

Task 02

step 1= Craete EC2

The screenshot displays the AWS Management Console interface for EC2 instances. A green notification banner at the top indicates that instance `i-09bc017f7edb09f12` has been successfully stopped. Below this, a table lists the instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
vaishnav_linux	i-021167e2e2b087f08	Stopped	t2.micro	–	No alarms
KARAN	i-07a7aa018f05455ba	Stopped	t2.large	–	No alarms
Rahul_linux	i-0d2e7c4c7aa1af344	Stopped	t2.micro	–	No alarms
074_Rahu_EC2win	i-06602f632e9b7f8d	Running	t2.micro	–	No alarms
demo	i-08204e8286de8a65d	Stopped	t2.medium	–	No alarms
siddhiwin	i-0c8ff21431c930e34	Stopped	t2.large	–	No alarms
Siddhi_Linux	i-09bc017f7edb09f12	Stopped	t2.medium	–	No alarms

The left sidebar shows navigation options: EC2 Dashboard, EC2 Global View, Events, Limits, and Instances. The 'Instances' section is expanded, showing 'Instances New', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances New', 'Dedicated Hosts', and 'Scheduled Instances'. The bottom of the screen shows a Windows taskbar with the date 22-08-2022 and time 10:47 AM.

step 2= Create Volume of 14 GB

Successfully created volume vol-0b724a46863f12b44.

Volumes (1/12)

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
-	vol-0bd1ba8e3dd96fe61	gp2	12 GiB	100	-	-
-	vol-006ed7c01dc493726	gp2	17 GiB	100	-	-
-	vol-0192ccd1e9bf95979	gp2	50 GiB	150	-	snap-093a80c...
-	vol-0148a6be06d588588	gp2	8 GiB	100	-	snap-093a80c...
-	vol-0129ca519e5d2b4af	gp2	16 GiB	100	-	-
-	vol-0bbad9ea9e2af3fd7	gp2	30 GiB	100	-	snap-093a80c...
-	vol-037105fc43912bf60	gp2	30 GiB	100	-	snap-0866053...
-	vol-0b724a46863f12b44	gp2	14 GiB	100	-	-

Volume ID: vol-0b724a46863f12b44

Activate Windows
Go to Settings to activate Windows.

