

# Extend EBS volume to 10gb to 20gb

The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, a search bar, and user information. The left sidebar contains a navigation menu with categories like EC2 Dashboard, Images, Elastic Block Store, and Network & Security. The main content area is titled 'Instances' and shows a table of instances. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, Public IPv4 DNS, and Public IPv4. The table is empty, and a message 'No matching instances found' is displayed. Below the table, there is a 'Select an instance' button.

## Create VPC

The screenshot shows the AWS Management Console interface for VPCs. The top navigation bar includes the AWS logo, a search bar, and user information. The left sidebar contains a navigation menu with categories like VPC dashboard, Subnets, Route tables, Internet gateways, and Security. The main content area is titled 'Your VPCs (1/3)' and shows a table of VPCs. The table has columns for Name, VPC ID, State, IPv4 CIDR, IPv6 CIDR, DHCP option set, and Main route table. The table contains three rows, with the third row selected. Below the table, there is a 'Details' section for the selected VPC 'vpc-0caefba7efd022d41'. The details section shows various attributes of the VPC, including its ID, state, DHCP option set, IPv4 CIDR, and main route table.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table
ebs-vps-usw1-rohit	vpc-054d2a9777d684df	Available	10.9.0.0/16	-	dopt-3c47845a	rtb-0ab561c00188f4412
-	vpc-3c2df5a	Available	172.31.0.0/16	-	dopt-3c47845a	rtb-fc9ad59a
ebs-usw1-mihir	vpc-0caefba7efd022d41	Available	10.4.0.0/16	-	dopt-3c47845a	rtb-0b8464686f5702ec9

**vpc-0caefba7efd022d41 / ebs-usw1-mihir**

**Details**

VPC ID vpc-0caefba7efd022d41	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-3c47845a	Main route table rtb-0b8464686f5702ec9 / private-usw1-mihir-ebs	Main network ACL acl-07efb7fce5274f003
Default VPC No	IPv4 CIDR 10.4.0.0/16	IPv6 pool -	IPv6 CIDR -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 719056139938	

## Create public and private subnets

Subnets (1/8) info

Filter subnets

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses
<input type="checkbox"/>	RDS-Pvt-subnet-2	subnet-0d66388c9f657718e	Available	vpc-3c2dfd5a	172.31.32.128/25	-	123
<input type="checkbox"/>	-	subnet-73568929	Available	vpc-3c2dfd5a	172.31.0.0/20	-	4091
<input checked="" type="checkbox"/>	private-usw1-mihir...	subnet-00522180f5d27094e	Available	vpc-0caefba7efd022d41   ebs-...	10.4.12.0/24	-	251
<input type="checkbox"/>	public-usw1-mihir...	subnet-061b8a62849f05818	Available	vpc-0caefba7efd022d41   ebs-...	10.4.6.0/24	-	250
<input type="checkbox"/>	RDS-Pvt-subnet-1	subnet-0946eed436077a3c9	Available	vpc-3c2dfd5a	172.31.32.0/25	-	123
<input type="checkbox"/>	private-subnet-usw...	subnet-083e293c068268793	Available	vpc-054d2a97f77d684df   ebs...	10.9.7.0/24	-	251
<input type="checkbox"/>	public-subnet-usw1...	subnet-0a876b45a86f8dd9	Available	vpc-054d2a97f77d684df   ebs...	10.9.27.0/24	-	250
<input type="checkbox"/>	-	subnet-c3d755a5	Available	vpc-3c2dfd5a	172.31.16.0/20	-	4091

