

EBS Snapshot (create, copy and restore)

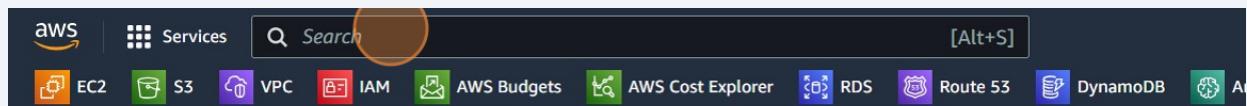
This guide provides step-by-step instructions on how to create, copy, and restore an EBS snapshot in AWS. It covers the entire process, from navigating the AWS website to managing and deleting snapshots. If you need to work with EBS snapshots and want a comprehensive guide, this is a valuable resource.

This guide was created by Nijat Hajiyev.

Create snapshot

- 1 Navigate to aws.amazon.com

- 2 Click the "Search" field.



Console Home [Info](#)

- 3 Type "EC2"

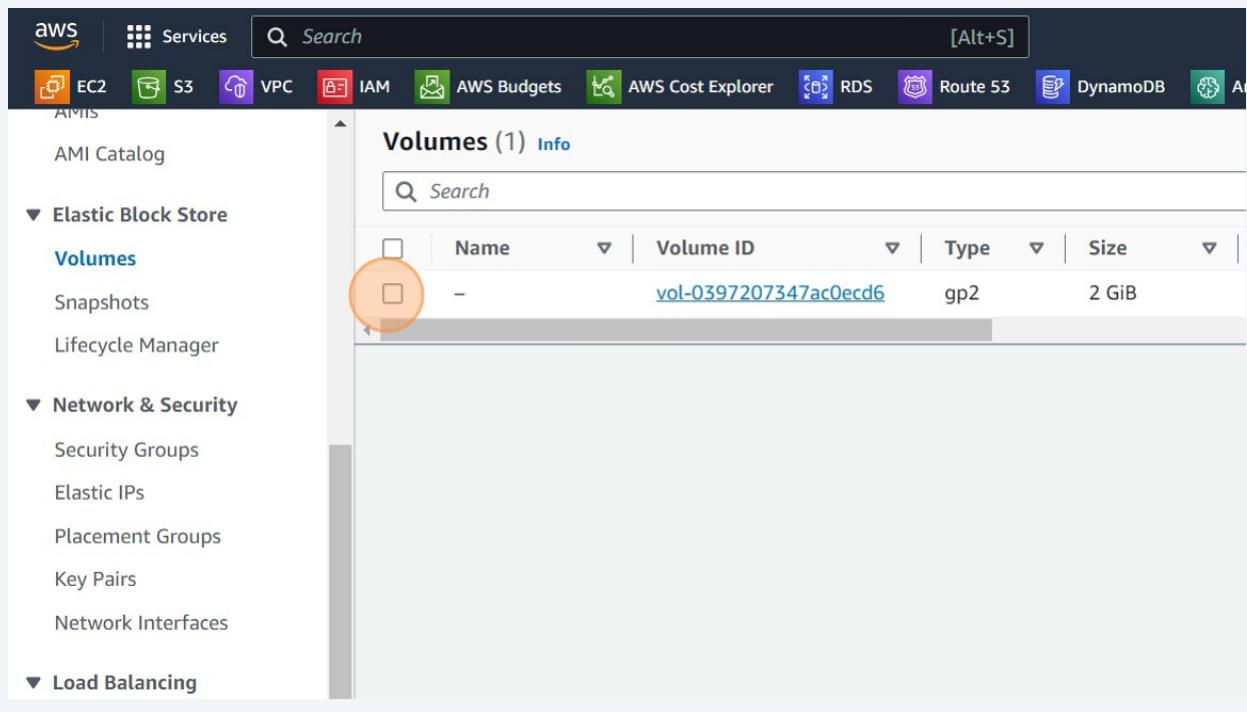
4 Click "EC2"

The screenshot shows the AWS Management Console search results for the query 'ec2'. The search bar at the top contains 'ec2'. Below it, a sidebar on the left lists 'Recently viewed' services: EC2, Amazon Te, AWS Budget, Amazon Fo, Amazon Co, Amazon Po, and others. The main content area displays 'Search results for 'ec2'' and 'Try searching with longer queries for more relevant results'. A large card titled 'Services' features the 'EC2' service icon with a red circle highlighting it. Below the card, there are sections for 'Top features' (Dashboard, Launch templates, Instances, Spot Instance requests, Savings Plans) and other services like 'EC2 Image Builder' and 'Recycle Bin'.

5 Click "Volumes"

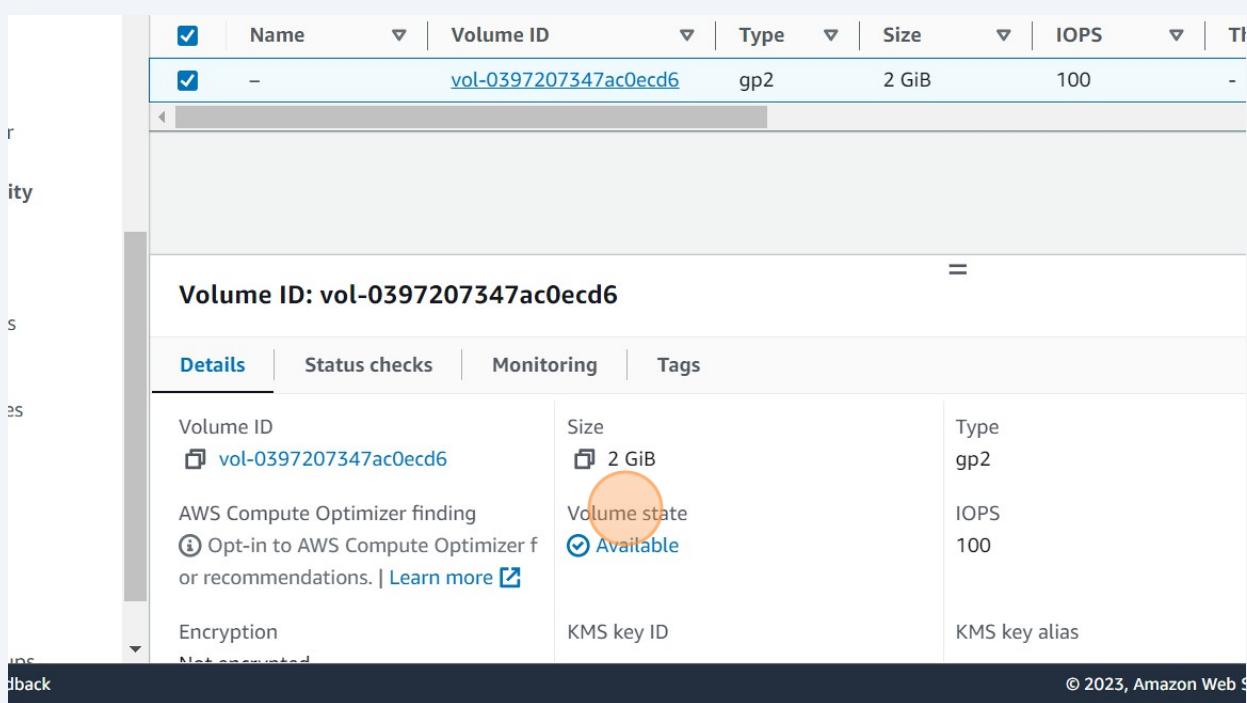
The screenshot shows the AWS EC2 Volumes page. The navigation bar includes links for EC2, S3, VPC, IAM, AWS Budgets, AWS Cost Explorer, RDS, Route 53, DynamoDB, and Lambda. On the left, a sidebar menu includes 'Dedicated Hosts', 'Capacity Reservations', 'Images' (AMIs, AMI Catalog), 'Elastic Block Store' (Volumes, Snapshots, Lifecycle Manager), 'Network & Security' (Security Groups, Elastic IPs, Placement Groups, Key Pairs), and 'AWS Global Accelerator'. The main content area is titled 'Resources' and displays a summary of resources in the Europe (Frankfurt) Region. It shows 0 instances (running), 0 dedicated hosts, 0 instances, 0 load balancers, 8 security groups, and 1 volume. There is also a link to 'EC2 Global view'.

6 Click this checkbox.



The screenshot shows the AWS Management Console with the search bar at the top. Below it, the navigation bar includes services like EC2, S3, VPC, IAM, AWS Budgets, AWS Cost Explorer, RDS, Route 53, and DynamoDB. On the left, a sidebar lists categories such as AMI Catalog, Elastic Block Store (with Volumes selected), Network & Security, and Load Balancing. The main content area displays a table titled "Volumes (1) Info". The table has columns for Name, Volume ID, Type, and Size. The first row shows a volume with a Volume ID of "vol-0397207347ac0ecd6", Type "gp2", and Size "2 GiB". A red circle highlights the checkbox in the first column of this row.

7 Check "Volume state"



The screenshot shows the AWS Management Console with the search bar at the top. Below it, the navigation bar includes services like EC2, S3, VPC, IAM, AWS Budgets, AWS Cost Explorer, RDS, Route 53, and DynamoDB. On the left, a sidebar lists categories such as AMI Catalog, Elastic Block Store (with Volumes selected), Network & Security, and Load Balancing. The main content area displays a table titled "Volumes (1) Info". The table has columns for Name, Volume ID, Type, Size, IOPS, and T. The first row shows a volume with a Volume ID of "vol-0397207347ac0ecd6", Type "gp2", Size "2 GiB", and IOPS "100". Below the table, a detailed view for "Volume ID: vol-0397207347ac0ecd6" is shown. It includes tabs for Details, Status checks, Monitoring, and Tags. Under the Details tab, there are several fields: Volume ID (vol-0397207347ac0ecd6), Size (2 GiB), AWS Compute Optimizer finding (Opt-in to AWS Compute Optimizer for recommendations. | Learn more), Encryption (Not encrypted), Volume state (Available), KMS key ID, and KMS key alias. A red circle highlights the "Available" status under the Volume state field.

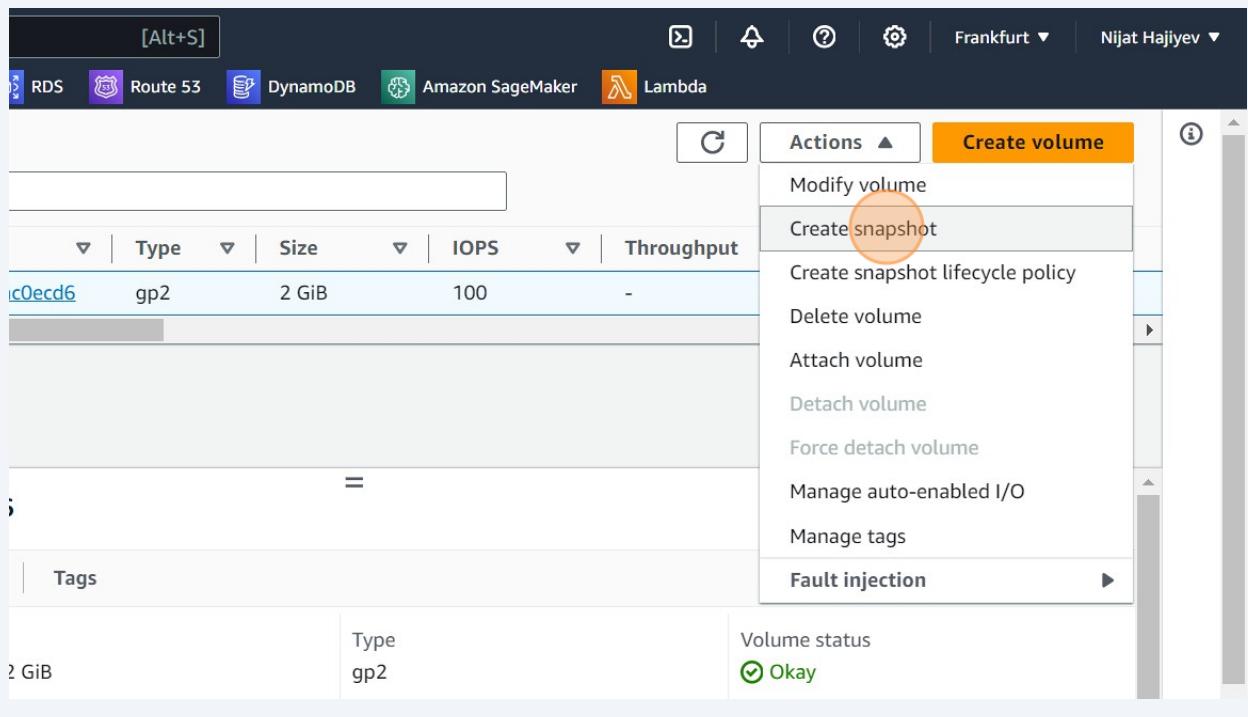
8 Check "Volume status"

The screenshot shows the AWS Lambda console interface. At the top, there is a search bar with the placeholder "[Alt+S]" and a navigation bar with links for RDS, Route 53, DynamoDB, Amazon SageMaker, and Lambda. The Lambda section is active. Below the navigation bar, there is a toolbar with icons for Actions, Create volume, and other settings. A message "Actions" is displayed above the toolbar. The main content area displays a table of volumes. One volume is selected, showing its details: Type gp2, Size 2 GiB, IOPS 100, Throughput -, and Snapshot -. The Volume status is listed as "Okay". A blue circular callout highlights the "Okay" status. At the bottom of the screen, there is a footer with copyright information and links for Privacy, Terms, and Cookie preferences.

9 Click here.

The screenshot shows the AWS Lambda console interface. The layout is similar to the previous screenshot, with the Lambda section active in the navigation bar. The toolbar at the top includes an "Actions" button, which is highlighted with a red circle. Below the toolbar, there is a table of volumes. One volume is selected, showing its details: Type gp2, Size 2 GiB, IOPS 100, Throughput -, and Snapshot -. The Volume status is listed as "Okay". A blue circular callout highlights the "Actions" button. The rest of the interface is identical to the previous screenshot, including the footer with copyright information and links for Privacy, Terms, and Cookie preferences.