step 3= Volume attached to ec2

Attach volume | EC2 Management Console

Volume ID: vol-0b724a46863f12b44

Availability Zone: us-east-1a

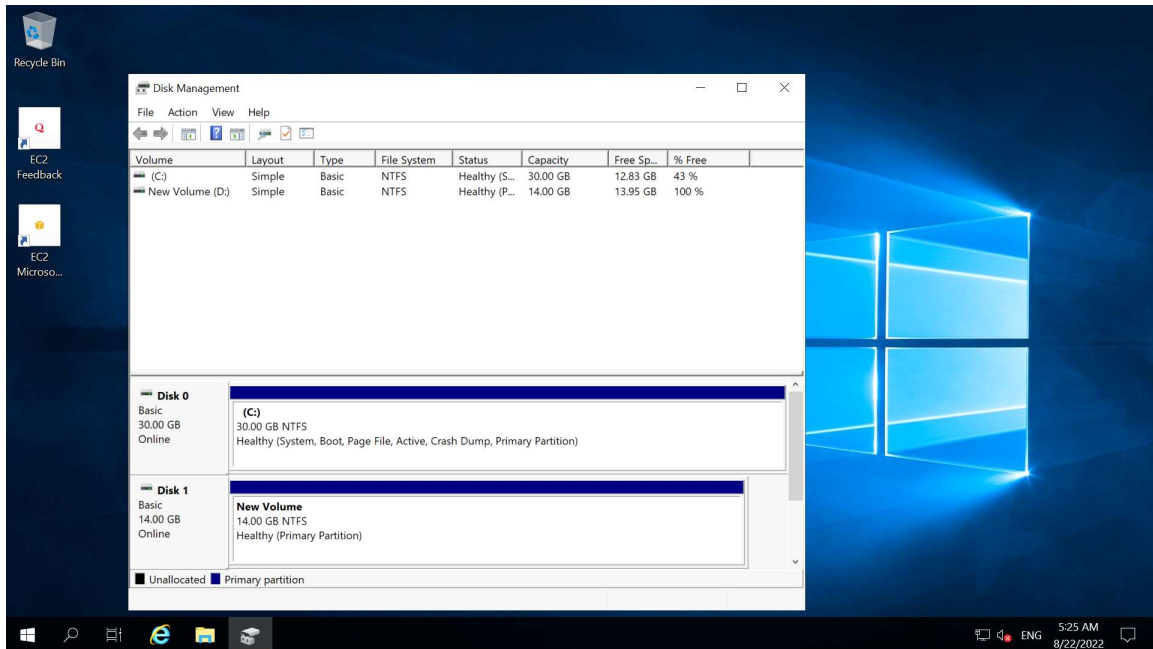
Instance: i-06602f7632e9b7f8d

Device name: xvdf

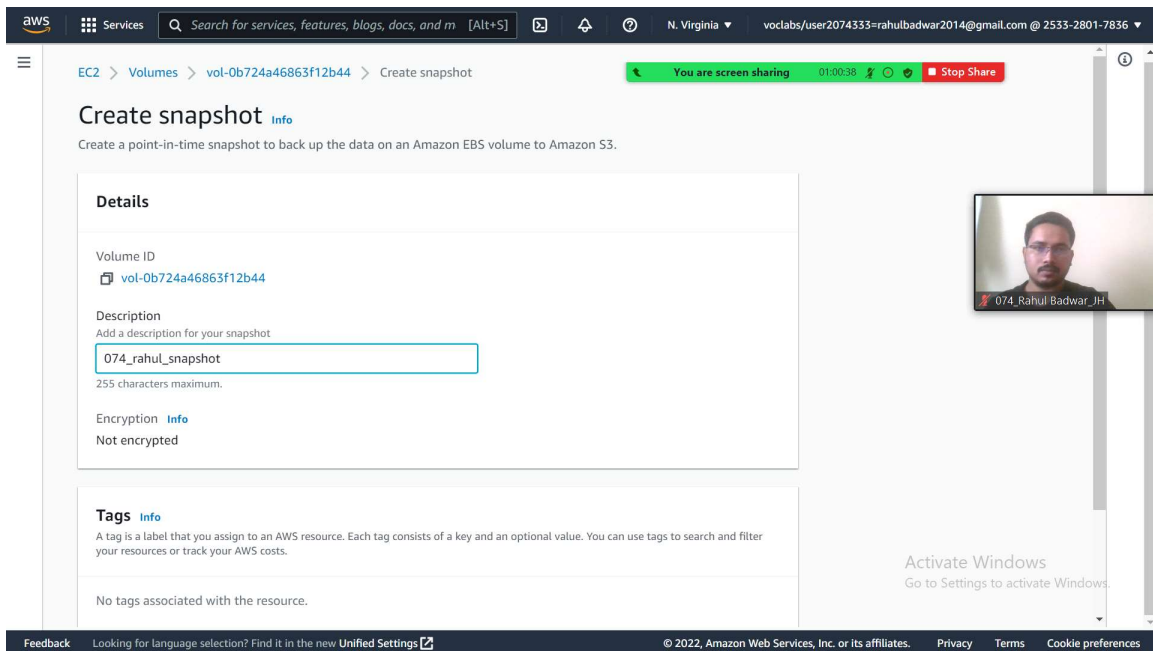
Recommended device names for Windows: /dev/sda1 for root volume, xvdf[p] for data volumes.

