

Lab 4 Configure Storage by Using EBS

In this challenge, you will configure storage by using Amazon Elastic Block Store (EBS) to create a volume that you can attach to an Amazon Elastic Compute Cloud (EC2) instance. First, you will create an EBS volume. Next, you will modify the EBS volume. Finally, you will attach the EBS volume to an EC2 instance. Note: Once you begin the challenge, you will not be able to pause, save, or exit and then return to your challenge. Please ensure that you have set aside enough time to complete the challenge before you start.

Task 1: Create an EBS volume

EC2 -> Elastic Block Store -> Volumes -> create volume

The screenshot shows the AWS Management Console interface for the us-east-2 region. The main content area displays the 'Volumes' page, which includes a table of existing volumes. The table has columns for Name, Volume ID, Type, Size, IOPS, Throughput, and Snapshot ID. A single volume is listed with ID 'vol-08bfaba7579fb6bfd', type 'gp2', size '8 GiB', and 100 IOPS. Below the table, there is a 'Fault tolerance for all volumes in this Region' section and a 'Snapshot summary' showing 0/1 recently backed up volumes. The console also shows a navigation menu on the left with options like Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, Elastic Block Store, and Network & Security.

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID
	vol-08bfaba7579fb6bfd	gp2	8 GiB	100	-	snap-0e43f2c...

Snapshot summary
Recently backed up volumes / Total # volumes
0 / 1

Data Lifecycle Manager default policy for EBS Snapshots status
Failed to fetch default policy status

Create volume | EC2 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateVolume:

aws

Search

[Alt+S]

United States (Ohio)

LabUserRole/LabUserIod51570358 @ 3333-1230-2179

EC2 > Volumes > Create volume

Create volume

Info

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

Volume settings

Volume type | Info

General Purpose SSD (gp2)

Size (GiB) | Info

8

Min: 1 GiB, Max: 16384 GiB.

IOPS | Info

100 / 3000

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

us-east-2a

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https://us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateVolume:

aws

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[Alt+S]

United States (Ohio)

LabUserRole/LabUserIod51570358 @ 3333-1230-2179

EC2 > Volumes > Create volume

Create volume

Info

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.

Key

Value - optional

Q Name X

Q Volume-51570358 X

Remove

Add tag

You can add 49 more tags.

Snapshot summary | Info

Click refresh to view backup information

The volume type that you select and the tags that you assign determine whether the volume will be backed up by any Data Lifecycle Manager policies.

Cancel Create volume

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Click create volume

Volumes | EC2 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Volumes:

Successfully created volume vol-0d277bd3e8eb32a26.

Volumes (2) Info

Save filter sets Choose filter set Search

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID
<input type="checkbox"/>		vol-08bfaba7579fb6bfd	gp2	8 GiB	100	-	snap-0e43f2c...
<input type="checkbox"/>	Volume-5157...	vol-0d277bd3e8eb32a26	gp2	8 GiB	100	-	-

Fault tolerance for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes

0 / 1

Last updated on Thu, May 22, 2025, 06:02:30 PM (GMT+05:30)

Data Lifecycle Manager default policy for EBS Snapshots status

Failed to fetch default policy status

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Task 2: Modify an EBS volume

Check box the created volume -> actions -> modify volume

Volumes | EC2 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Volumes:

Successfully created volume vol-0d277bd3e8eb32a26.

Volumes (1/2) Info

Save filter sets Choose filter set Search

<input type="checkbox"/>	Name	Volume ID	Type	Size
<input type="checkbox"/>		vol-08bfaba7579fb6bfd	gp2	8 GiB
<input checked="" type="checkbox"/>	Volume-5157...	vol-0d277bd3e8eb32a26	gp2	8 GiB

Volume ID: vol-0d277bd3e8eb32a26 (Volume-51570358)

Details Status checks Monitoring Tags

Volume ID vol-0d277bd3e8eb32a26 (Volume-51570358)

Size 8 GiB

Type gp2

IOPS 100

Throughput -

AWS Compute Optimizer finding This user is not authorized to call AWS Compute Optimizer. | Retry