10 Click "Create snapshot"



11 Click the "Description" field.

[CREATE SNAPSHOT](#) [INFO](#)
Create a point-in-time snapshot to back up the data on an Amazon EBS volume to Amazon S3.

Details

Volume ID

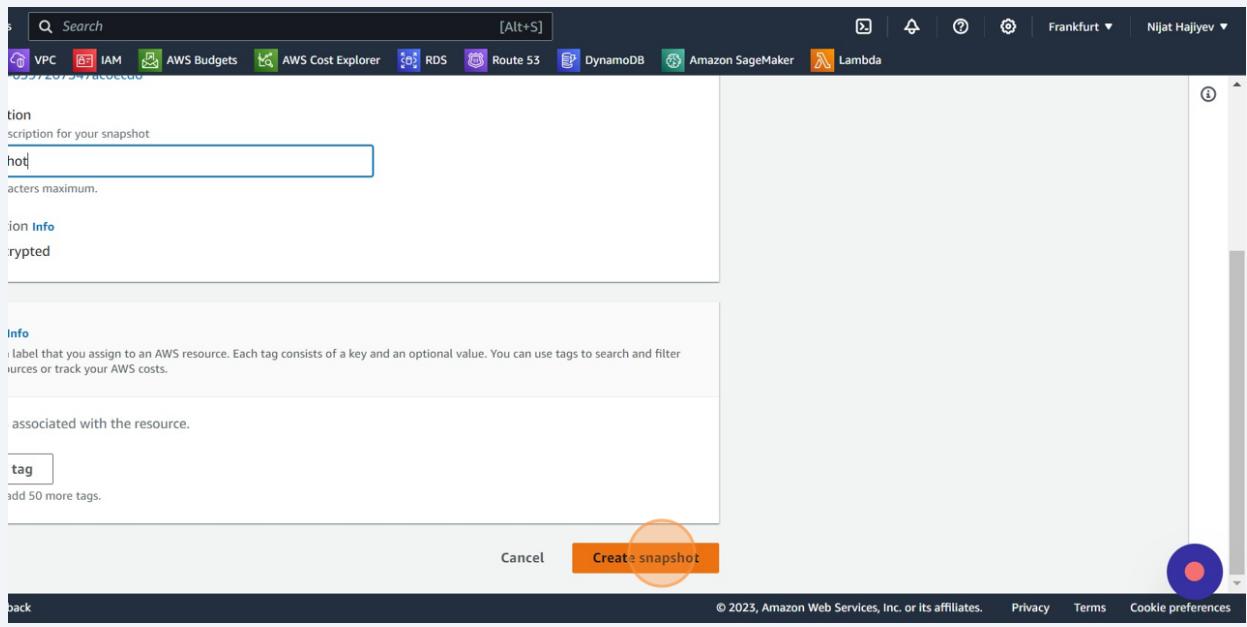
Description
Add a description for your snapshot
 255 characters maximum.

Encryption [Info](#)
Not encrypted

Tags [Info](#)

12 Type "Snapshot"

13 Click "Create snapshot"



14 Check notification

The screenshot shows the AWS EC2 Dashboard. At the top, there's a navigation bar with the AWS logo, a search bar, and various service links like Services, IAM, AWS Budgets, AWS Cost Explorer, RDS, Route 53, DynamoDB, and others. Below the navigation bar, a green success message box is displayed, containing the text: "Successfully created snapshot snap-0d741a496d1399fa9 from volume vol-0397207347ac0ecd6. If you need your snapshot to be immediately available consider using Fast Snapshot Restore". To the left of the main content area, a sidebar titled "Instances" is visible, listing options such as Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, and Capacity Reservations. The main content area is titled "Volumes (1)" and shows a table with one row of data:

Name	Volume ID	Type	Size
-	vol-0397207347ac0ecd6	gp2	2 GiB

15 Click "Snapshots"

The screenshot shows the AWS EC2 Dashboard. The sidebar on the left has several sections: Dedicated Hosts, Capacity Reservations, Images (AMIs, AMI Catalog), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces). The "Snapshots" option under the "Elastic Block Store" section is highlighted with an orange circle. The main content area is identical to the previous screenshot, displaying the same success message and volume list table.

16 Click this checkbox.

The screenshot shows the AWS Management Console with the EBS service selected. The left sidebar shows navigation options like Images, Elastic Block Store, and Network & Security. Under EBS, the 'Snapshots' option is selected. The main pane displays a table titled 'Snapshots (1)'. The first row contains a checkbox (which is highlighted with an orange circle), a column for 'Name' (empty), a column for 'Snapshot ID' (snap-0d741a496d1399fa9), a column for 'Volume size' (2 GiB), and a column for 'Description' (Snapshot). There is also a 'Lifecycle Manager' column which is partially visible.

17 Check "Progress"

The screenshot shows the details of a specific snapshot named 'snap-0d741a496d1399fa9'. The top part of the screen shows a table with columns for Snapshot ID, Volume size, and Description. Below this, the snapshot details are shown in a card. The card includes fields for Volume size (2 GiB), Volume ID (vol-0397207347ac0ecd6), Progress (Available (100%)), Started (Tue Oct 31 2023 10:51:24 GMT+0100 (Central European Standard Time)), Snapshot status (Completed), and Product codes (empty). The 'Progress' field is highlighted with an orange circle.

18 Check "Snapshot status"

The screenshot shows the AWS CloudWatch Metrics console. At the top, there is a search bar and a filter section with dropdowns for 'Volume size' and 'Description'. Below this, a table lists a single item:

Volume ID	Volume size	Description
11399fa9	2 GiB	Snapshot

Below the table, a detailed view of the 'Snapshot' row is shown. It includes fields for Volume size (2 GiB), Volume ID (vol-0397207347ac0ecd6), Tags, Progress (Available (100%)), Started (Tue Oct 31 2023 10:51:24 GMT+0100 (Central European Standard Time)), Snapshot status (Completed), Product codes, and KMS Key ARN. A blue circle highlights the 'Completed' status. At the bottom of the page, there is a footer with links to Privacy, Terms, and Cookie preferences.

Copy snapshot

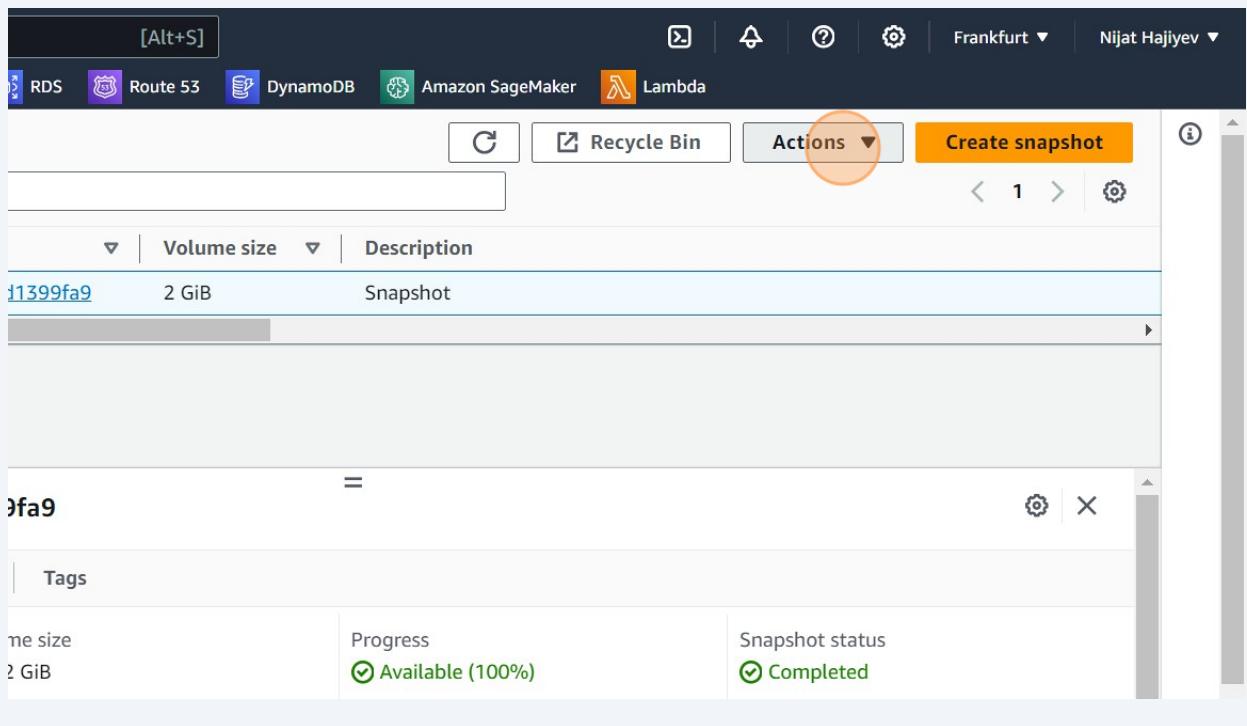
19 Click this checkbox.

The screenshot shows the AWS EC2 Dashboard. On the left, there is a sidebar with navigation links: EC2 Dashboard, EC2 Global View, Events, Instances (with sub-links: Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), and a link to the AWS Marketplace. The main area displays a table titled 'Snapshots (1) Info' with one item listed:

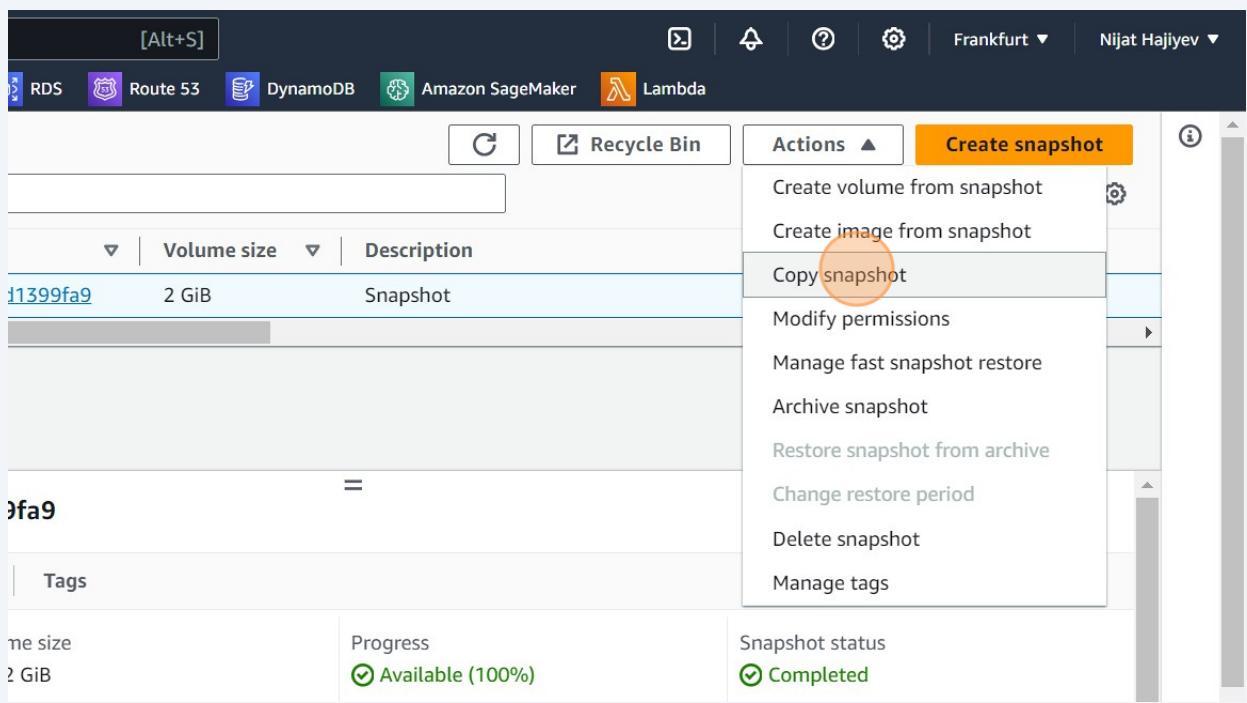
Name	Snapshot ID	Volume size	Description
-	snap-0d741a496d1399fa9	2 GiB	Snapshot

A blue circle highlights the checkbox icon in the 'Name' column header of the table. The top navigation bar includes the AWS logo, a services menu, a search bar, and a keyboard shortcut [Alt+S].

20 Click "Actions"



21 Click "Copy snapshot"



22 Select destination region

Snapshot ID
The ID of the original snapshot that is to be copied.
 snap-0d741a496d1399fa9

New snapshot settings

Description
A description for the snapshot copy.
 [Copied snap-0d741a496d1399fa9 from eu-central-1] Snapshot
255 characters maximum.

Destination Region
The Region in which to create the snapshot copy.

Encryption [Info](#)
Use Amazon EBS encryption as an encryption solution for your EBS resources.
 Encrypt this snapshot

Tags - optional [Info](#)
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

CloudShell Feedback © 2023, Amazon Web Services, Inc.

