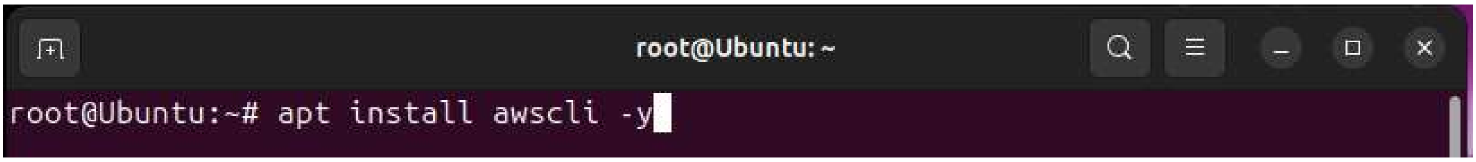
Step 1: Install AWS CLI

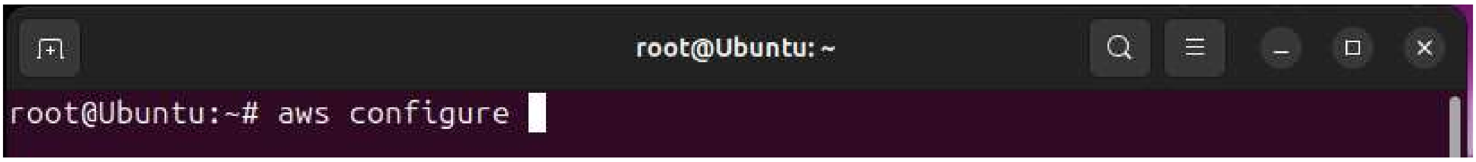
Command:



```
root@Ubuntu:~# apt install awscli -y
```

Step 2: Configure AWS CLI

Command:



```
root@Ubuntu:~# aws configure
```

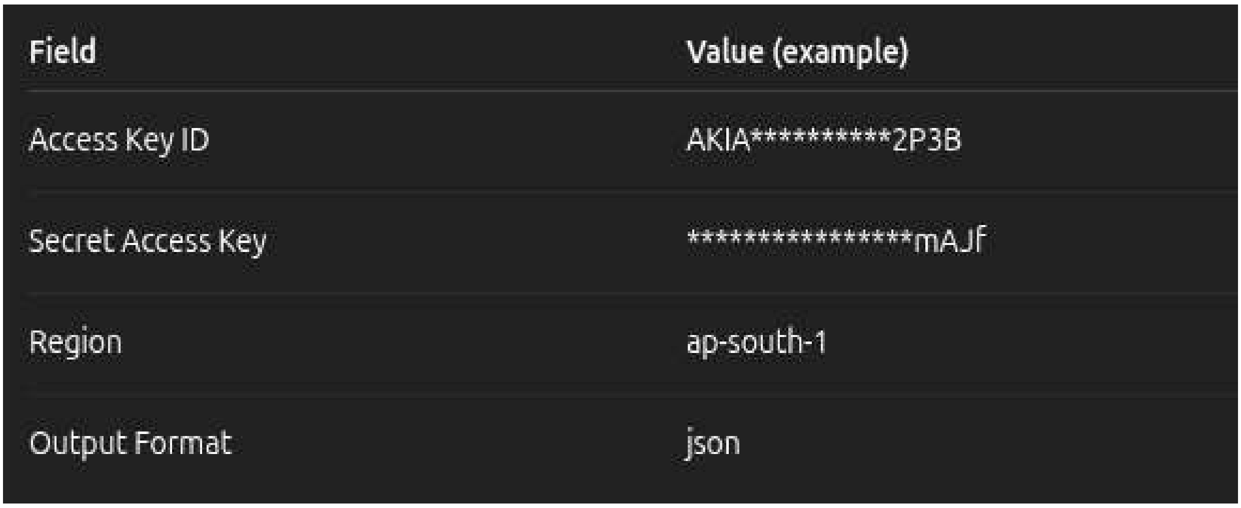
After using above command following credentials will be asked :

