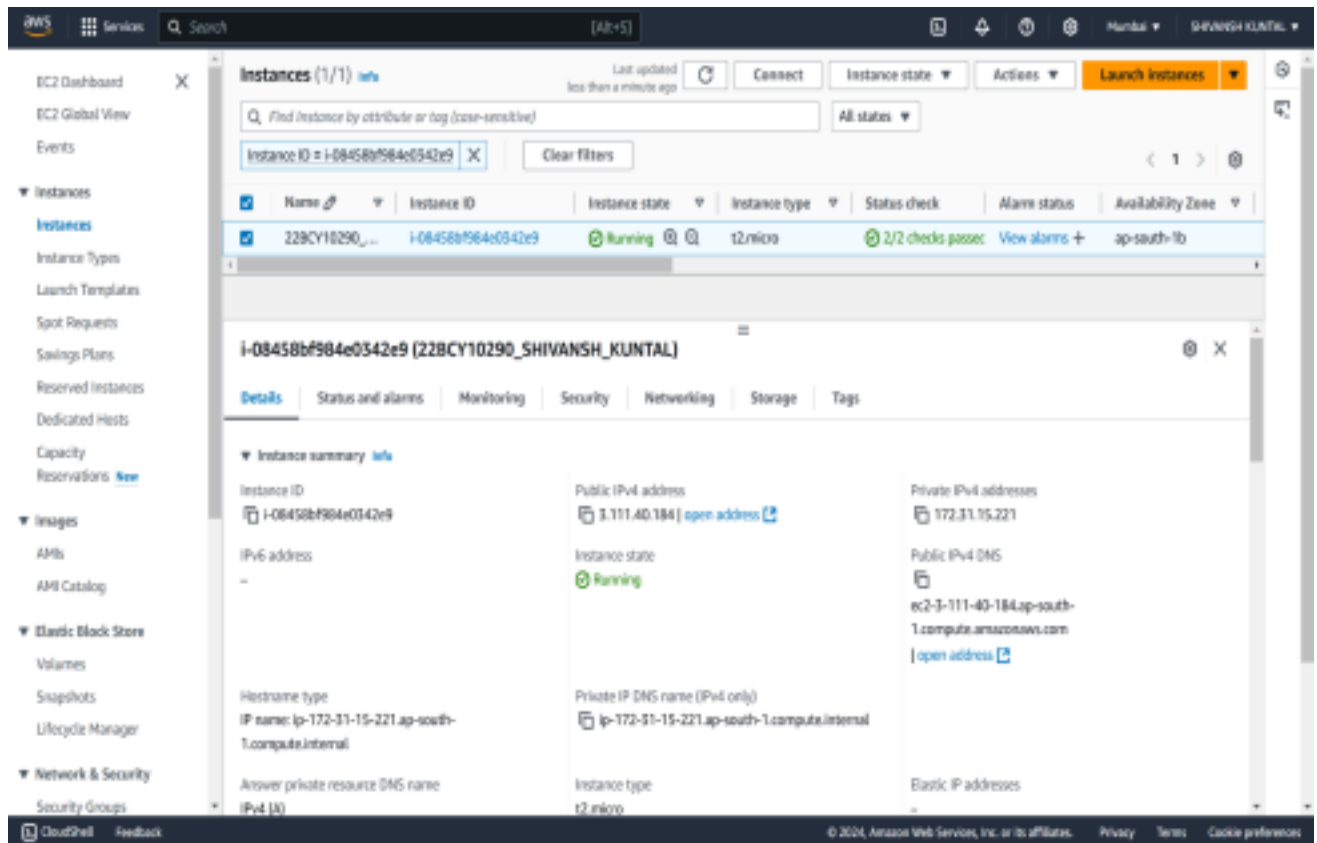
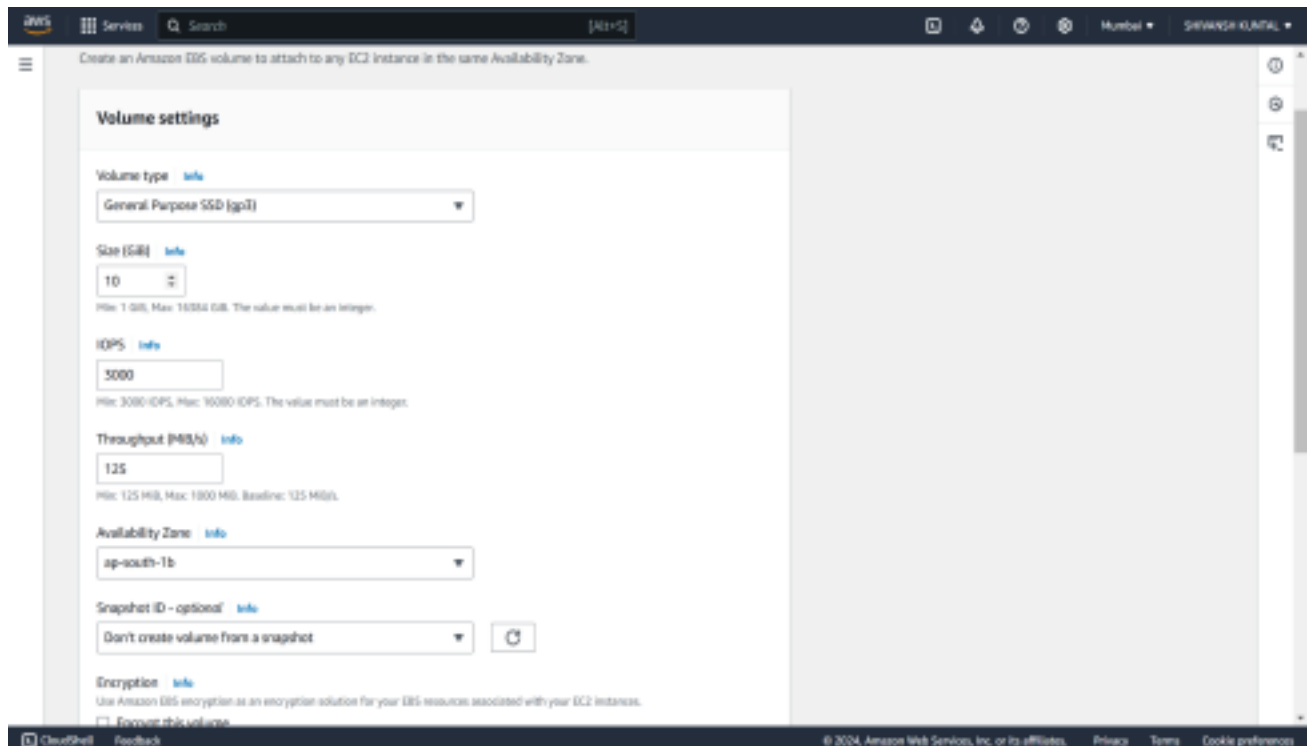