Attach volume

Activate Windows
Go to Settings to activate Windows.



step 4=create snapshot of volume



step 5 = Cteate a new volume using snapshot

Volume type Info
General Purpose SSD (gp2)

Size (GiB) Info
11
Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

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-1a

Snapshot ID - optional Info
snap-00aa26649bc75682c

Fast snapshot restore Info
☐ Not enabled for selected snapshot

Encryption Info
Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.
☐ Encrypt this volume

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Successfully created snapshot snap-00aa26649bc75682c from volume vol-0b724a46863f12b44.
If you need your snapshot to be immediately available consider using Fast Snapshot Restore.

Volumes (14)

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
-	vol-09acb53fd8d466d3b	gp2	40 GiB	120	-	snap-093a80c...
-	vol-0aa99ca2d278ca08b	gp2	50 GiB	150	-	snap-093a80c...
-	vol-059c47b3a04b8c06c	gp2	30 GiB	100	-	snap-0866053...
-	vol-020409a6b2504eb9a	gp2	38 GiB	114	-	-
-	vol-0bd1ba8e3dd96fe61	gp2	12 GiB	100	-	-
-	vol-006ed7c01dc493726	gp2	17 GiB	100	-	-
-	vol-0192ccd1e9bf95979	gp2	50 GiB	150	-	snap-093a80c...

Select a volume above

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step 6=mount volume on ec2

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

Basic details

Volume ID
vol-09935691cae66e53f

Availability Zone
us-east-1a

Instance [Info](#)
i-06602f7632e9b7f8d

Device name [Info](#)
xvdg

Recommended device names for Windows: /dev/sda1 for root volume. xvd[f-p] for data volumes.

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Type here to search

27°C

11:07 AM
22-08-2022

Recycle Bin

EC2 Feedback

EC2 Micro...

Disk Management

Volume	Layout	Type	File System	Status	Capacity	Free Sp...	% Free
(C)	Simple	Basic	NTFS	Healthy (S...	30.00 GB	12.91 GB	43 %
New Volume (D)	Simple	Basic	NTFS	Healthy (P...	14.00 GB	13.95 GB	100 %
New Volume (E)	Simple	Basic	NTFS	Healthy (P...	14.00 GB	13.95 GB	100 %

Disk 1
Basic
14.00 GB
Online
New Volume (D)
14.00 GB NTFS
Healthy (Primary Partition)

Disk 2
Basic
14.00 GB
Online
New Volume (E)
14.00 GB NTFS
Healthy (Primary Partition)

Unallocated Primary partition

10 items

This PC

Quick access

- Desktop
- Documents
- Downloads
- Pictures
- Screenshots

This PC

- New Volume (D)
- New Volume (E)
- Network

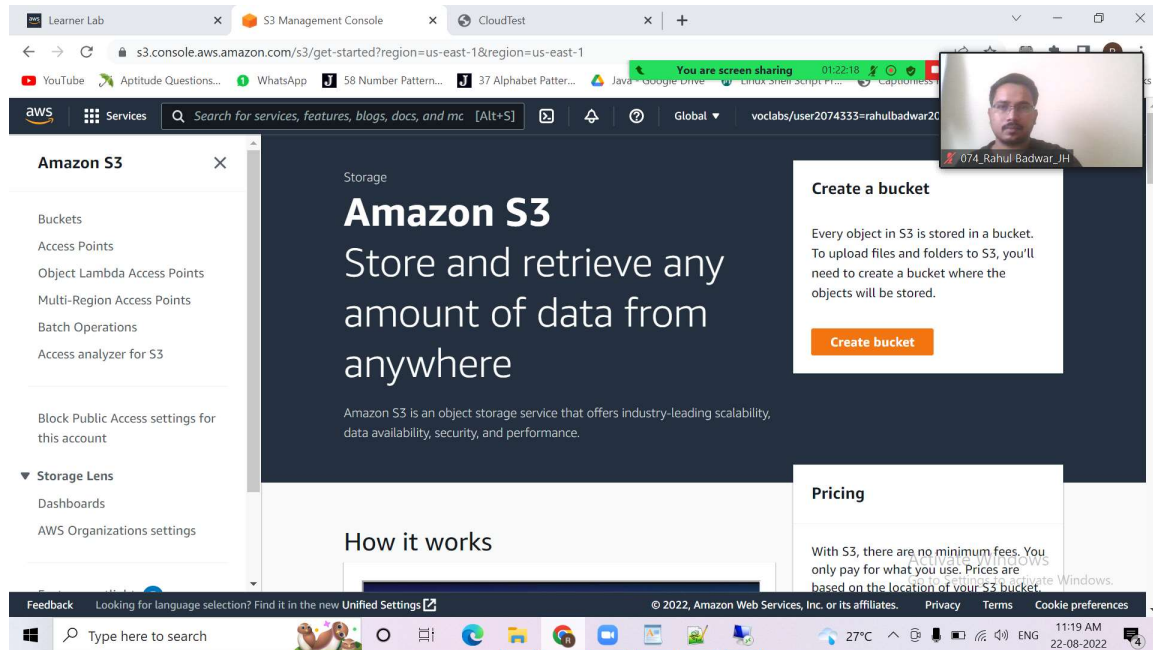
Devices and drives (3)