subnet-00522180f5d27094e / private-usw1-mihir-ebs

Details

Subnet ID: subnet-00522180f5d27094e

Subnet ARN: arn:aws:ec2:us-west-1:719056139938:subnet/subnet-

State: Available

IPv4 CIDR: 10.4.12.0/24

Subnets (1/8) info

Filter subnets

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses
<input type="checkbox"/>	RDS-Pvt-subnet-2	subnet-0d66388c9f657718e	Available	vpc-3c2dfd5a	172.31.32.128/25	-	123
<input type="checkbox"/>	-	subnet-73568929	Available	vpc-3c2dfd5a	172.31.0.0/20	-	4091
<input type="checkbox"/>	private-usw1-mihir...	subnet-00522180f5d27094e	Available	vpc-0caefba7efd022d41   ebs-...	10.4.12.0/24	-	251
<input checked="" type="checkbox"/>	public-usw1-mihir...	subnet-061b8a62849f05818	Available	vpc-0caefba7efd022d41   ebs-...	10.4.6.0/24	-	250
<input type="checkbox"/>	RDS-Pvt-subnet-1	subnet-0946eed436077a3c9	Available	vpc-3c2dfd5a	172.31.32.0/25	-	123
<input type="checkbox"/>	private-subnet-usw...	subnet-083e293c068268793	Available	vpc-054d2a97f77d684df   ebs...	10.9.7.0/24	-	251
<input type="checkbox"/>	public-subnet-usw1...	subnet-0a876b45a86f8dd9	Available	vpc-054d2a97f77d684df   ebs...	10.9.27.0/24	-	250
<input type="checkbox"/>	-	subnet-c3d755a5	Available	vpc-3c2dfd5a	172.31.16.0/20	-	4091

subnet-061b8a62849f05818 / public-usw1-mihir-ebs

Details

Subnet ID: subnet-061b8a62849f05818

Subnet ARN: arn:aws:ec2:us-west-1:719056139938:subnet/subnet-

State: Available

IPv4 CIDR: 10.4.6.0/24

Create public route table and do subnet association



Services

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VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

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

Internet gateways (1/3)

Filter internet gateways

	Name	Internet gateway ID	State	VPC ID	Owner
<input checked="" type="checkbox"/>	lgw-mihir-usw1-eb...	lgw-07c8651c66f9048d2	Attached	vpc-0caefba7efd022d41   ebs-usw1-m...	719056139938
<input type="checkbox"/>	lgw-usw1-rohit	lgw-082867e14894ad58c	Attached	vpc-054d2a97f77d684df   ebs-vps-us...	719056139938
<input type="checkbox"/>	-	lgw-c6db0aa1	Attached	vpc-3c2dfd5a	719056139938

lgw-07c8651c66f9048d2 / lgw-mihir-usw1-ebs-public

Details

Tags

Details

Internet gateway ID	State	VPC ID	Owner
lgw-07c8651c66f9048d2	Attached	vpc-0caefba7efd022d41   ebs-usw1-mihir	719056139938

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## Creating ec2 instance

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EC2 > Instances > Launch an Instance

Launch an instance

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

Name

ec2-mihir-ebs-usw1

Add additional tags

Application and OS Images (Amazon Machine Image)

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

Reents Quick Start

Amazon Linux

Ubuntu

Windows

Red Hat

SUSE Linux

Browse more AMIs

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI

ami-07bc04fd13241142 (64-bit (x86), uefi-preferred) / ami-055aa79c1cb31eb71 (64-bit (Arm), uefi)

Free tier eligible

Description

Summary

Number of instances

1

Software image (AMI)

Amazon Linux 2023 AMI 2023.0.2...read more

ami-07bc04fd13241142

Virtual server type (instance type)

t2.micro

Firewall (security group)

SgMihirEc2Ebs

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 50 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch Instance

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Amazon Linux 2023 AMI

ami-07bc04fd13241142 (64-bit (x86), uefi-preferred) / ami-055aa79c1cb31eb71 (64-bit (Arm), uefi)

Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Amazon Linux 2023 AMI 2023.0.20230322.0 x86\_64 HVM kernel-6.1

Architecture Boot mode AMI ID

64-bit (x86) uefi-preferred ami-07bc04fd13241142

Free tier eligible

Verified provider

▼ Instance type

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory

On-Demand RHEL pricing: 0.0738 USD per Hour

On-Demand SUSE pricing: 0.0138 USD per Hour

On-Demand Windows pricing: 0.0184 USD per Hour

On-Demand Linux pricing: 0.0138 USD per Hour

Free tier eligible

Compare instance types

▼ Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

mihir-first

Create new key pair

▼ Network settings

VPC - required

vpc-0caefba7efd022d41 (ebs-usw1-mihir)

▼ Summary

Number of instances

1

Software image (AMI)

Amazon Linux 2023 AMI 2023.0.2...read more

ami-07bc04fd13241142

Virtual server type (instance type)

t2.micro

Firewall (security group)

SgMihirEc2Ebs

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Cancel

Launch instance

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▼ Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

mihir-first

Create new key pair

▼ Network settings

VPC - required

vpc-0caefba7efd022d41 (ebs-usw1-mihir)