**Attaching a EBS volume to a  
volume to a running instance ,  
Snapshot , AMI and elastic IP  
And AMAZON S3 BUCKET**





**STEP 2: GOTO -> TOP RIGHT CORNER -> CREATE VOLUME**



**STEP 3: STATUS OF NEW VOLUME**

Successfully created volume [vol-08987266c40dcdec6](#)

Volumes (1/2) [info](#)

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone
<input checked="" type="checkbox"/>	-	vol-08987266c40dcdec6	gp3	10 GiB	3000	125	-	2024/10/25 20:02 GMT+5:...	ap-south-1b
<input type="checkbox"/>	-	vol-0c1732c56c919d78c	gp3	8 GiB	3000	125	snap-0875c14...	2024/10/25 19:53 GMT+5:...	ap-south-1b

Volume ID: [vol-08987266c40dcdec6](#)

Details | Status checks | Monitoring | Tags

Volume ID <a href="#">vol-08987266c40dcdec6</a>	Size 10 GiB	Type gp3	Volume status <span>✔ Okay</span>
AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations.   <a href="#">Learn more</a>	Volume state <span>✔ Available</span>	IOPS 3000	Throughput 125
Fast snapshot restored No	Availability Zone ap-south-1b	Created Fri Oct 25 2024 20:02:46 GMT+0530 (India Standard Time)	Multi-Attach enabled No
Attached resources	Outposts ARN		

CloudShell Feedback

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## STEP 4: ATTACH CUSTOM VOLUME TO EC2 -> ACTIONS-> 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-08987266c40dcdec6](#)

Availability Zone  
ap-south-1b

Instance [info](#)

[i-08450b984e0342e9](#)

[i-08450b984e0342e9](#)  
[330c713290, SH0000014\_KUBOTA] (running)

Recommended device names for Linux: `/dev/xvda` for root volume, `/dev/xvdf` for data volumes.