Access Key ID

Secret Access Key

Region

Output Format

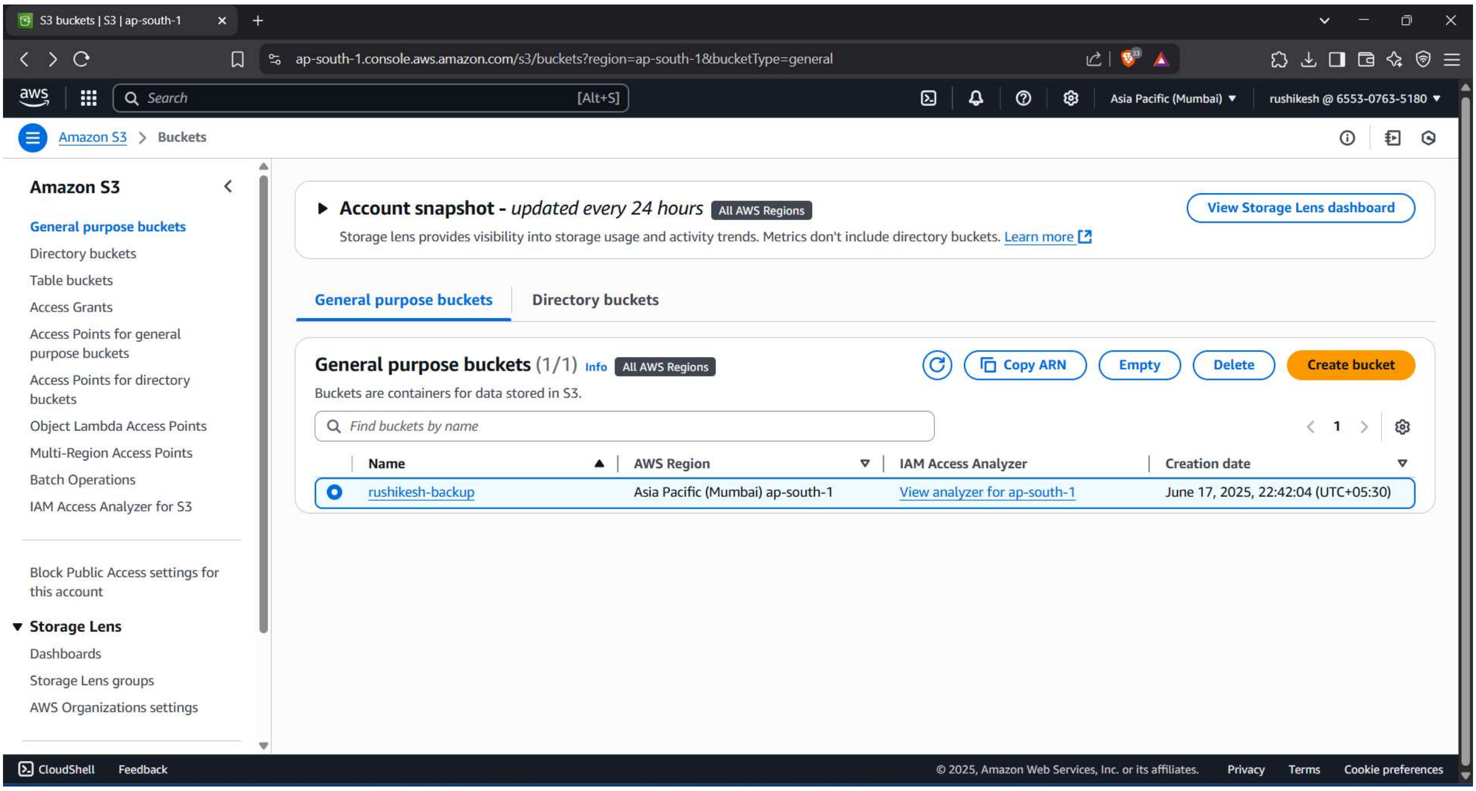


Field	Value (example)
Access Key ID	AKIA**********2P3B
Secret Access Key	****************mAJf
Region	ap-south-1
Output Format	json

b

Step 3: Create S3 Bucket via AWS Console

Navigate AWS Console → S3 → Create Bucket


S3 buckets | S3 | ap-south-1
ap-south-1.console.aws.amazon.com/s3/buckets?region=ap-south-1&bucketType=general
aws
Search
[Alt+S]
Asia Pacific (Mumbai) ▼
rushikesh @ 6553-0763-5180 ▼
Amazon S3 > Buckets
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Access Grants
Access Points for general purpose buckets
Access Points for directory buckets
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
▼ Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
View Storage Lens dashboard
General purpose buckets
Directory buckets
Copy ARN
Empty
Delete
Create bucket
Find buckets by name
CloudShell
Feedback
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Privacy
Terms
Cookie preferences

