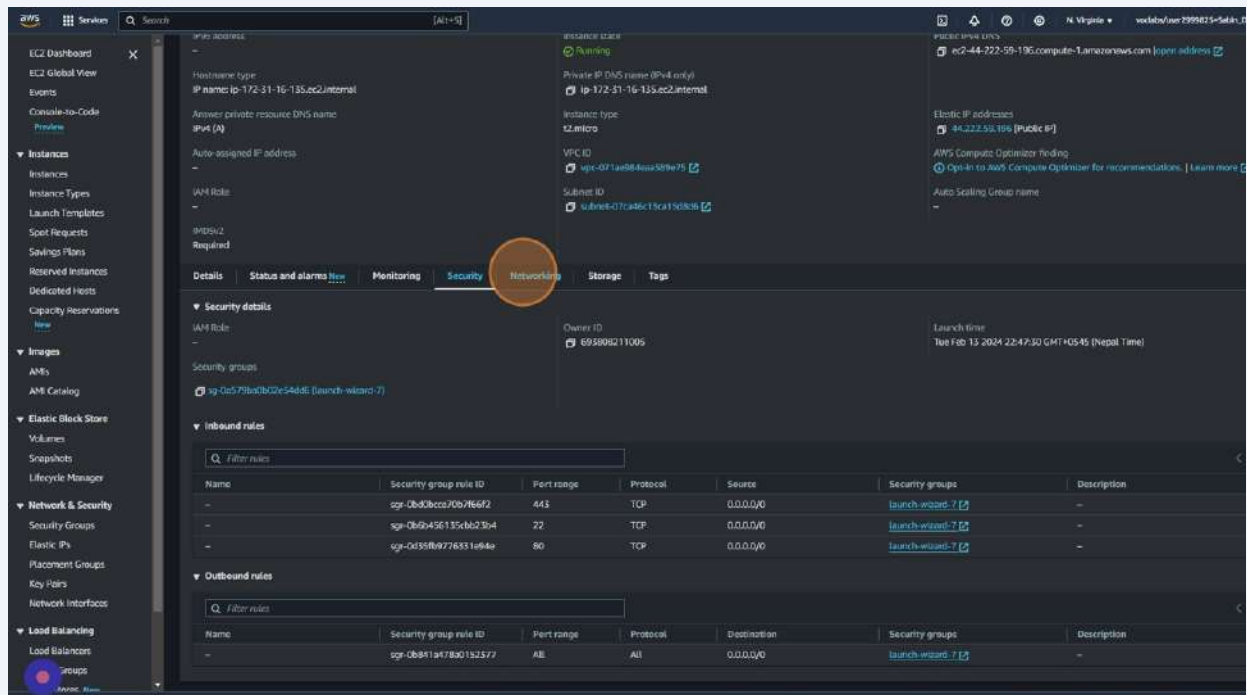
Disk read operations (operations)
No unit
No data available.
Try adjusting the dashboard time range.

Disk write operations (operations)
No unit
No data available.
Try adjusting the dashboard time range.

CPU credit usage (count)
No unit
No data available.
Try adjusting the dashboard time range.

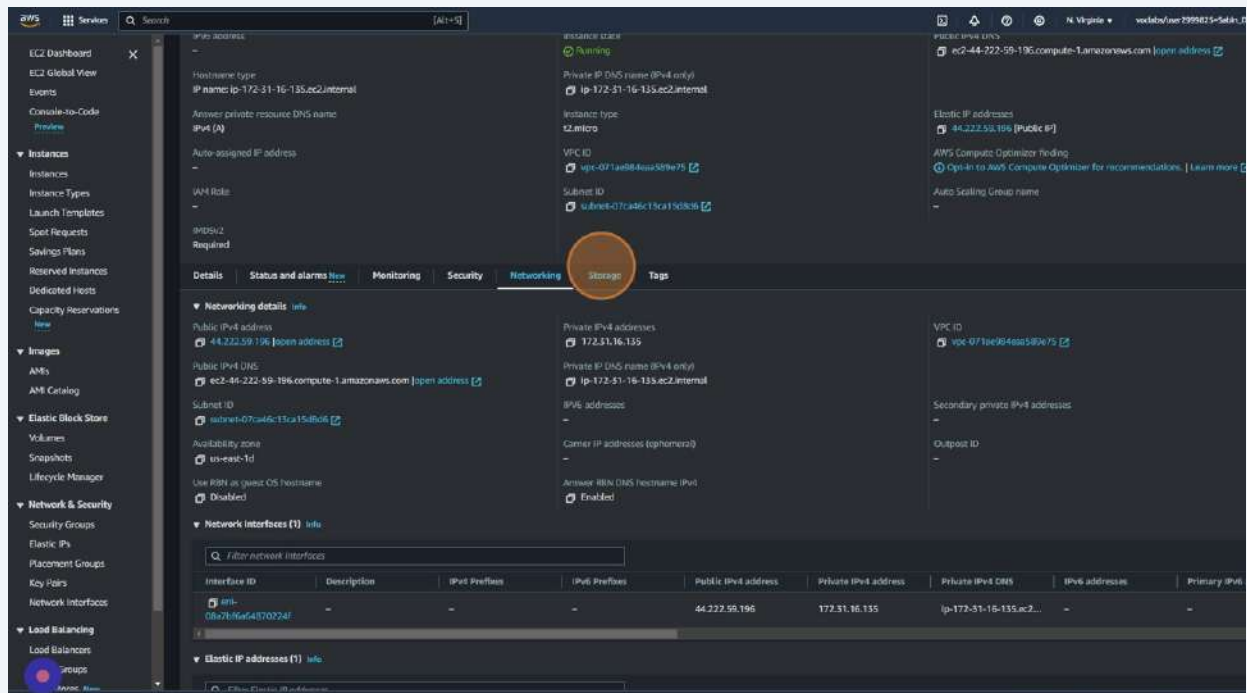
CPU credit balance (count)
No unit
No data available.
Try adjusting the dashboard time range.

127 Click "Networking"



The screenshot shows the AWS Management Console for an EC2 instance. The left sidebar contains navigation links for various AWS services. The main content area displays the instance details for 'ip-172-31-16-135.ec2.internal'. The 'Networking' tab is selected and highlighted with a red circle. This tab shows the instance's network configuration, including the VPC ID, Subnet ID, and Elastic IP address. The instance is running in the 'us-east-1' region.

128 Click "Storage"



The screenshot shows the AWS Management Console for an EC2 instance. The left sidebar contains navigation links for various AWS services. The main content area displays the instance details for 'ip-172-31-16-135.ec2.internal'. The 'Storage' tab is selected and highlighted with a red circle. This tab shows the instance's storage configuration, including the VPC ID, Subnet ID, and Elastic IP address. The instance is running in the 'us-east-1' region.

129 Click "Tags"

The screenshot shows the AWS Management Console 'Instance summary' page for instance `i-06db06d49d00347bb` (type `ec2forpractice`). The instance is in a `Running` state. The 'Tags' tab is highlighted with an orange circle. The 'Storage' tab is also visible, showing root device details and block devices.

Instance summary for i-06db06d49d00347bb (ec2forpractice)

Instance ID: `i-06db06d49d00347bb` (ec2forpractice)
IPv6 address: -
Hostname type: IP name: `ip-172-31-16-135.ec2.internal`
Answer private resource DNS name: `ip-172-31-16-135.ec2.internal`
Auto-assigned IP address: -
IAM Role: -
IMDSv2: Required

Public IPv4 address: `44.222.59.196` [open address]
Instance state: `Running`
Private IP DNS name (IPv4 only): `ip-172-31-16-135.ec2.internal`
Instance type: `t2.micro`
VPC ID: `vpc-071ae984ea589e75`
Subnet ID: `subnet-07ca46c13ca15d8d6`

Private IPv4 addresses: `172.31.16.135`
Public IPv4 DNS: `ec2-44-222-59-196.compute-1.amazonaws.com` [open address]
Elastic IP addresses: `44.222.59.196` [Public IP]
AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. [Learn more]
Auto Scaling Group name: -

Storage | **Tags**

Root device details
Root device name: `/dev/xvda`
Root device type: `efs`
EBS optimization: disabled

Block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID	Delete on termination
<code>vol-0ef798b79f4de16e</code>	<code>/dev/xvda</code>	8	Attached	2024/09/15 22:47 GMT+5:45	No	-	Yes

Recent root volume replacement tasks

Task ID	Task state	Start time	Completion time	Tags
No recent replace root volume tasks				

130 Click "Details"

The screenshot shows the AWS Management Console 'Instance summary' page for instance `i-06db06d49d00347bb` (type `ec2forpractice`). The 'Details' tab is highlighted with an orange circle. The 'Tags' tab is also visible, showing the instance's tags.

Instance summary for i-06db06d49d00347bb (ec2forpractice)

Instance ID: `i-06db06d49d00347bb` (ec2forpractice)
IPv6 address: -
Hostname type: IP name: `ip-172-31-16-135.ec2.internal`
Answer private resource DNS name: `ip-172-31-16-135.ec2.internal`
Auto-assigned IP address: -
IAM Role: -
IMDSv2: Required

Public IPv4 address: `44.222.59.196` [open address]
Instance state: `Running`
Private IP DNS name (IPv4 only): `ip-172-31-16-135.ec2.internal`
Instance type: `t2.micro`
VPC ID: `vpc-071ae984ea589e75`
Subnet ID: `subnet-07ca46c13ca15d8d6`

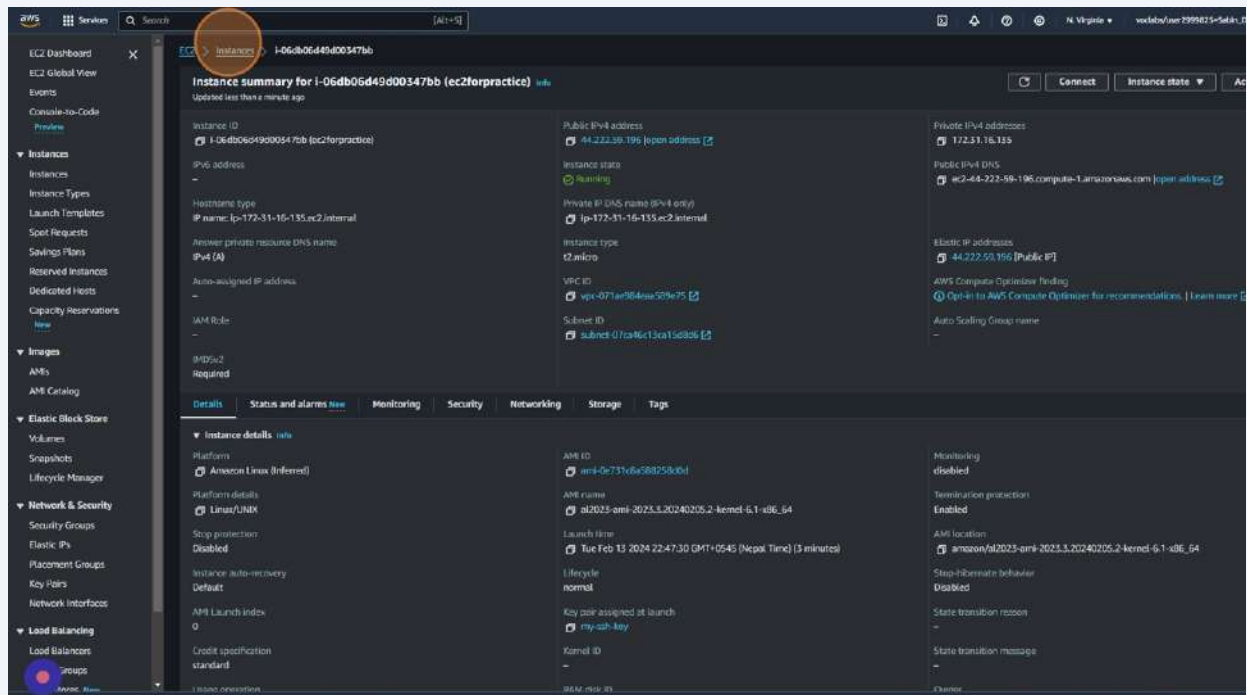
Private IPv4 addresses: `172.31.16.135`
Public IPv4 DNS: `ec2-44-222-59-196.compute-1.amazonaws.com` [open address]
Elastic IP addresses: `44.222.59.196` [Public IP]
AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. [Learn more]
Auto Scaling Group name: -

Details | **Tags**

Tags

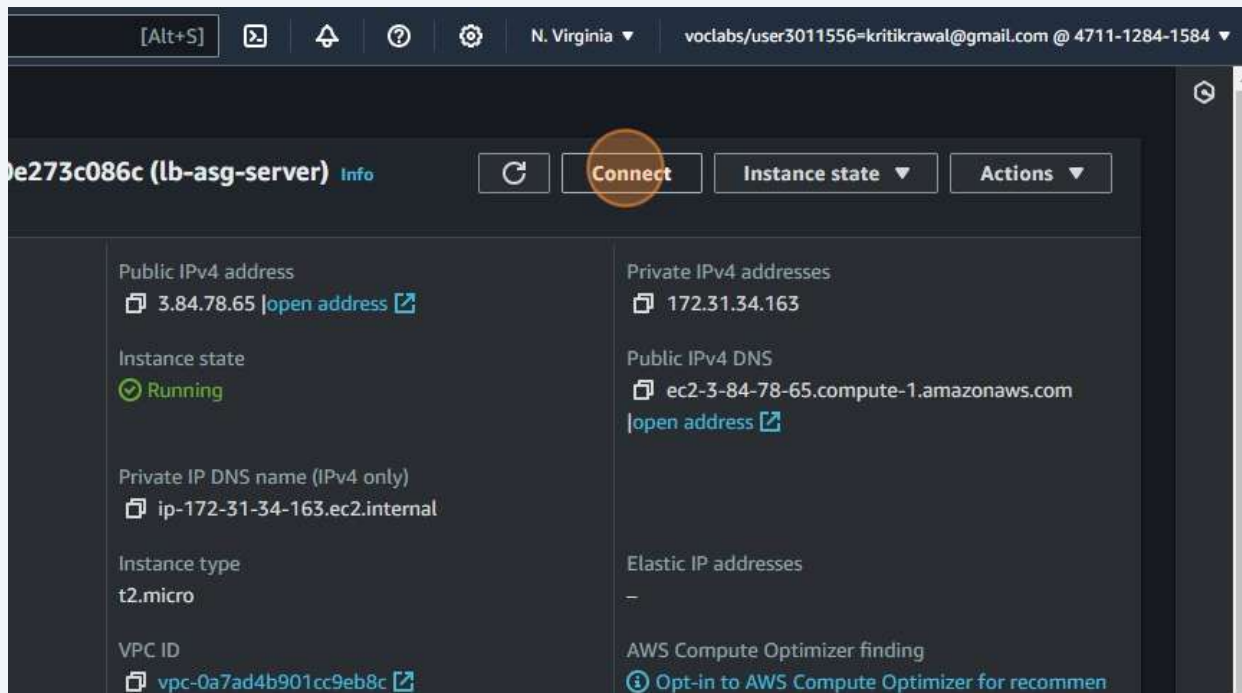
Key	Value
Name	ec2forpractice

131 Click "Instances"

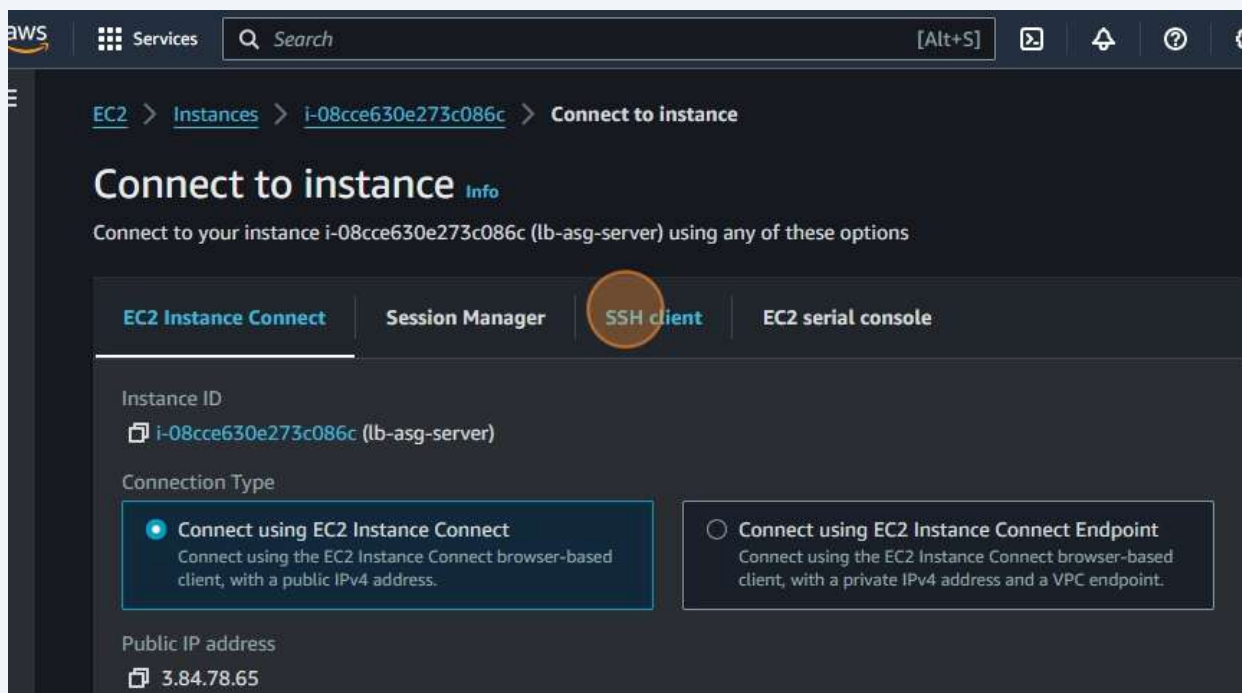


132 Navigate to <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-08cce630e273c086c>

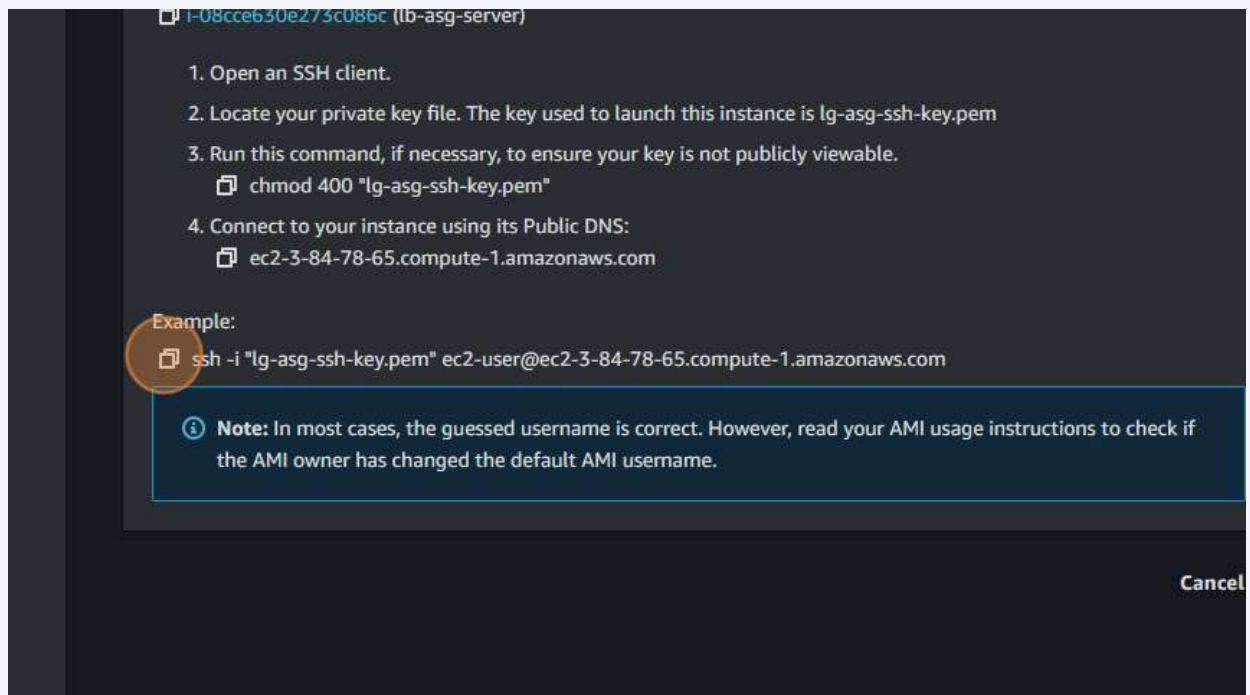
133 Click "Connect"



134 Click "SSH client"



135 Click here.



i-08cce630e273c086c (lg-asg-server)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is lg-asg-ssh-key.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
`chmod 400 "lg-asg-ssh-key.pem"`
4. Connect to your instance using its Public DNS:
`ec2-3-84-78-65.compute-1.amazonaws.com`