- Local Disk (C)
12.8 GB free of 29.9 GB
- New Volume (D)
13.9 GB free of 13.9 GB
- New Volume (E)
13.9 GB free of 13.9 GB

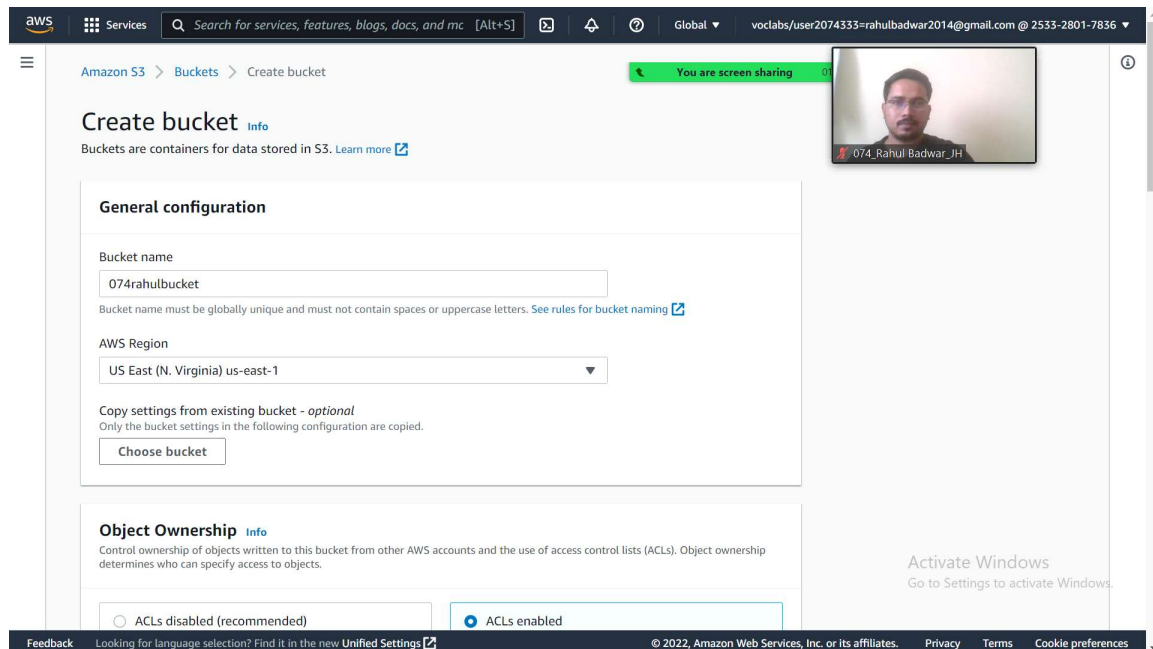
5:41 AM
8/22/2022

Task 03

step 1=Access Amazon S3 in the AWS Management Console



step 02=Create a bucket with Amazon S3



Successfully created bucket "074rahulbucket"