10.4.0.0/16

Subnet

subnet-061b8a62849f05818 public-usw1-mihir-ebs

VPC: vpc-0caefba7efd022d41 Owner: 719056139938 Availability Zone: us-west-1a

IP addresses available: 251 CIDR: 10.4.6.0/24

Create new subnet

Auto-assign public IP

Enable

Firewall (security group)

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

Common security groups

Select security groups

SgMihirEc2Ebs sg-04feb08b3ac3d7ad5

VPC: vpc-0caefba7efd022d41

Compare security group rules

Advanced network configuration

▼ Configure storage

Advanced

▼ Summary

Number of instances

1

Software image (AMI)

Amazon Linux 2023 AMI 2023.0.2...read more

ami-07bc04fd13241142

Virtual server type (instance type)

t2.micro

Firewall (security group)

SgMihirEc2Ebs

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) Instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

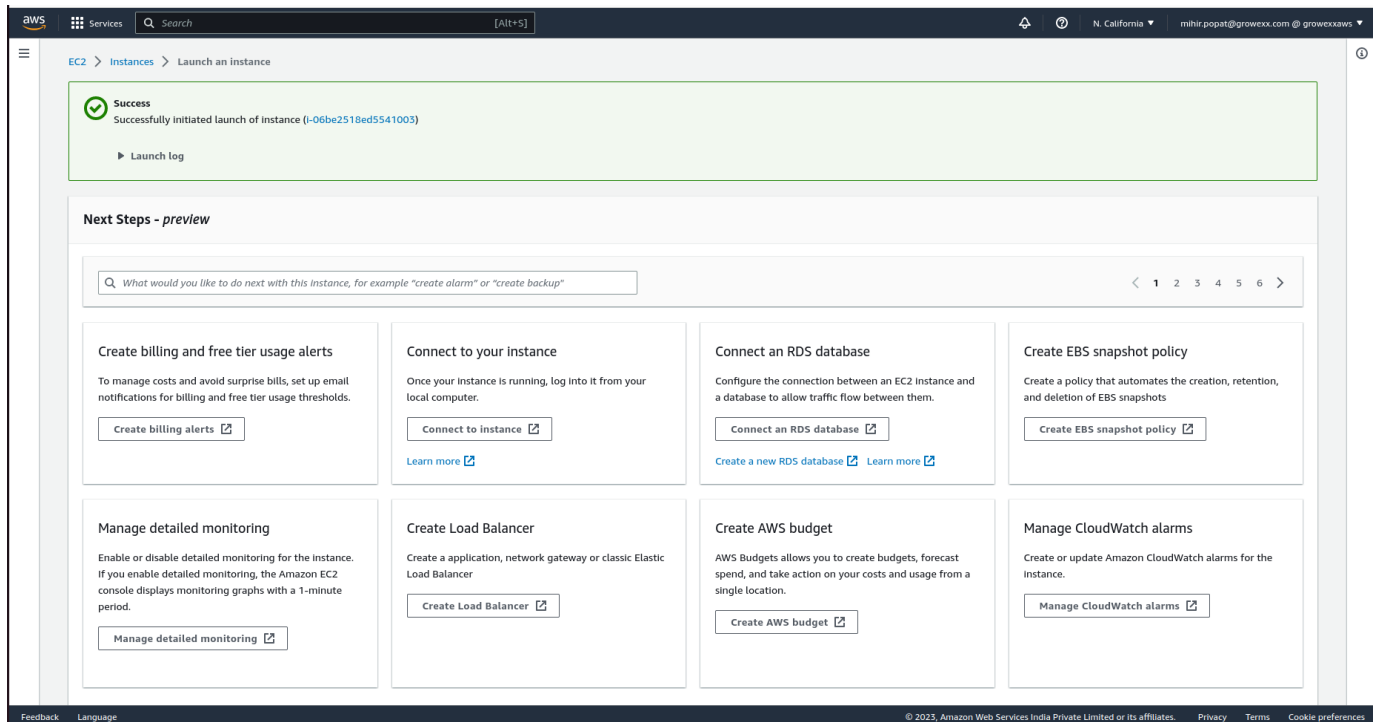
Cancel

Launch instance

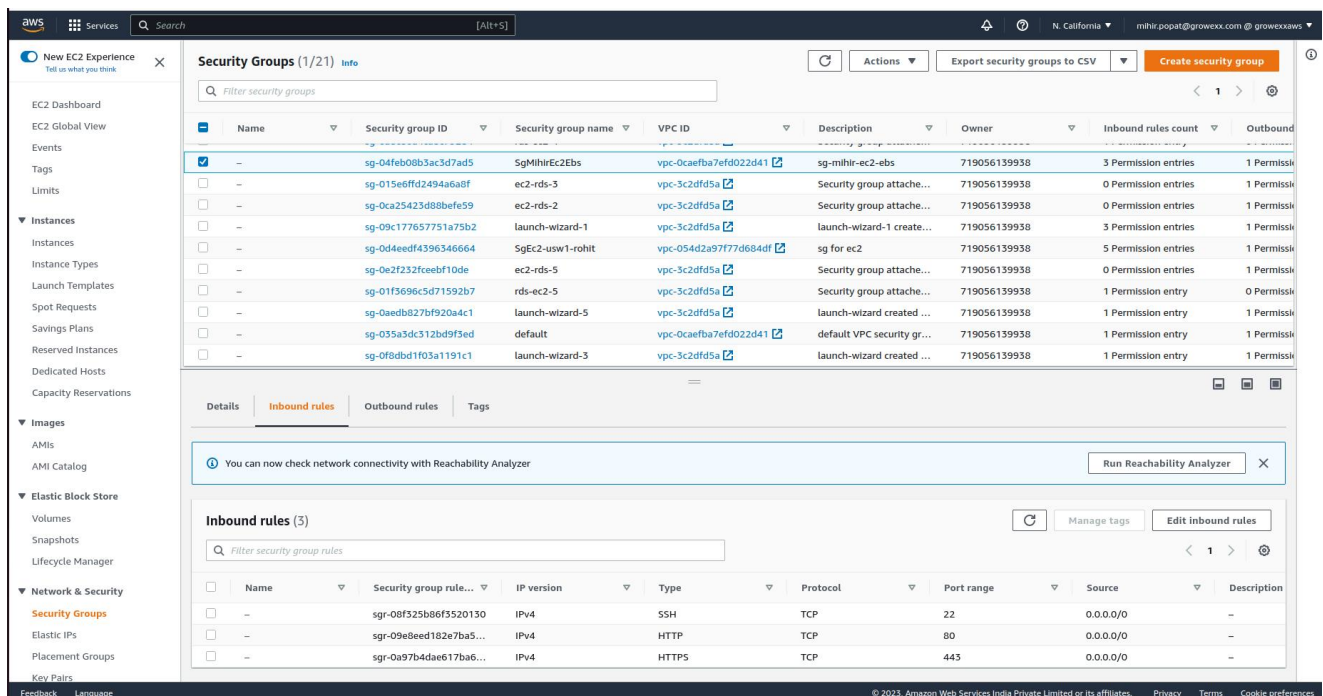
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Create subnet group for ec2 and give inbound and outbound rule



Now click on storage in ec2 instance and click on volume id

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Key Pairs

Instances (1/3) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
<input type="checkbox"/> ec2-mihir-eks-usw1	i-0782e756fe0069ebd	Terminated	t2.micro	-	No alarms	us-west-1a	-	-