Volume state Available

Modify volume

Create snapshot

Create snapshot lifecycle policy

Delete volume

Attach volume

Detach volume

Force detach volume

Manage auto-enabled I/O

Manage tags

Fault injection

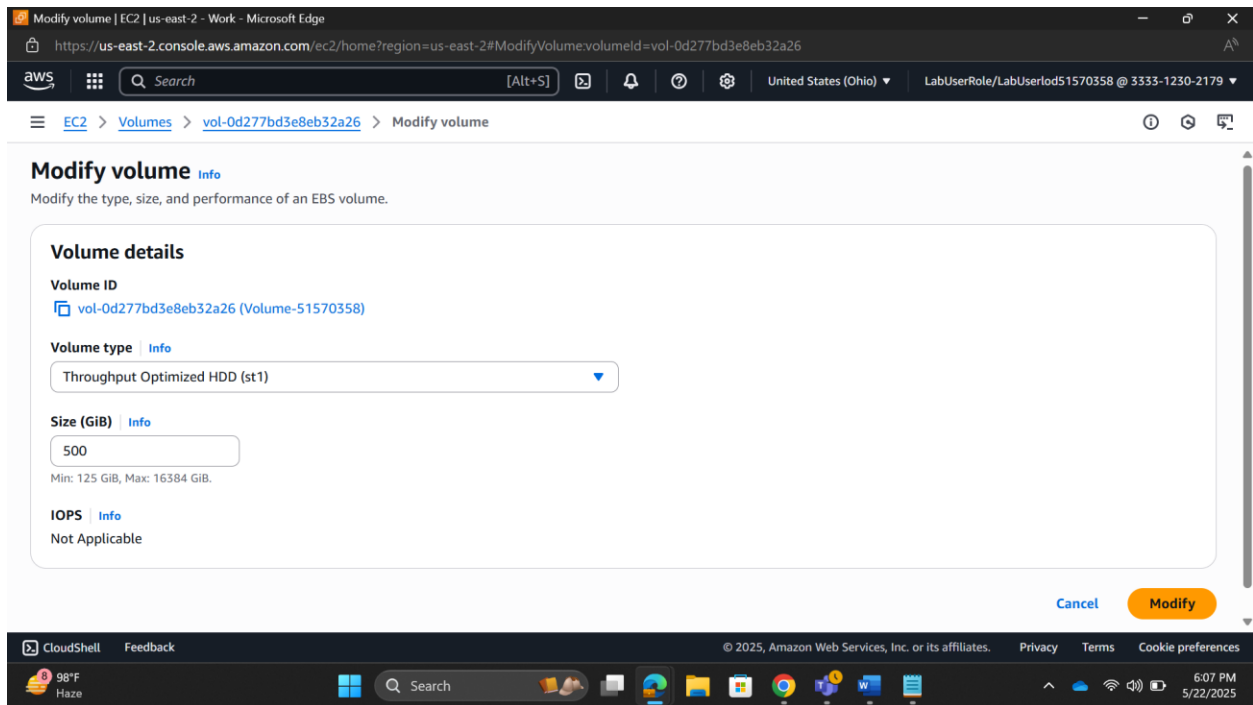
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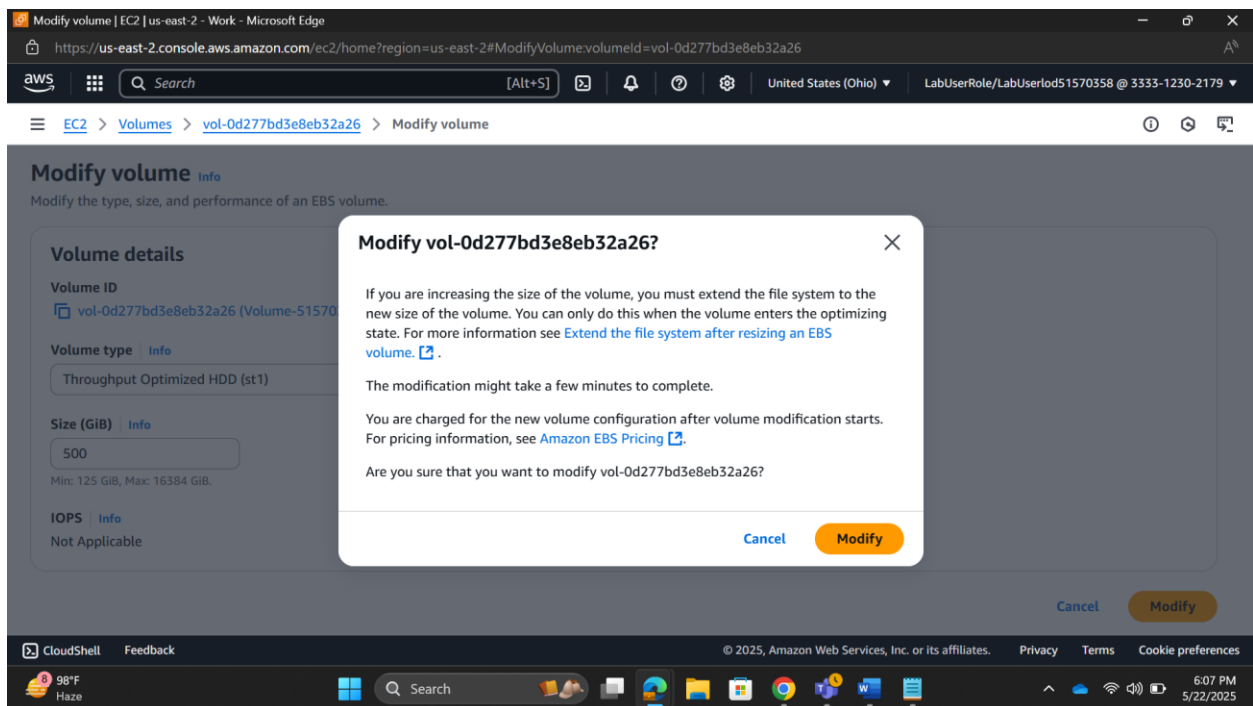
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Click modify -> modify



