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Creating and attaching the EBS to EC2 Instance

Aim: To create and attach EBS TO EC2 Instance

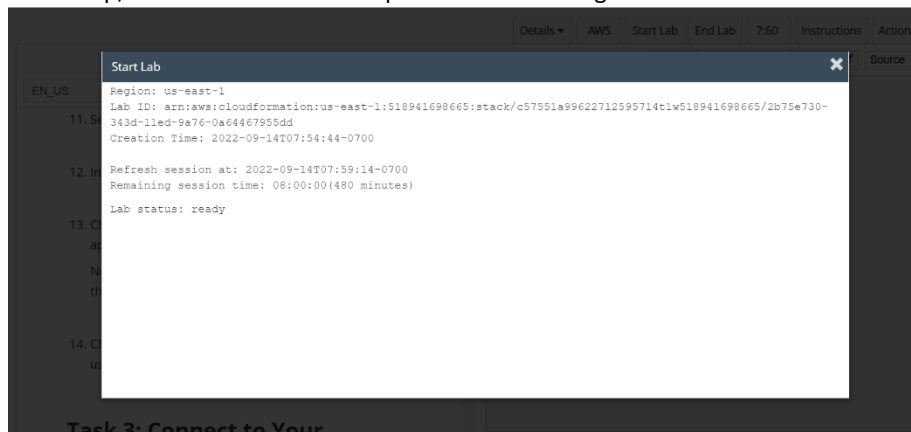
Learning Outcome:

Creating and attaching Amazon EBS To Amazon EC2 instance with necessary configurations

Procedure:

Accessing the AWS Management Console

- At the top, select the Start lab. A start panel is opened displaying the lab status.
- Wait until the lab status is ready. Once it is ready, close the panel.
- At the top, select the AWS. It will open the AWS Management Console in a new browser tab



TASK 1 Creating a EBS Volume

1. In the AWS Management Console, go to Service -> Click EC2.
2. In the left navigation pane, select Instances.
3. An Amazon EC2 instance named Lab has already been launched.
4. Note the Availability Zone is us-east-1a.
5. In the left navigation pane, select Volumes.

You will see an existing volume of size 8GB used by EC2 instance.

6. Choose Volumes-> Configure
7. Volume Type: General Purpose SSD (gp2)
8. Size: 1GB. You may be restricted from creating large volume sizes.
9. Availability Zone: Select the same as the EC2 Instance (us-east-1a).
10. Choose Tag

In the Tag Editor

Key: Name

Value: My Volume

11. Choose Create volume.
12. You will see your new volume appear in the list and change from Creating to Available. If it is not visible, choose refresh to see it.

The screenshot displays the AWS Management Console interface. The top navigation bar includes the AWS logo, a search bar, and the user's account information (N. Virginia, voclabs/user2111626=Rohit @ 5189-4169-8665). The left sidebar shows the 'Services' menu with categories like Analytics, Application Integration, AR & VR, AWS Cost Management, Blockchain, Business Applications, Compute, Containers, Customer Enablement, Database, Developer Tools, End User Computing, and Front-end Web & Mobile. The main content area is divided into two sections. The top section, titled 'Instances (2) Info', shows a table of EC2 instances. The bottom section, titled 'Volumes (2)', shows a table of EBS volumes. Both sections include a 'Create volume' button and a 'Select a volume above' prompt.

Instances (2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
Lab	i-01ea9aa77a1611d6d	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-34-238-41
Bastion Host	i-01f6e452e3567c3a6	Running	t2.micro	Initializing	No alarms	us-east-1a	ec2-44-201-22

Volumes (2)

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Avai
-	vol-03ffa1e464aa41805	gp2	8 GiB	100	-	snap-07ff921e...	2022/09/14 20:25 GMT+5...	us-e
-	vol-0e557dc9f87d78cfd	gp2	8 GiB	100	-	snap-07ff921e...	2022/09/14 20:27 GMT+5...	us-e

aws

Services

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N. Virginia

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EC2 > Volumes > Create volume

Create volume

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

Volume settings

Volume type

General Purpose SSD (gp2)

Size (GiB)

1

Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS

100 / 3000

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

Throughput (MiB/s)

Not applicable

Availability Zone

us-east-1a

Snapshot ID - optional

Don't create volume from a snapshot

Encryption

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

☐ Encrypt this volume

Tags - optional

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

Q My Volume

Remove

Add tag

You can add 49 more tags.