<input checked="" type="checkbox"/> ec2-mihir-eks-usw1	i-06be2518ed5541003	Running	t2.micro	2/2 checks passed	No alarms	us-west-1a	-	54.176.141
<input type="checkbox"/> ec2-usw1-rohit	i-0ede8101b9cd80d32	Running	t2.micro	2/2 checks passed	No alarms	us-west-1c	-	52.53.176.1

Instance: i-06be2518ed5541003 (ec2-mihir-eks-usw1)

Details Security Networking Storage Status checks Monitoring Tags

Root device details

Root device name /dev/xvda Root device type EBS EBS optimization disabled

Block devices

Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID	Delete on termination
vol-0f700e1c7feb1b95c	/dev/xvda	8	Attached	2023/03/28 17:46 GMT+5:30	No	-	Yes

Recent root volume replacement tasks

Filter tasks

Replace root volume

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

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Select volume id and create snapshot

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Lifecycle Manager

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Security Groups  
Elastic IPs  
Placement Groups  
Key Pairs

Instances (1/3) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
<input type="checkbox"/> ec2-mihir-eks-usw1	i-0782e756fe0069ebd	Terminated	t2.micro	-	No alarms	us-west-1a	-	-
<input checked="" type="checkbox"/> ec2-mihir-eks-usw1	i-06be2518ed5541003	Running	t2.micro	2/2 checks passed	No alarms	us-west-1a	-	54.176.141
<input type="checkbox"/> ec2-usw1-rohit	i-0ede8101b9cd80d32	Running	t2.micro	2/2 checks passed	No alarms	us-west-1c	-	52.53.176.1