▶ **Account snapshot** - *updated every 24 hours* All AWS Regions

Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. Learn more

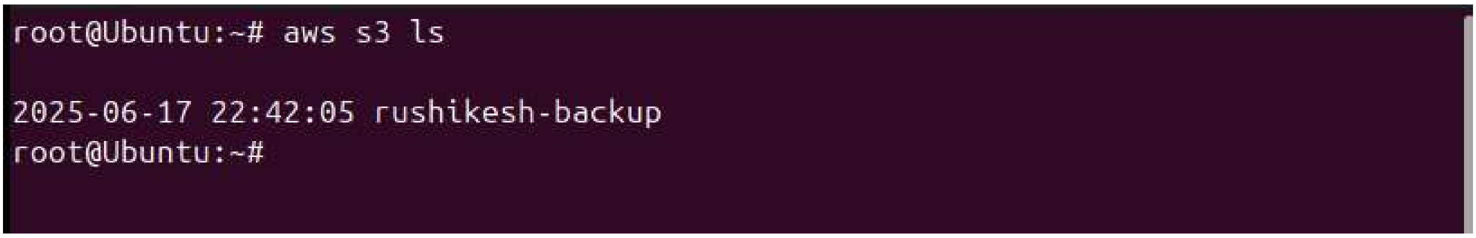
General purpose buckets (1/1) Info All AWS Regions

Buckets are containers for data stored in S3.

	Name	AWS Region	IAM Access Analyzer	Creation date
●	rushikesh-backup	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	June 17, 2025, 22:42:04 (UTC+05:30)

Step 4: Test AWS S3 Connection

Command:

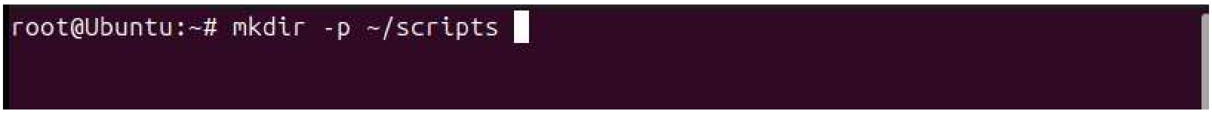


```
root@Ubuntu:~# aws s3 ls

2025-06-17 22:42:05 rushikesh-backup
root@Ubuntu:~#
```

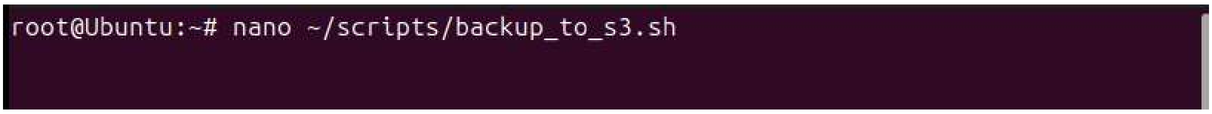
Step 5: Create a Script using which we can backup data from directory and also automate the process.