23 Click "us-east-1"

aws Services Search [Alt+S]

EC2 S3 VPC IAM AWS Budgets AWS Cost Explorer RDS Route 53 DynamoDB A

Snapshot ID
The ID of the original snapshot that is to be copied.
 ap-southeast-1

eu-central-1

us-east-1

us-east-2

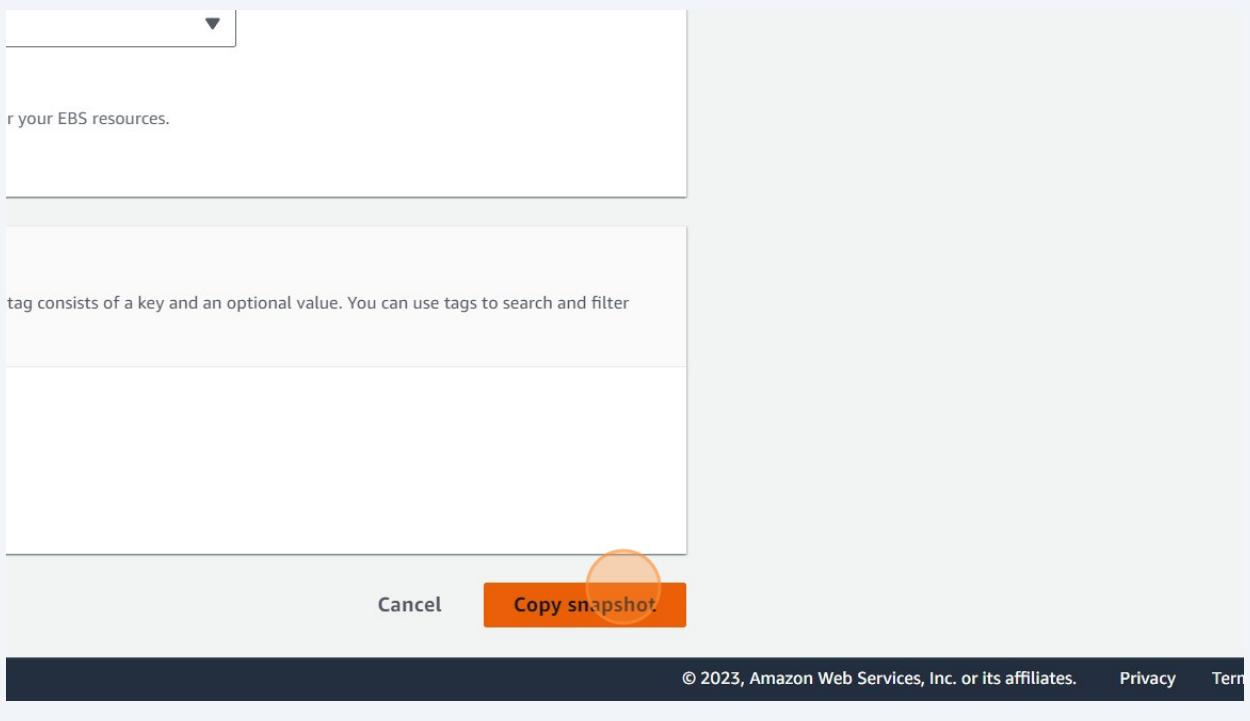
us-west-1

us-west-2

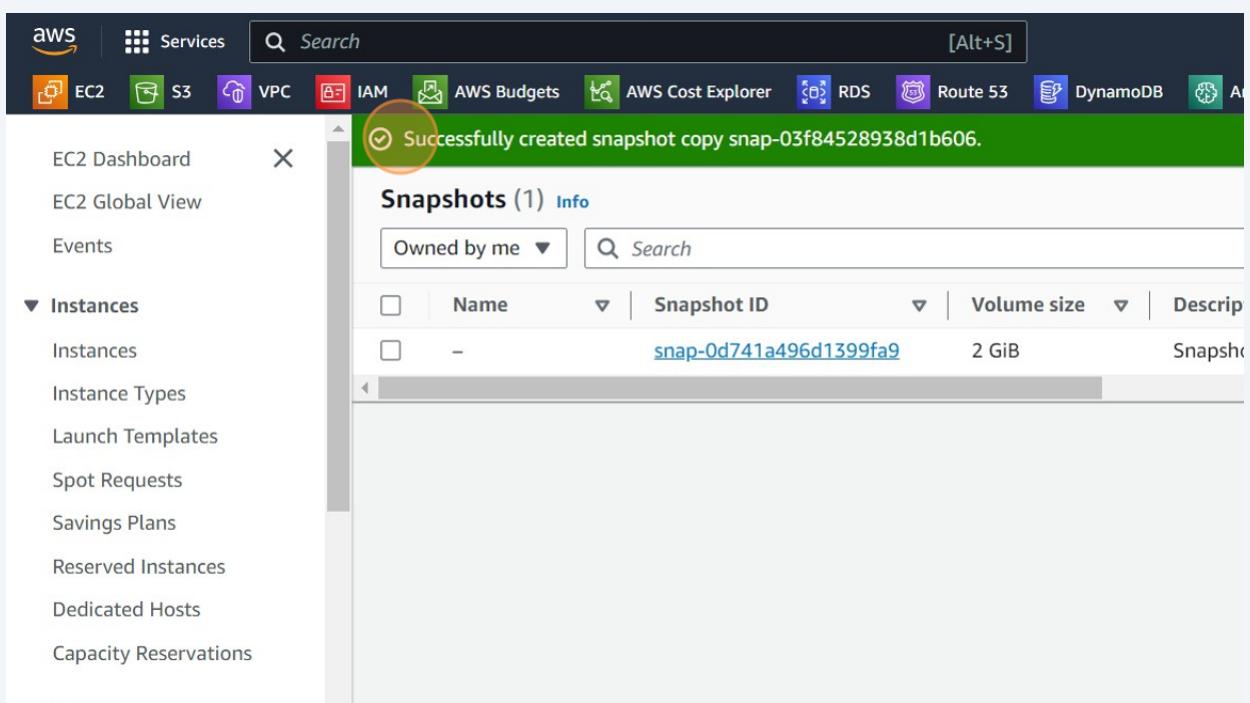
eu-central-1

Encryption [Info](#)
Use Amazon EBS encryption as an encryption solution for your EBS resources.
 Encrypt this snapshot

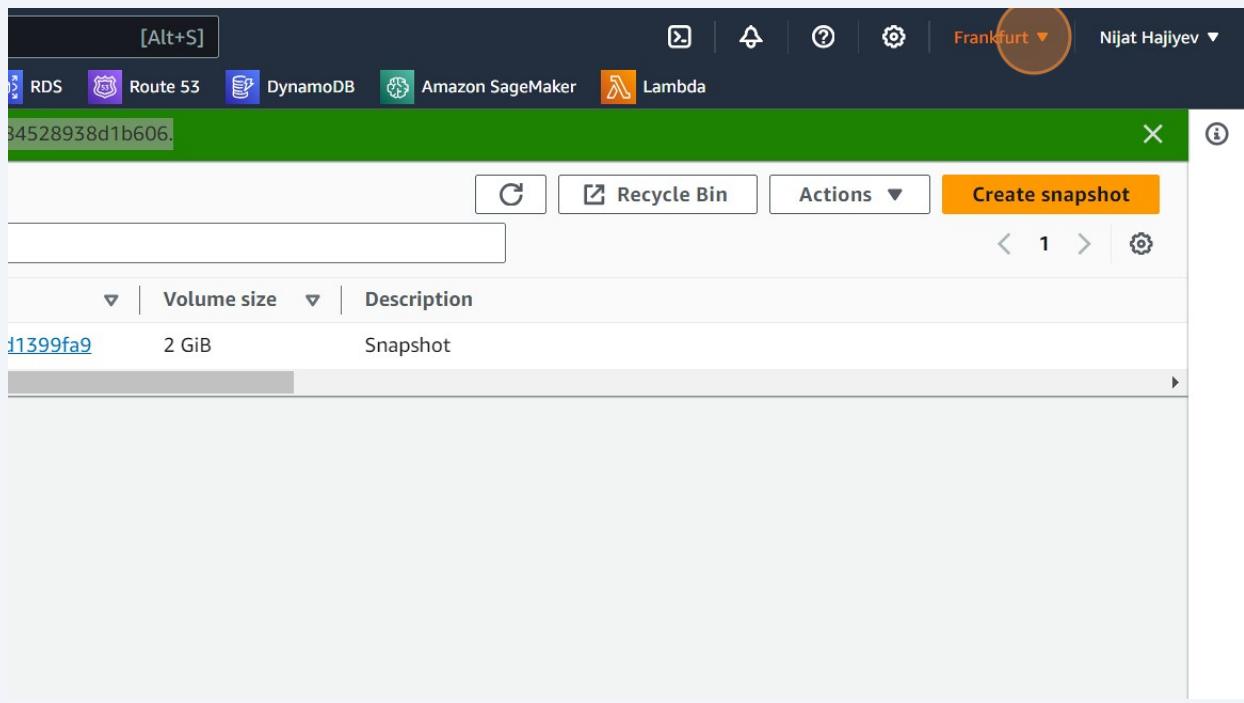
24 Click "Copy snapshot"



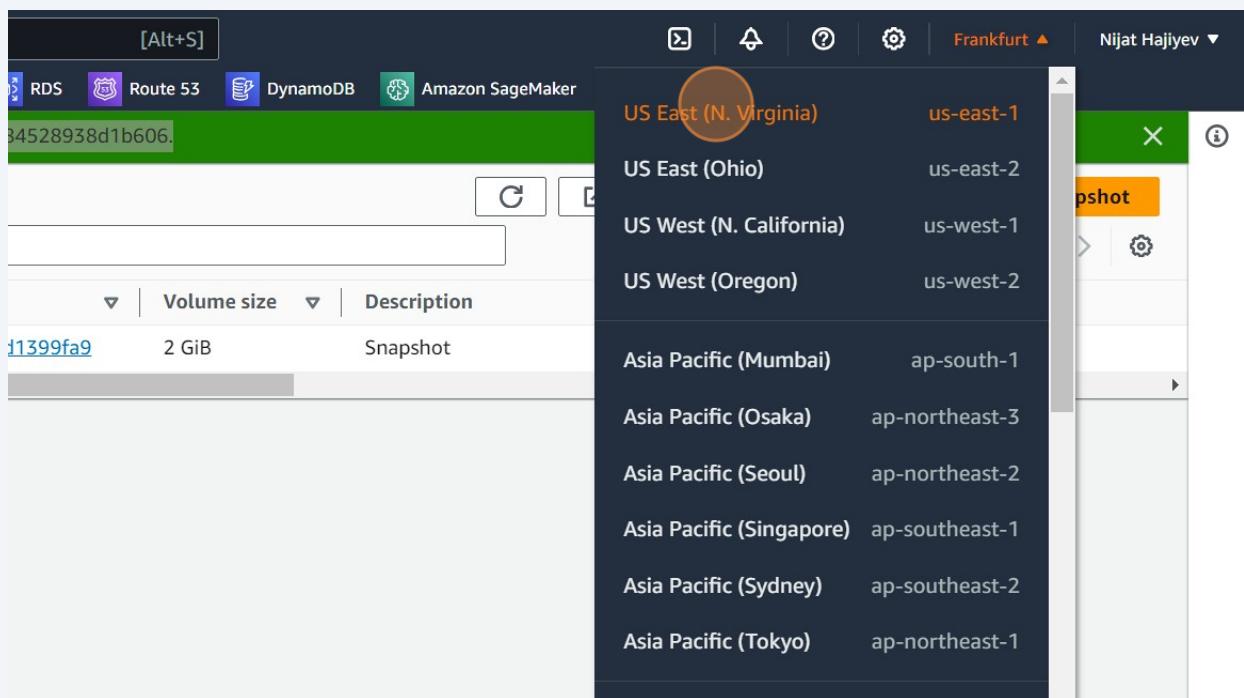
25 Check notification



26 Check copied snapshot



27 Click "US East (N. Virginia)
us-east-1"



28

Check snapshot

"[Copied snap-0d741a496d1399fa9 from eu-central-1] Snapshot"

A screenshot of the AWS CloudFormation console. The top navigation bar includes links for AWS Cost Explorer, RDS, Route 53, DynamoDB, Amazon SageMaker, and Lambda. The main area shows a table of copied snapshots. The columns are: Snapshot ID, Volume size, Description, Storage tier, and Snapshot status. One row is highlighted with a red circle around the 'Description' field, which contains the text '[Copied snap-0d741a496d1399fa9 from eu-central-1]'. The 'Snapshot status' column shows 'Completed' with a green checkmark.

Snapshot ID	Volume size	Description	Storage tier	Snapshot status
snap-03f84528938d1b606	2 GiB	[Copied snap-0d741a496d1399fa9 from eu-central-1]	Standard	Completed

Create volume from snapshot

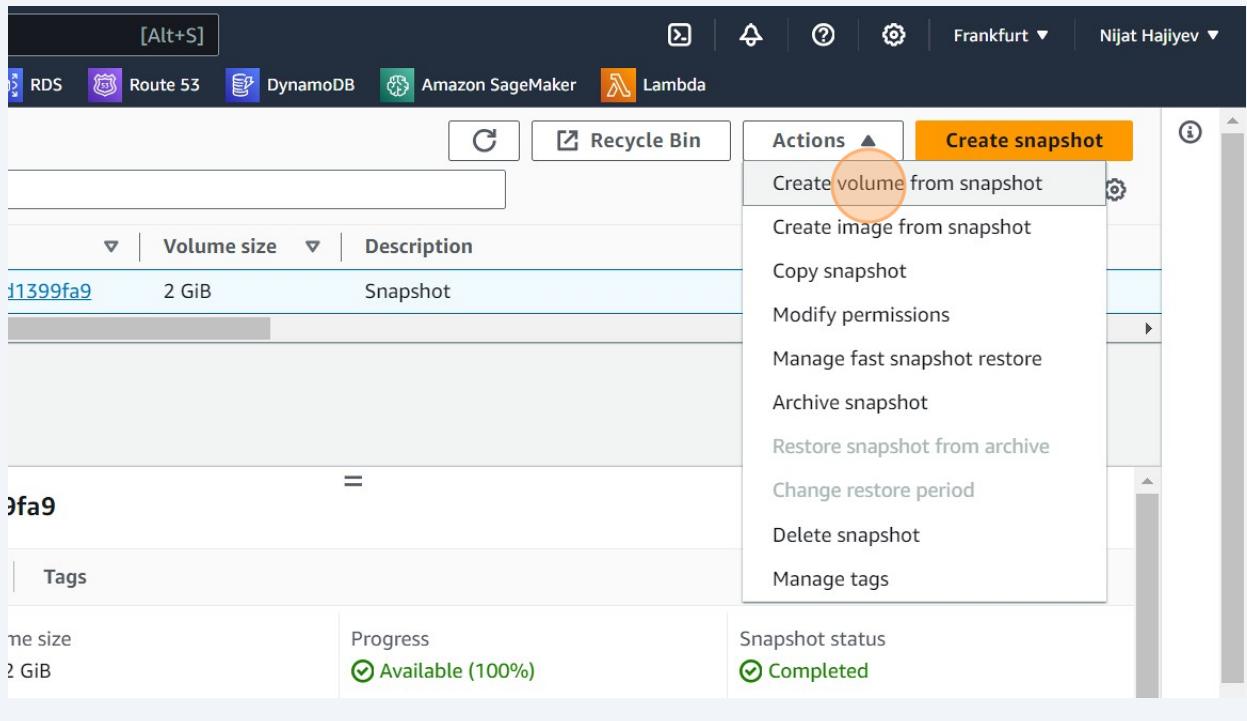
29 Click this checkbox.