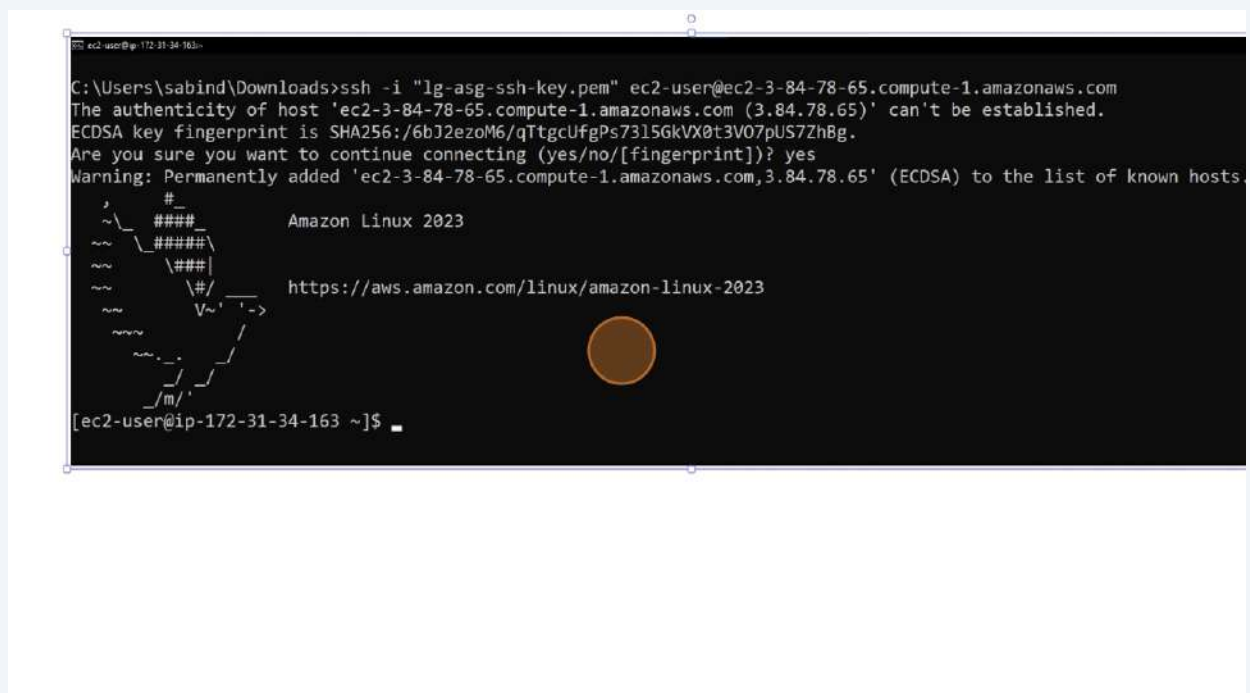
Example:

```
ssh -i "lg-asg-ssh-key.pem" ec2-user@ec2-3-84-78-65.compute-1.amazonaws.com
```

Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel

136 Click "Drawing canvas"



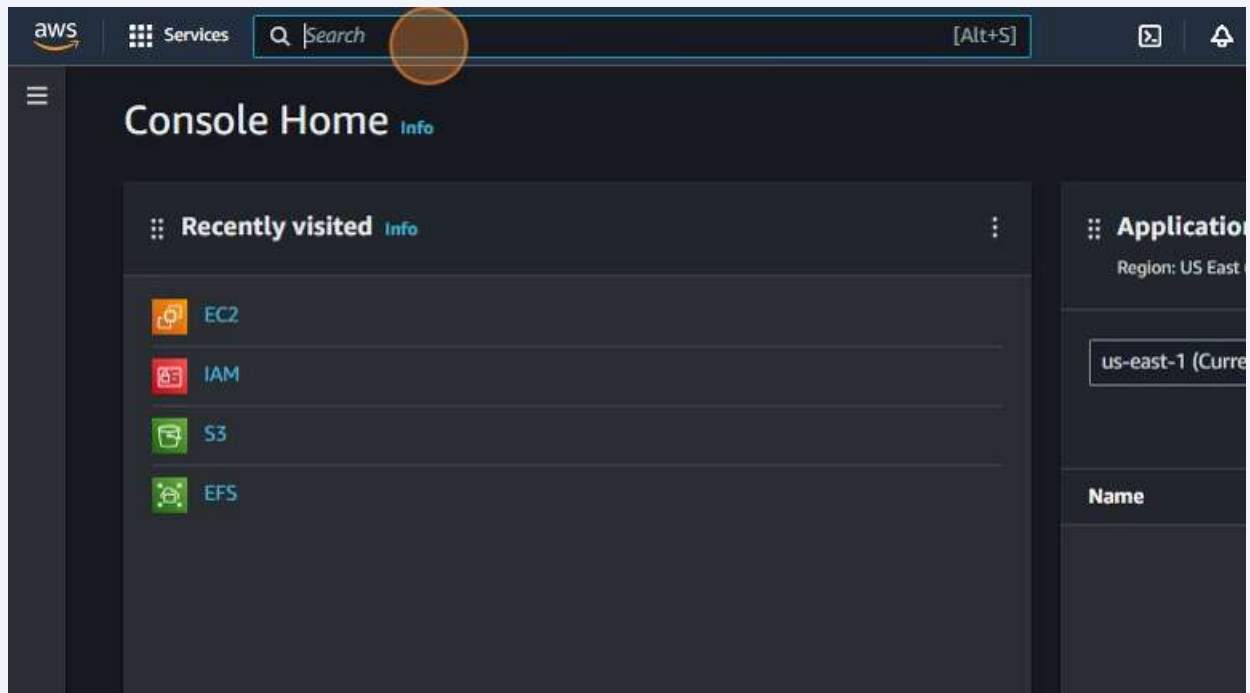
```
C:\Users\sabind\Downloads>ssh -i "lg-asg-ssh-key.pem" ec2-user@ec2-3-84-78-65.compute-1.amazonaws.com
The authenticity of host 'ec2-3-84-78-65.compute-1.amazonaws.com (3.84.78.65)' can't be established.
ECDSA key fingerprint is SHA256:/6bJ2ezoM6/qTtgcUfgPs73l5GkVX0t3V07pUS7ZhBg.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-84-78-65.compute-1.amazonaws.com,3.84.78.65' (ECDSA) to the list of known hosts.

#_
~\##### Amazon Linux 2023
~\#####
~\###\
~\#/\# https://aws.amazon.com/linux/amazon-linux-2023
~\V~'~>
~\_/_/
~\m/'
[ec2-user@ip-172-31-34-163 ~]$
```

VPC

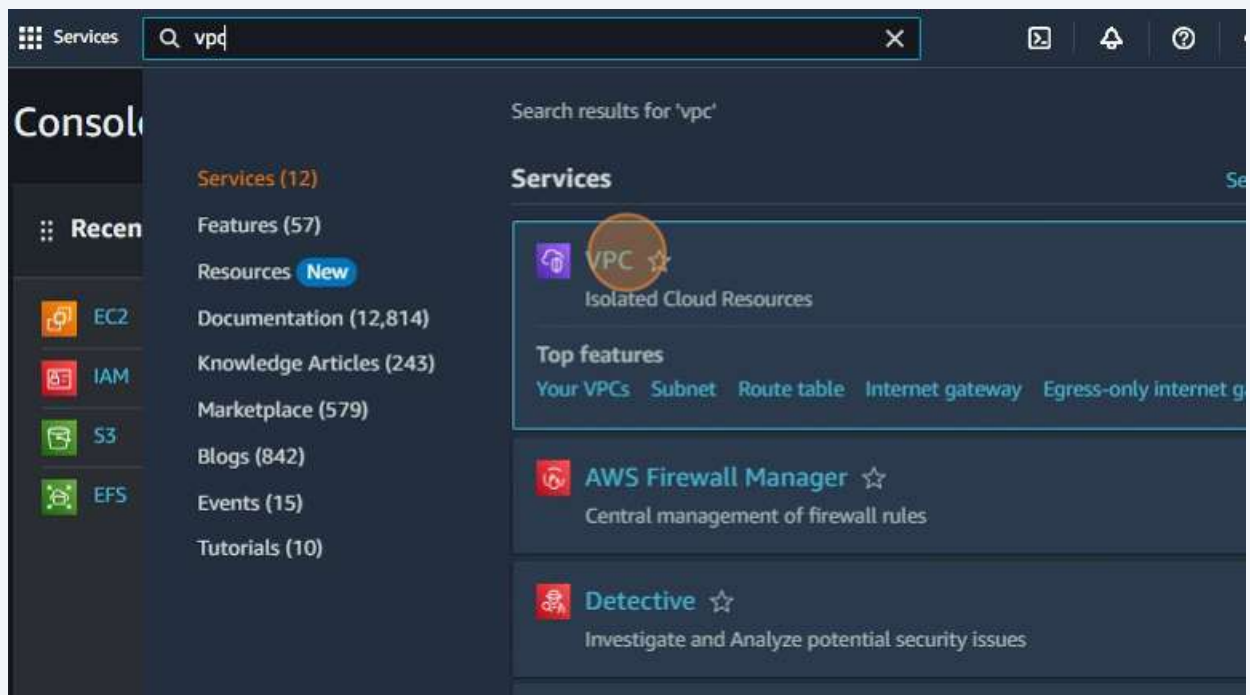
- 137 Navigate to <https://us-east-1.console.aws.amazon.com/console/home?region=us-east-1#>

- 138 Click the "Search" field.

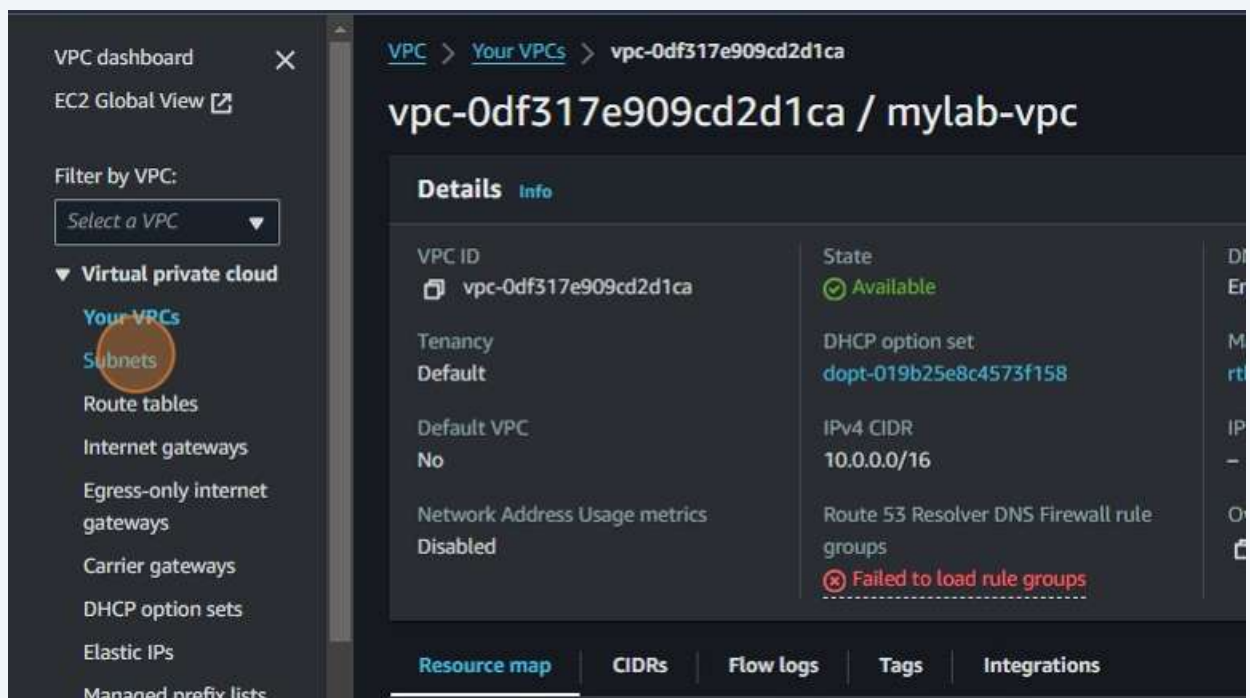


- 139 Type "vpc"

140 Click "VPC"



141 Click "Subnets"



142 Click the "10.0.0.0/20" field.

The name can be up to 256 characters long.

Availability Zone [Info](#)
Choose the zone in which your subnet will reside, or let Amazon choose one for you.

US East (N. Virginia) / us-east-1b ▼

IPv4 VPC CIDR block [Info](#)
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

10.0.0.0/16 ▼

IPv4 subnet CIDR block

10.0.99.0/24 256 IPs

< > ^ v

▼ **Tags - optional**

Key	Value - optional	
Q Name	Q lab-subnet-public2	Remove

Add new tag

You can add 49 more tags.

Remove

143 Click "Create subnet"

256 IPs

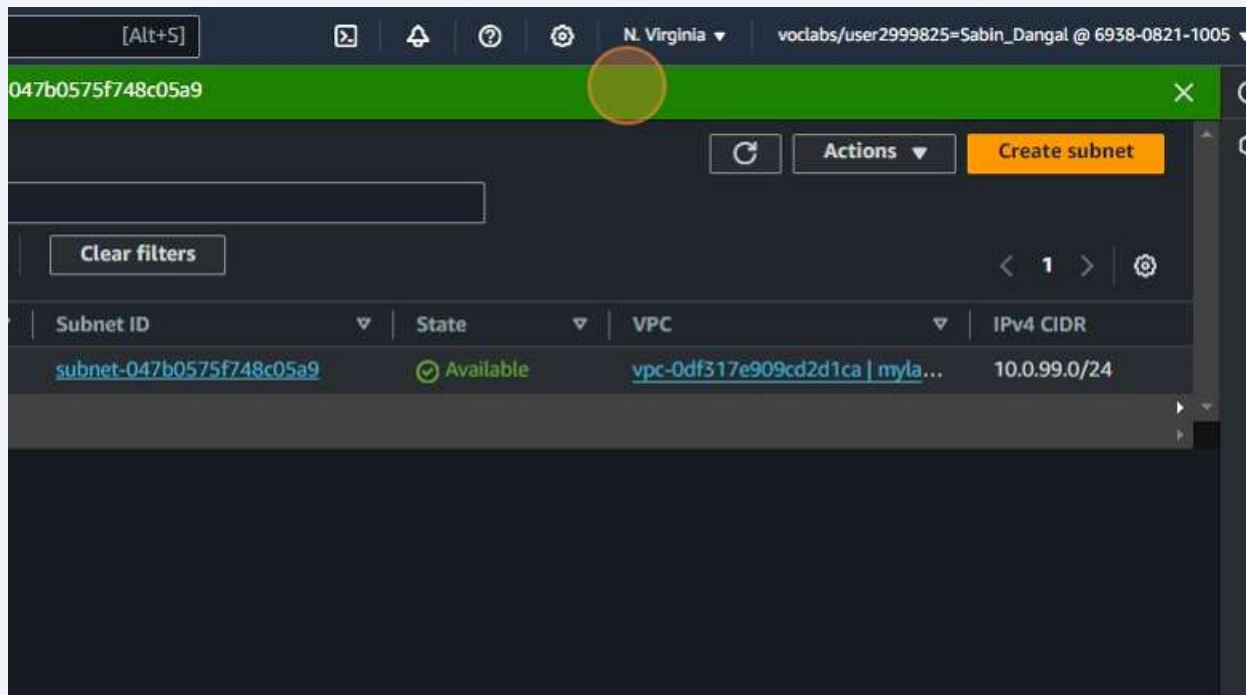
Value - optional

X	Q lab-subnet-public2	X	Remove
---	----------------------	---	--------

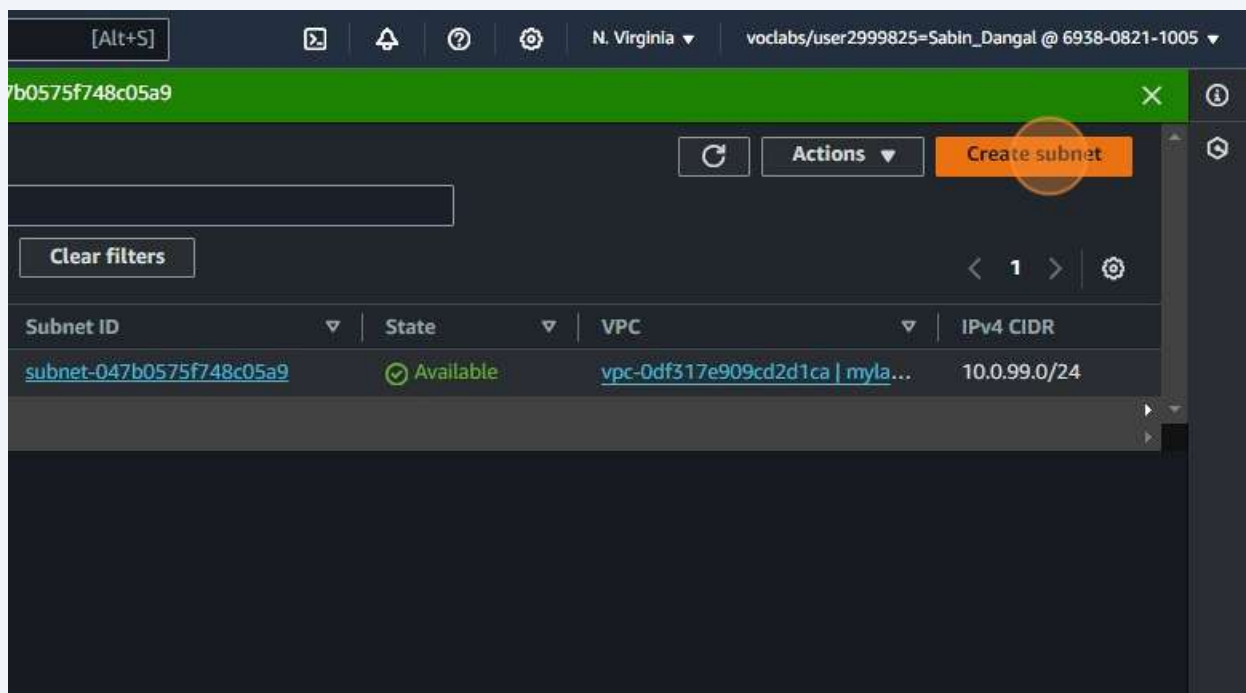
Cancel **Create subnet**

© 2024, Amazon Web Services, Inc. or its aff

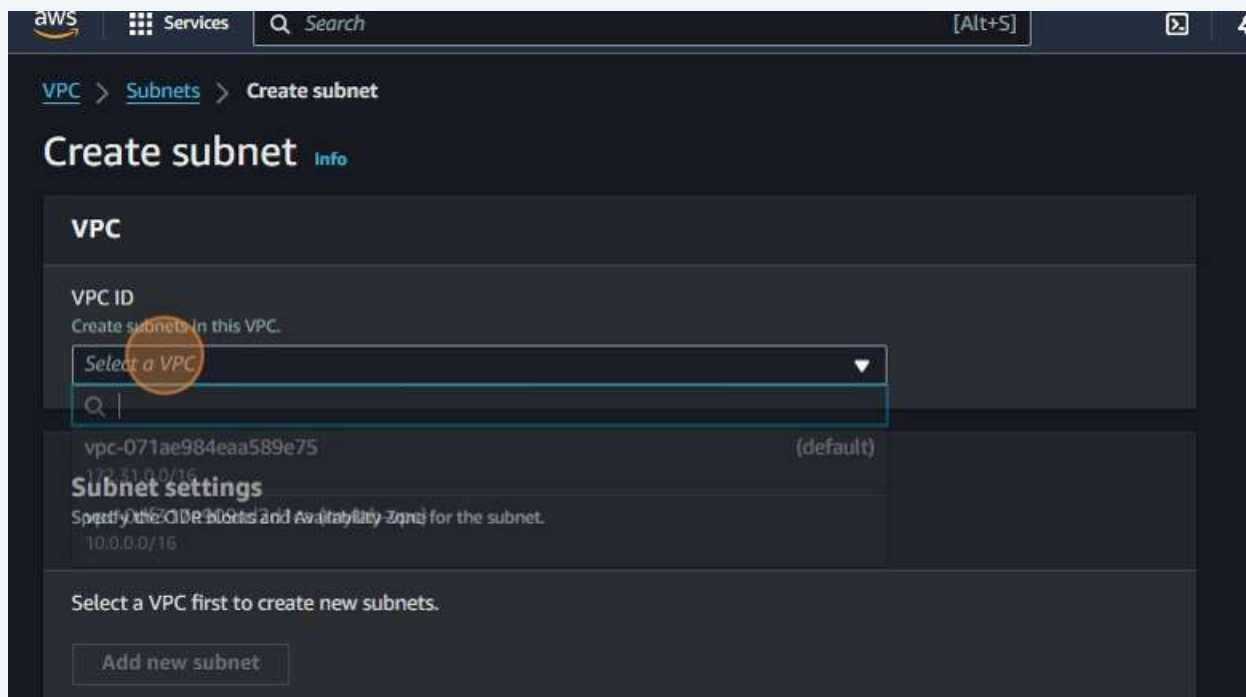
144 Click "You have successfully created 1 subnet: subnet-047b0575f748c05a9"



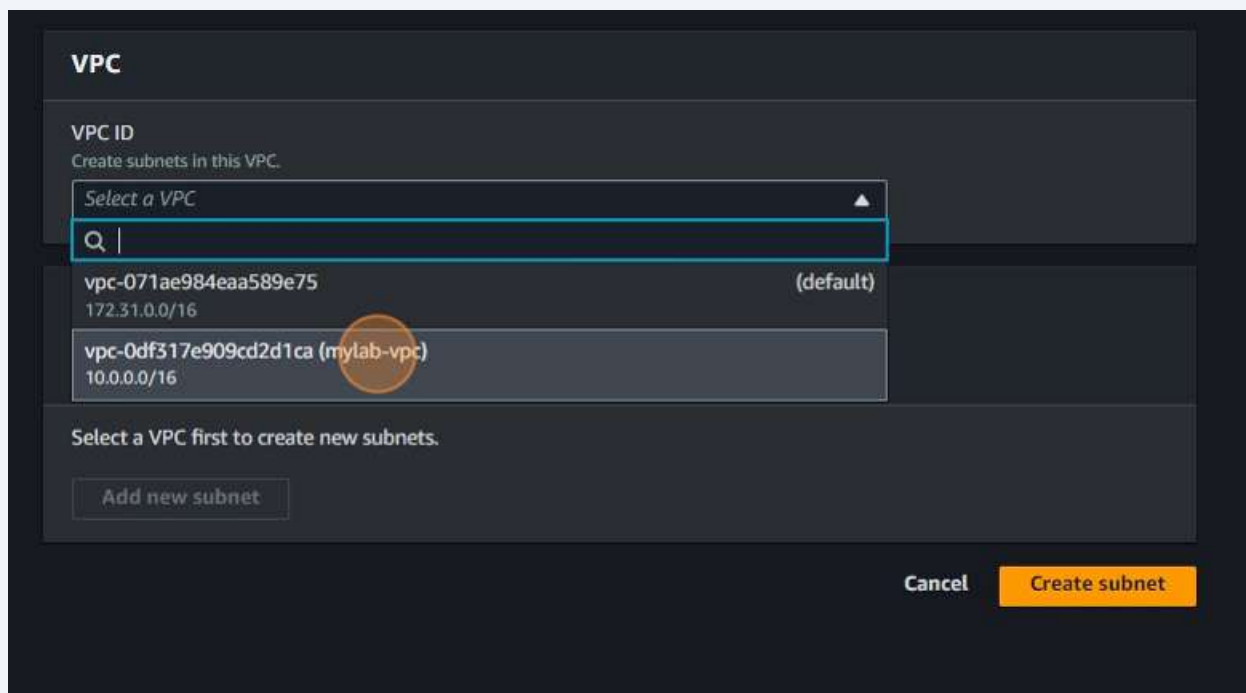
145 Click "Create subnet"



146 Click "Select a VPC"



147 Click "vpc-0df317e909cd2d1ca (mylab-vpc)"



148 Click the "Subnet name" field.

Subnet settings
Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name
Create a tag with a key of 'Name' and a value that you specify.