Power 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/xvdf` through `/dev/xvdp`.

Cancel [Attach volume](#)

CloudShell Feedback

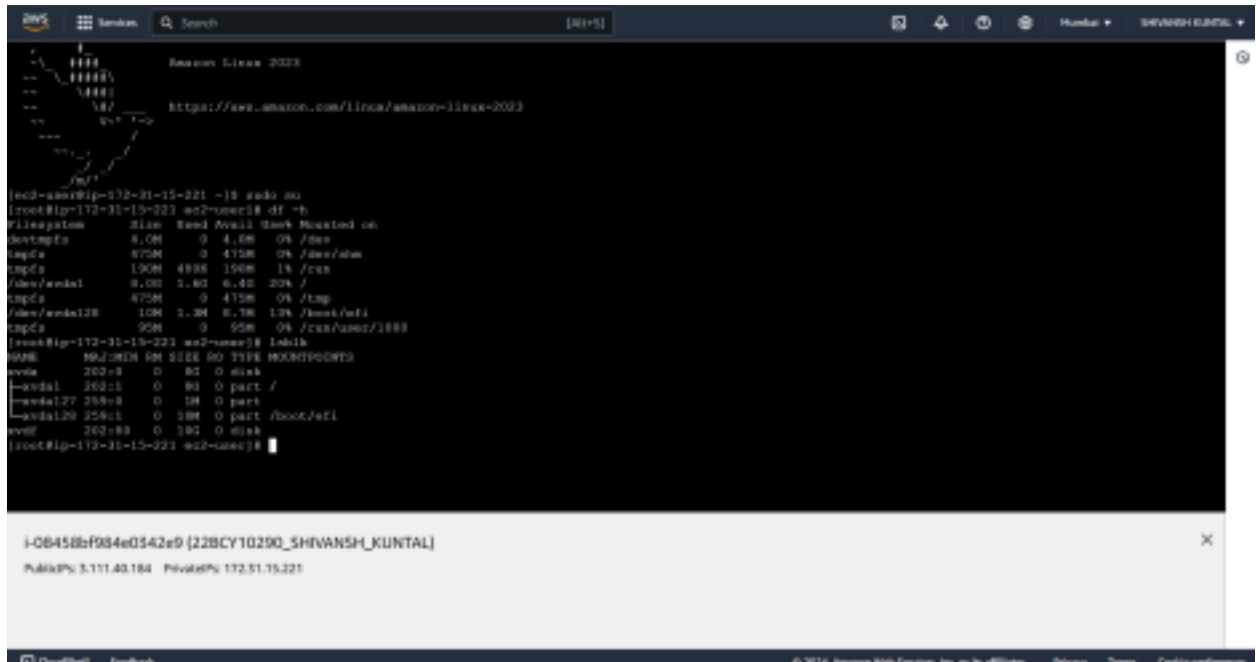
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## STEP 5: LOG IN TO EC2 AS ROOT AND CHECK VOLUME IS ATTACHED OR NOT :

Command used to login: `sudo su`

Command used to check volume is attached or not : `df -h`

Command used to show all the ebs : `lsblk`



The screenshot shows a terminal window with the following content:

```
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-2023

[ec2-user@ip-172-31-15-221 ~]$ sudo su
[root@ip-172-31-15-221 ec2-user]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M   0  4.0M   0% /dev
tmpfs           475M   0  475M   0% /dev/shm
tmpfs           190M  498K  190M   1% /run
/dev/xvda1      8.0G  1.4G  6.4G  20% /
tmpfs           475M   0  475M   0% /tmp
/dev/xvda128     10M  1.3M  8.7M  13% /boot/efi
tmpfs           95M   0   95M   0% /run/user/1000

[root@ip-172-31-15-221 ec2-user]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda        202:8    0    8G  0 disk 
└─xvda1     202:1    0    8G  0 part /
xvda127     209:8    0    1M  0 part 
xvda128     254:1    0    1M  0 part /boot/efi
xvdf        202:89   0   50G  0 disk
```

Below the terminal output, the CloudShell interface shows the instance ID `i-0b458bf984e0342e9 (22BCY10290_SHIVANSH_KUNTAL)` and its public/private IP addresses.