The screenshot shows the AWS EC2 Snapshots page. At the top, there's a navigation bar with icons for EC2, S3, VPC, IAM, AWS Budgets, AWS Cost Explorer, RDS, Route 53, DynamoDB, and other services. Below the navigation bar, a sidebar on the left lists various EC2-related options like Instances, Instance Types, Launch Templates, and Capacity Reservations. The main content area is titled "Snapshots (1) Info" and contains a table with one row. The table has columns for Name, Snapshot ID, Volume size, and Description. The first column has a checkbox icon, which is highlighted with an orange circle. The snapshot details are: Name: -, Snapshot ID: snap-0d741a496d1399fa9, Volume size: 2 GiB, and Description: Snapshot. A search bar labeled "Search" is at the top right of the main content area.

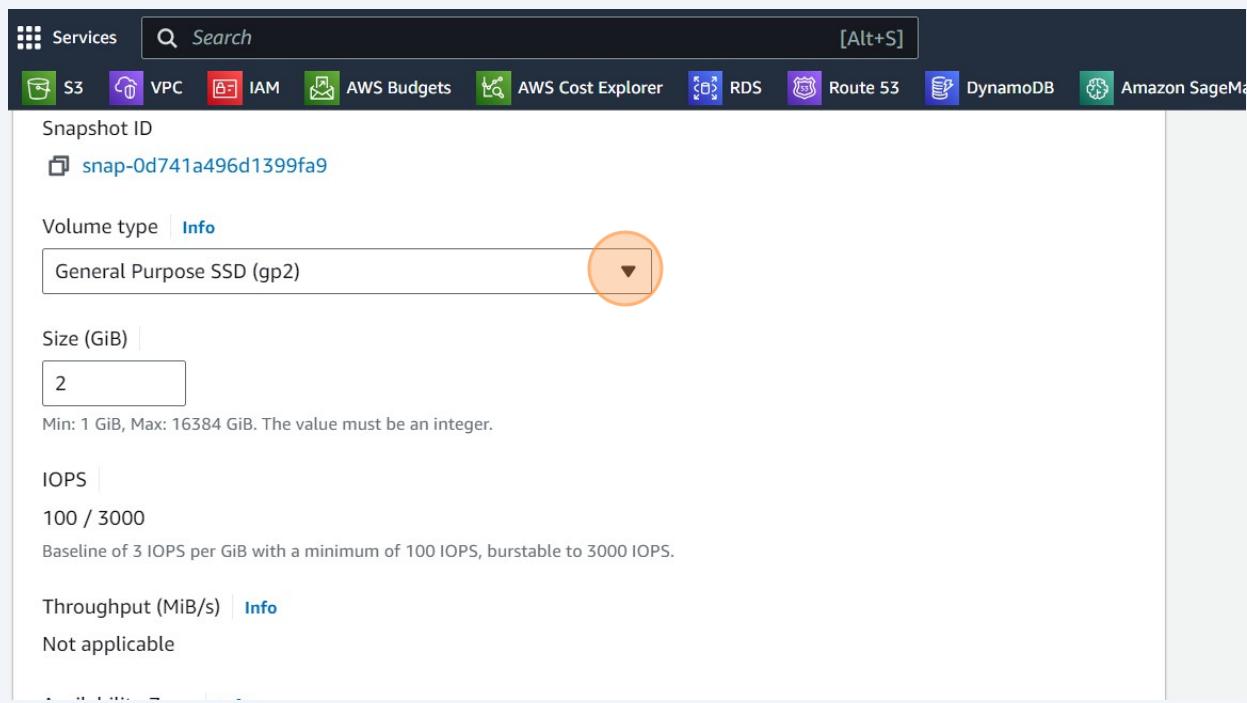
30 Click "Actions"

The screenshot shows the AWS RDS Snapshot details page for a snapshot named "1399fa9". The top navigation bar includes links for RDS, Route 53, DynamoDB, Amazon SageMaker, and Lambda. Below the navigation bar, there's a toolbar with icons for Create snapshot, Actions (which is highlighted with an orange circle), Recycle Bin, and other options. The main content area displays the snapshot information: Volume size (2 GiB) and Description (Snapshot). At the bottom, there are sections for Tags, Progress (Available (100%)), and Snapshot status (Completed).

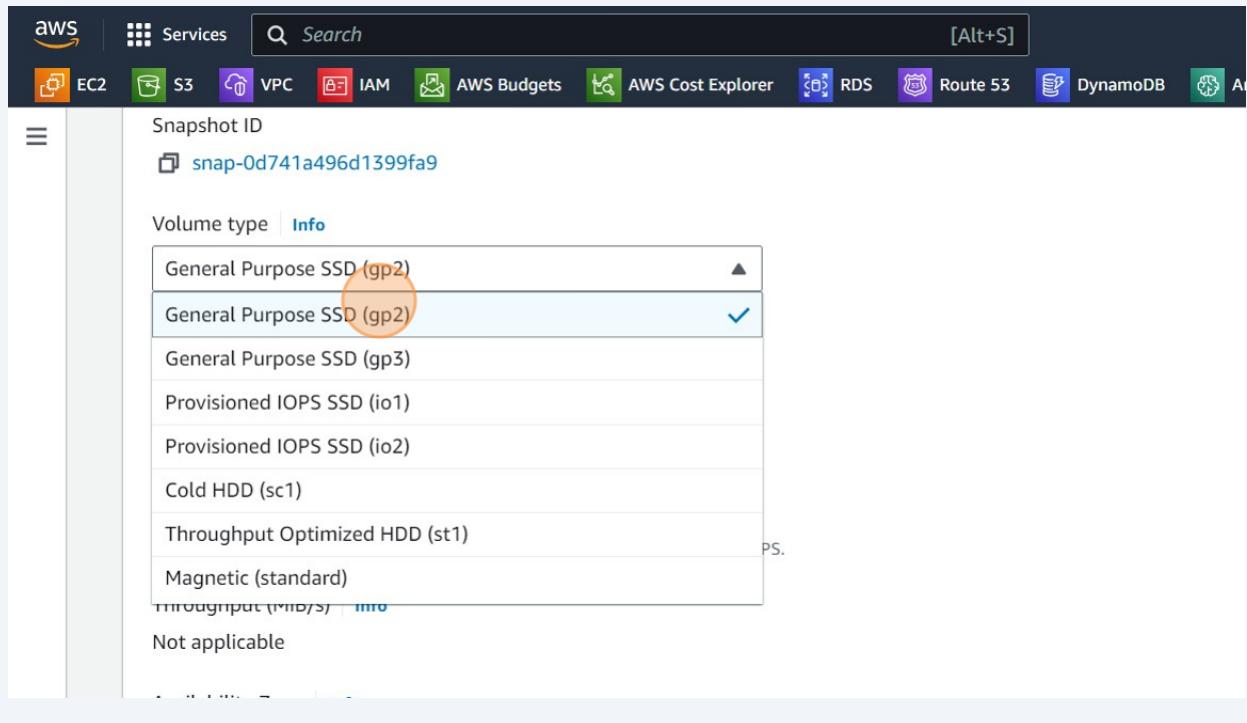
31 Click "Create volume from snapshot"



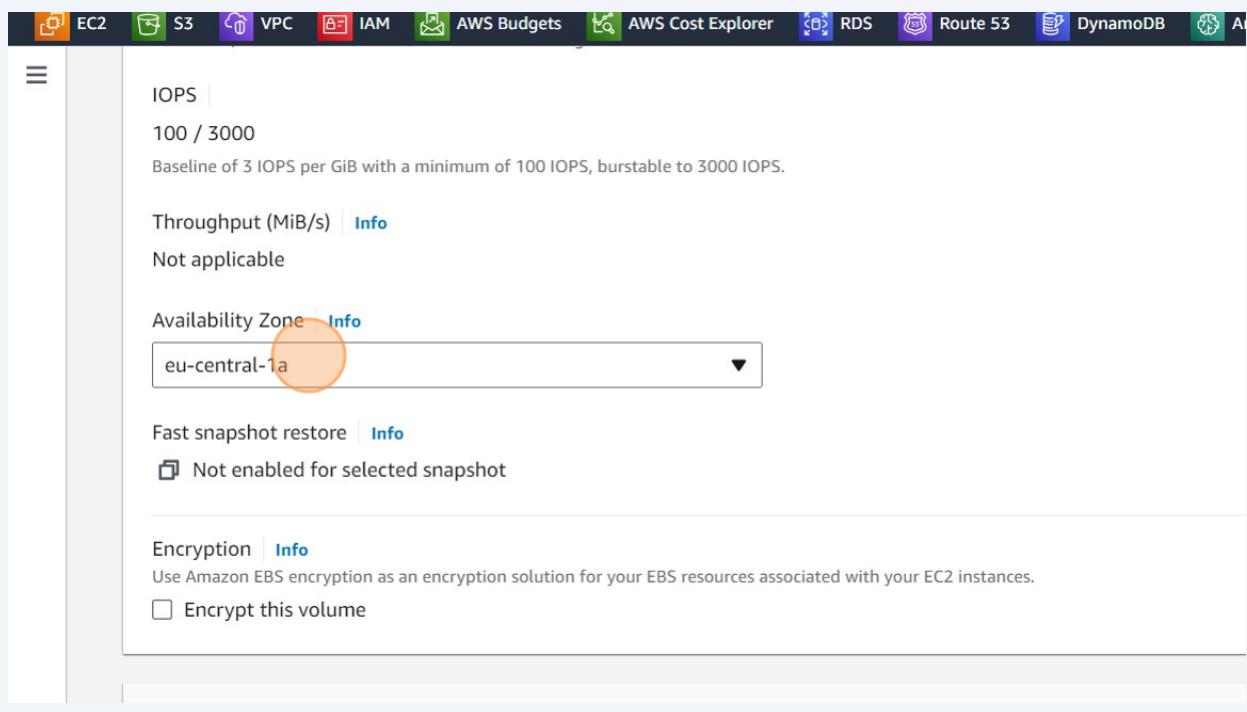
32 Click here.



33 Click "General Purpose SSD (gp2)"



34 Click "eu-central-1a"



35 Click

Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

Throughput (MiB/s) | [Info](#)

Not applicable

Availability Zone | [Info](#)

eu-central-1a

eu-central-1a

eu-central-1b

eu-central-1c

Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.

Encrypt this volume

Tags - optional [Info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

CloudShell [Feedback](#)

36 Click "Create volume"

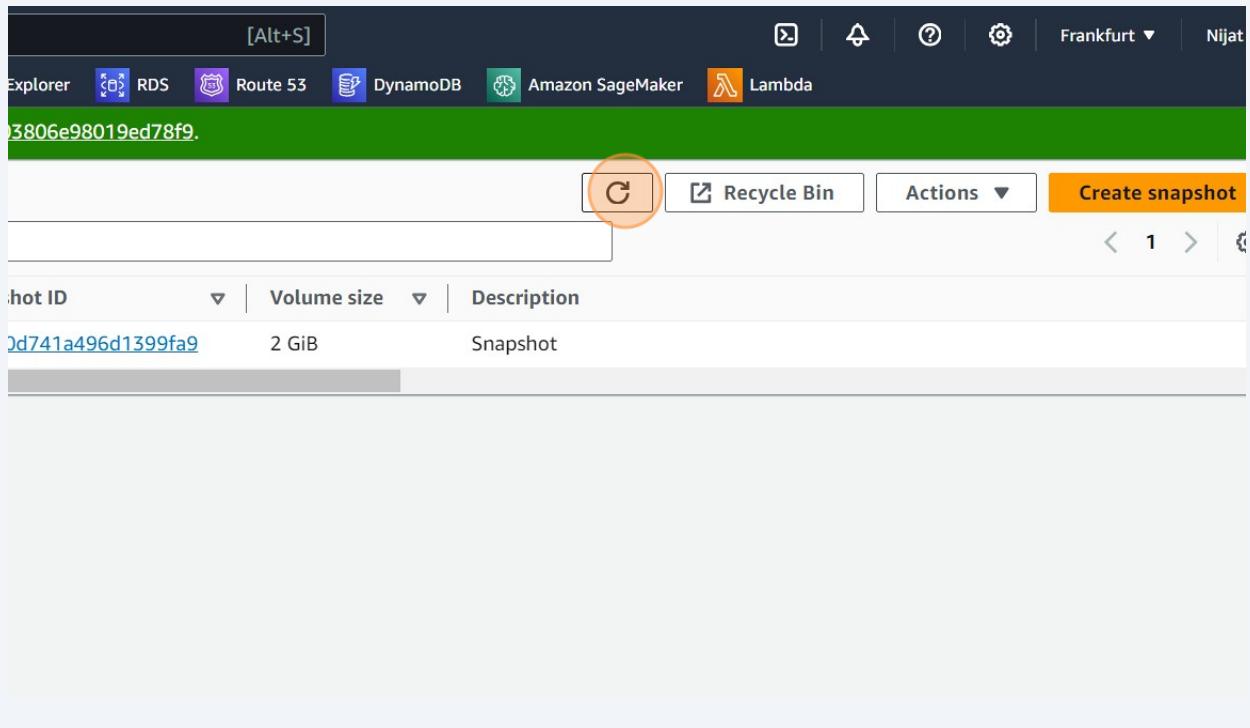
ur EBS resources associated with your EC2 instances.