The name can be up to 256 characters long.

Availability Zone [Info](#)
Choose the zone in which your subnet will reside, or let Amazon choose one for you.

IPv4 VPC CIDR block [Info](#)
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

IPv4 subnet CIDR block

149 Type "mylab-subnet-private2"

150 Click "No preference"

The screenshot shows the AWS console configuration for a subnet. The 'Availability Zone' dropdown menu is open, and 'No preference' is selected. The dropdown menu is highlighted with a red circle. The 'No preference' option is also highlighted with a red circle. The 'Availability Zone' dropdown menu is located below the 'Subnet name' field and above the 'IPv4 VPC CIDR block' field. The 'Subnet name' field contains 'mylab-subnet-private2'. The 'IPv4 VPC CIDR block' field contains '10.0.0.0/16'. The 'IPv4 subnet CIDR block' field contains '10.0.0.0/20'. The 'Tags' section is expanded, showing 'optional' tags.

Subnet 1 of 1 (N. Virginia) / us-east-1c us-east-1

ID: use1-az2 Network border group: us-east-1

Subnet name

US East (N. Virginia) / us-east-1d us-east-1

Create a tag with a key of 'Name' and a value that you specify.

ID: use1-az4 Network border group: us-east-1

mylab-subnet-private2 us-east-1

US East (N. Virginia) / us-east-1e us-east-1

The name can be up to 256 characters long.

Availability Zone us-east-1

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

No preference ▼

IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

10.0.0.0/16 ▼

IPv4 subnet CIDR block

10.0.0.0/20

< > ^ v

▼ Tags - optional

151 Click "us-east-1"

The screenshot shows the AWS console configuration for a subnet. The 'Associated VPC CIDRs' dropdown menu is open, and 'us-east-1' is selected. The dropdown menu is highlighted with a red circle. The 'us-east-1' option is also highlighted with a red circle. The 'Associated VPC CIDRs' dropdown menu is located below the 'IPv4 CIDRs' field and above the 'Subnet name' field. The 'IPv4 CIDRs' field contains '10.0.0.0/16'. The 'Subnet name' field contains 'mylab-subnet-private2'. The 'IPv4 VPC CIDR block' field contains '10.0.0.0/16'. The 'IPv4 subnet CIDR block' field contains '10.0.0.0/20'. The 'Tags' section is expanded, showing 'optional' tags.

Associated VPC CIDRs

IPv4 CIDRs

10.0.0.0/16

Q |

No preference ✓

US East (N. Virginia) / us-east-1a us-east-1

ID: use1-az6 Network border group: us-east-1

US East (N. Virginia) / us-east-1b us-east-1

ID: use1-az1 Network border group: us-east-1

US East (N. Virginia) / us-east-1c us-east-1

ID: use1-az2 Network border group: us-east-1

US East (N. Virginia) / us-east-1d us-east-1

ID: use1-az4 Network border group: us-east-1

US East (N. Virginia) / us-east-1e us-east-1

ID: use1-az3 Network border group: us-east-1

US East (N. Virginia) / us-east-1f us-east-1

ID: use1-az5 Network border group: us-east-1

No preference

152 Click the "10.0.0.0/20" field.

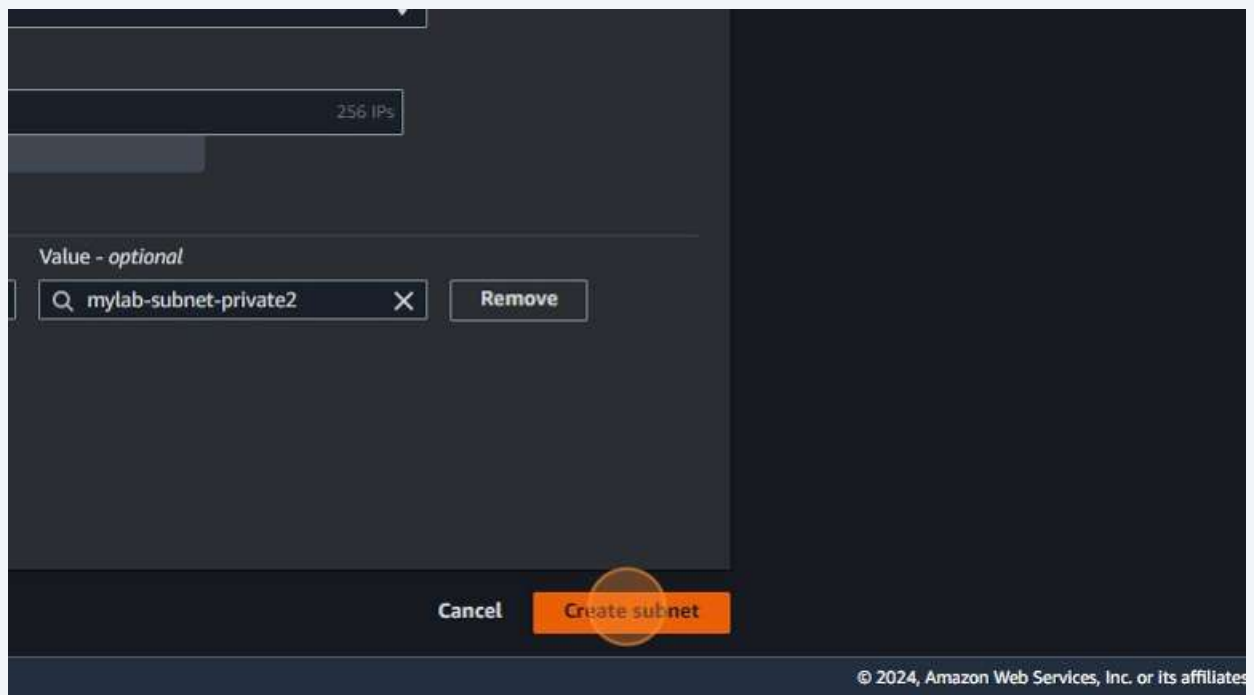
The screenshot shows the AWS console configuration for a subnet named "mylab-subnet-private2". The configuration includes the following fields:

- Availability Zone:** US East (N. Virginia) / us-east-1b
- IPv4 VPC CIDR block:** 10.0.0.0/16
- IPv4 subnet CIDR block:** 10.0.0.0/20 (highlighted with an orange circle)
- Tags - optional:** A table with two columns: Key and Value - optional. It contains one tag with Key "Name" and Value "mylab-subnet-private2". A blue circle highlights the "Add new tag" button.

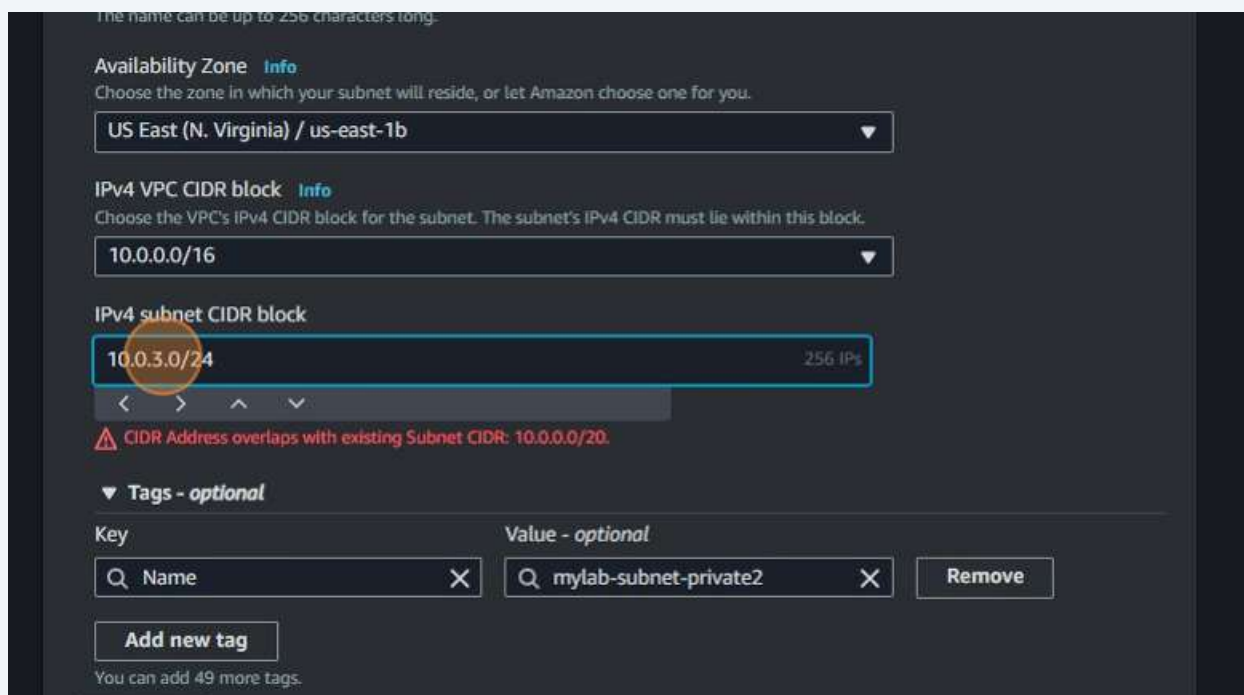
At the bottom of the console, there are links for "CloudShell" and "Feedback".

153 Type "10.0.3.0/24"

154 Click "Create subnet"

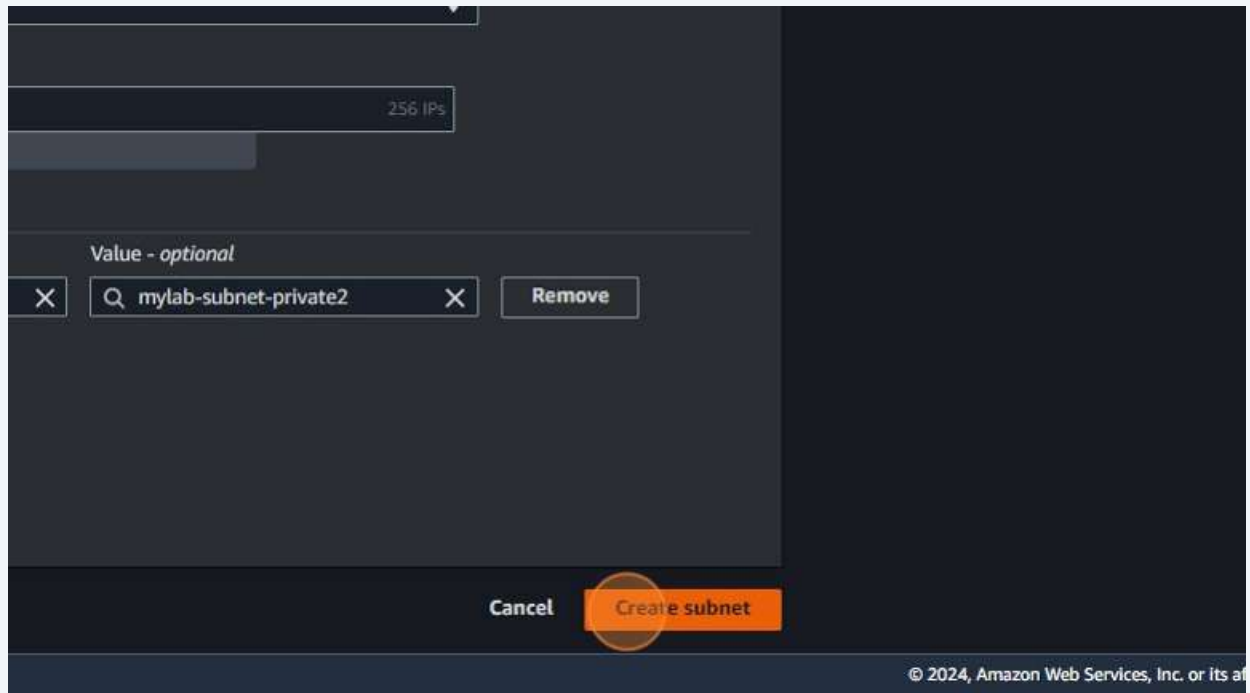


155 Click the "10.0.0.0/20" field.

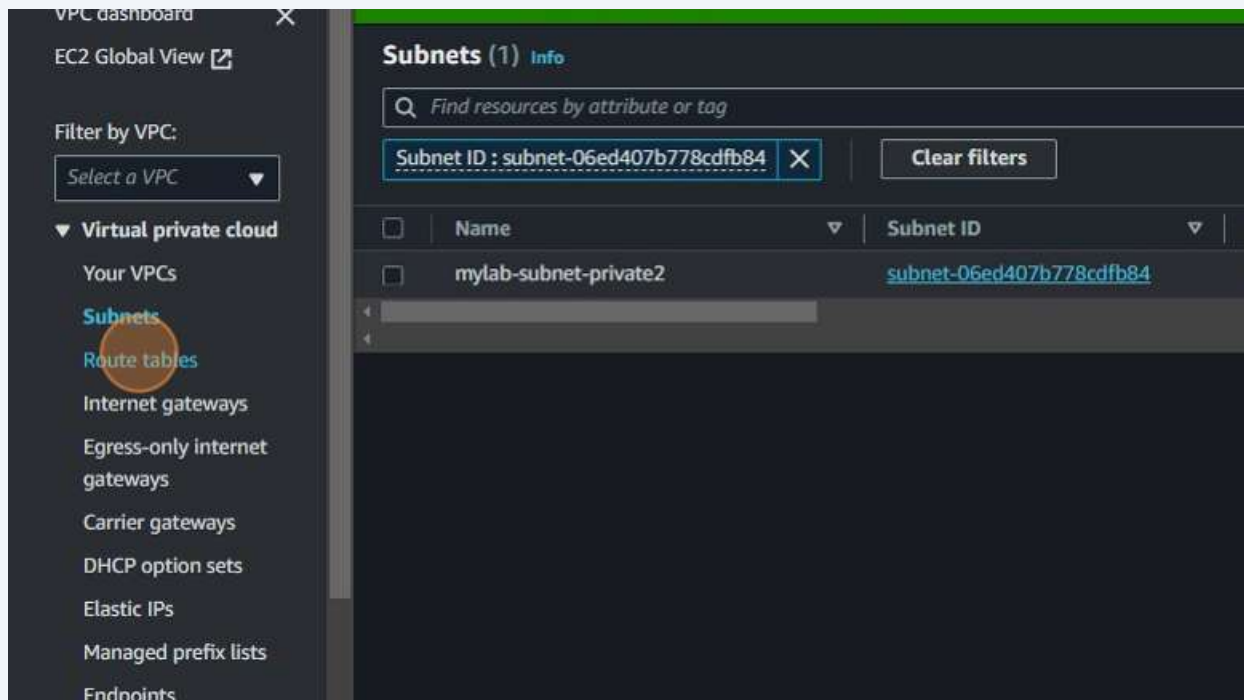


156 Type " **Backspace** 98"

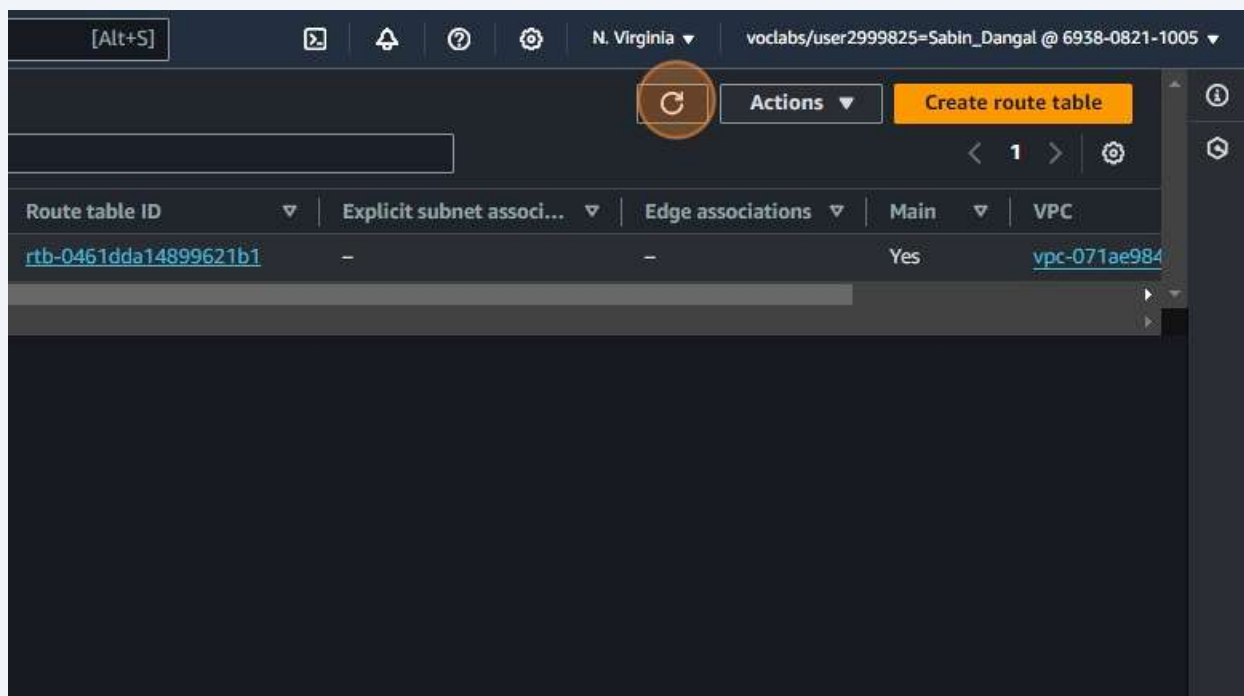
157 Click "Create subnet"



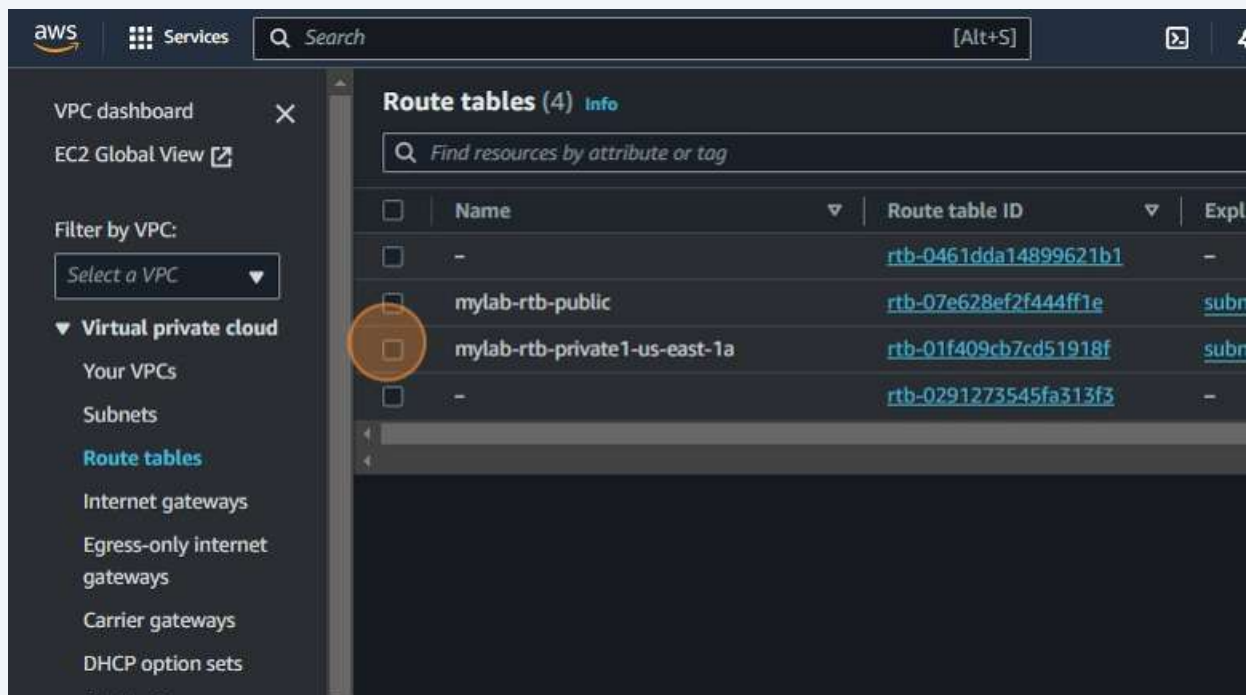
158 Click "Route tables"



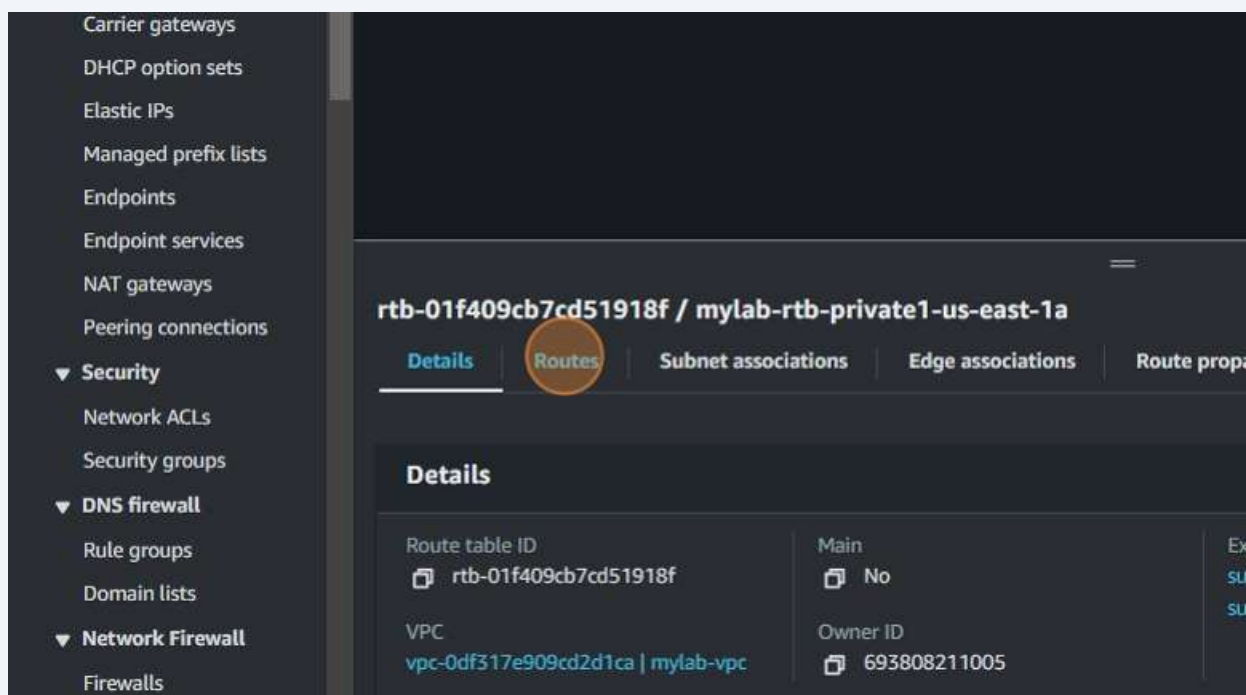
159 Click here.