Instance: i-06be2518ed5541003 (ec2-mihir-eks-usw1)

Details Security Networking Storage Status checks Monitoring Tags

Root device details

Root device name /dev/xvda Root device type EBS EBS optimization disabled

Block devices

Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID	Delete on termination
vol-0f700e1c7feb1b95c	/dev/xvda	8	Attached	2023/03/28 17:46 GMT+5:30	No	-	Yes

Recent root volume replacement tasks

Filter tasks

Replace root volume

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

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**Volumes (1)**

Search

Volume ID = vol-0f700e1c7feb1b95c X Clear filters

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone
<input type="checkbox"/>	-	vol-0f700e1c7feb1b95c	gp3	8 GiB	3000	125	snap-05fad81bcebe40d93	2023/03/28 17:46 GMT+5:30	us-west-1a

Select a volume above

**Volumes (1/1)**

Search

Volume ID = vol-0f700e1c7feb1b95c X Clear filters

<input checked="" type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone
<input checked="" type="checkbox"/>	-	vol-0f700e1c7feb1b95c	gp3	8 GiB	3000	125	snap-05fad81bcebe40d93	2023/03/28 17:46 GMT+5:30	us-west-1a

**Volume ID: vol-0f700e1c7feb1b95c**

Details | Status checks | Monitoring | Tags

**Details**

Volume ID vol-0f700e1c7feb1b95c	Size 8 GiB	Type gp3	Volume status Okay
AWS Compute Optimizer finding No recommendations available for this volume.	Volume state In-use	IOPS 3000	Throughput 125
Encryption Not encrypted	KMS key ID -	KMS key alias -	KMS key ARN -
Snapshot snap-05fad81bcebe40d93	Availability Zone us-west-1a	Created Tue Mar 28 2023 17:46:00 GMT+0530 (India Standard Time)	Multi-Attach enabled No
Attached Instances i-06be2518ed5541003 (ec2-mhbir-eks-usw1): /dev/xvda (attached)	Outposts ARN -		

## Create snapshot

It is best practice to create a snapshot of your volume in case something bad happens.



Go to your EBS volume list from your EC2 Dashboard.

Right click the volume.

Click Create Snapshot link.

Add the description value snapshot-my-volume.

Add key : Name and value : snapshot-my-volume.

Click button Create Snapshot.

Go grab some snack while it is in progress.

The screenshot shows the AWS Management Console interface for creating a snapshot. The breadcrumb navigation at the top reads: EC2 > Volumes > vol-0f700e1c7feb1b95c > Create snapshot. The main heading is 'Create snapshot' with an 'Info' link. Below the heading is a sub-header: 'Create a point-in-time snapshot to back up the data on an Amazon EBS volume to Amazon S3.'

The 'Details' section contains the following fields:

- Volume ID:** A dropdown menu showing 'vol-0f700e1c7feb1b95c'.
- Description:** A text input field with the placeholder 'Add a description for your snapshot'. Below the field is a note: '255 characters maximum.'
- Encryption:** A section with an 'Info' link and the text 'Not encrypted'.

The 'Tags' section includes an 'Info' link and a description: '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.' Below this, it states 'No tags associated with the resource.' and provides an 'Add tag' button. A note at the bottom of the section says 'You can add 50 more tags.'

At the bottom of the form are two buttons: 'Cancel' and 'Create snapshot'.

The footer of the console shows 'Feedback', 'Language', and copyright information: '© 2023, Amazon Web Services India Private Limited or its affiliates.' It also includes links for 'Privacy', 'Terms', and 'Cookie preferences'.

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EC2 > Volumes > vol-0f700e1c7feb1b95c > Create snapshot

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

vol-0f700e1c7feb1b95c

Description

Add a description for your snapshot

snapshot-my-volume-mihir

255 characters maximum.

Encryption

[Info](#)

Not encrypted

Tags [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.

Key

Value - optional

Q Name X

Q snapshot-my-volume-mihir X

Remove

Add tag

You can add 49 more tags.

Cancel

Create snapshot

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Successfully created snapshot snap-0a584db42b0403dcf from volume vol-0f700e1c7feb1b95c.