**STEP 6: To check whether file sys is available inside in ec2 or not :**

Command used to: `file -s/dev/xvdf`

Command used to Mount ebs and Create file system : `mkfs -t xfs /dev/xvdf`



## FROM ACTIONS : CREATE SNAPSHOT /CREATE VOLUME FROM SNAPSHOT

The screenshot shows the 'Create snapshot' page in the AWS Management Console. The page is titled 'Create snapshot' and includes a sub-header 'Create a point-in-time snapshot to back up the data on an Amazon EBS volume to Amazon S3.' The 'Source volume' section shows 'Volume ID' as 'vol-0c1732c56c918d78c' and 'Availability Zone' as 'ap-south-1a'. The 'Snapshot details' section has a 'Description' field with the value '228CY10290 SHIVANSH KUNTAL EBS'. The 'Encryption' section shows 'Not encrypted'. The 'Tags' section is empty.

**Create snapshot**

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

**Source volume**

Volume ID: vol-0c1732c56c918d78c  
Availability Zone: ap-south-1a

**Snapshot details**

Description: Add a description for your snapshot  
228CY10290 SHIVANSH KUNTAL EBS  
255 characters maximum.

Encryption: Not encrypted

**Tags**

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.

The screenshot shows the 'Snapshots' page in the AWS Management Console. The page title is 'Snapshots (1/1)'. A table lists the snapshots. Below the table, the details for the selected snapshot 'snap-0aad90bef149eebc' are shown, including its status 'Pending' and source volume 'vol-0c1732c56c918d78c'.

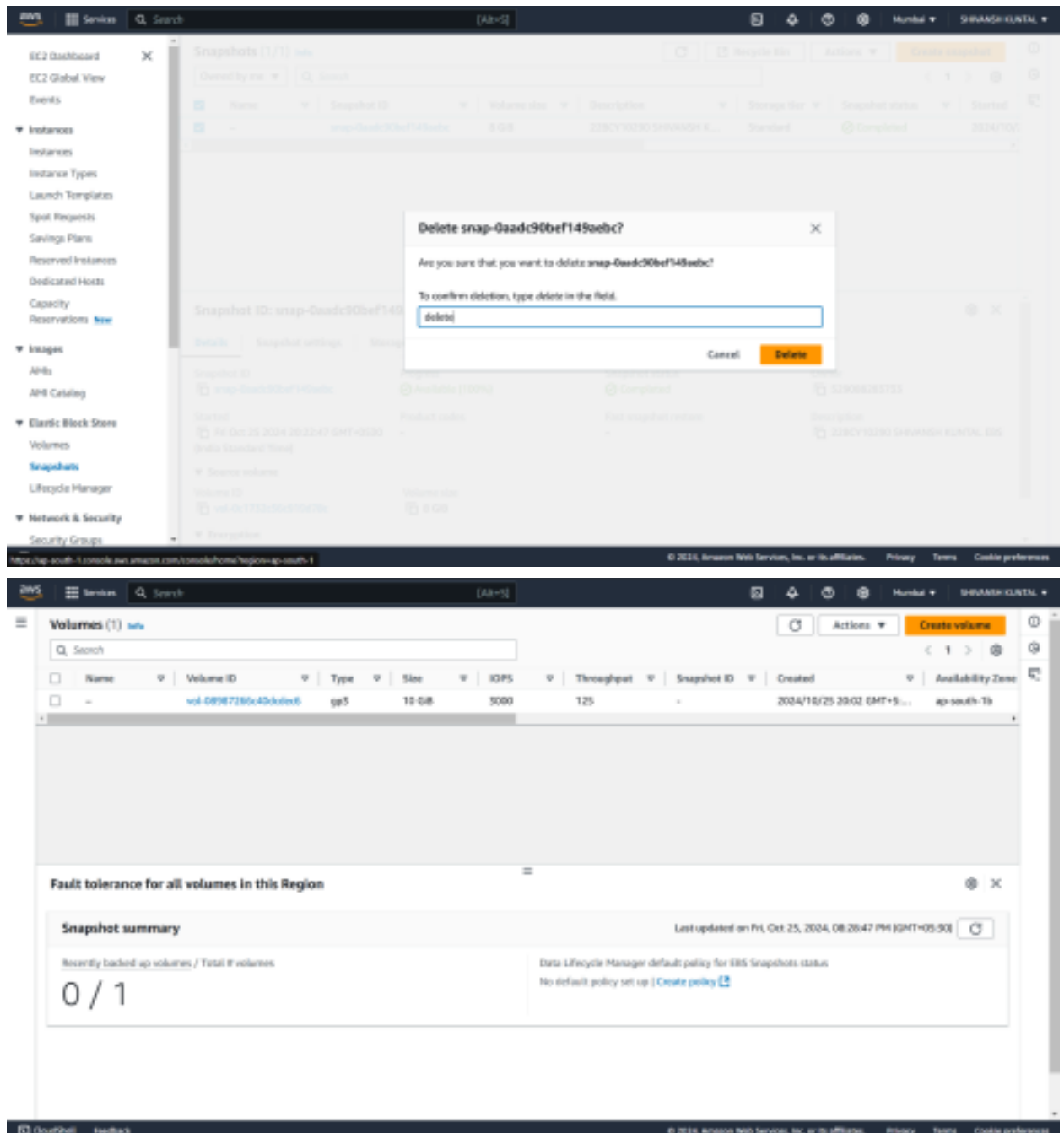
Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status	Started
-	snap-0aad90bef149eebc	8 GiB	228CY10290 SHIVANSH K...	Standard	Pending	2024/10/25