consists of a key and an optional value. You can use tags to search and filter

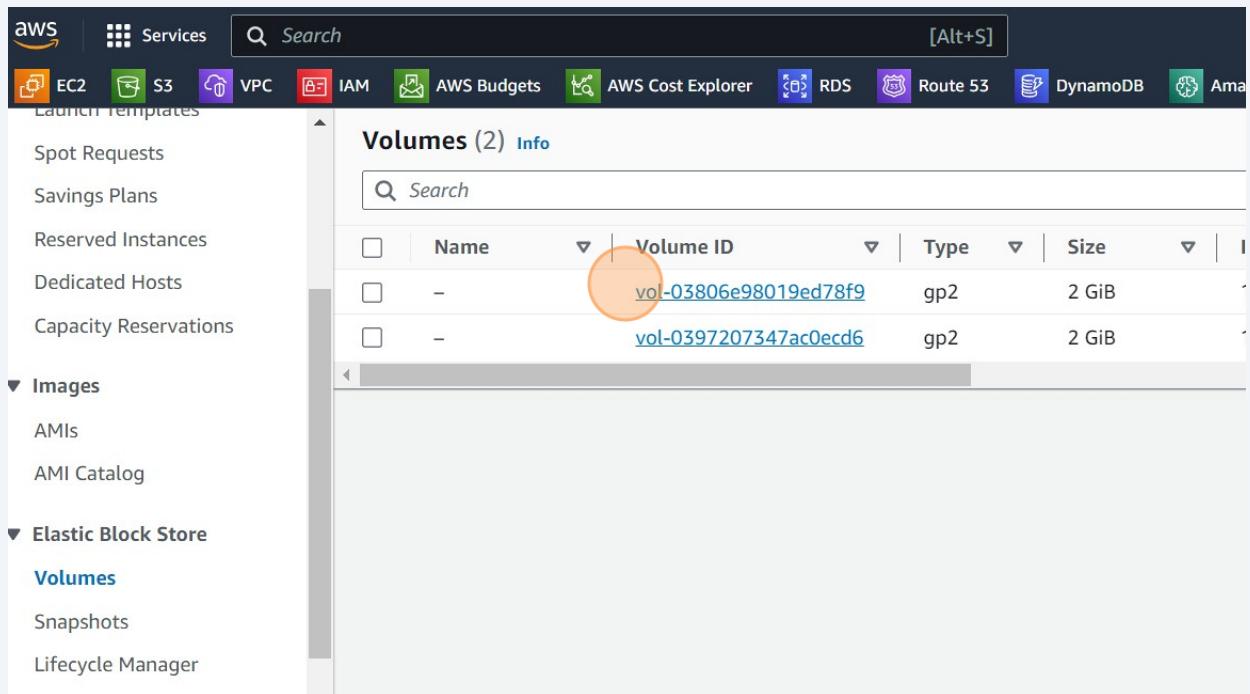
Cancel

Create volume

37 Click here.



38 Check new volume "vol-03806e98019ed78f9"



39 Check "Availability Zone"

The screenshot shows the AWS CloudWatch Metrics console. At the top, there is a table with columns: Volume ID, Type, Size, IOPS, Throughput, and Snapshot. Two rows are listed:

Volume ID	Type	Size	IOPS	Throughput	Snapshot
vol-03806e98019ed78f9	gp2	2 GiB	100	-	snap-0d741a496d1399fa9
vol-0397207347ac0ecd6	gp2	2 GiB	100	-	-

Below the table, a specific metric is selected, showing its details. The 'Availability Zone' field is highlighted with a red circle.

KMS key ID	KMS key alias	KMS key ARN
-	-	-
Snapshot	Availability Zone	Created
snap-0d741a496d1399fa9	eu-central-1b	Tue Oct 31 2023 10:57:49 GMT+0100 (Central European Summer Time)
Attached Instances	Outposts ARN	
-	-	

At the bottom of the screen, there is a footer bar with the text: © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms

Header Title

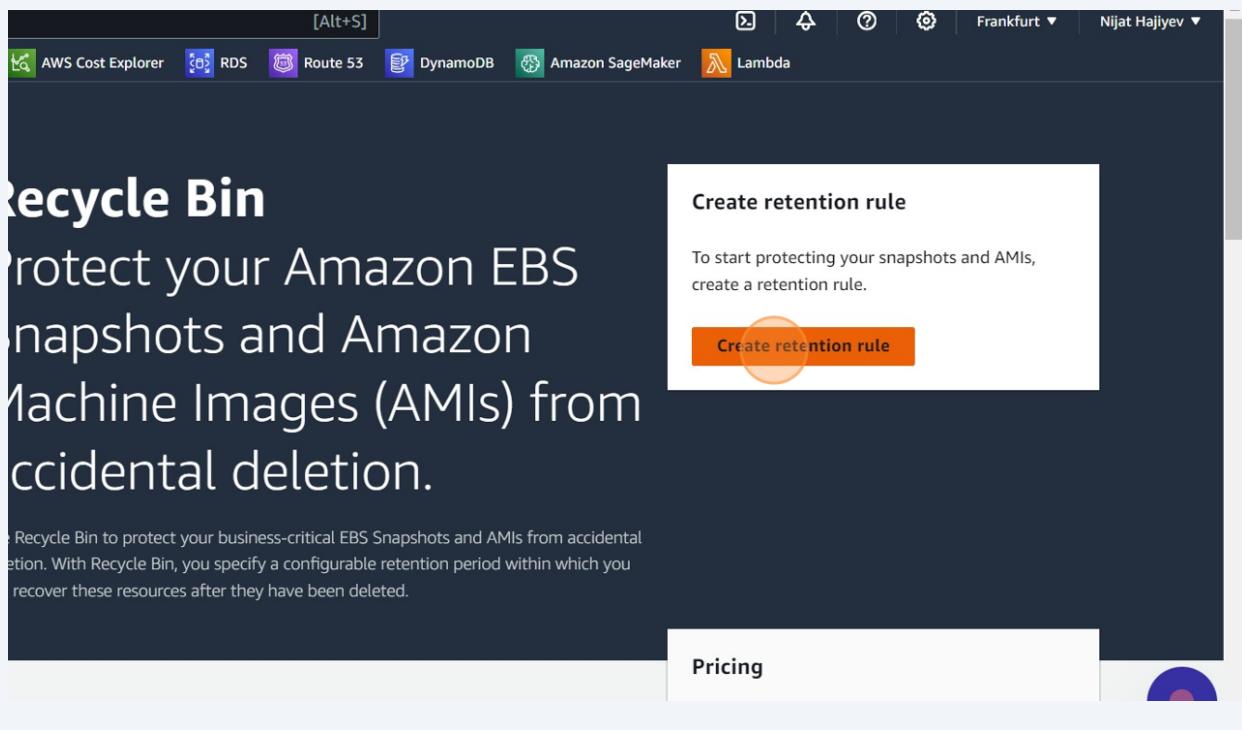
40 Click "Recycle Bin"

The screenshot shows the AWS Lambda console. At the top, there is a navigation bar with links for RDS, Route 53, DynamoDB, Amazon SageMaker, Lambda, and a user profile. Below the navigation bar, there is a toolbar with buttons for Refresh, Recycle Bin (highlighted with a red circle), Actions, and Create snapshot.

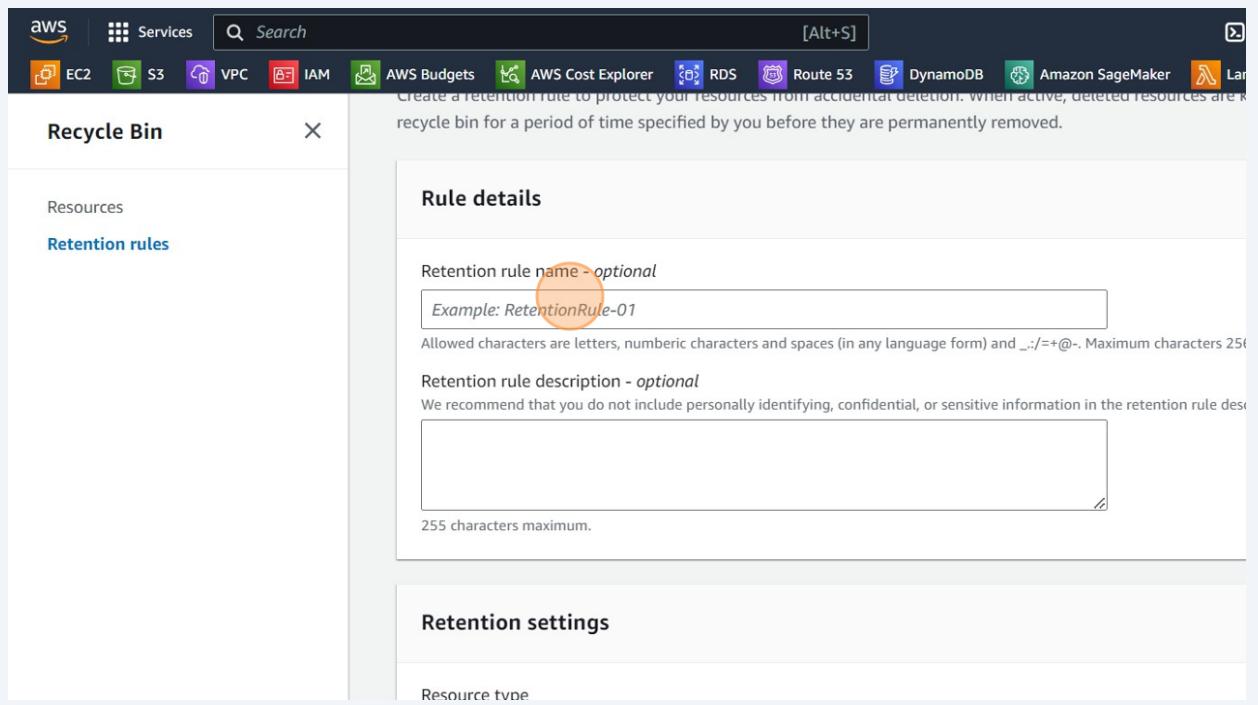
Below the toolbar, there is a table with columns: Volume size and Description. One row is listed:

Volume size	Description
snap-0d741a496d1399fa9	2 GiB Snapshot

41 Click "Create retention rule"

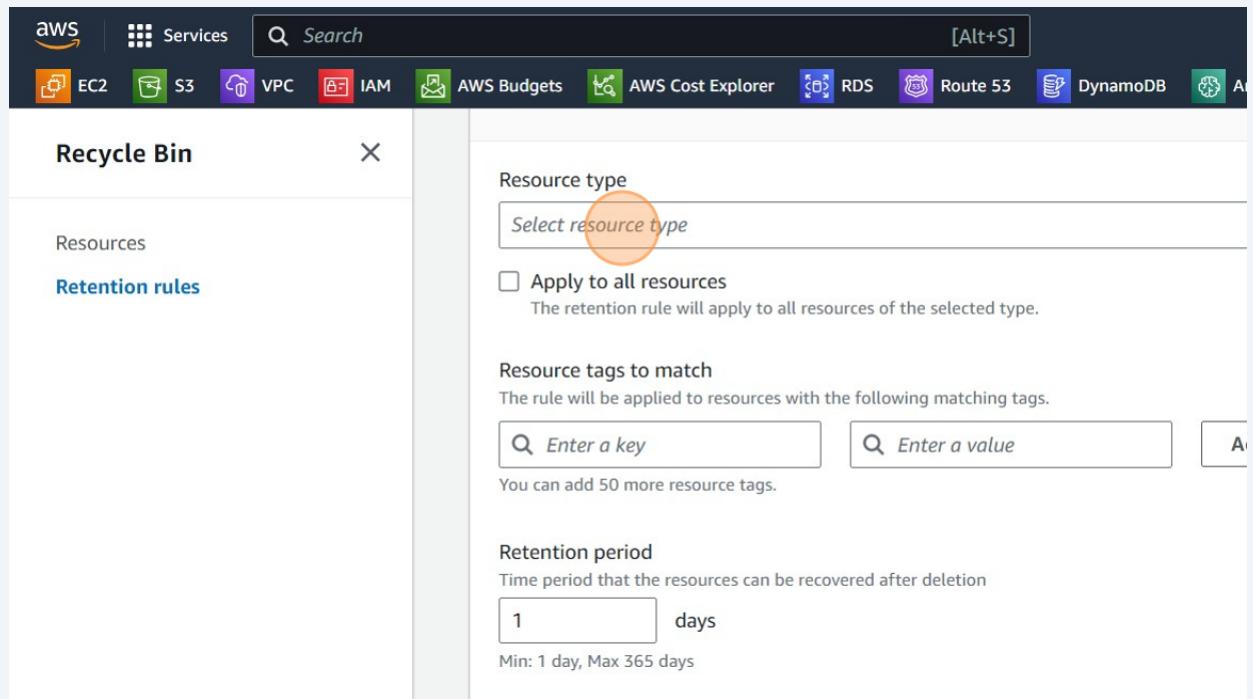


42 Click the "Retention rule name - optional" field.

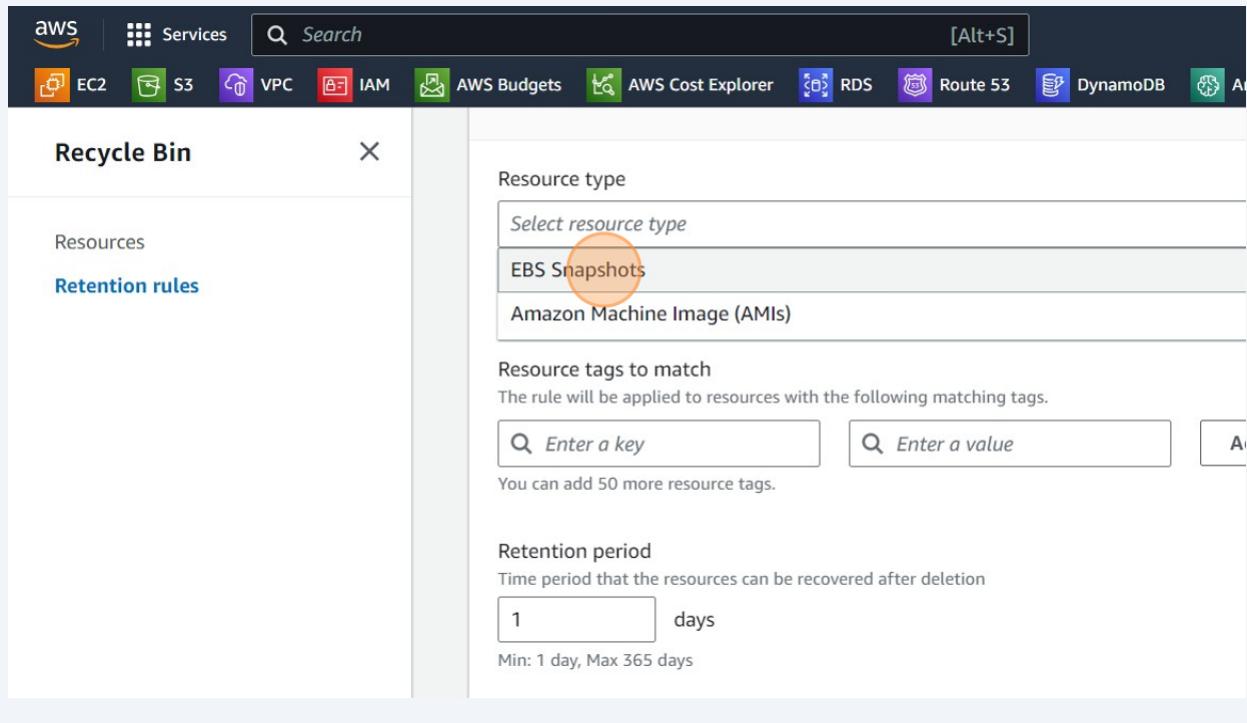


43 Type "Rule"

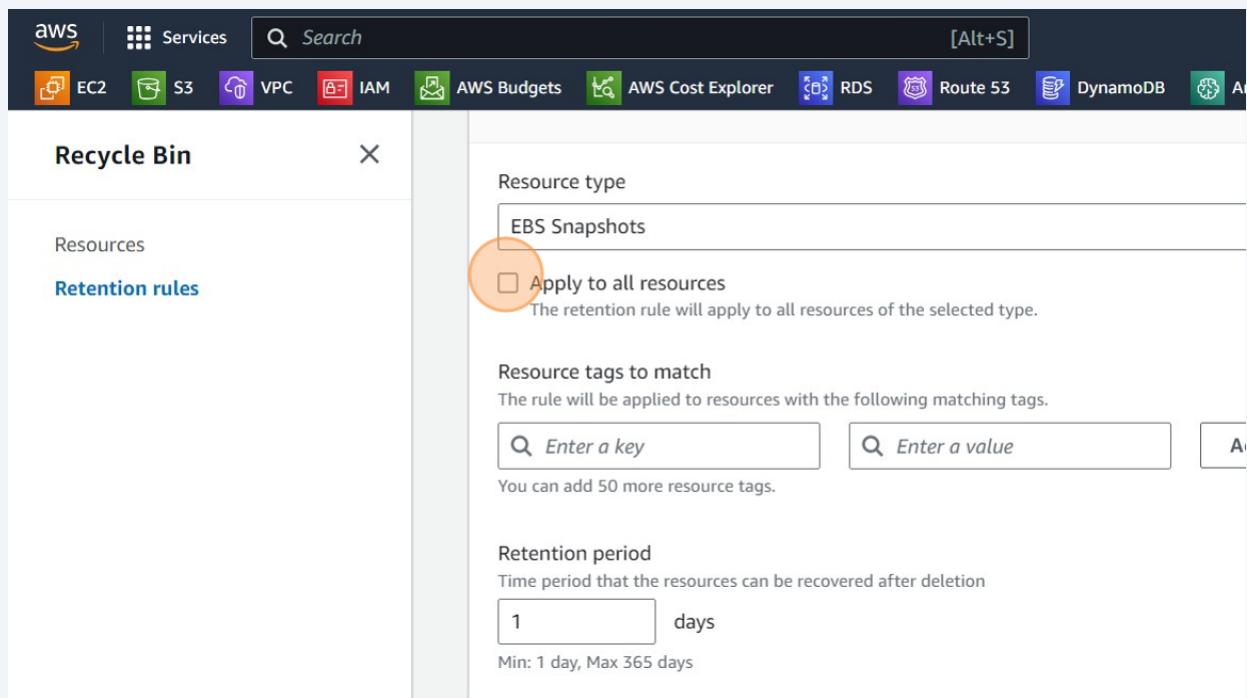
44 Click "Select resource type"



45 Click "EBS Snapshots"



46 Click this checkbox.

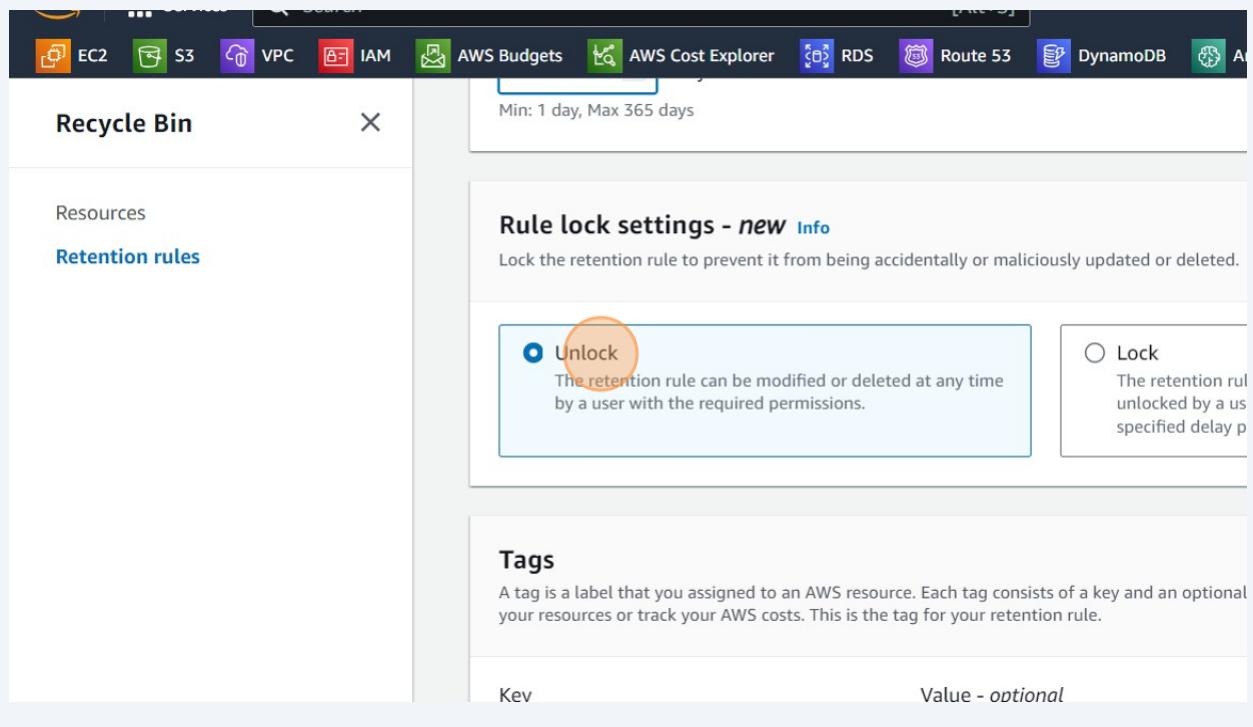


47 Click the "Retention period" field.

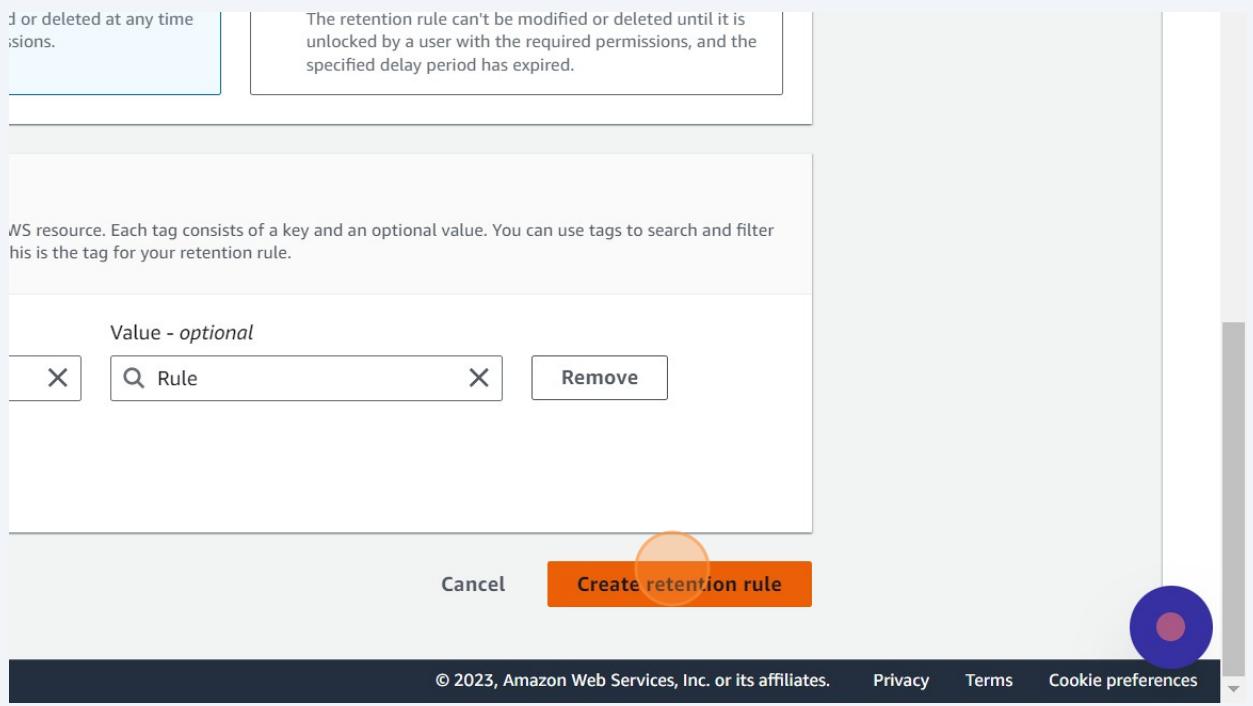
The screenshot shows the AWS Lambda 'Retention rules' configuration interface. At the top, there's a navigation bar with icons for EC2, S3, VPC, IAM, AWS Budgets, AWS Cost Explorer, RDS, Route 53, DynamoDB, and Lambda. Below the navigation bar, the left sidebar has sections for 'Recycle Bin' and 'Resources'. Under 'Resources', the 'Retention rules' section is selected. The main content area is titled 'Retention period' and specifies 'EBS Snapshots'. A checkbox labeled 'Apply to all resources' is checked, with a note below stating 'The retention rule will apply to all resources of the selected type.' A dropdown menu for 'Time period that the resources can be recovered after deletion' is open, showing the value '1 days' with a circled '1'. Below this, a note says 'Min: 1 day, Max 365 days'. At the bottom, there's a section titled 'Rule lock settings - new' with two options: 'Unlock' (selected) and 'Lock'. The 'Unlock' option is described as allowing modification or deletion by anyone with the required permissions.

48 Type "5"

49 Click "Unlock"



50 Click "Create retention rule"



51 Click this button. Retention Rule is created

The screenshot shows the AWS EBS Snapshots Retention Rules interface. At the top, there's a search bar and navigation links for VPC, IAM, AWS Budgets, AWS Cost Explorer, RDS, Route 53, DynamoDB, Amazon SageMaker, and Lambda. The main area is titled "Retention rules (1) Info". A table lists one rule:

Name	Rule ID	Description	Retention	Rule lock state
cQ7FDcJgmx8	-	-	5 Days	Unlocked

A large orange circle highlights the "Create retention rule" button at the top right of the table header. Below the table, a message says "Select a retention rule above".

Delete snapshot and restore

52 Click this checkbox.

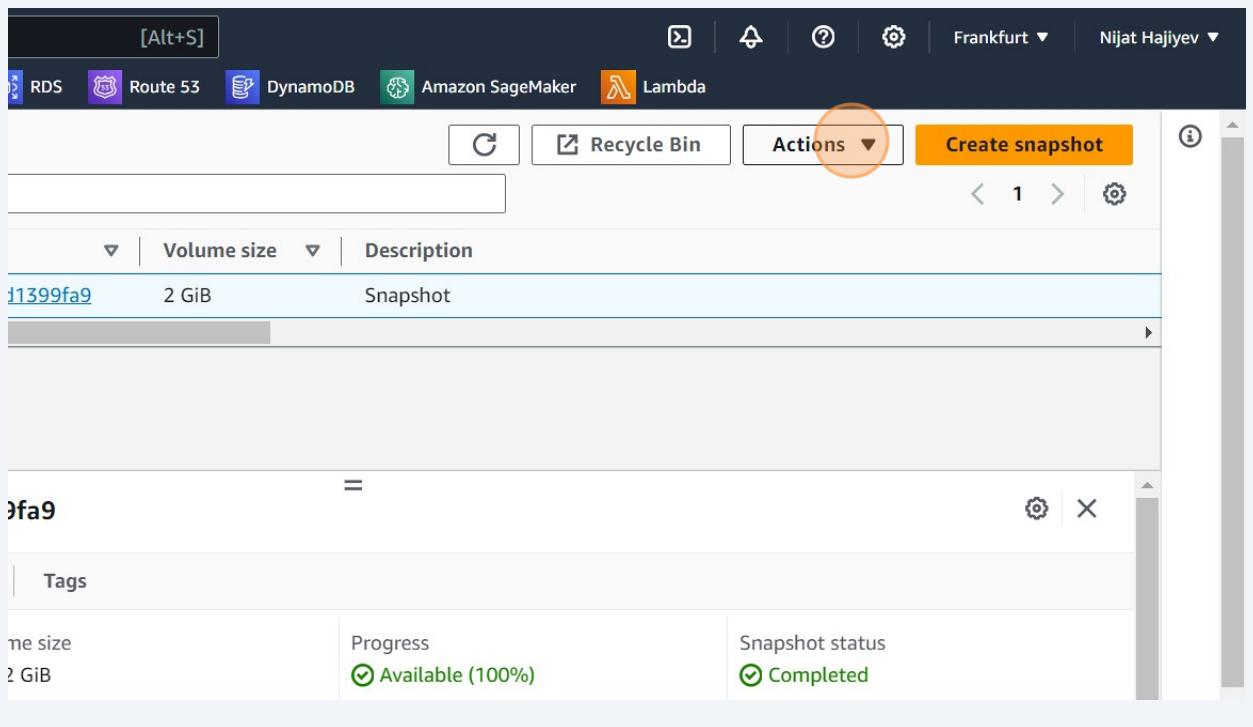
The screenshot shows the AWS Elastic Block Store Snapshots interface. On the left, there's a sidebar with "Services" navigation: EC2, S3, VPC, IAM, AWS Budgets, AWS Cost Explorer, RDS, Route 53, DynamoDB, and Amazon SageMaker. Below this are sections for "Spot Requests", "Savings Plans", "Reserved Instances", "Dedicated Hosts", and "Capacity Reservations". Under "Images", there are "AMIs" and "AMI Catalog". Under "Elastic Block Store", there are "Volumes", "Snapshots" (which is highlighted in blue), and "Lifecycle Manager".