160 Click this checkbox.



161 Click "Routes"



162 Click "0.0.0.0/0"

The screenshot shows the AWS Management Console interface for a route table named `rtb-01f409cb7cd51918f / mylab-rtb-private1-us-east-1a`. The 'Routes' tab is selected, displaying a table of routes. The route with destination `0.0.0.0/0` is highlighted with a red circle. The table shows three routes, all with a status of 'Active'.

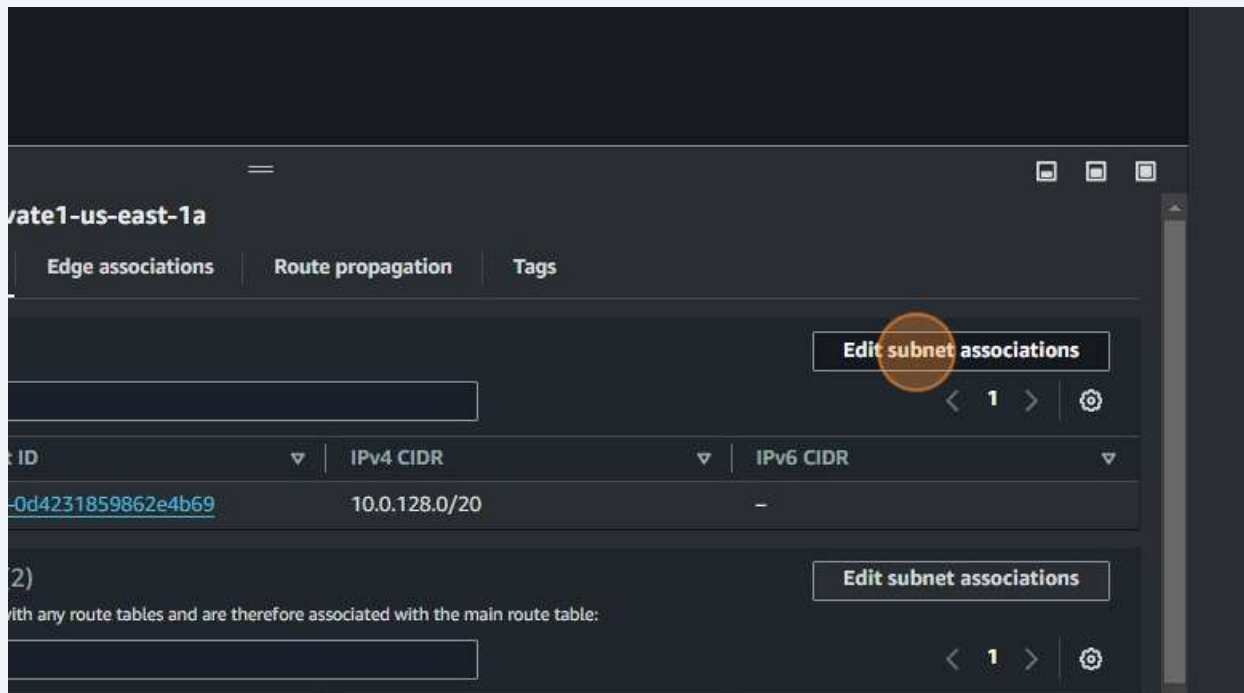
Destination	Target	Status
pl-63a5400a	vpce-02a25b0de00ee1af0	Active
0.0.0.0/0	nat-0eb09a0078cdb3fae	Active
10.0.0.0/16	local	Active

163 Click "Subnet associations"

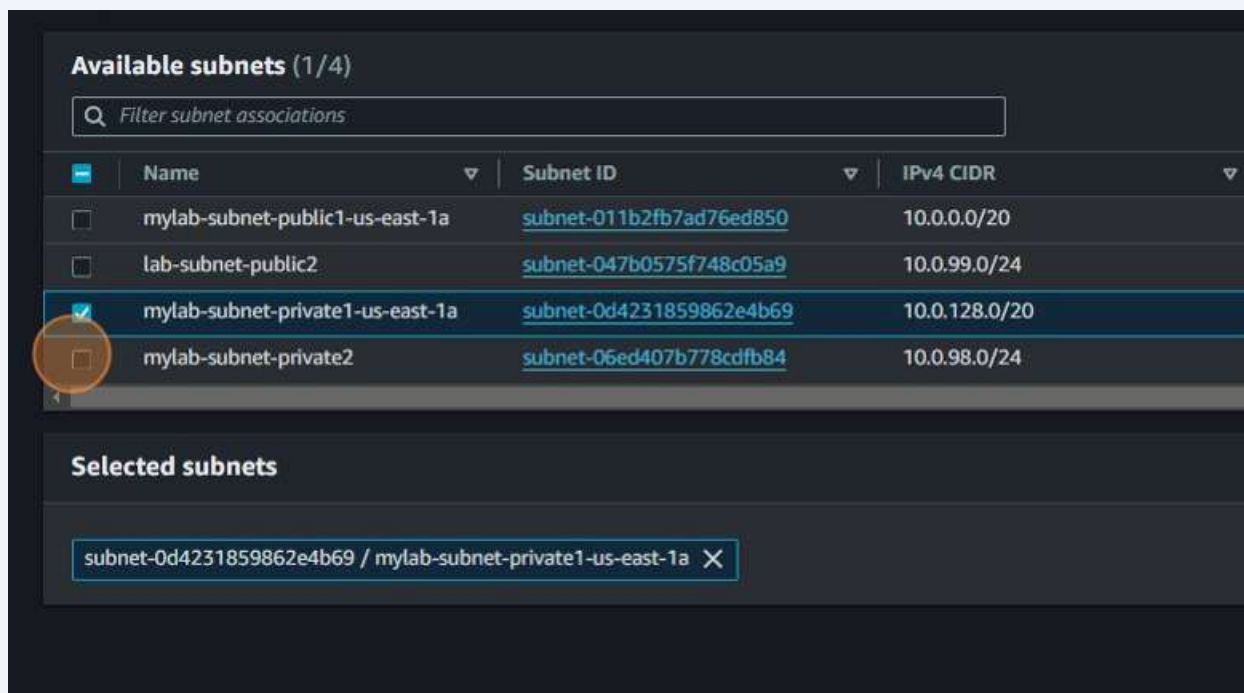
The screenshot shows the AWS Management Console interface for the same route table. The 'Subnet associations' tab is selected and highlighted with a red circle. The 'Routes' tab is also visible, showing the same three routes as in the previous screenshot.

Destination	Target	Status
pl-63a5400a	vpce-02a25b0de00ee1af0	Active
0.0.0.0/0	nat-0eb09a0078cdb3fae	Active
10.0.0.0/16	local	Active

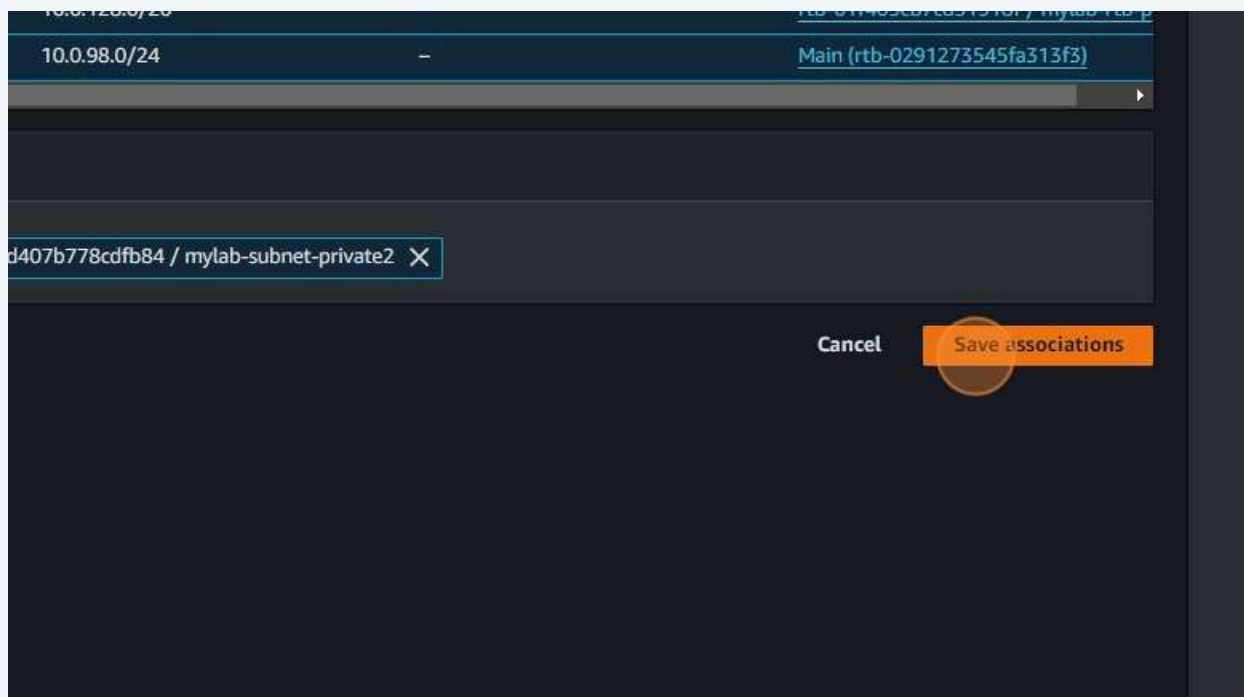
164 Click "Edit subnet associations"



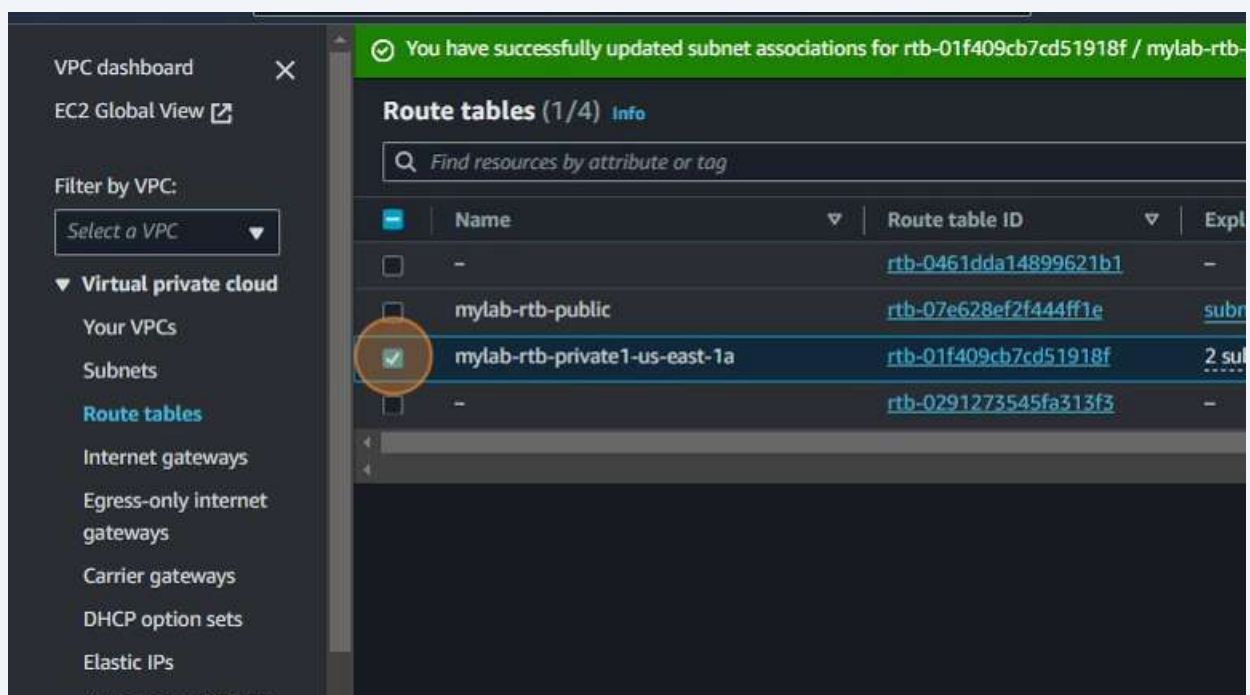
165 Click this checkbox.



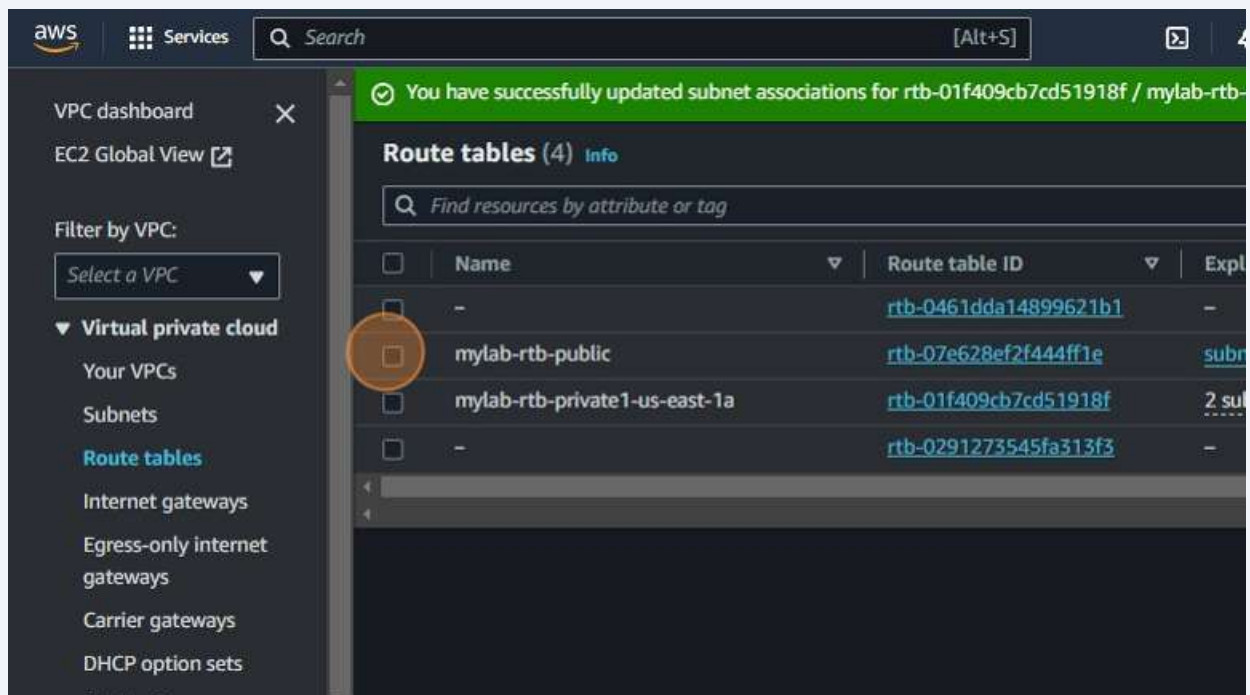
166 Click "Save associations"



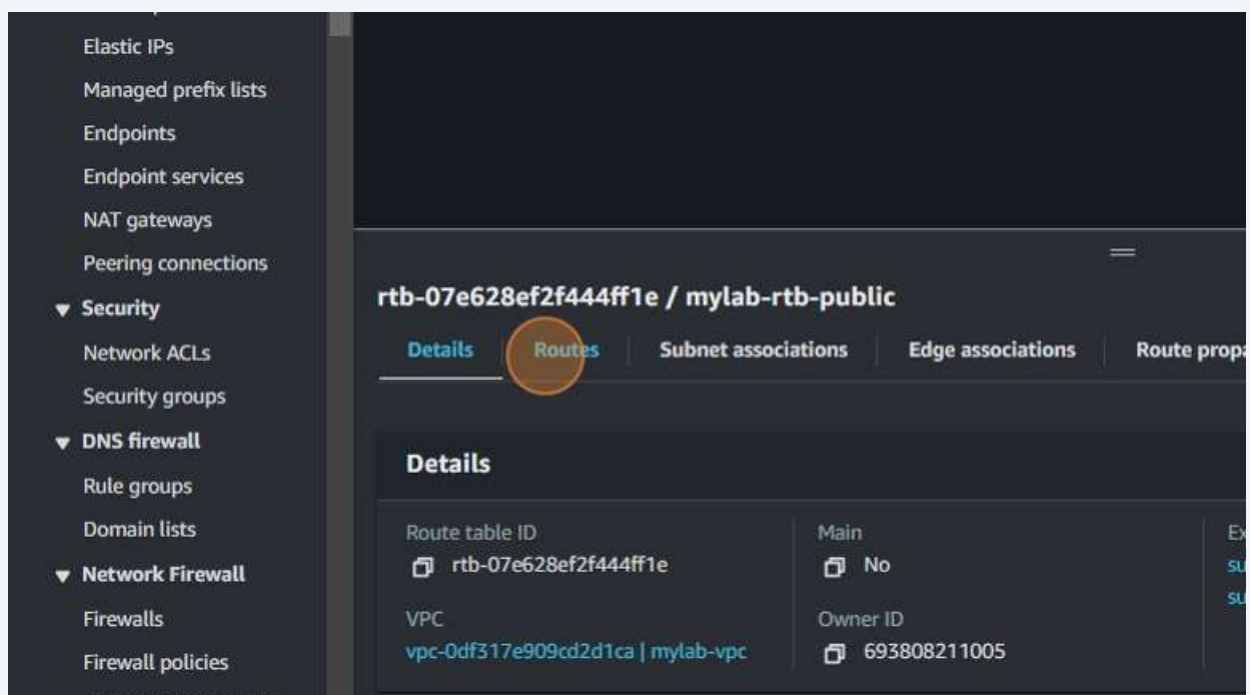
167 Click this checkbox.



168 Click this checkbox.



169 Click "Routes"



170 Click "0.0.0.0/0"

The screenshot shows the AWS Management Console interface for a route table named 'rtb-07e628ef2f444ff1e / mylab-rtb-public'. The 'Routes' tab is selected, showing a table with two routes. The first route has a destination of '0.0.0.0/0' and a target of 'igw-0e24d64d71b29a226', with a status of 'Active'. A red circle highlights the '0.0.0.0/0' destination. The second route has a destination of '10.0.0.0/16' and a target of 'local', also with a status of 'Active'.

Destination	Target	Status
0.0.0.0/0	igw-0e24d64d71b29a226	Active
10.0.0.0/16	local	Active

171 Click "Subnet associations"

The screenshot shows the AWS Management Console interface for the same route table. The 'Subnet associations' tab is selected, indicated by a red circle. The 'Routes' tab is also visible, showing the same two routes as in the previous screenshot.

Destination	Target	Status
0.0.0.0/0	igw-0e24d64d71b29a226	Active
10.0.0.0/16	local	Active

172 Click here.

The screenshot shows the AWS Management Console interface for a route table named **rtb-07e628ef2f444ff1e / mylab-rtb-public**. The **Subnet associations** tab is selected. It displays two sections: **Explicit subnet associations (1)** and **Subnets without explicit associations (1)**. A red circle highlights the **Subnet ID** column header in the first table.

Name	Subnet ID	IPv4 CIDR
mylab-subnet-public1-us-east-1a	subnet-011b2fb7ad76ed850	10.0.0.0/20

Name	Subnet ID	IPv4 CIDR
lab-subnet-public2	subnet-047b0575f748c05a9	10.0.99.0/24

173 Click "Edit subnet associations"

The screenshot shows the AWS Management Console interface for the same route table. The **Subnet associations** tab is selected. A red circle highlights the **Edit subnet associations** button. Below the button, there is a table with columns **Subnet ID**, **IPv4 CIDR**, and **IPv6 CIDR**. The first row shows the subnet [subnet-011b2fb7ad76ed850](#) with IPv4 CIDR **10.0.0.0/20** and IPv6 CIDR **-**.