**Snapshot ID: snap-0aad90bef149eebc**

**Details**

Snapshot ID: snap-0aad90bef149eebc  
Progress: Unavailable  
Snapshot status: Pending  
Owner: 529088285735  
Started: Fri Oct 25 2024 20:22:47 GMT+0530 (India Standard Time)  
Product codes: -  
Fast snapshot restore: -  
Description: 228CY10290 SHIVANSH KUNTAL EBS  
Source volume: Volume ID: vol-0c1732c56c918d78c, Volume size: 8 GiB

## STEP 9: Delete Snapshot



## 2. Amazon S3

**OBJECTIVE:** Bucket creation, creating URL and S3 Lifecycle Management

**STEP 1: GOTO SERVICES TAB->STORAGE->CREATE BUCKET**



The screenshot shows the Amazon S3 console interface. At the top, there's a navigation bar with the AWS logo, 'Services' menu, a search bar, and user information. The main header area has the text 'Storage' and 'Amazon S3' in large font, followed by the tagline 'Store and retrieve any amount of data from anywhere'. Below this, a description states: 'Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.' On the right side, there's a 'Create a bucket' section with a brief explanation: 'Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.' A prominent orange 'Create bucket' button is located below this text. Further down, there's a 'Pricing' section explaining that there are no minimum fees and prices are based on usage and location, with links to a 'Single Monthly Calculator' and 'View pricing details'. At the bottom right, there's a 'Resources' section. The footer contains 'CloudShell', 'Feedback', copyright information, and links for 'Privacy', 'Terms', and 'Cookie preferences'.

Storage

# Amazon S3

Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

## Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

[Create bucket](#)