You are screen sharing

074_Rahul Badwar_JH

Amazon S3 > Buckets

Account snapshot
Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

[View Storage Lens dashboard](#)

Buckets (4) [Info](#)
Buckets are containers for data stored in S3. [Learn more](#)

[Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Name	AWS Region	Access	Creation date
<input checked="" type="radio"/> 074rahulbucket	US East (N. Virginia) us-east-1	Objects can be public	August 22, 2022, 11:21:28 (UTC+05:30)
<input type="radio"/> mybucket1111144444	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 19:57:31 (UTC+05:30)
<input type="radio"/> sid21	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 01:14:08 (UTC+05:30)
<input type="radio"/> siddhi87	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 13:41:48 (UTC+05:30)

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step 03=Load data into an S3 bucket

Files and folders (1 Total, 7.8 KB)

All files and folders in this table will be uploaded.

Name	Folder	Type	Size
<input type="checkbox"/> nile.csv	-	text/csv	7.8 KB

Destination

Destination
[s3://074rahulbucket](#)

Destination details
Bucket settings that impact new objects stored in the specified destination.

Permissions
Grant public access and access to other AWS accounts.

Properties
Specify storage class, encryption settings, tags, and more.

[Cancel](#) [Upload](#)

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aws Services Search for services, features, blogs, docs, and mc [Alt+S] Global voclabs/user2074333=rahulbadwar2014@gmail.com @ 2533-2801-7836

Upload succeeded
View details below.

Upload: status You are screen sharing 01:28:19 Stop Share Close

The information below will no longer be available after you navigate away from this page.

Summary

Destination s3://074rahulbucket	Succeeded 1 file, 7.8 KB (100.00%)	Failed 0 files, 0 B (0%)
------------------------------------	---------------------------------------	-----------------------------

Files and folders Configuration

Files and folders (1 Total, 7.8 KB)

Find by name

Name	Folder	Type	Size	Status
nile.csv		text/csv	7.8 KB	Succeeded

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step 04=Query an S3 bucket

aws Services Search for services, features, blogs, docs, and mc [Alt+S] Global voclabs/user2074333=rahulbadwar2014@gmail.com @ 2533-2801-7836

Amazon S3 > Buckets > 074rahulbucket > nile.csv > Query with S3 Select

Query with S3 Select Info

Use Amazon S3 Select to retrieve a subset of data from an object using standard SQL queries. Pricing is based on the size of the input, query results, and [Learn more](#) or see [Amazon S3 pricing](#)

Input settings

Path
s3://074rahulbucket/nile.csv

Size
7.8 KB (7996.0 B)

Format
☒ CSV
☐ JSON
☐ Apache Parquet

CSV delimiter
☒ Comma
☐ Tab
☐ Custom

☐ Exclude the first line of CSV data
Enable this setting if CSV contains a header row.

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Bytes returned: 7994 B

Raw Formatted

You are screen sharing 01:30:51 Stop Share

Year	"Flood"
1	9.9974
2	10.5556
3	9.9014
4	11.4800
5	12.8460
6	11.1330
7	10.1126
8	10.3060
9	10.4980
10	10.3060

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step 05=Describe the role of the Amazon S3 service in big data solutions

As amazon s3 provides the facility to store the data in aws cloud server. Also s3 buckets are immutable in nature. so we can store a data.

s3 provides SQL standard operation which can help us to querying large data without any servers.

step06=Explain how AWS Identity and Access Management (IAM) controls access to Amazon S3

when another user uploads data on s3 that account owns that data. he can grant access to his bucket through ecs. There are two ways to do this one is access key and another one is using iam role.

using one of the above we can access the s3 bucket.