If you need your snapshot to be immediately available consider using Fast Snapshot Restore.

Manage fast snapshot restore

Volumes (2)

Q Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	
	-	vol-04e31d5b7bc79c673	gp3	20 GiB	3000	125	snap-05fad81bcebe40d93	2023/03/28 16:07 GMT+5:...	us-west-1c	
	-	vol-0f700e1c7feb1b95c	gp3	8 GiB	3000	125	snap-05fad81bcebe40d93	2023/03/28 17:46 GMT+5:...	us-west-1a	

Select a volume above

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**Successfully created snapshot snap-0a584db42b0403dcf from volume vol-0f700e1c7feb1b95c.**  
If you need your snapshot to be immediately available consider using Fast Snapshot Restore.

**Volumes (1/2)**

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone
-	vol-04e31d5b7bc79c673	gp3	20 GiB	3000	125	snap-05fad81bcebe40d93	2023/03/28 16:07 GMT+5:30	us-west-1c
-	vol-0f700e1c7feb1b95c	gp3	8 GiB	3000	125	snap-05fad81bcebe40d93	2023/03/28 17:46 GMT+5:30	us-west-1a

**Volume ID: vol-0f700e1c7feb1b95c**

**Details**

Volume ID vol-0f700e1c7feb1b95c	Size 8 GiB	Type gp3	Volume status Okay
AWS Compute Optimizer finding No recommendations available for this volume.	Volume state In-use	IOPS 3000	Throughput 125
Encryption Not encrypted	KMS key ID -	KMS key alias -	KMS key ARN -
Snapshot snap-05fad81bcebe40d93	Availability Zone us-west-1a	Created Tue Mar 28 2023 17:46:00 GMT+0530 (India Standard Time)	Multi-Attach enabled No
Attached Instances i-06be2518ed5541003 (ec2-mihir-eks-usw1); /dev/xvda (attached)	Outposts ARN -		

Increase the volume

This is how we will increase the volume size. Make sure your snapshot is finished.

Let's assume that previous volume size is 8GB and we want increase it to 16GB.