Subnet ID	IPv4 CIDR	IPv6 CIDR
subnet-011b2fb7ad76ed850	10.0.0.0/20	-

174 Click this checkbox.

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/4)

Q Filter subnet associations

	Name	Subnet ID	IPv4 CIDR
<input checked="" type="checkbox"/>	mylab-subnet-public1-us-east-1a	subnet-011b2fb7ad76ed850	10.0.0.0/20
<input type="checkbox"/>	lab-subnet-public2	subnet-047b0575f748c05a9	10.0.99.0/24
<input type="checkbox"/>	mylab-subnet-private1-us-east-1a	subnet-0d4231859862e4b69	10.0.128.0/20
<input type="checkbox"/>	mylab-subnet-private2	subnet-06ed407b778cdfb84	10.0.98.0/24

Selected subnets

[subnet-011b2fb7ad76ed850 / mylab-subnet-public1-us-east-1a](#) X

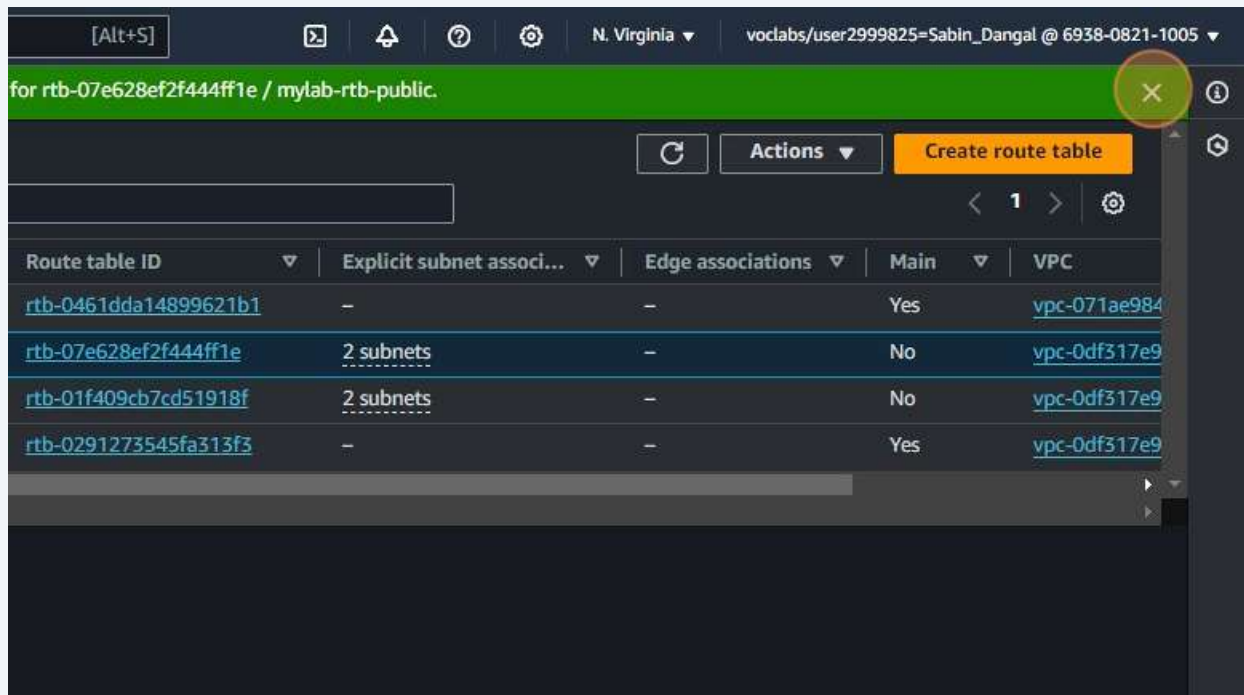
175 Click "Save associations"

10.0.128.0/20	-	rtb-01f409cb7cd51918f / mylab-rtb-p
10.0.98.0/24	-	rtb-01f409cb7cd51918f / mylab-rtb-p

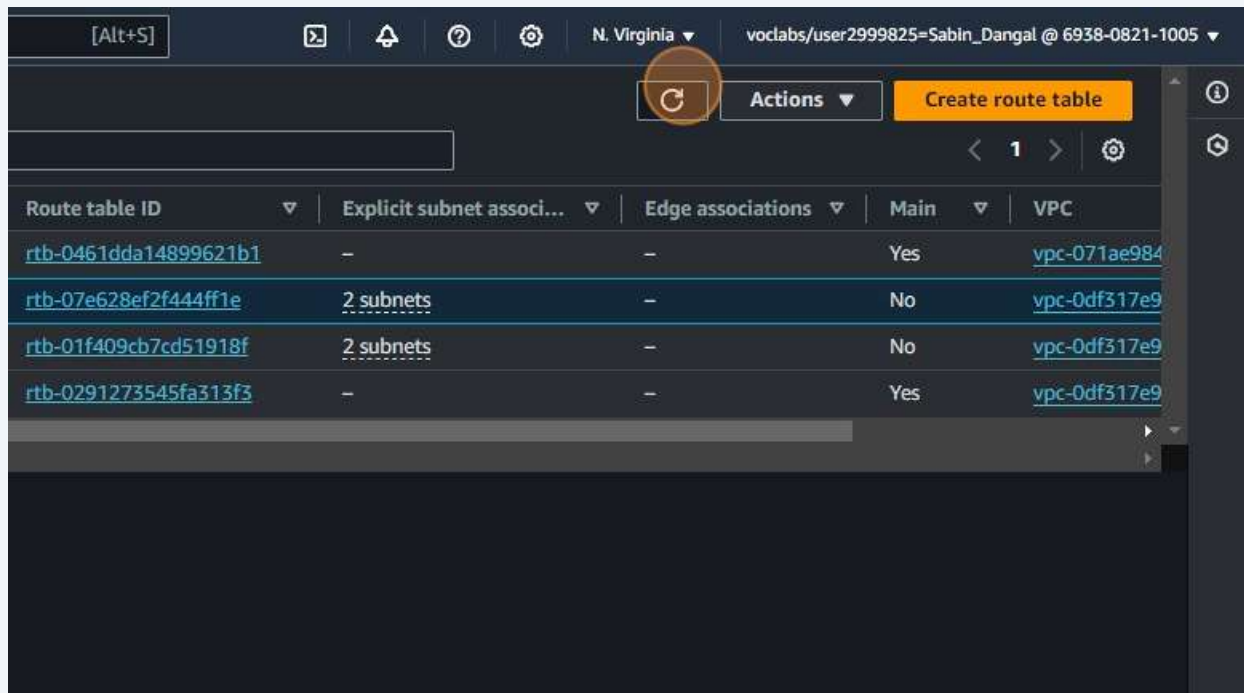
[0575f748c05a9 / lab-subnet-public2](#) X

Cancel Save associations

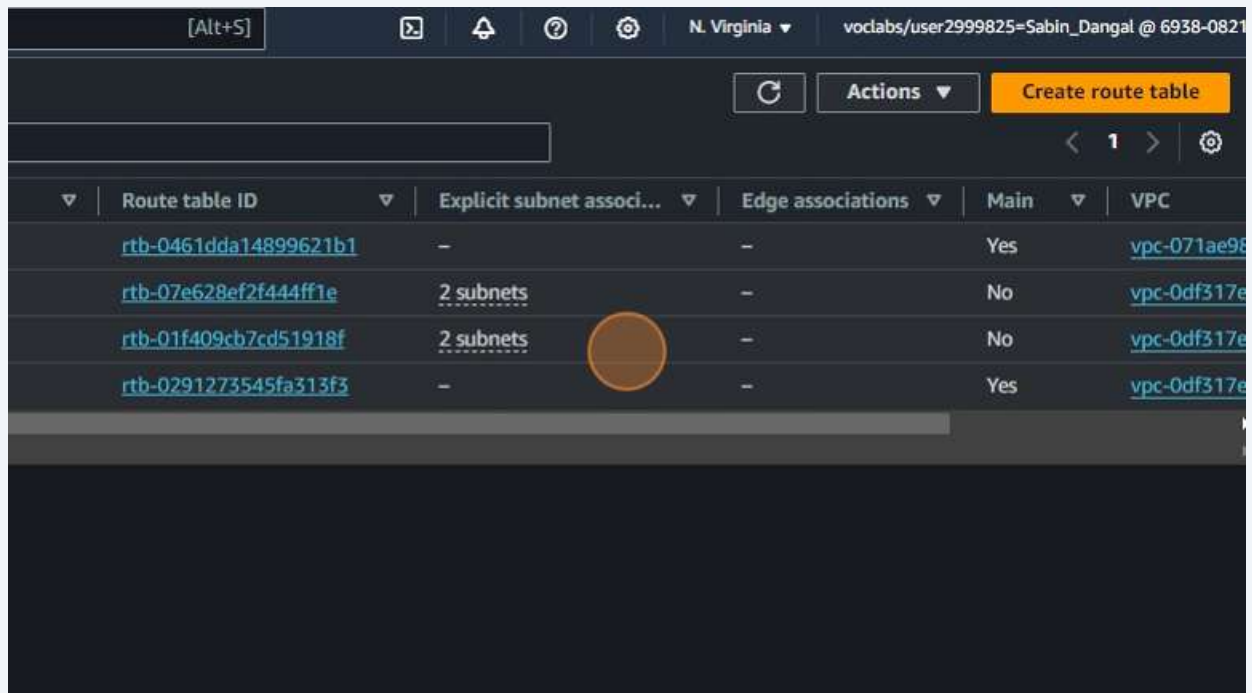
176 Click here.



177 Click this button.



178 Click "2 subnets"



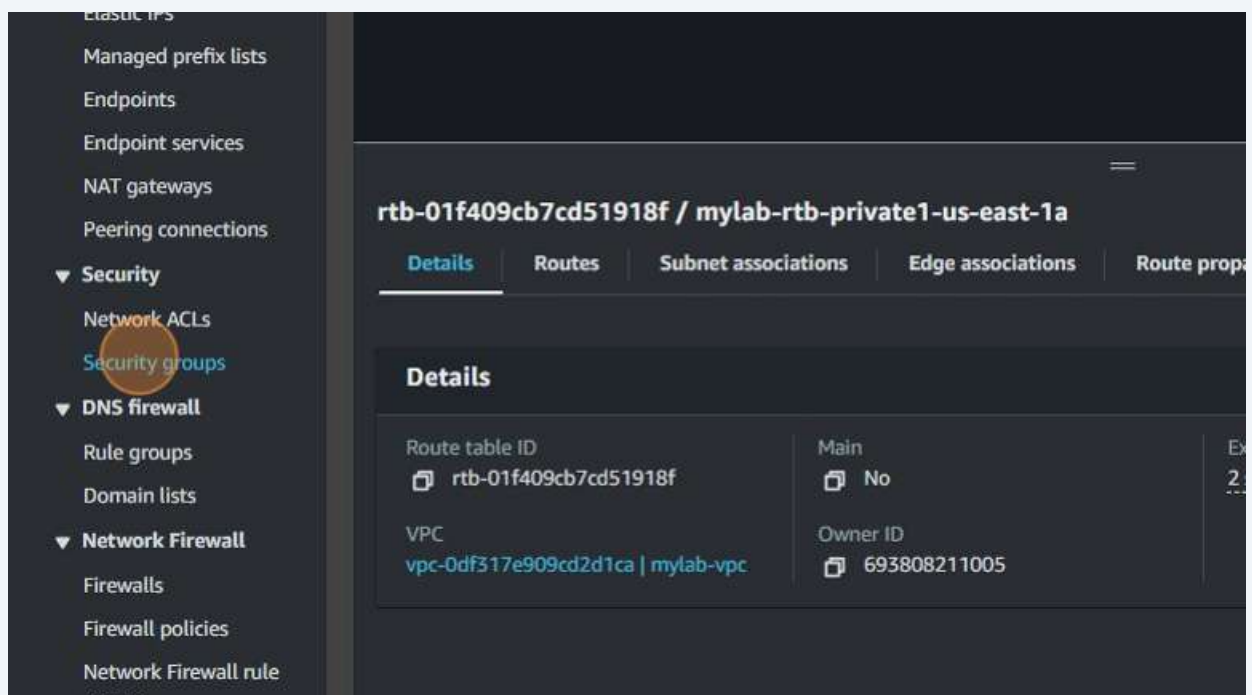
[Alt+S] N. Virginia voclabs/user2999825=Sabin_Dangal @ 6938-0821

Actions [Create route table](#)

< 1 >

	Route table ID		Explicit subnet associ...		Edge associations		Main		VPC
	rtb-0461dda14899621b1		-		-		Yes		vpc-071ae98
	rtb-07e628ef2f444ff1e		2 subnets		-		No		vpc-0df317e
	rtb-01f409cb7cd51918f		2 subnets		-		No		vpc-0df317e
	rtb-0291273545fa313f3		-		-		Yes		vpc-0df317e

179 Click "Security groups"



Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Peering connections
▼ Security
 Network ACLs
 Security groups
▼ DNS firewall
 Rule groups
 Domain lists
▼ Network Firewall
 Firewalls
 Firewall policies
 Network Firewall rule groups

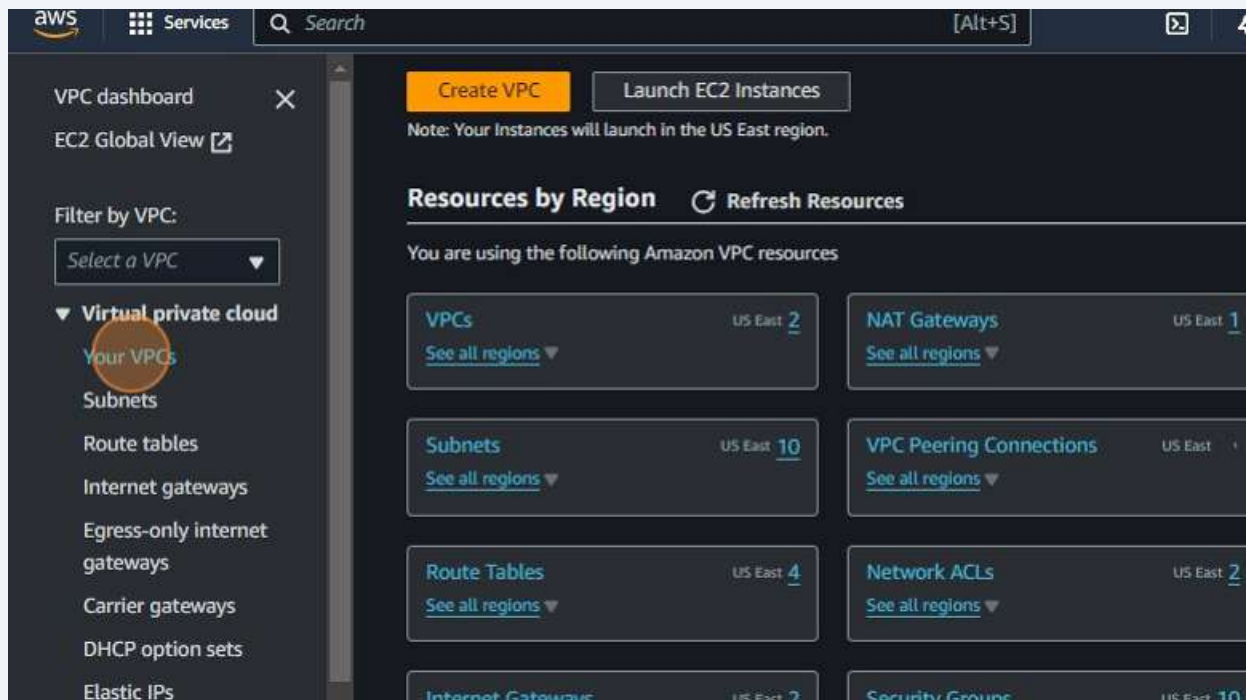
rtb-01f409cb7cd51918f / mylab-rtb-private1-us-east-1a

[Details](#) [Routes](#) [Subnet associations](#) [Edge associations](#) [Route propo](#)

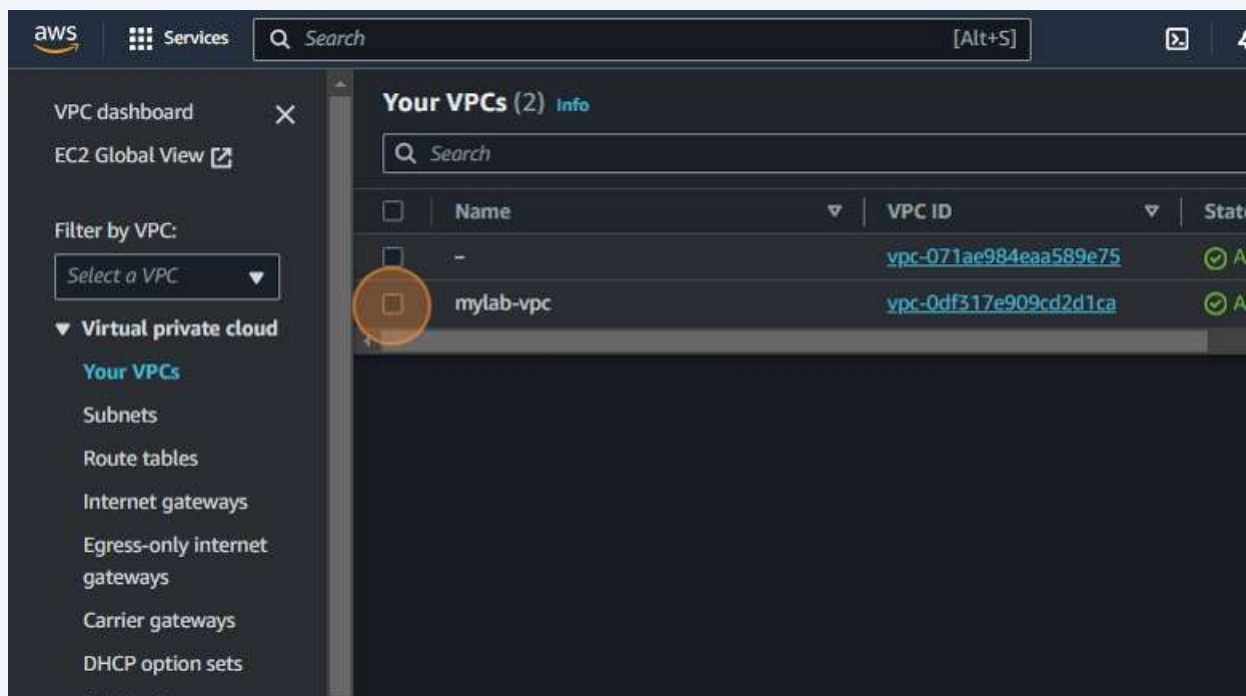
Details

Route table ID	main	Ex
rtb-01f409cb7cd51918f	No	2
VPC	Owner ID	
vpc-0df317e909cd2d1ca mylab-vpc	693808211005	

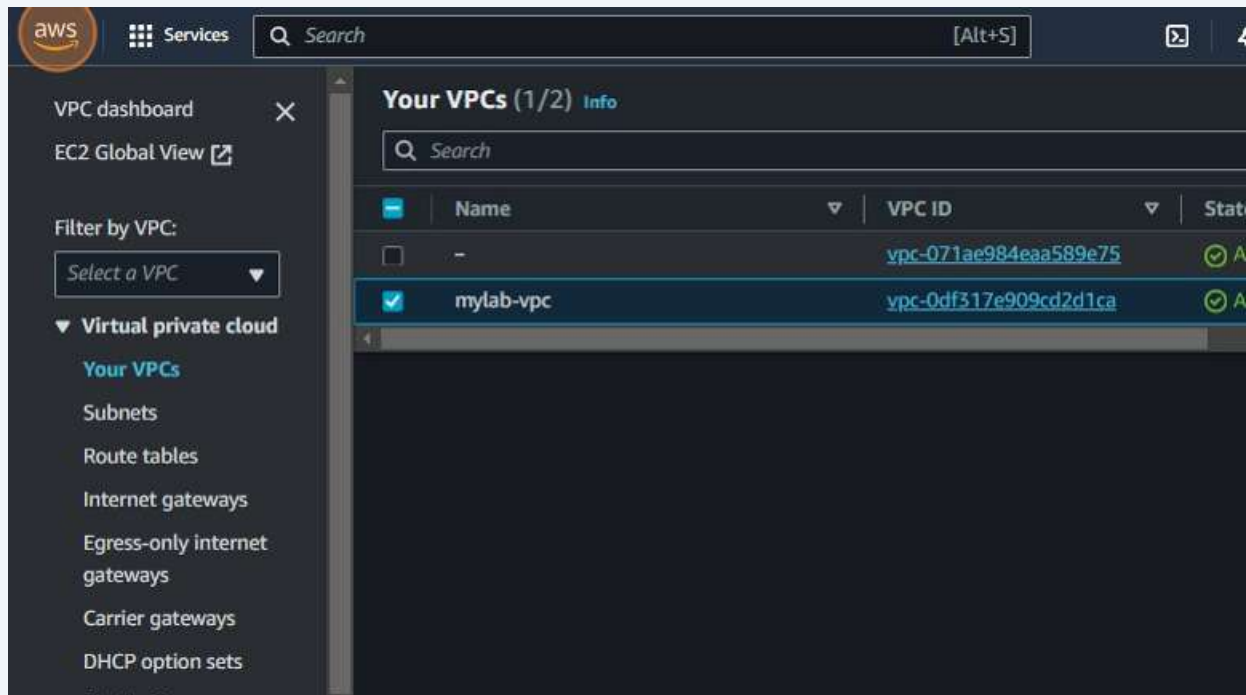
180 Click "Your VPCs"