1. Create directory



```
root@Ubuntu:~# mkdir -p ~/scripts
```

2.create script file



```
root@Ubuntu:~# nano ~/scripts/backup_to_s3.sh
```

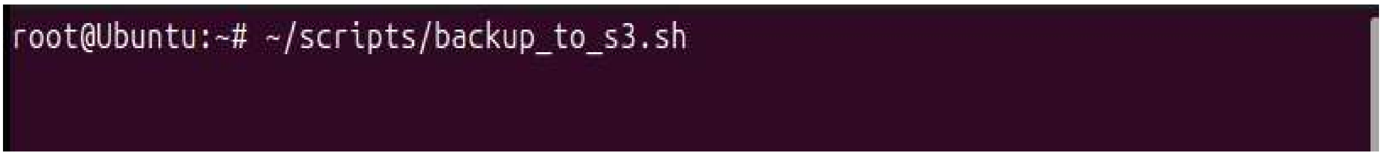
3. Paste the following script and save file :

```
SOURCE_DIR="/var/www/html"                    # Folder to back up
BUCKET_NAME="rushikesh-backup"                 # Your bucket name
S3_PATH="s3://$BUCKET_NAME/html-backup"           # Target path in S3
LOG_FILE="/var/log/html_s3_backup.log"

echo "[$(date)] Starting backup of $SOURCE_DIR to $S3_PATH" >> "$LOG_FILE"
aws s3 sync "$SOURCE_DIR" "$S3_PATH" --storage-class STANDARD_IA --sse AES256 >>
"$LOG_FILE" 2>&1

if [ $? -eq 0 ]; then
  echo "[$(date)] Backup successful." >> "$LOG_FILE"
else
  echo "[$(date)] Backup FAILED!" >> "$LOG_FILE"
fi
```

4. Run it manually to test

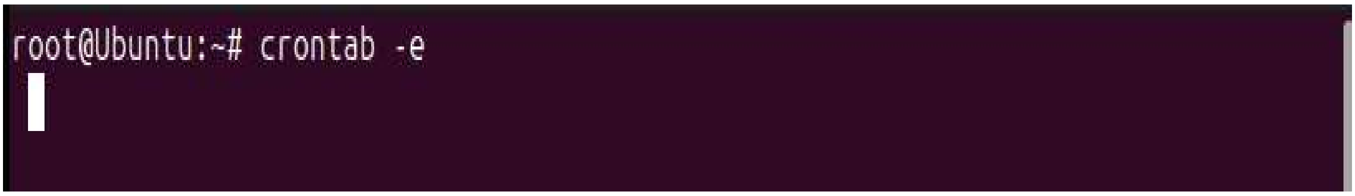


```
root@Ubuntu:~# ~/scripts/backup_to_s3.sh
```

Step 6: Automate Backup with Cron Job

1. Open Your Crontab

Command:

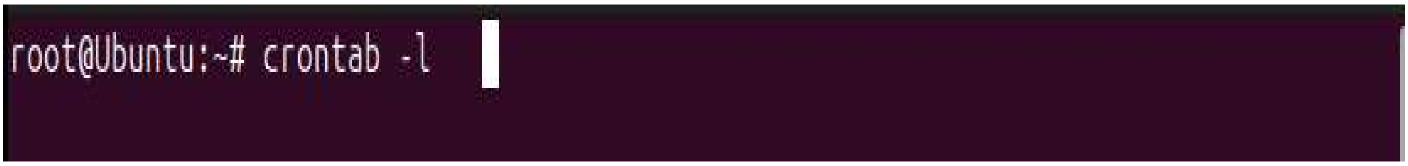


```
root@Ubuntu:~# crontab -e
```

2. Add following Line :

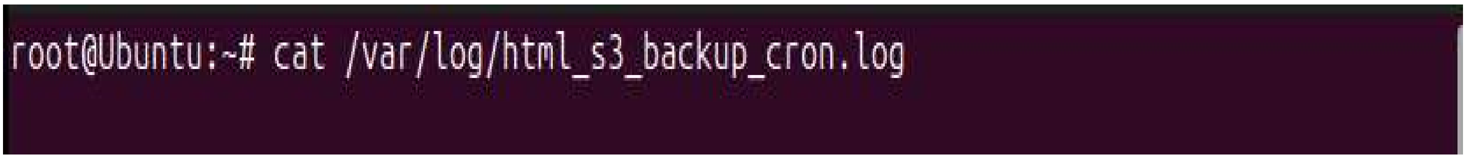
```
0 2 * * * /root/scripts/backup_to_s3.sh >> /var/log/html_s3_backup_cron.log 2>&1
```