The main area is titled "Snapshots (1) Info". A table lists one snapshot:

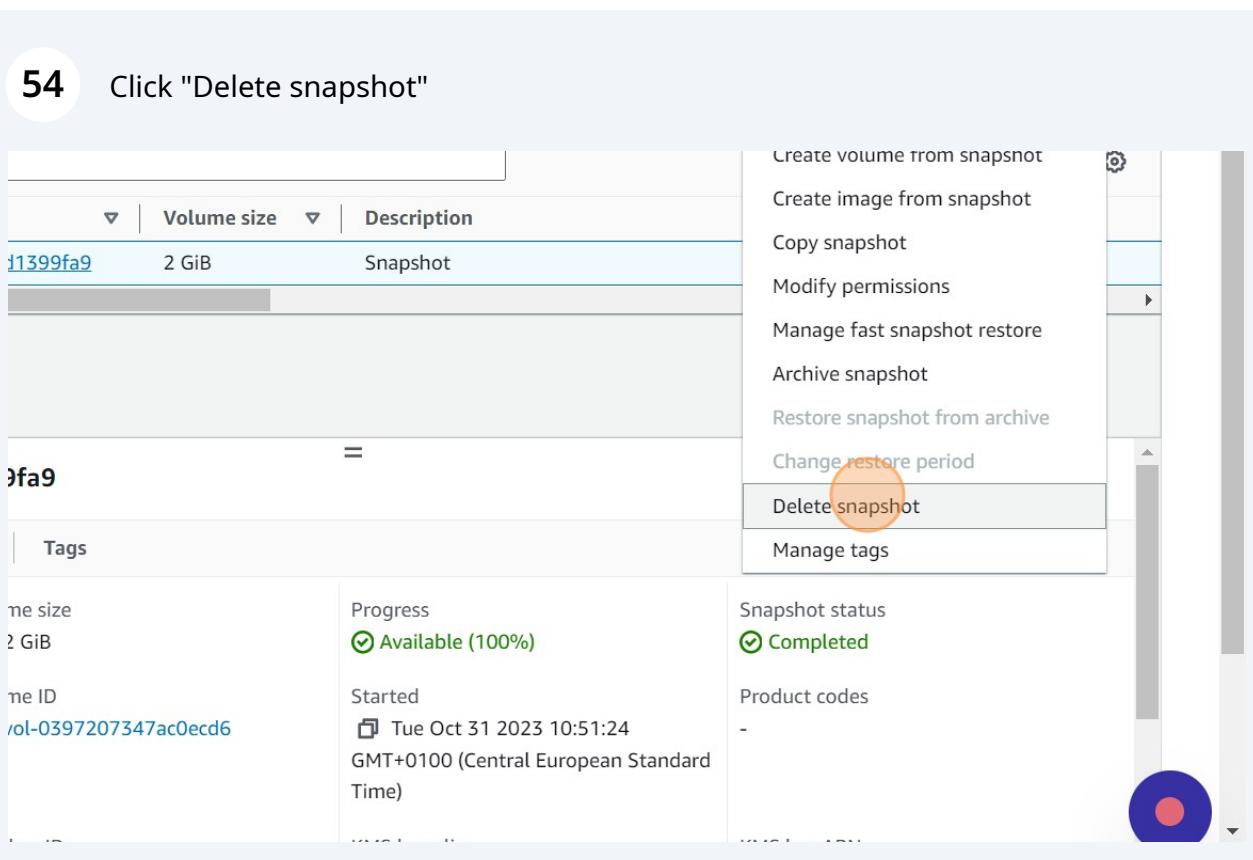
Name	Snapshot ID	Volume size	Description
-	snap-0d741a496d1399fa9	2 GiB	Snapsho

An orange circle highlights the checkbox next to the snapshot name in the table.

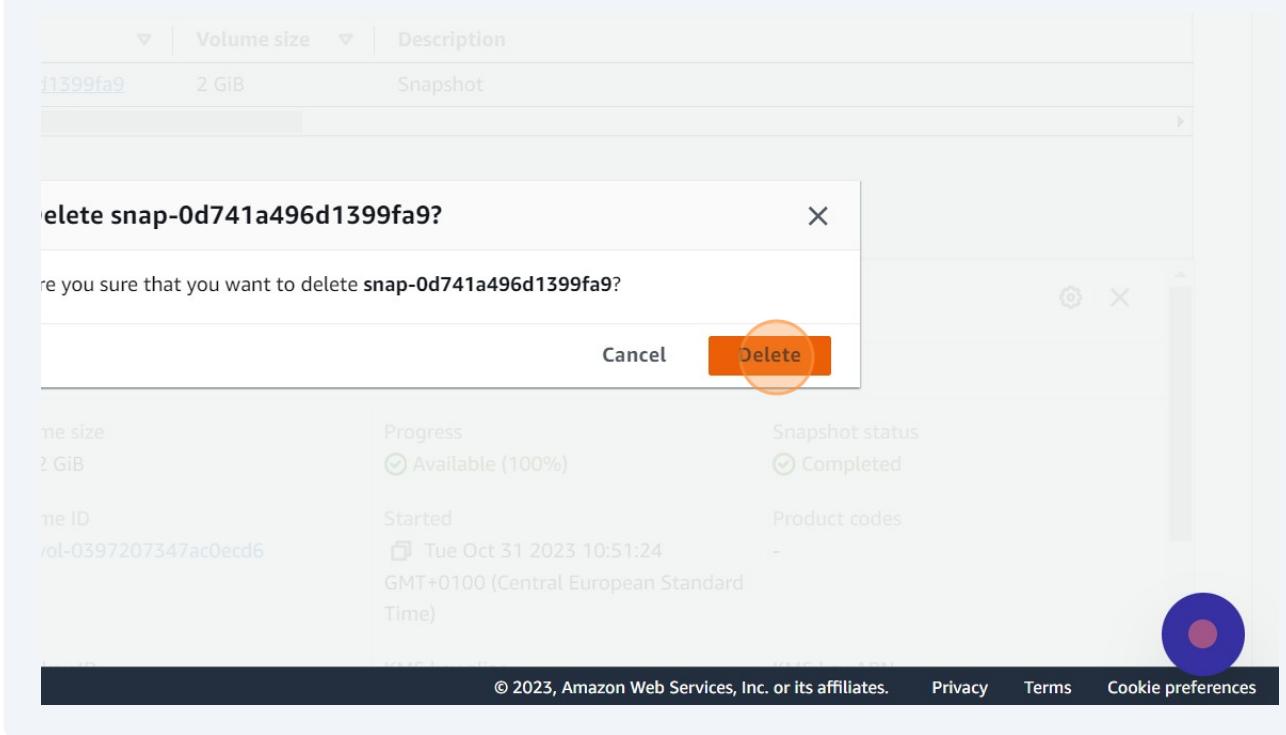
53 Click "Actions"



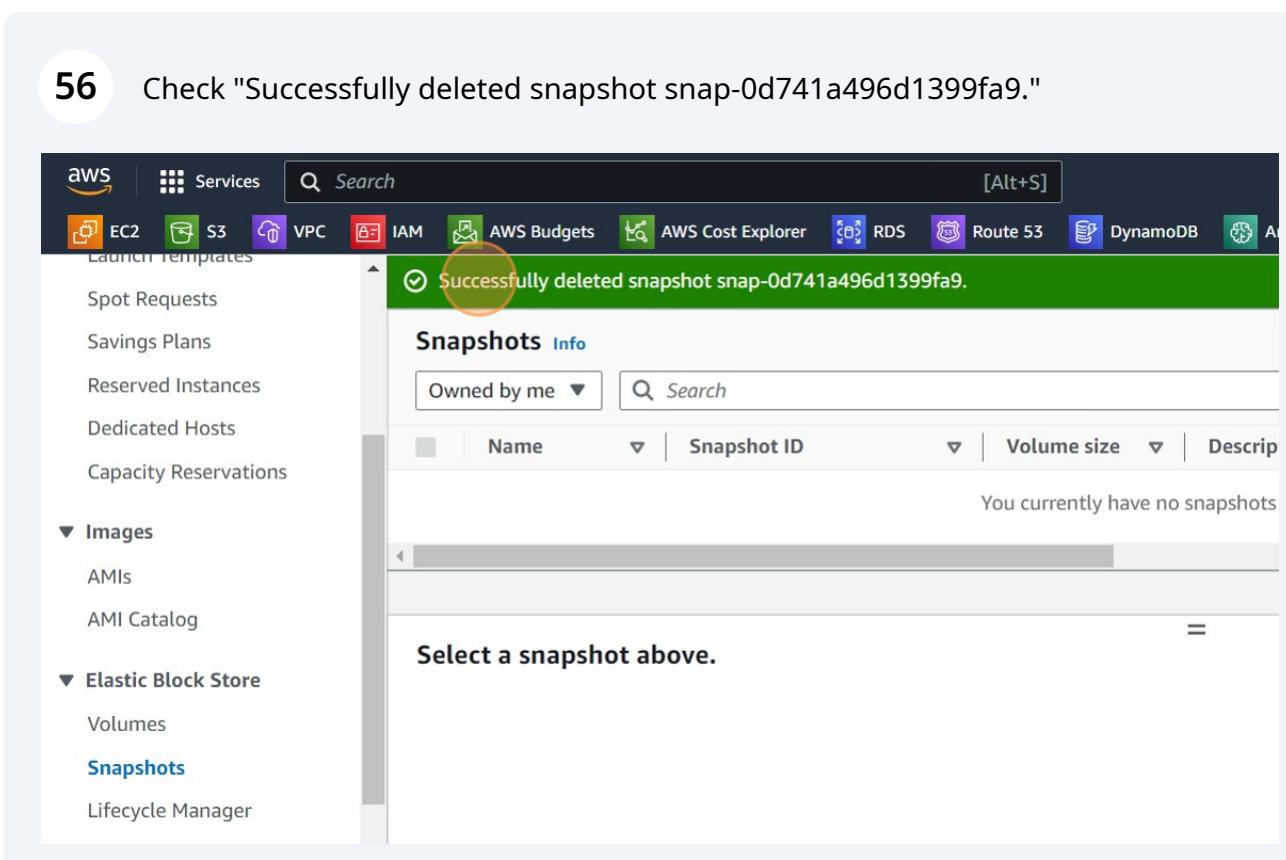
54 Click "Delete snapshot"



