

## AWS Task-4

### Task Description:

Launch an EC2 instance (Linux and Windows) along with a web server. Then, create an EBS volume of 5 GB, attach it to an EC2 machine (Linux and Windows), and take a snapshot. Finally, create an EBS volume using the taken snapshot.

### Techstacks needs to be used :

- AWS EBS
- AWS EC2

Windows / Linux machine created.

Instances (2) [Info](#)

Last updated less than a minute ago

Refresh

Connect

Instance state

Find Instance by attribute or tag (case-sensitive)

Running

<input type="checkbox"/>	Name <a href="#">🔗</a>	Instance ID	Instance state <a href="#">▼</a>	Instance type <a href="#">▼</a>	Status check	Alarm status	Availability Zone <a href="#">▼</a>
<input type="checkbox"/>	Windows-PC	i-08def7c667a5c4a5c	<div><div>Running</div><div><a href="#">🔗</a></div></div>	t3.micro	<div><div>3/3 checks passed</div><div><a href="#">🔗</a></div></div>	<a href="#">View alarms +</a>	us-east-2c
<input type="checkbox"/>	Linux-PCs	i-04b45055ab757f372	<div><div>Running</div><div><a href="#">🔗</a></div></div>	t2.micro	<div><div>Initializing</div><div><a href="#">🔗</a></div></div>	<a href="#">View alarms +</a>	us-east-2c

Security group has access to webserver port 80/443 as well.

Inbound rules (3)

Q Search

Manage tags

<input type="checkbox"/>	Name ▾	Security group rule ID ▾	IP version ▾	Type ▾	Protocol ▾	Port range ▾	Source
<input type="checkbox"/>	-	sgr-074b3b8e7b15dea7d	IPv4	HTTP	TCP	80	0.0.0.0/0
<input type="checkbox"/>	-	sgr-03233a6dd5cad594c	IPv4	SSH	TCP	22	0.0.0.0/0
<input type="checkbox"/>	-	sgr-09a10034e29e970a6	IPv4	HTTPS	TCP	443	0.0.0.0/0

Create EBS volume 5 GB

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

Volume settings

Volume type [Info](#)

General Purpose SSD (gp3) ▼

Size (GiB) [Info](#)

5

Min: 1 GiB, Max: 16384 GiB.

IOPS [Info](#)

3000

Min: 3000 IOPS, Max: 16000 IOPS.

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

125

Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.

Availability Zone [Info](#)

us-east-2c ▼

Snapshot ID - optional [Info](#)

Don't create volume from a snapshot ▼



Encryption [Info](#)

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


☐ Encrypt this volume

	vol-0b5a8c49c1436c79d	gp3	5 GiB	3000	125		2024/12/24 07:50 GMT+3	us-east-2c	Available	No alarms	
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Attach EBS volume to Windows PC first and take snapshot

vol-0b5a8c49c1436c79d

Volume ID

 vol-0b5a8c49c1436c79d

AWS Compute Optimizer finding

 Opt-in to AWS Compute Optimizer for recommendation s. | [Learn more](#) 

Fast snapshot restored

No

Attached resources

i-08def7c667a5c4a5c (Windows-PC): xvdb (attached)

▼ Source

S

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C

-


nes > [vol-0b5a8c49c1436c79d](#) > Create snapshot

## Create snapshot [Info](#)

Create a point-in-time snapshot to back up the data on an Amazon EBS volume to Amazon S3.

Source volume

Volume ID

 vol-0b5a8c49c1436c79d

Avai  
US-e

Snapshot details

Description

Add a description for your snapshot

windows-pc-snapshot


255 characters maximum.



Encryption [Info](#)



Not encrypted

Snapshots (1) [Info](#)

Owned by me ▼

 Search

  Recycle Bin [Actions](#) ▼

<input type="checkbox"/>	Name ▼	Snapshot ID ▼	Volume size ▼	Description ▼	Storage tier ▼	Snapshot status ▼	Started ▼	Progress ▼	Encryption ▼
<input type="checkbox"/>	-	snap-02f33d669c87559d8	5 GiB	windows-pc-snapshot	Standard	 Pending	2024/12/24 07:53 GMT+3	 99%	Not encrypted

Now detatch volume from Windows and attach to Linux-PC


> [vol-0b5a8c49c1436c79d](#) > Attach volume

## Attach volume [Info](#)

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

### Basic details

**Volume ID**

 [vol-0b5a8c49c1436c79d](#)

**Availability Zone**

us-east-2c

**Instance** | [Info](#)

i-04b45055ab757f372  
(Linux-PCs) (running)



Only instances in the same Availability Zone as the selected volume are displayed.

**Device name** | [Info](#)

/dev/sdf


Recommended device names for Linux: /dev/xvda for root volume. /dev/sd[f-p] for data volumes.





Newer Linux kernels may rename your devices to **/dev/xvdf** through **/dev/xvdp** internally, even when the device details is **/dev/sdf** through **/dev/sdp**.

### vol-0b5a8c49c1436c79d

**Volume ID**

 [vol-0b5a8c49c1436c79d](#)

**AWS Compute Optimizer finding**

 Opt-in to AWS Compute Optimizer for recommendation s. | [Learn more](#) 

**Fast snapshot restored**

No

**Size**

 5 GiB

**Volume state**

 In-use

**Availability Zone**

us-east-2c

**Outposts ARN**

-

**Attached resources**

i-04b45055ab757f372 (Linux-PCs): /dev/sdf (attached)

▼ **Source**

Snapshot created Linux / Windows

Snapshots (2) Info

Owned by me Search

<input type="checkbox"/>	Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status	Started	Progress
<input type="checkbox"/>	-	snap-02f33d669c87559d8	5 GiB	windows-pc-snapshot	Standard	Completed	2024/12/24 07:53 GMT+3	100%
<input type="checkbox"/>	-	snap-01200058d793d9989	5 GiB	Linux-pc-snapshot	Standard	Completed	2024/12/24 07:57 GMT+3	100%

Creating EBS volume from snapshot

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 (gp3)

Size (GiB) Info

5

Min: 1 GiB, Max: 16384 GiB.

IOPS Info

3000

Min: 3000 IOPS, Max: 16000 IOPS.

Throughput (MiB/s) Info

125

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Availability Zone Info

us-east-2c

Snapshot ID - optional Info

Window Snapshot

snap-02f33d669c87559d8

# 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 (gp3) ▼

Size (GiB) [Info](#)

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Min: 1 GiB, Max: 16384 GiB.

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

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Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.

Availability Zone [Info](#)

us-east-2c ▼

Snapshot ID - optional [Info](#)

Linux Snapshot

▼

↺

Fast snapshot restore [Info](#)

## Volume from Windows / Linux Snapshot

<a href="#">vol-0eb7e2fb5f6497ba2</a>	gp3	5 GiB	3000	125	Linux	<a href="#">snap-01200058d793d9989</a>	2024/12/24 08:08 GMT+3	us-east-2c	<a href="#">Available</a>
<a href="#">vol-09240235dfb0568b3</a>	gp3	5 GiB	3000	125	Windows	<a href="#">snap-02f33d669c87559d8</a>	2024/12/24 08:05 GMT+3	us-east-2c	<a href="#">Available</a>