Cancel

Create volume

Feedback

Looking for language selection? Find it in the new Unified Settings

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New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Successfully created volume vol-0f8f43fd73337cb5.

Volumes (1/3)

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Avail
<input type="checkbox"/>	-	vol-03ffa1e464aa41805	gp2	8 GiB	100	-	snap-07ff921e...	2022/09/14 20:25 GMT+5:...	us-e...
<input type="checkbox"/>	-	vol-0e557dc9f87d78cfd	gp2	8 GiB	100	-	snap-07ff921e...	2022/09/14 20:27 GMT+5:...	us-e...
<input checked="" type="checkbox"/>	My Volume	vol-0f8f43fd73337cb5	gp2	1 GiB	100	-	-	2022/09/14 20:31 GMT+5:...	us-e...

CSE330-Cloud Computing

Lab 4 - Working with EBS

Volumes | EC2 Management

Student Guide

Telegram Web

Meet - izz-gwds-yd

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes:sort=createTime

Google Classroom

Google Meet

Gmail

Telegram Web

YouTube

Home - Tmoviefree...

New EC2 Experience

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Instances

Successfully created volume vol-0f8f43fd73337cb5.

Volumes (1/3)

Search

	Created	Availability Zone	Volume state	Alarm status	Attached Instances	Volume sta...	Encryption
...	2022/09/14 20:25 GMT+5:...	us-east-1a	In-use	No alarms	+ i-01ea9aa77a1611d6d (La...	Okay	Not encrypted
...	2022/09/14 20:27 GMT+5:...	us-east-1a	In-use	No alarms	+ i-01f6e452e3567c3a6 (Bas...	Okay	Not encrypted
...	2022/09/14 20:31 GMT+5:...	us-east-1a	Creating	No alarms	+ -	Okay	Not encrypted

New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

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Instances

Successfully created volume vol-0f8f43fd73337cb5.

Volumes (3)

Search

	Created	Availability Zone	Volume state	Alarm status	Attached Instances	Volume sta...	Encryption
...	2022/09/14 20:25 GMT+5:...	us-east-1a	In-use	No alarms	+ i-01ea9aa77a1611d6d (La...	Okay	Not encrypted
...	2022/09/14 20:27 GMT+5:...	us-east-1a	In-use	No alarms	+ i-01f6e452e3567c3a6 (Bas...	Okay	Not encrypted
...	2022/09/14 20:31 GMT+5:...	us-east-1a	Available	No alarms	+ -	Okay	Not encrypted

TASK 2 Attaching a EBS Volume to EC2 instance

13. Select My Volume
14. In the Action menu, select Attach Volume.
15. Choose Instance field, select the Instance that appears as Lab.
16. Note the device is dev/sdf/
17. Choose Attach Volume. Volume state is now In-Use.

The screenshot displays the AWS Management Console interface for attaching an EBS volume to an EC2 instance. The top navigation bar shows the AWS logo, 'Services', a search bar, and the current region 'N. Virginia' with the user 'voclabs/user2111626=Rohit @ 5189-4169-8665'.

The left sidebar contains the 'New EC2 Experience' section with links to 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', 'Instances', 'Instance Types', and 'Launch Templates'. The 'Instances' section is expanded, showing 'Instances New', 'Instance Types', and 'Launch Templates'.

The main content area shows the 'Volumes (1/3)' list. The table has columns: Name, Volume ID, Type, Size, IOPS, and Throughput. The volume 'My Volume' (vol-0f8f43fdf73337cb5) is selected. The 'Actions' menu is open, showing options: Modify volume, Create snapshot, Create snapshot lifecycle policy, Delete volume, Attach volume, Detach volume, Force detach volume, Manage auto-enabled I/O, and Manage tags. The 'Attach volume' option is highlighted.

The 'Attach volume' wizard is displayed, showing the 'Basic details' section. The 'Volume ID' is 'vol-0f8f43fdf73337cb5 (My Volume)'. The 'Availability Zone' is 'us-east-1a'. The 'Instance' field is set to 'i-01ea9aa77a1611d6d' (Lab). A search bar is visible, and a list of instances is shown below it. A note states: 'Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.'

The bottom of the wizard shows 'Cancel' and 'Attach volume' buttons.