181 Click this checkbox.

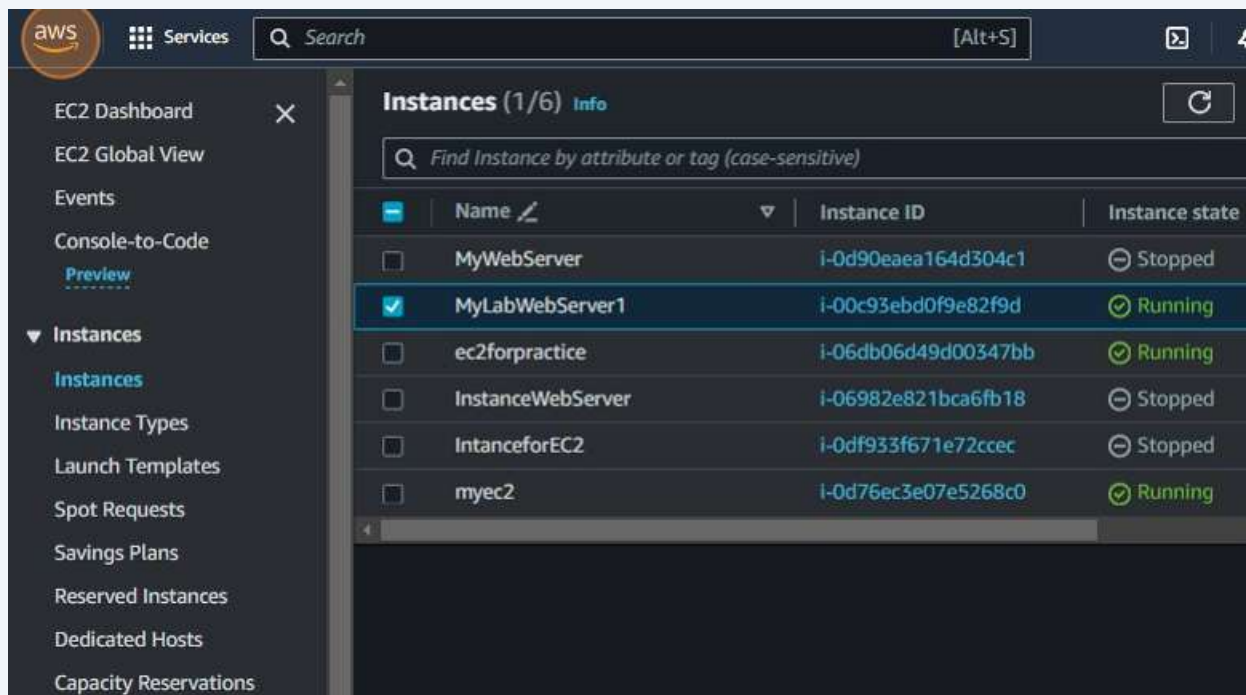


182 Click this link.

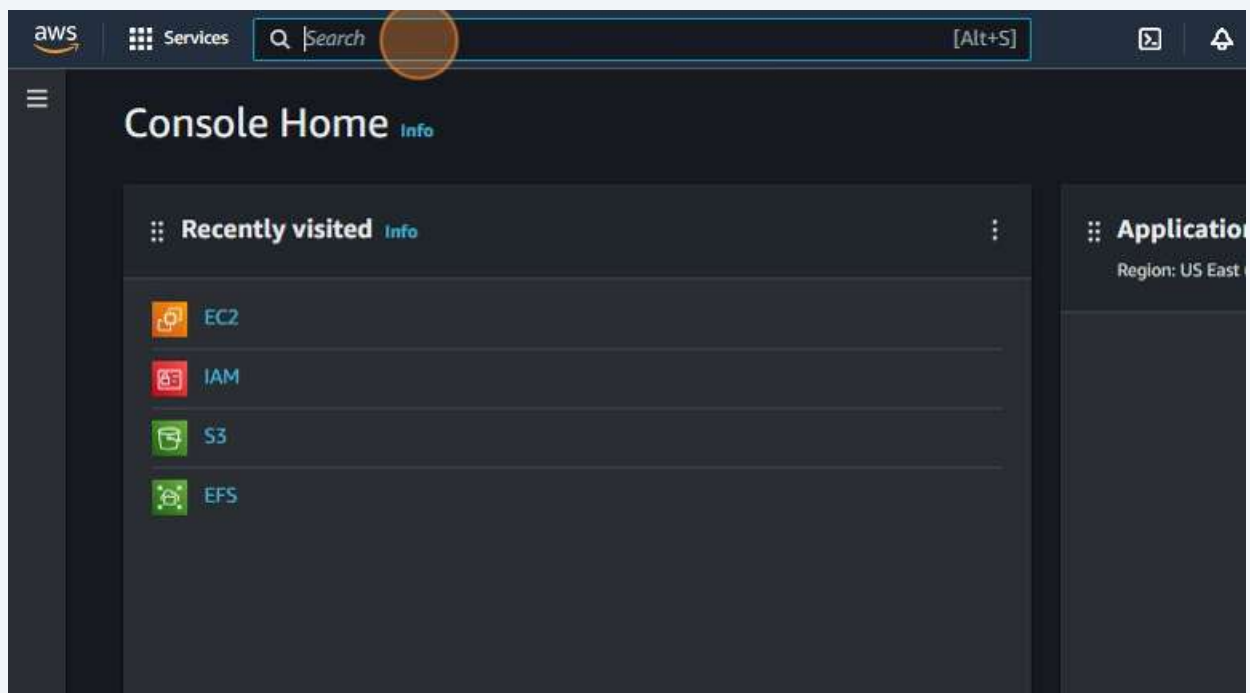


183 Navigate to [https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;\\$case=tags:true%5C,client:false;\\$regex=tags:false%5C,client:false](https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false)

184 Click this link.

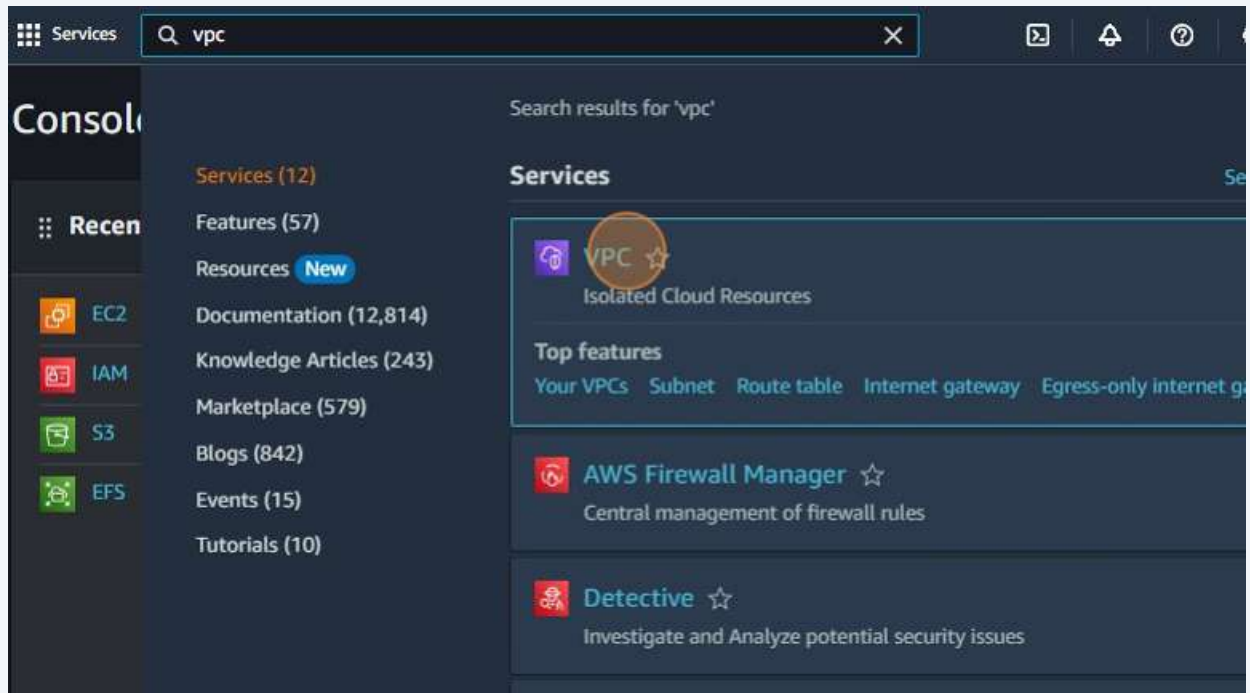


185 Click the "Search" field.

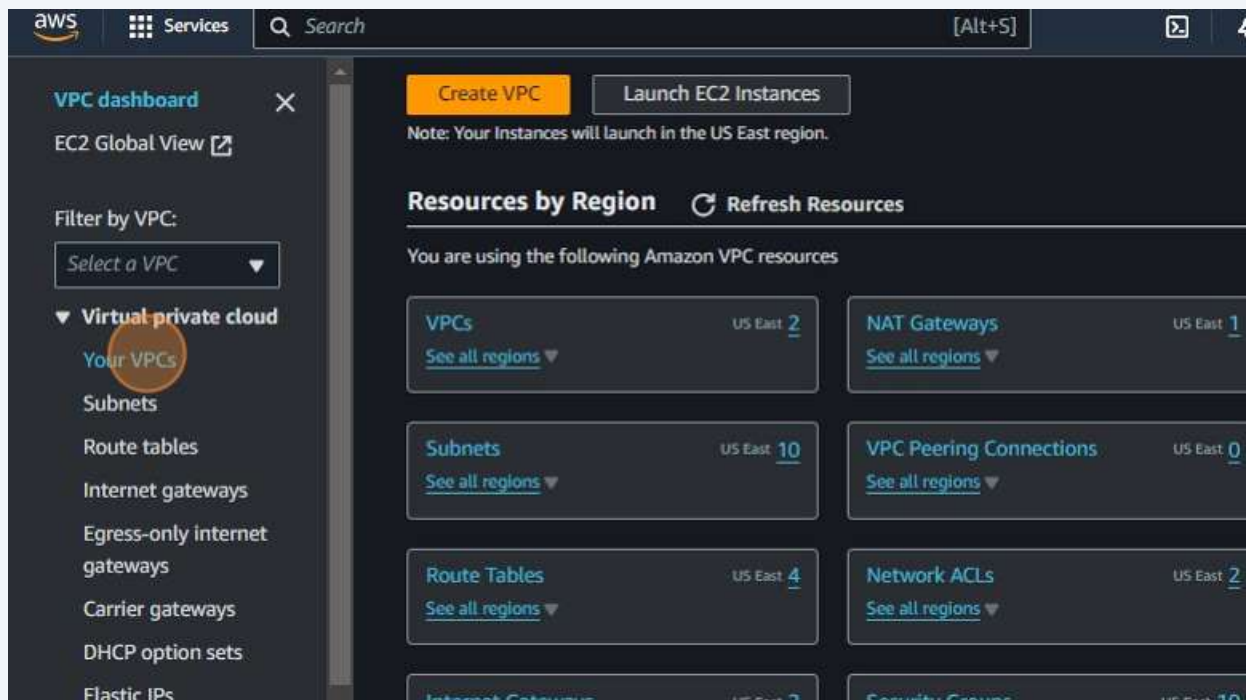


186 Type "vpc"

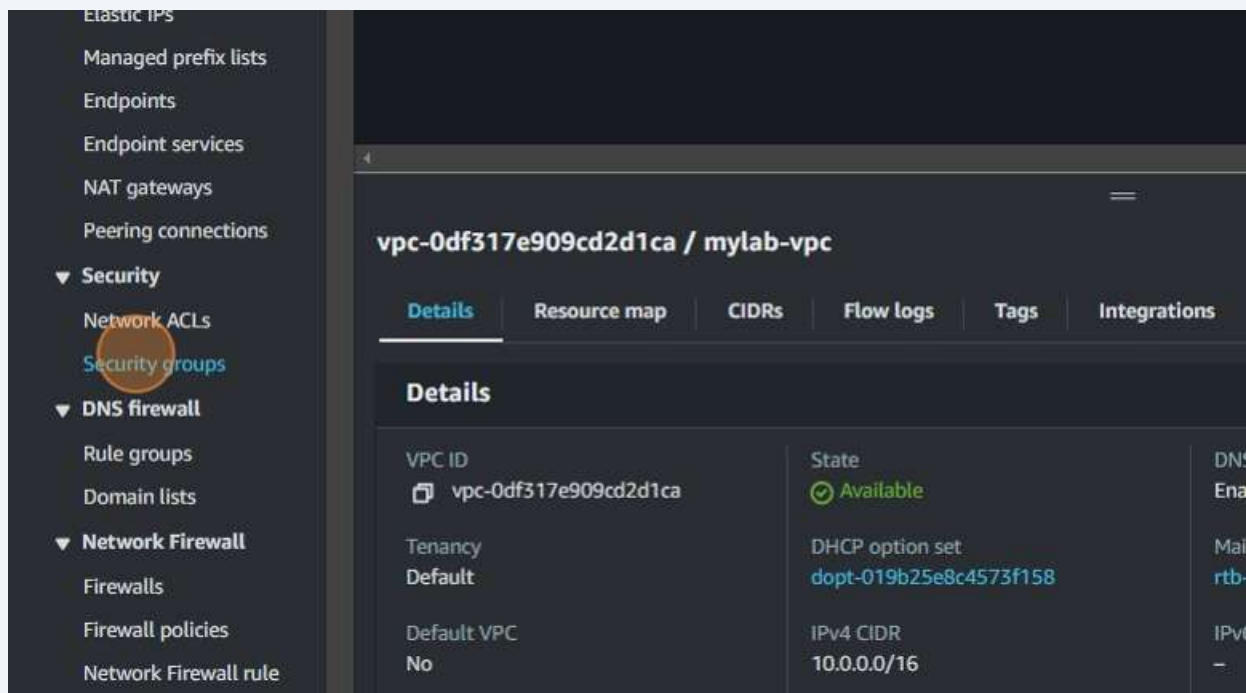
187 Click "VPC"



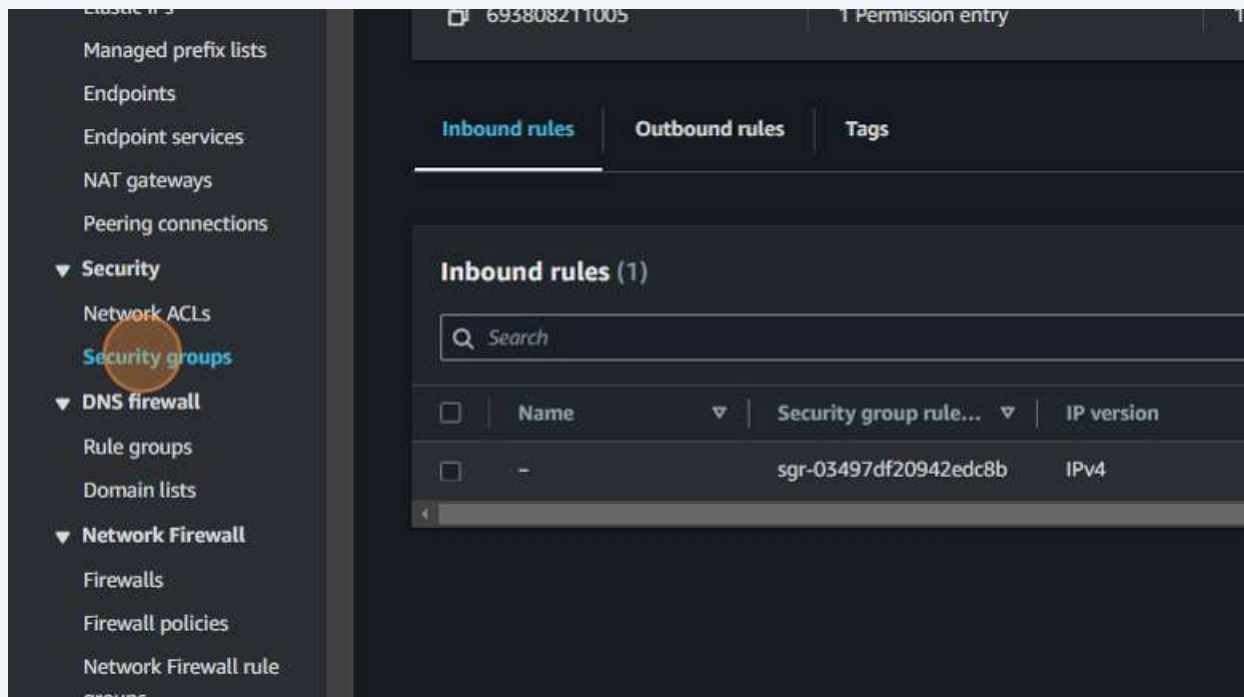
188 Click "Your VPCs"



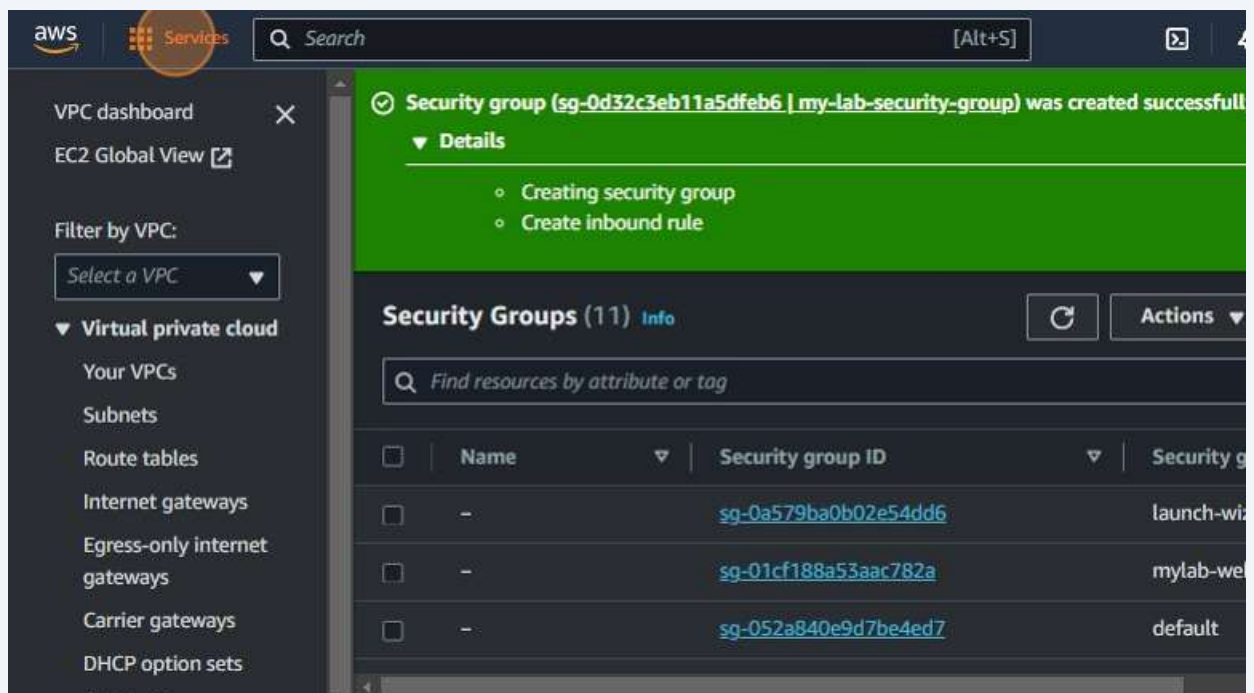
189 Click "Security groups"



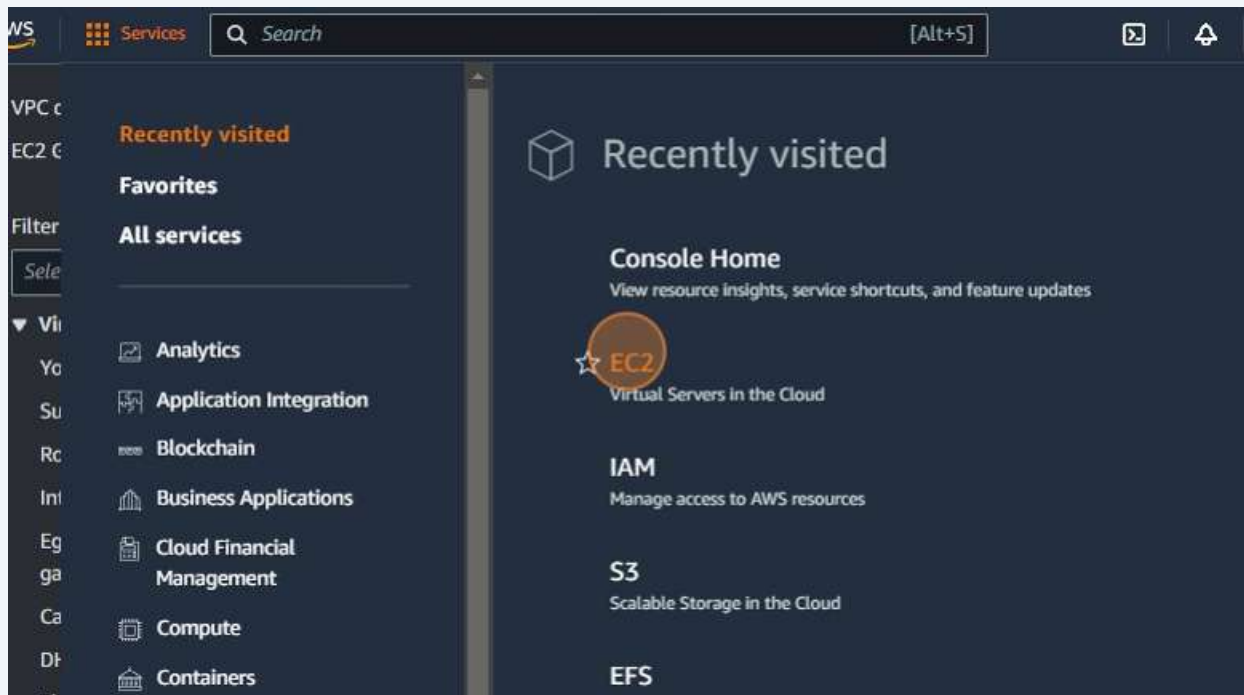
190 Click "Security groups"