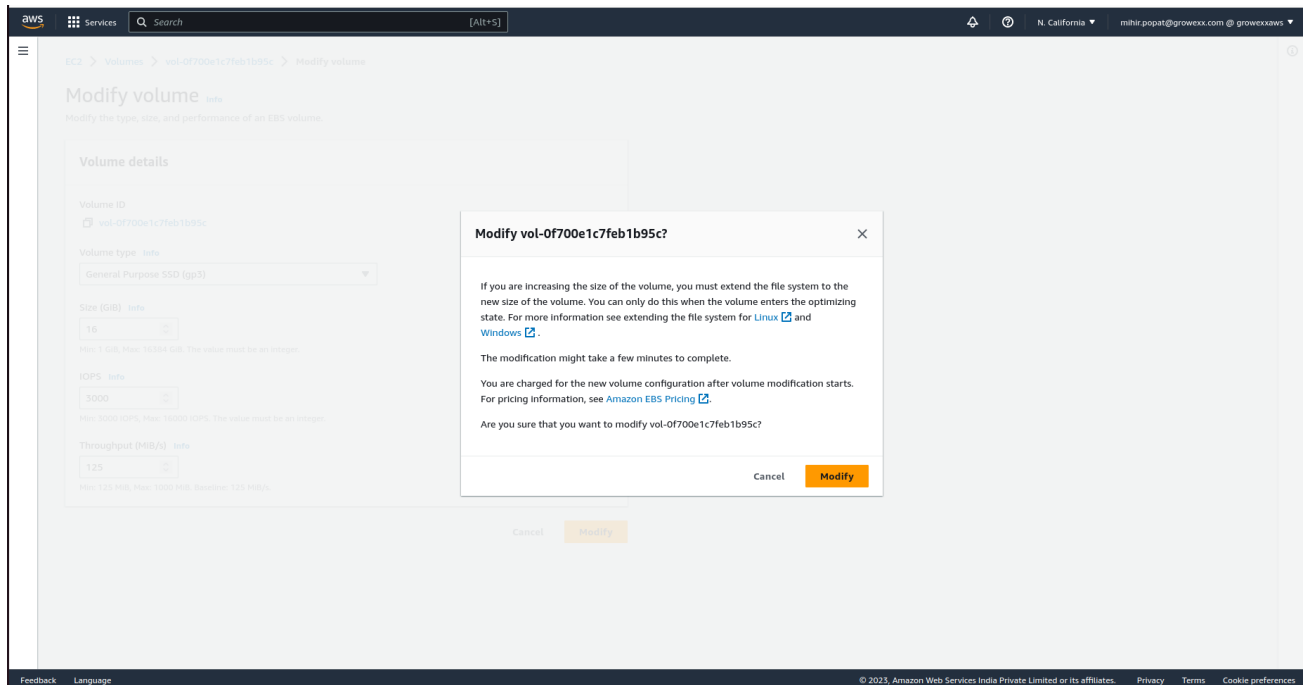
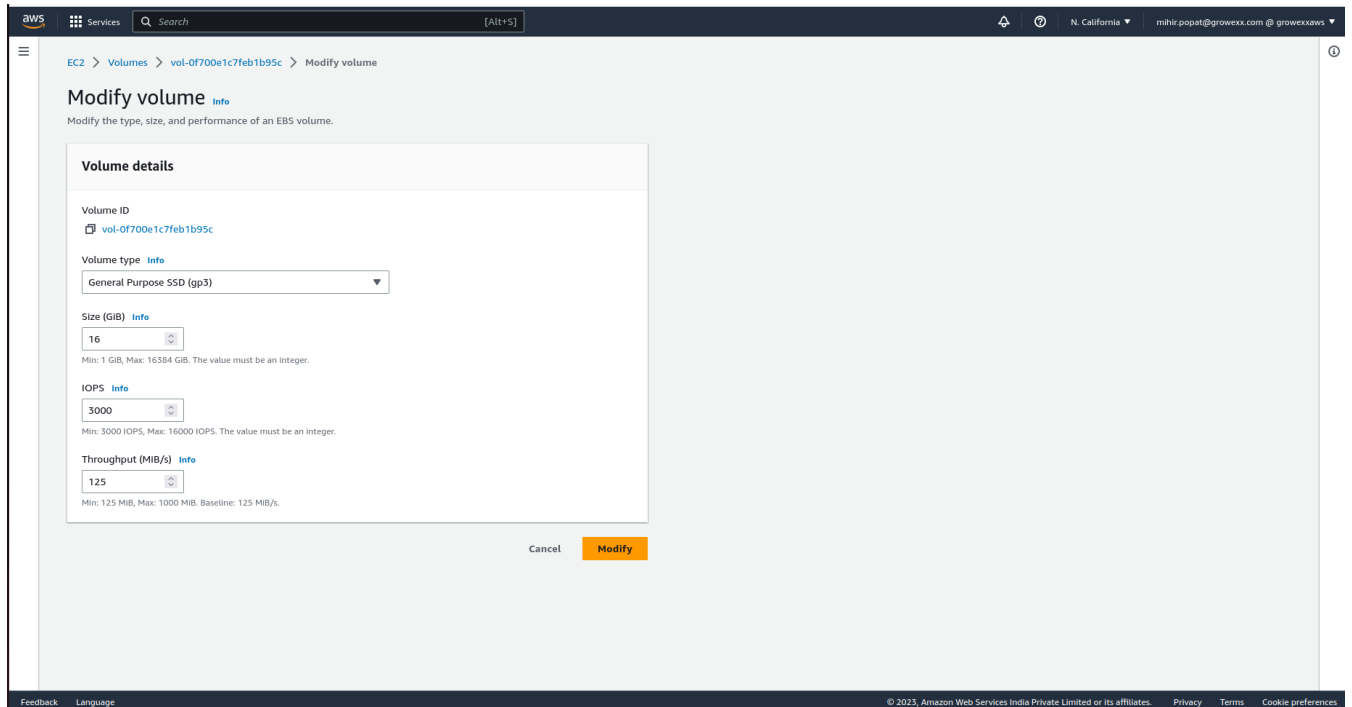
Right click on the volume you wish to increase.