55 Click "Delete"

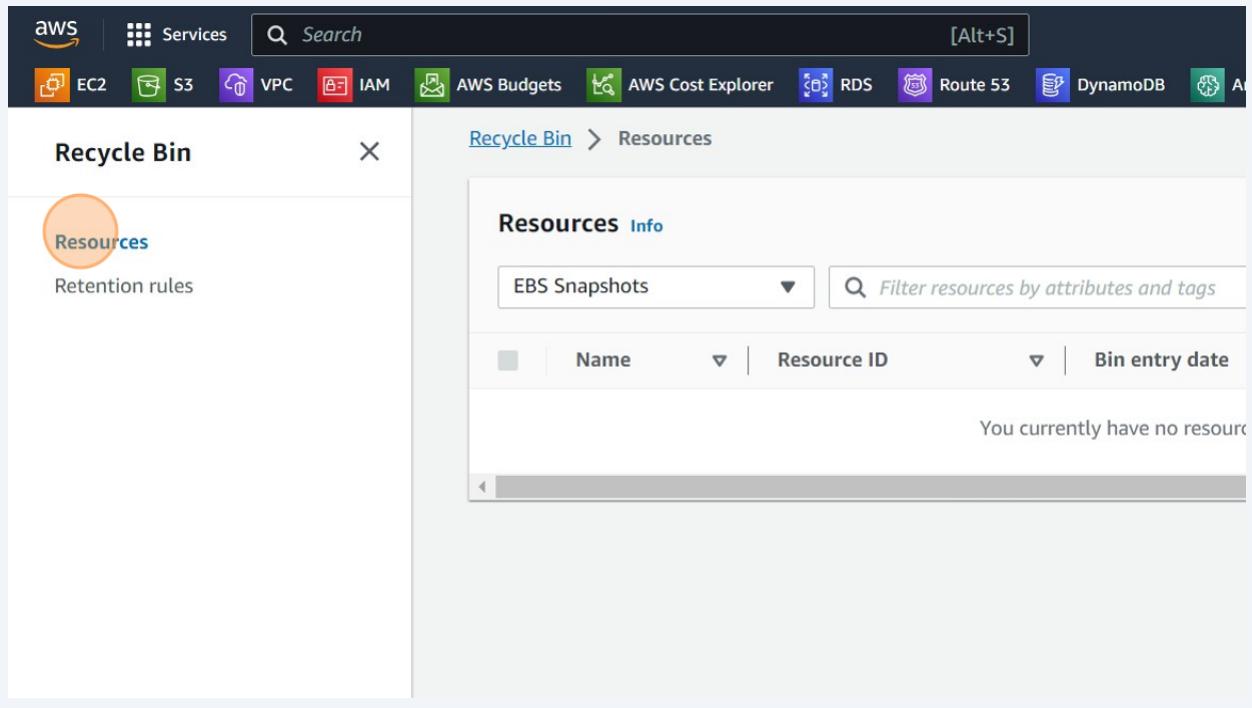


56 Check "Successfully deleted snapshot snap-0d741a496d1399fa9."

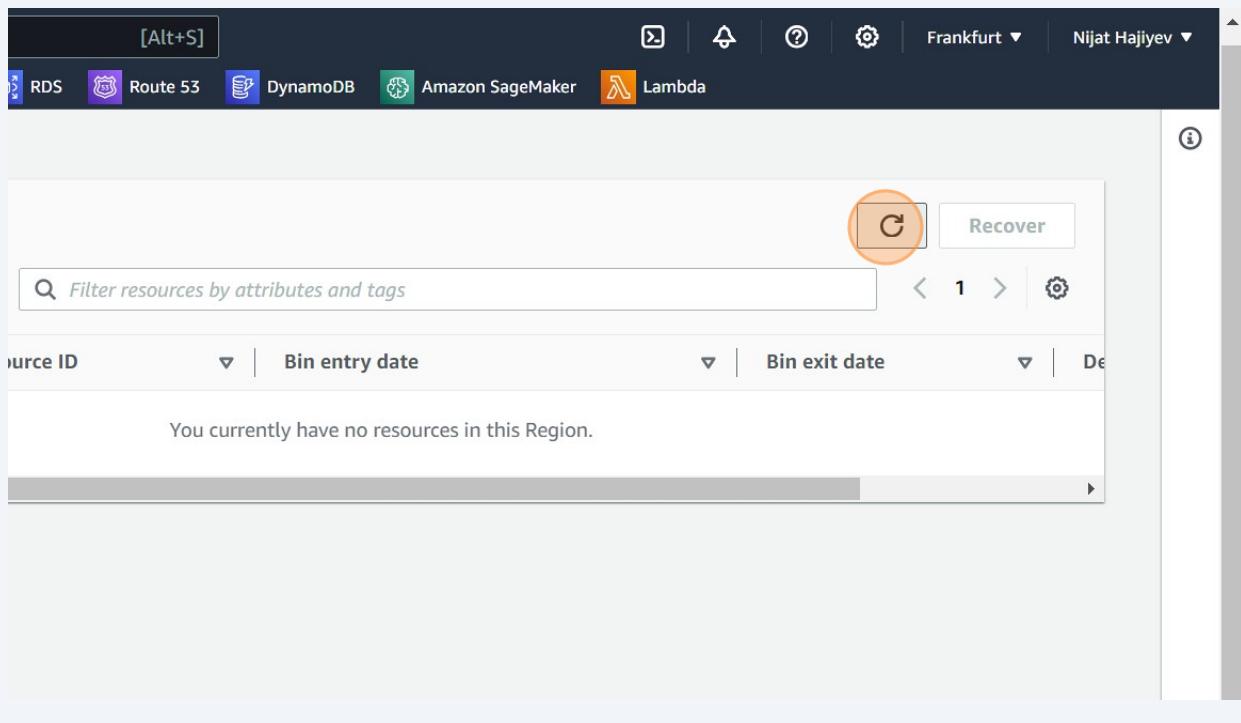


57 Switch to tab "Recycle Bin"

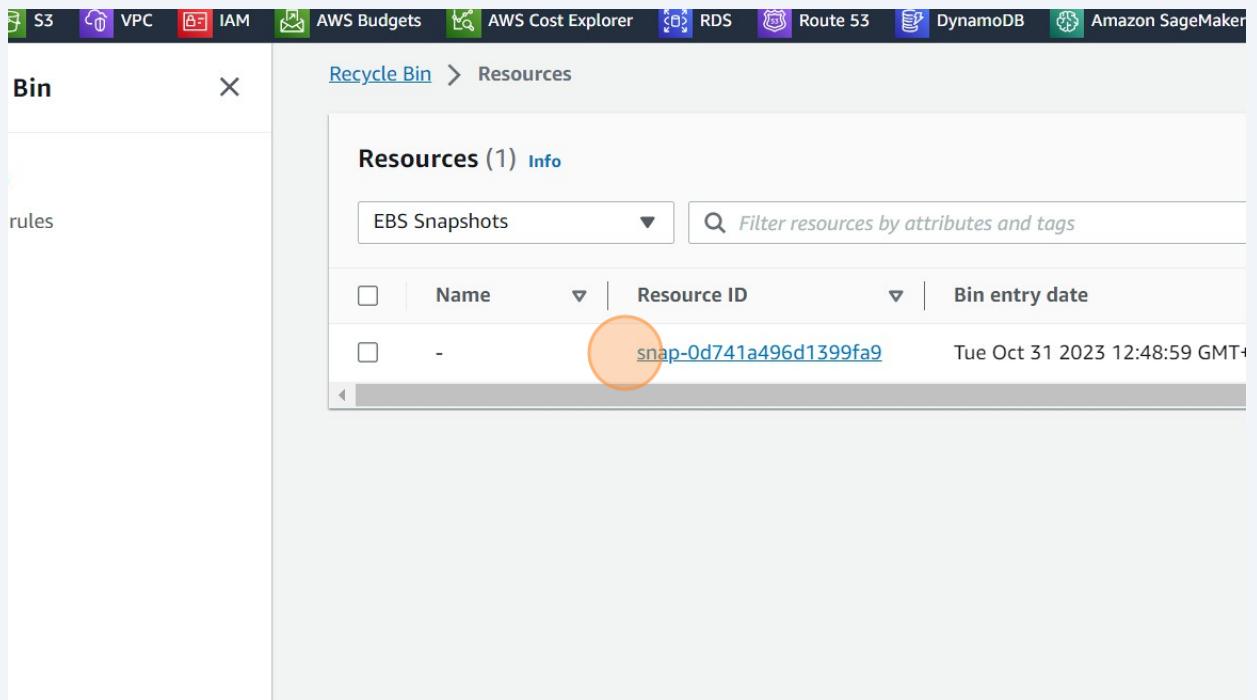
58 Click "Resources"



59 Click here.



60 Check deleted "snap-0d741a496d1399fa9"



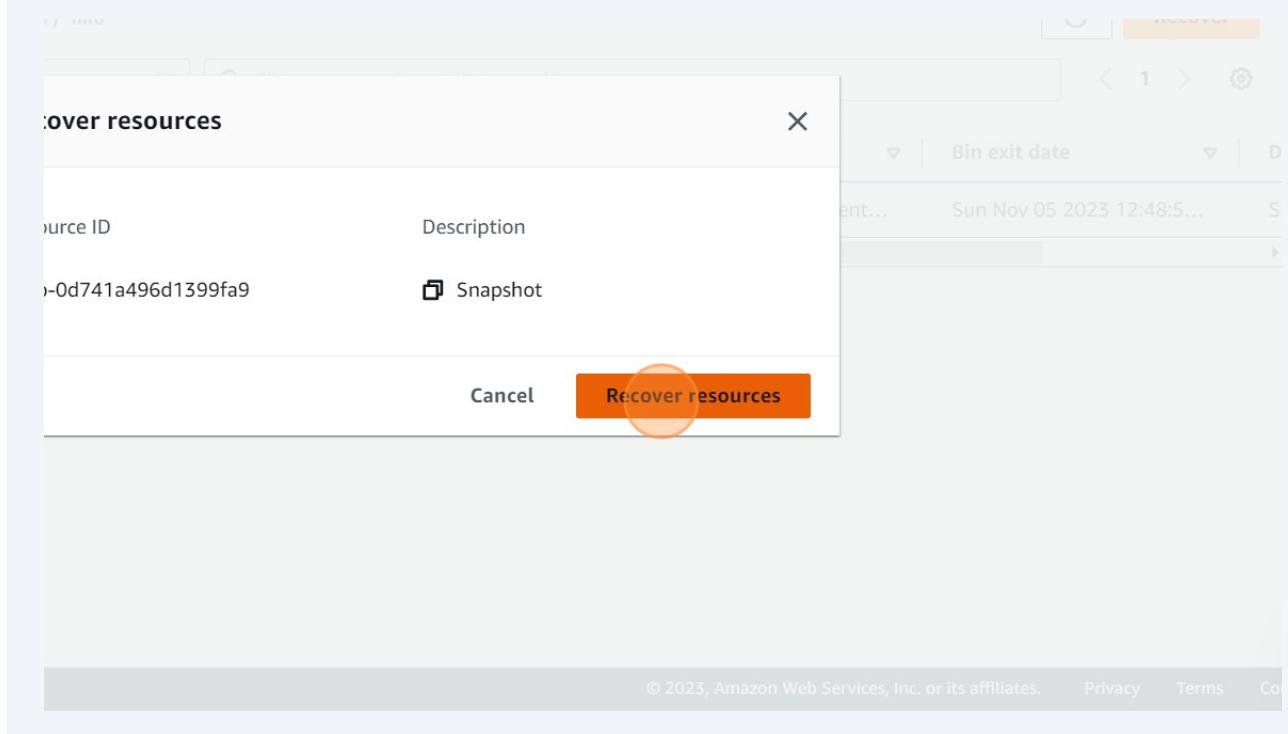
61 Click this checkbox.

The screenshot shows the AWS Recycle Bin interface. On the left, there's a sidebar with 'Recycle Bin' and 'Resources' sections, and a 'Retention rules' link. The main area is titled 'Resources (1/1)' and shows a single item: 'EBS Snapshots'. A search bar at the top says 'Filter resources by attributes and tags'. Below it is a table with columns: 'Name', 'Resource ID', and 'Bin entry date'. The first row contains a checked checkbox (circled in orange), a dash for the name, the resource ID 'snap-0d741a496d1399fa9', and the date 'Tue Oct 31 2023'. There's also a small icon next to the resource ID.

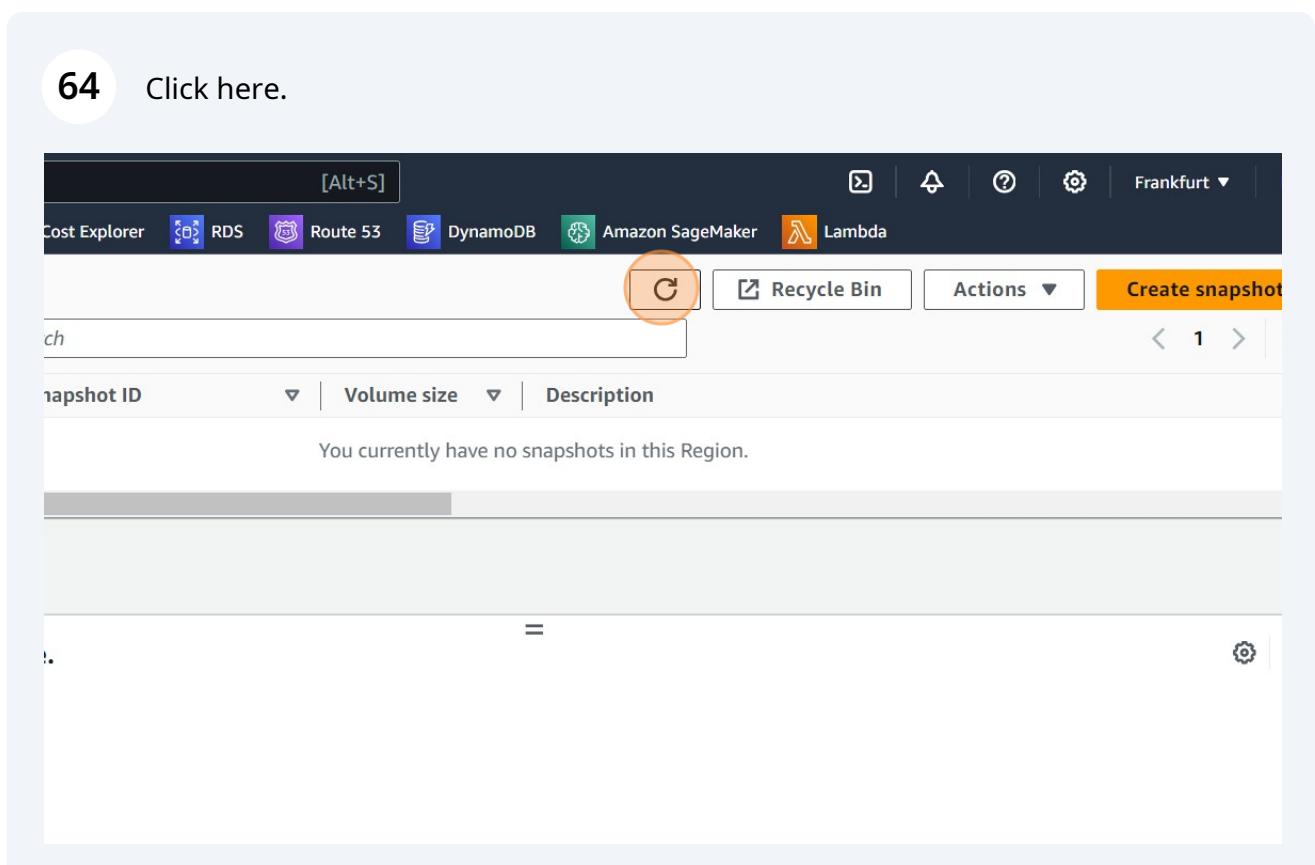
62 Click "Recover"

The screenshot shows a modal dialog box for recovering a resource. At the top right is a large orange button labeled 'Recover' (circled in orange). To its left is a smaller button with a circular arrow icon. Below these are standard UI elements: a search bar, navigation arrows, and a settings gear icon. The main content area displays resource details: 'Source ID' (snap-0d741a496d1399fa9), 'Bin entry date' (Tue Oct 31 2023 12:48:59 GMT+0100 (Cent...)), and 'Bin exit date' (Sun Nov 05 2023 12:48:5...). There's also a 'Delete' link on the far right.

63 Click "Recover resources"



64 Click here.



65 Check recovered snapshot

The screenshot shows the AWS Management Console with the EBS service selected. The left sidebar shows navigation options like Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images (AMIs, AMI Catalog), and Elastic Block Store (Volumes, Snapshots, Lifecycle Manager). The main content area displays a table titled "Snapshots (1)" with one item. The table has columns for Name, Snapshot ID, Volume size, and Description. The "Snapshot ID" column contains the value "snap-0d741a496d1399fa9". A small orange circle highlights the checkbox in the first column of the table row. Below the table, a message says "Select a snapshot above."

Name	Snapshot ID	Volume size	Description
-	snap-0d741a496d1399fa9	2 GiB	Snapsho

Select a snapshot above.