Task 3: Attach the EBS volume to an EC2 instance

Check box the created volume -> actions -> attach volume

The screenshot shows the AWS Management Console 'Volumes' page. A notification at the top states: 'Requested volume modification for volume vol-0d277bd3e8eb32a26. The volume is being modified.' Below this, a table lists volumes. The volume 'vol-0d277bd3e8eb32a26' (Volume-51570358) is selected. The 'Actions' dropdown menu is open, showing options: 'Modify volume', 'Create snapshot', 'Create snapshot lifecycle policy', 'Delete volume', 'Attach volume' (highlighted), 'Detach volume', 'Force detach volume', 'Manage auto-enabled I/O', 'Manage tags', and 'Fault injection'. The volume details for 'vol-0d277bd3e8eb32a26' are shown below the table, including its size (500 GiB), type (st1), and state (Available).

The screenshot shows the 'Attach volume' page for volume 'vol-0d277bd3e8eb32a26'. The page title is 'Attach volume'. Below the title, it says 'Attach a volume to an instance to use it as you would a regular physical hard disk drive.' The 'Basic details' section shows the volume ID, availability zone (us-east-2a), and instance (i-0e0ee287720427ebb). The 'Device name' is set to '/dev/sdf'. A note at the bottom states: 'Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the'.

Click attach volume and wait till the volume state shows **in-use**

Volumes | EC2 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Volumes:

Successfully attached volume vol-0d277bd3e8eb32a26 to instance i-0e0ee287720427ebb.

Volumes (2) Info

Last updated less than a minute ago

Actions Create volume

Snapshot ID Created Availability Zone Volume state Alarm status Attached resources

ip-0e43f2c...	2025/05/22 17:59 GMT+5:...	us-east-2a	In-use		i-0e0ee287720427ebt
	2025/05/22 18:05 GMT+5:...	us-east-2a	In-use		i-0e0ee287720427ebt

Fault tolerance for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes

0 / 1

Last updated on Thu, May 22, 2025, 06:02:30 PM (GMT+05:30)

Data Lifecycle Manager default policy for EBS Snapshots status

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labclient.labondemand.com/Instructions/ExamResult/e2ceb3ef-93a4-411d-b7f3-dc2020461335 - Work - Microsoft Edge

https://labclient.labondemand.com/Instructions/ExamResult/e2ceb3ef-93a4-411d-b7f3-dc2020461335

Well deserved! Print

Congratulations on your success!

100%

Areas where you excelled

- Create an EBS volume
You showed your skills in this area and finished with success.
- Modify an EBS volume
You were really strong in this area.
- Attach the EBS volume to an EC2 instance
You showed your skills in this area and finished with success.

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You are done with the lab!!!!