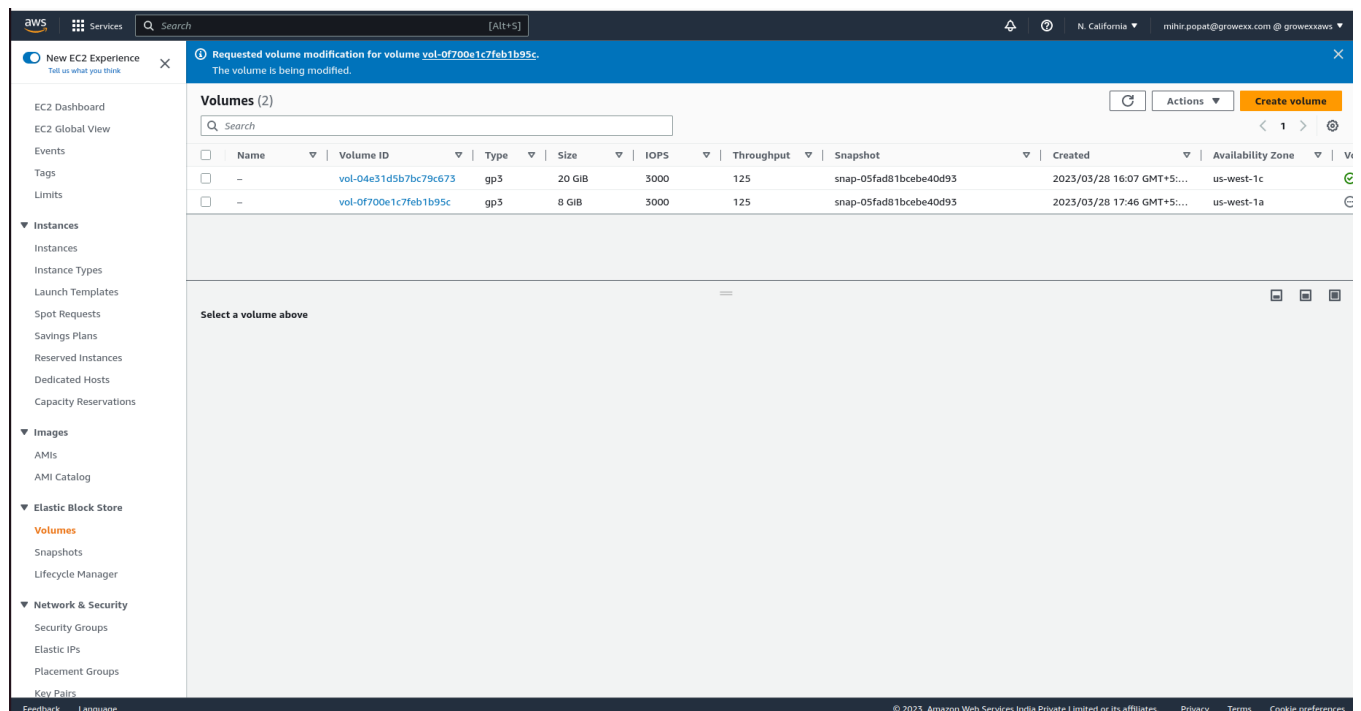
Add your desired size; In our example type 16.

Click Modify.

You will get confirmation to extend OS file system.

Click Yes.





## Extending OS file system

After you finish modifying volume, you need to extend OS file system in order to see your increased volume size. The example below is the command I used for Ubuntu OS.

SSH into you instance.

Type `df -h` to check volume size; You will still have 8GB of volume size.

Type `lsblk` ; Your increased volume will be shown just above your current volume, e.g. `xvda1` is your current volume with 8GB size and `xvda` with 16GB size.

Extend the partition by typing `sudo growpart /dev/xvda 1` ; Note that `dev/xvda` is the partition name and `1` is the partition number.

Extend the volume by typing `sudo xfs_growfs /dev/xvda1` .

Type `df -h` to check volume size; It will show 16GB of volume size.

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Requested volume modification for volume vol-0f700e1c7feb1b95c.

The volume is being modified.

Volumes (2)

Search

Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm status
vol-031d5b7bc79c673	gp3	20 GiB	3000	125	snap-05fad81bcebe40d93	2023/03/28 16:07 GMT+5:30	us-west-1c	In-use	No alarms
vol-00e1c7feb1b95c	gp3	16 GiB	3000	125	snap-05fad81bcebe40d93	2023/03/28 17:46 GMT+5:30	us-west-1a	In-use	No alarms

Select a volume above

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EC2 > Instances > i-06be2518ed5541003 > Connect to instance

Connect to instance

Info

Connect to your instance i-06be2518ed5541003 (ec2-mihir-eks-usw1) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID

i-06be2518ed5541003 (ec2-mihir-eks-usw1)

Public IP address

54.176.141.234

User name

Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ec2-user.

ec2-user

Note: In most cases, the default user name, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel

Connect

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