## Pricing

With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

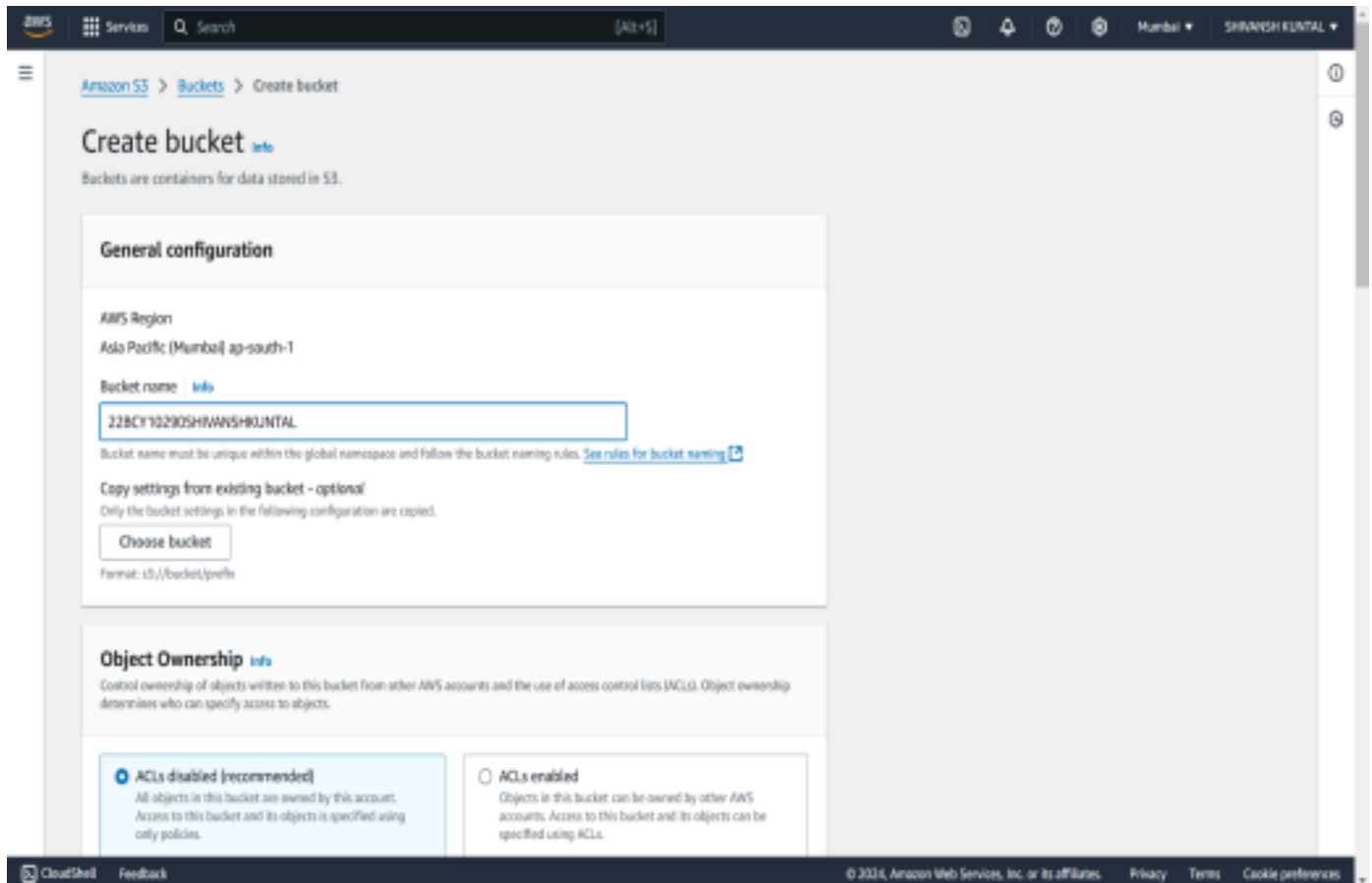
Estimate your monthly bill using the [AWS Single Monthly Calculator](#)

[View pricing details](#)

## Resources

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**STEP 2: CREATE BUCKET TAB -> ENTER NAME**



## STEP 3: DISABLE ACL AND PUBLIC ACCESS



#### **STEP 4: BUCKET VERSIONING AND DEFAULT ENCRYPTION**



**STEP 5: CREATED BUCKET SUCCESSFULLY**



**STEP 6: UPLOAD FILE IN BUCKET**  
**STEP 7: CONFIGURE STORAGE CLASS**  
**STEP 8: UPLOAD FILE**  
**STEP 9: DETAILS OF UPLOAD STATUS AND IMAGE**  
**IMAGE UPLOADED :- “sig.jpg”**



**STEP 10: ENABLE PUBLIC ACCESS TO VIEW WITH PUBLIC URL**

**STEP 11: CREATE BUCKET POLICY**

**STEP 12: ACCESSING IMAGE THROUGH PUBLIC URL**



**STEP 13: VERSION CONTROL**



**New “ sig.jpg” file with same name**



**STEP 14: LIFECYCLE MANAGEMENT**



## **STEP 15: DELETE FILES**





## **STEP 16: DELETE BUCKET**