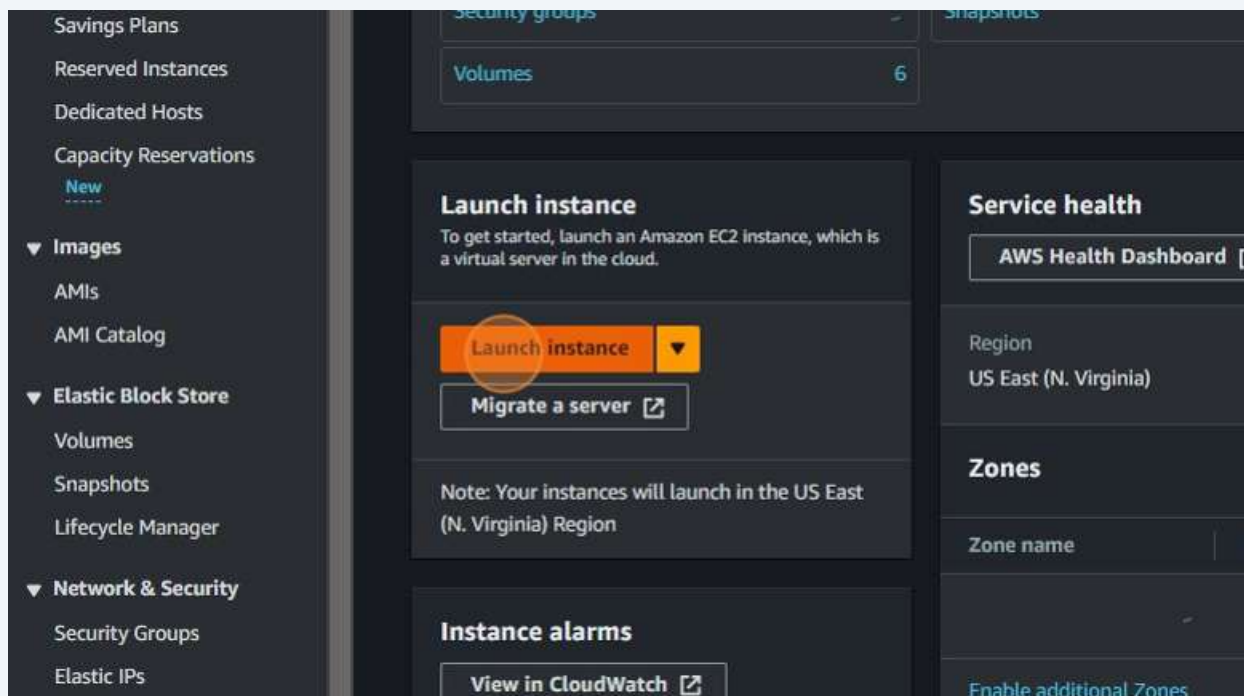
191 Click "Services"



192 Click "EC2"



193 Click "Launch instance"



194 Click the "Name" field.

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name

[Add additional tags](#)

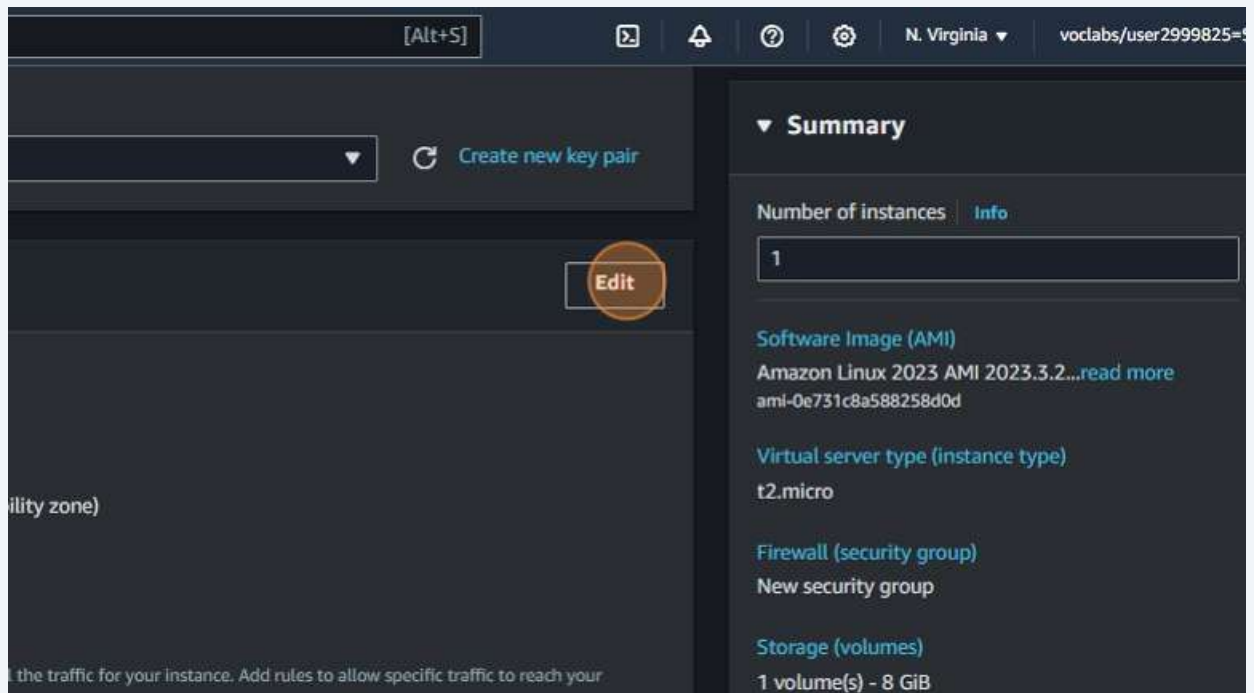
▼ **Application and OS Images (Amazon Machine Image)** [Info](#)

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

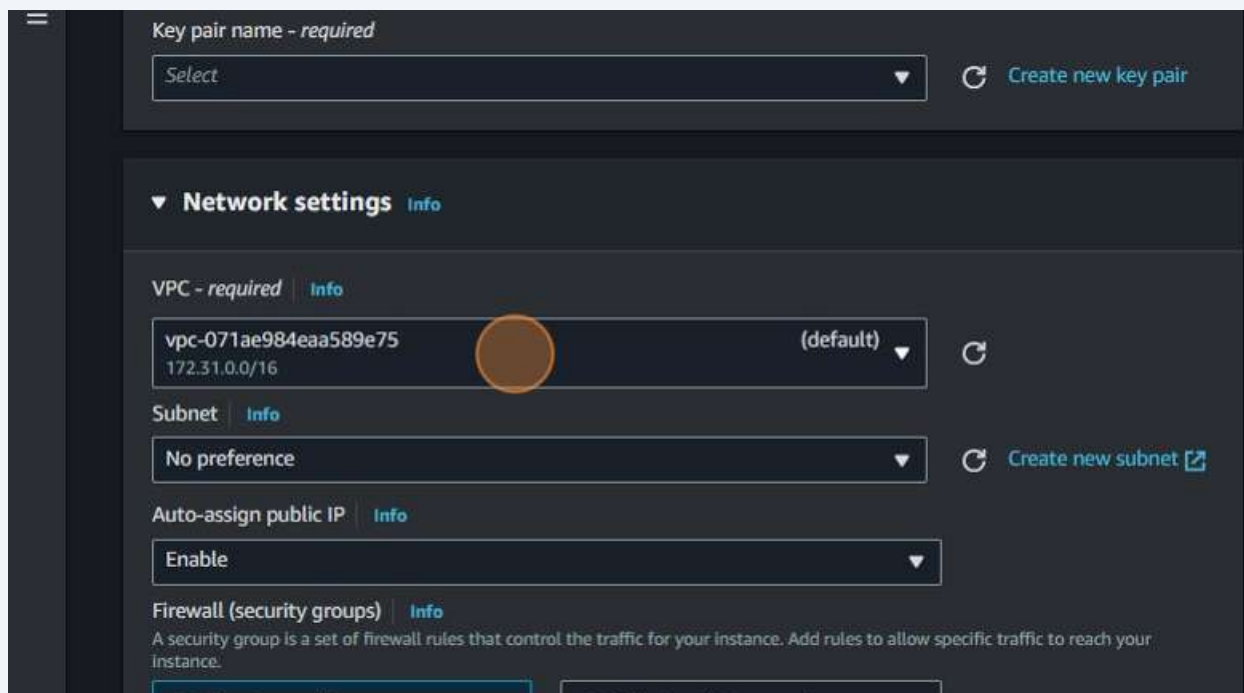
Search our full catalog including 1000s of application and OS images

195 Type "my-lab-webserver"

196 Click "Edit"



197 Click "172.31.0.0/16"



198 Click "vpc-0df317e909cd2d1ca (mylab-vpc)"

The screenshot shows the 'Network settings' section in the AWS console. Under the 'VPC - required' tab, a list of VPCs is displayed. The VPC 'vpc-0df317e909cd2d1ca (mylab-vpc)' is highlighted with an orange circle. Below the VPC list, the 'Firewall (security groups)' section is visible, with options to 'Create security group' or 'Select existing security group'. The 'Security group name - required' field contains 'launch-wizard-8'.

Network settings Info

VPC - required Info

vpc-071ae984eaa589e75 (default) 172.31.0.0/16

Q

vpc-071ae984eaa589e75 (default) 172.31.0.0/16

vpc-0df317e909cd2d1ca (mylab-vpc) 10.0.0.0/16

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - required

launch-wizard-8

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is

199 Click "Disable"

The screenshot shows the 'Network settings' section in the AWS console. The 'VPC' dropdown is set to 'vpc-0df317e909cd2d1ca (mylab-vpc)'. The 'Subnet' dropdown is set to 'subnet-011b2fb7ad76ed850 mylab-subnet-public1-us-east-1a'. The 'Auto-assign public IP' dropdown is set to 'Disable', which is highlighted with an orange circle. Below this, the 'Firewall (security groups)' section is visible, with options to 'Create security group' or 'Select existing security group'. The 'Security group name - required' field contains 'launch-wizard-8'.

VPC - required Info

vpc-0df317e909cd2d1ca (mylab-vpc) 10.0.0.0/16

Subnet Info

subnet-011b2fb7ad76ed850 mylab-subnet-public1-us-east-1a

VPC: vpc-0df317e909cd2d1ca Owner: 693808211005 Availability Zone: us-east-1a

IP addresses available: 4090 CIDR: 10.0.0.0/20

Auto-assign public IP Info

Disable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - required

launch-wizard-8

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and . - / ! # , @ [] + = & : { } ! \$ *

200 Click "Enable"

vpc-0df317e909cd2d1ca (mylab-vpc)
10.0.0.0/16

Subnet [Info](#)

subnet-011b2fb7ad76ed850 mylab-subnet-public1-us-east-1a
VPC: vpc-0df317e909cd2d1ca Owner: 693808211005 Availability Zone: us-east-1a
IP addresses available: 4090 CIDR: 10.0.0.0/20

Auto-assign public IP [Info](#)

Disable
Enable
Disable

☒ Create security group ☐ Select existing security group

Security group name - required

launch-wizard-8

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-./!#\$%&'()*+,-:;@[]^_`{|}~!\$*

Description - required [Info](#)

201 Click "Availability Zone: us-east-1a"

Network settings [Info](#)

required [Info](#)

0df317e909cd2d1ca (mylab-vpc)
0/16

et-011b2fb7ad76ed850 mylab-subnet-public1-us-east-1a
pc-0df317e909cd2d1ca Owner: 693808211005 Availability Zone: us-east-1a
resses available: 4090 CIDR: 10.0.0.0/20

ssign public IP [Info](#)

all (security groups) [Info](#)

ty group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your

Create security group ☐ Select existing security group

ty group name - required

1

Software Image
Amazon Linux 2
ami-0e731c8a588

Virtual server ty
t2.micro

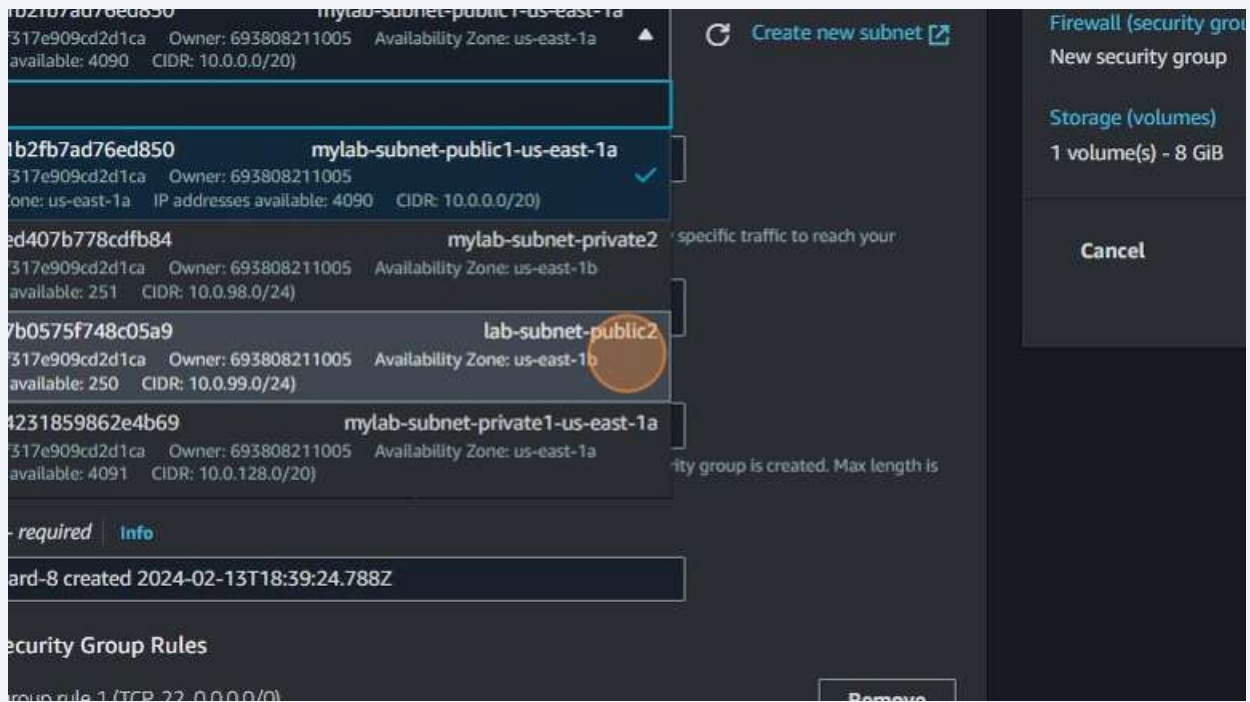
Firewall (securit
New security gr

Storage (volume
1 volume(s) - 8

Cancel

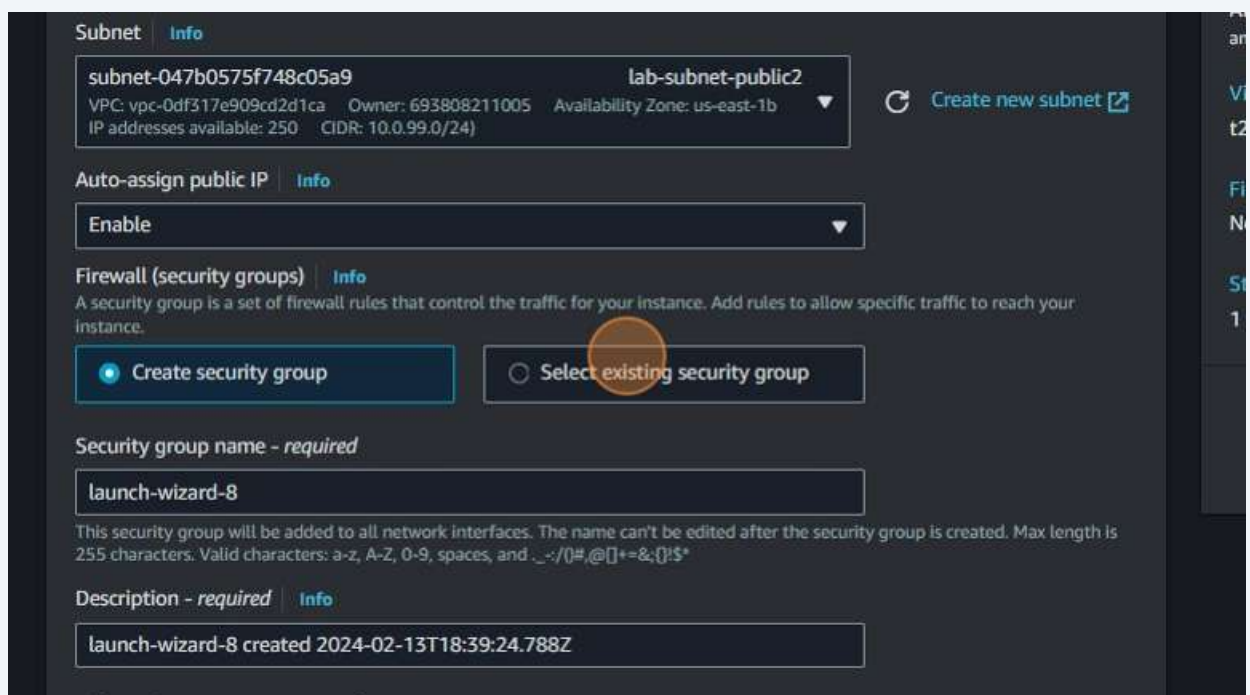
202

Click "VPC: vpc-0df317e909cd2d1ca
 Owner: 693808211005
 Availability Zone: us-east-1b
 IP addresses available: 250
 CIDR: 10.0.99.0/24)"

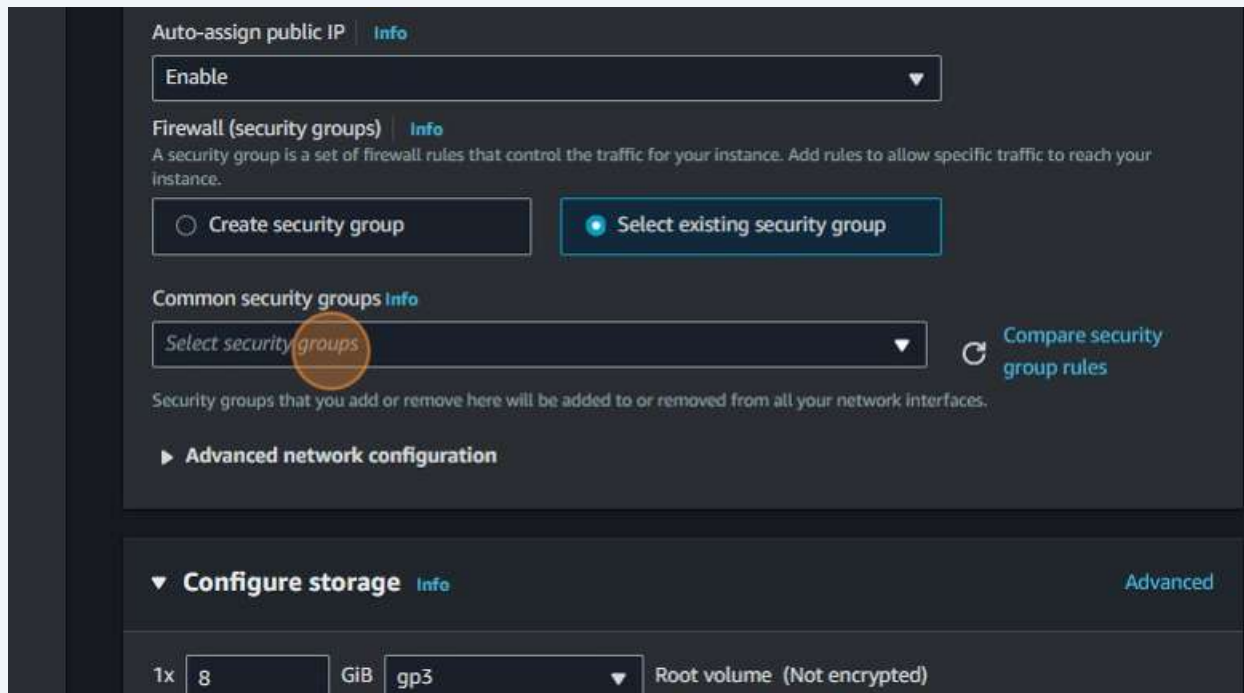


203

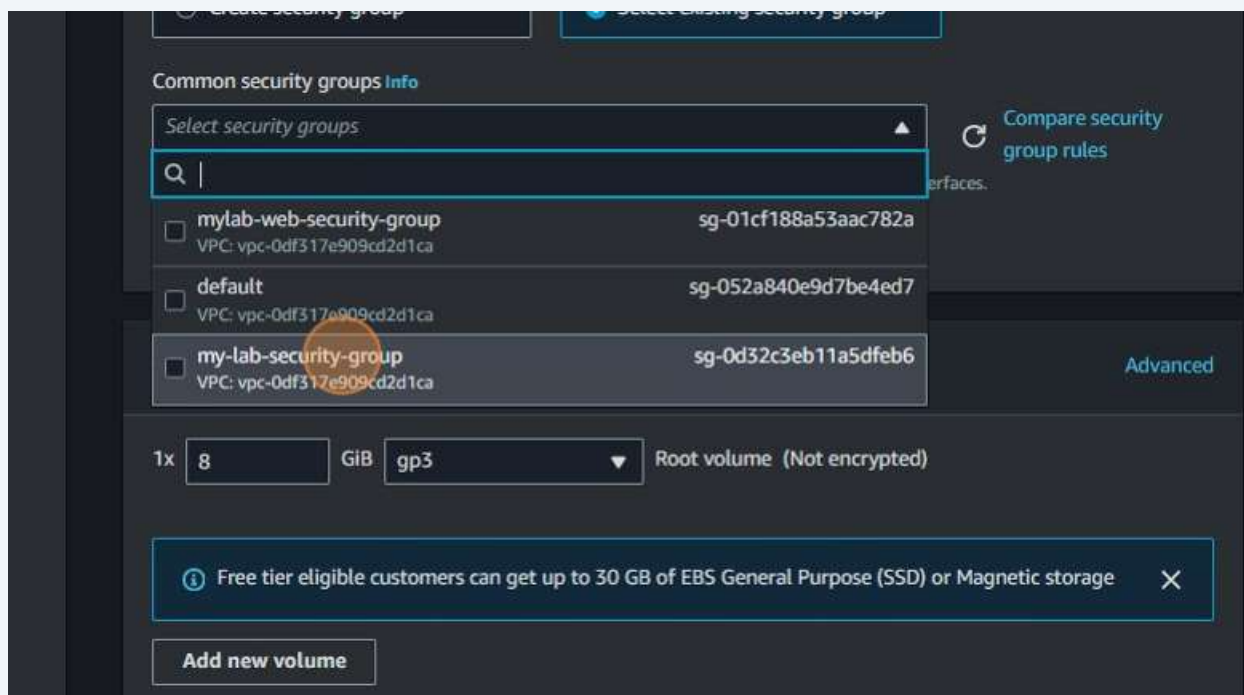
Click "Select existing security group"



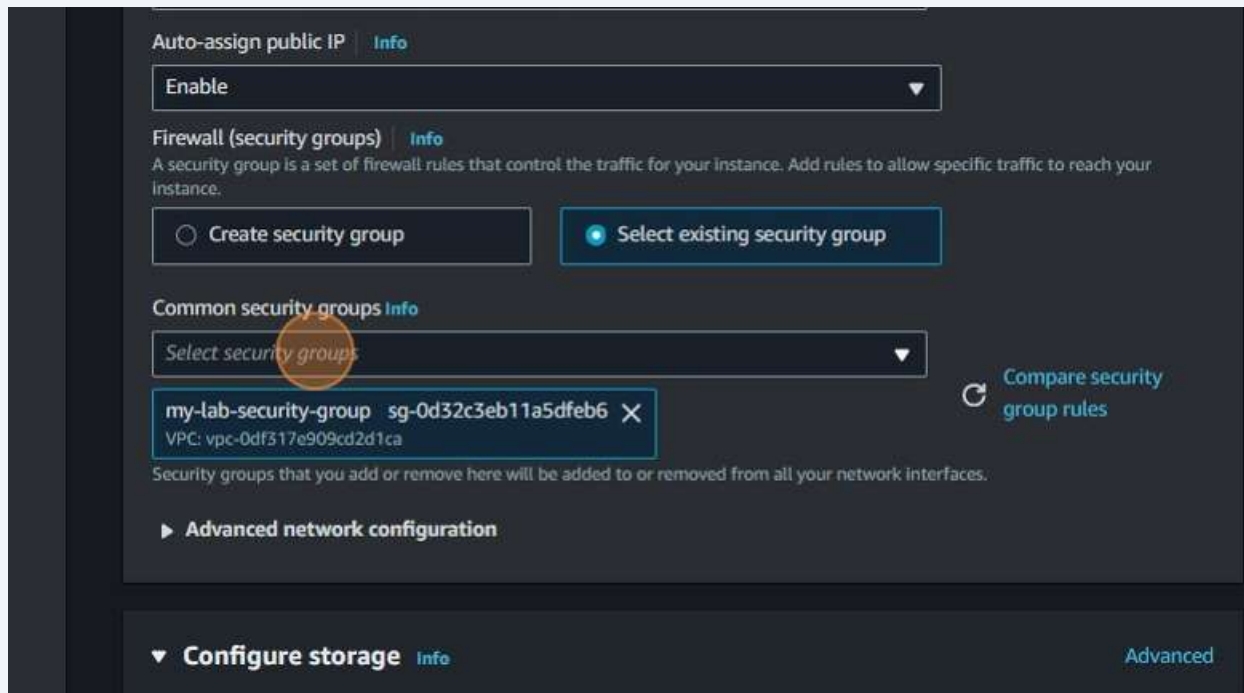
204 Click "Select security groups"



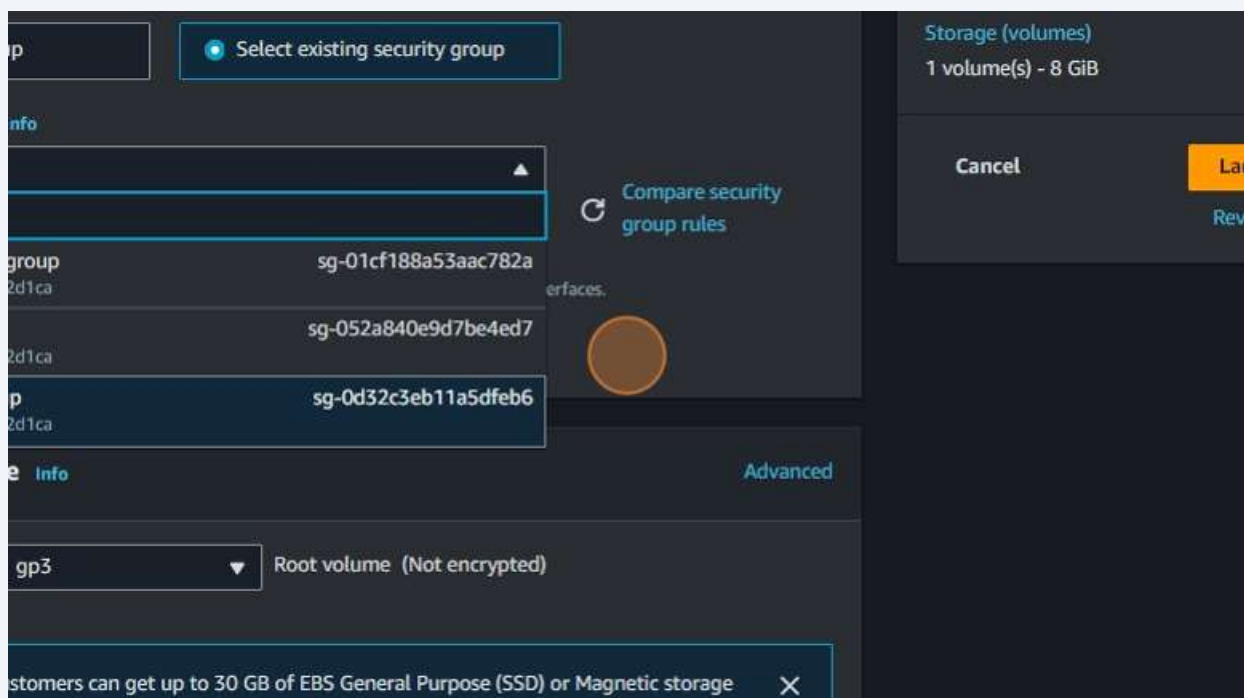
205 Click "my-lab-security-group"



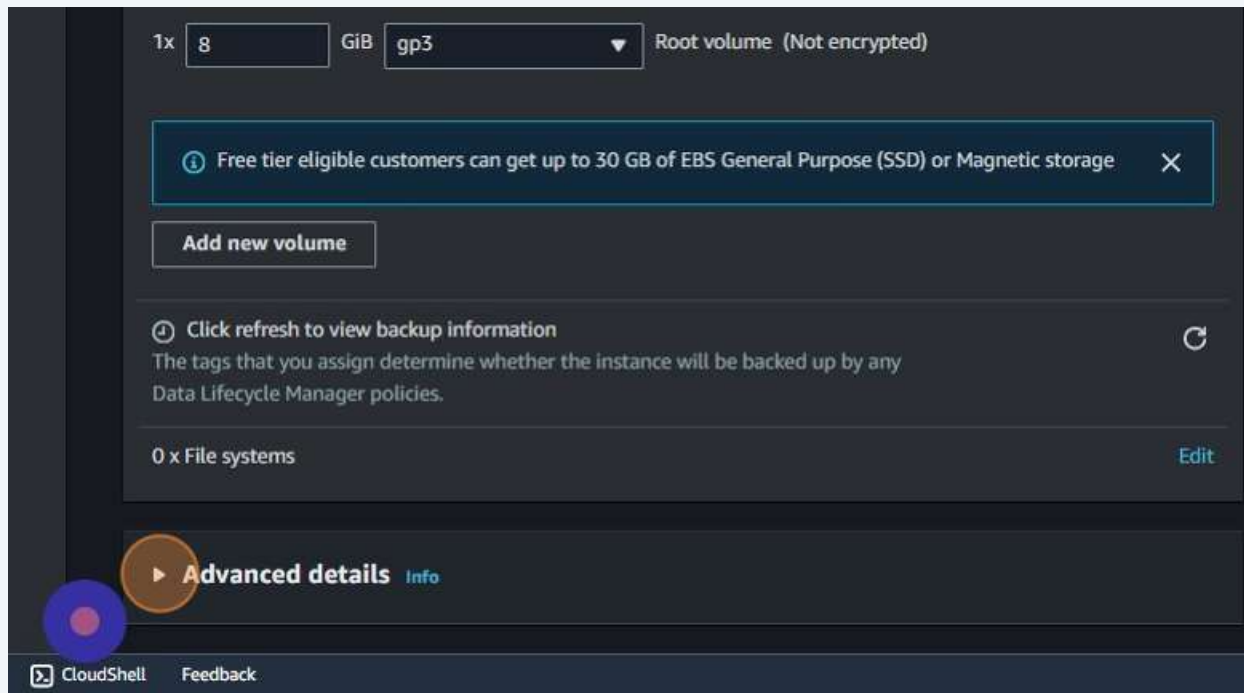
206 Click "Select security groups"



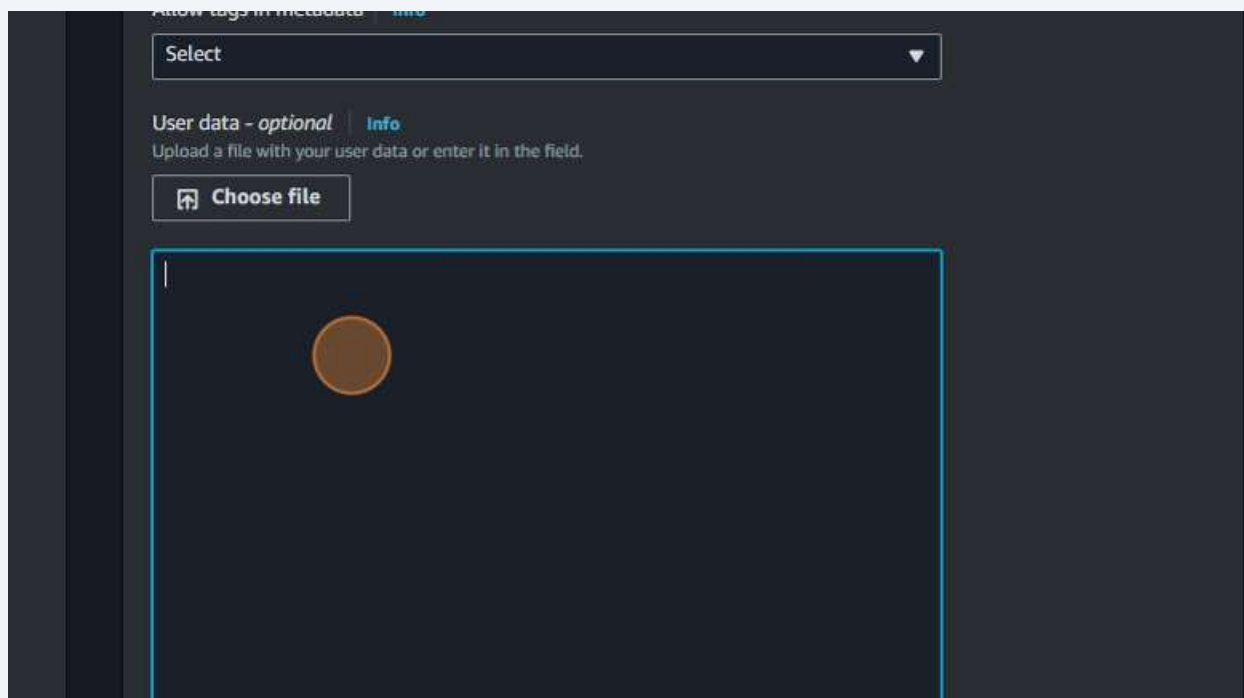
207 Click here.



208 Click here.



209 Click the "User data - optional" field.



210 Click the "User data - optional" field.



The screenshot shows the AWS CloudShell interface. A terminal window displays a script for installing Apache and downloading lab files. Below the terminal, there is a checkbox labeled "User data has already been base64 encoded". A red circle highlights the checkbox, and a blue circle highlights the CloudShell logo in the bottom left corner.

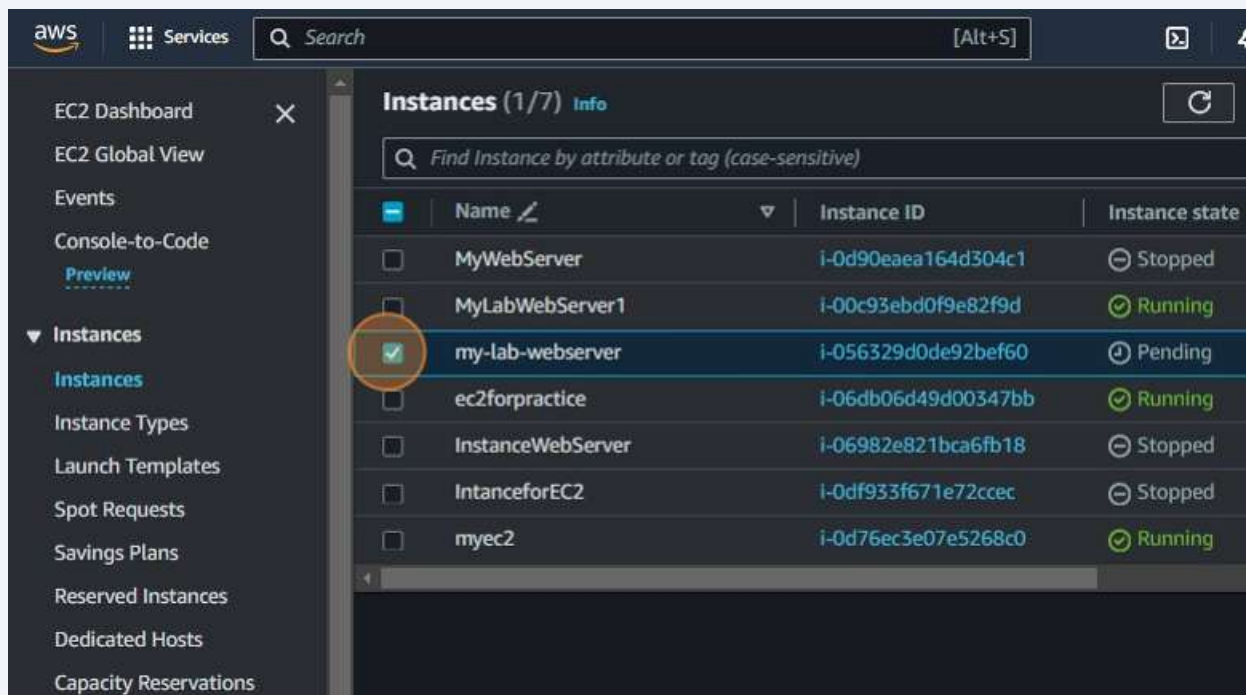
```
#!/bin/bash
# Install Apache Web Server and PHP
dnf install -y httpd wget php mariadb105-server
# Download Lab files
wget https://aws-tc-largeobjects.s3.us-west-2.amazonaws.com/CUR-TF-100-ACCLFO-2/2-lab2-vpc/s3/lab-app.zip
unzip lab-app.zip -d /var/www/html/
# Turn on web server
chkconfig httpd on
service httpd start
```

☐ User data has already been base64 encoded

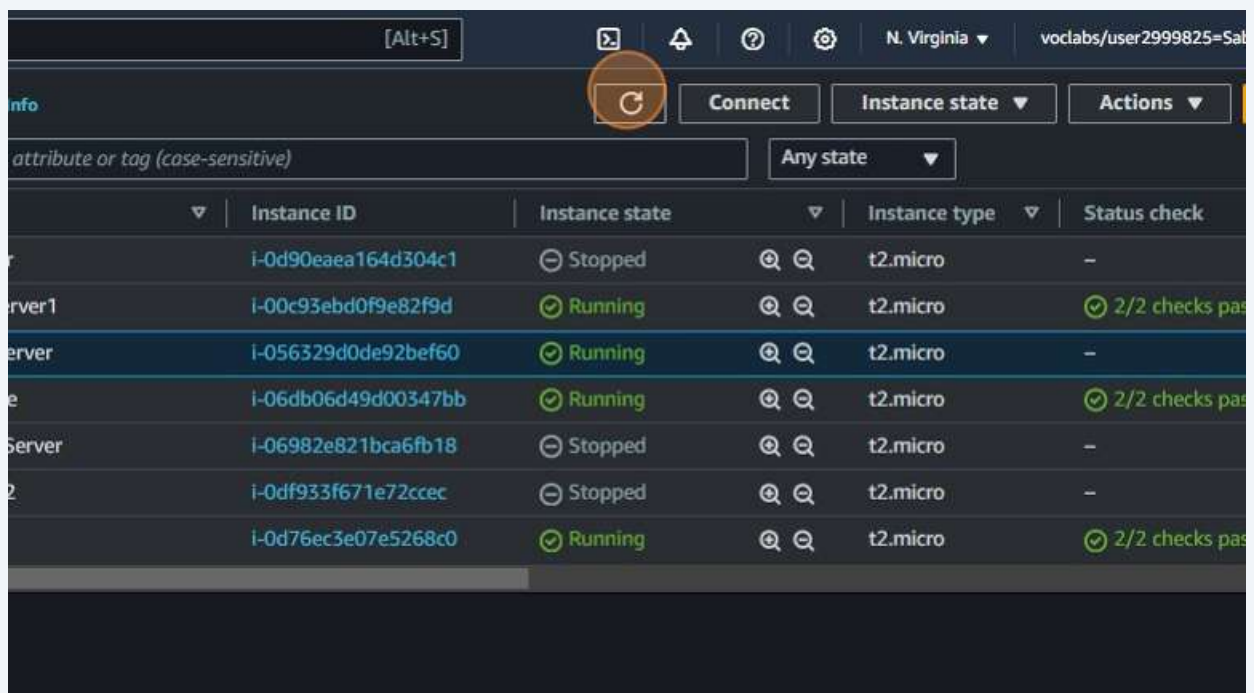
CloudShell Feedback

211 Navigate to [https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;\\$case=tags:true%5C,client:false;\\$regex=tags:false%5C,client:false](https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false)

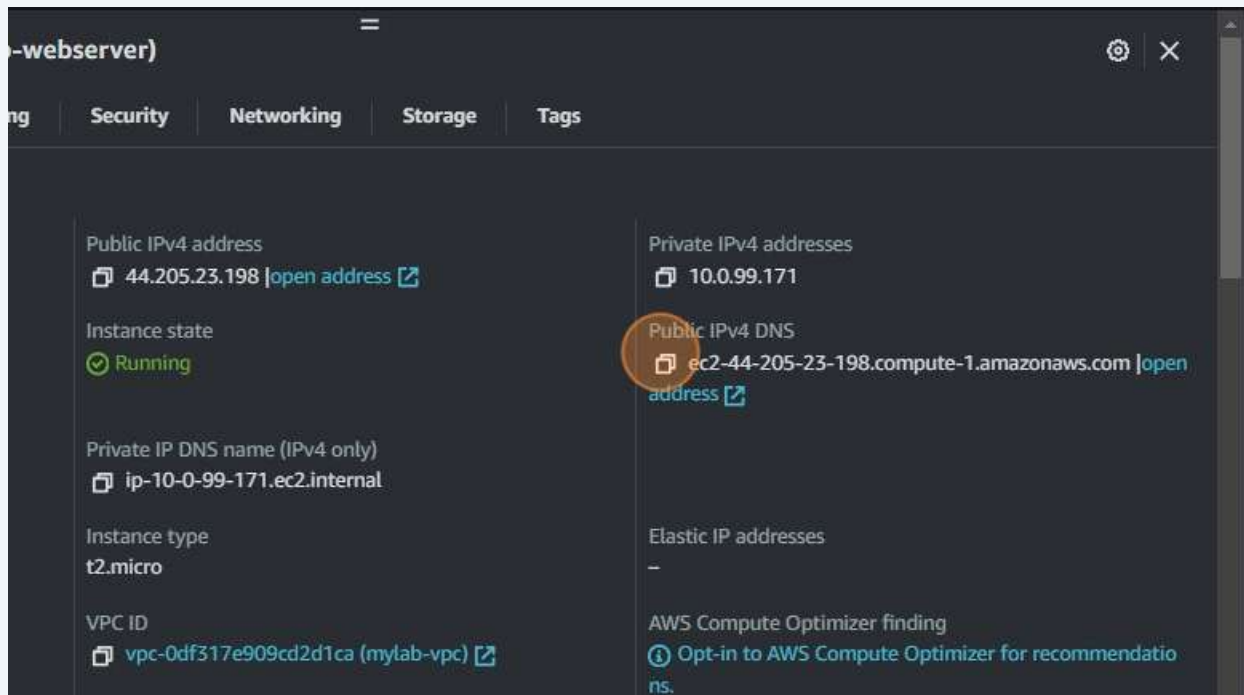
212 Click this checkbox.



213 Click here.



214 Click here.



215 In a new tab, navigate to <http://ec2-44-205-23-198.compute-1.amazonaws.com/>

216 Click "Current CPU Load: 1%"