3. Verify Cron Job is Set



```
root@Ubuntu:~# crontab -l
```

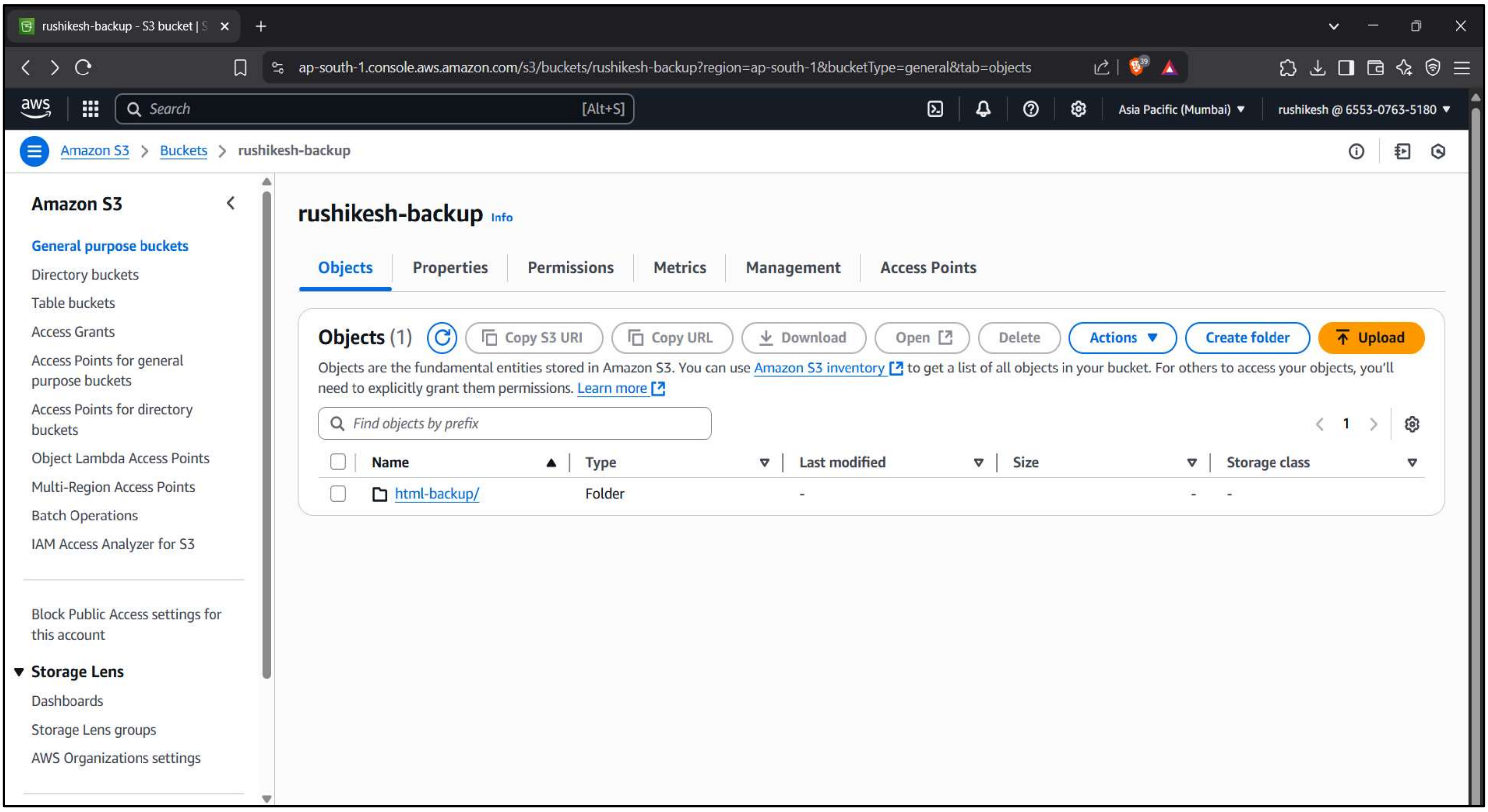
Step 7: Check Log file



```
root@Ubuntu:~# cat /var/log/html_s3_backup_cron.log
```

Step 8: Verify S3 Backup in AWS Console

1. **Click on your bucket** : rushikesh-backup
2. **You should see a folder called** : html-backup/


rushikesh-backup - S3 bucket | S
ap-south-1.console.aws.amazon.com/s3/buckets/rushikesh-backup?region=ap-south-1&bucketType=general&tab=objects
aws
Search
[Alt+S]
Asia Pacific (Mumbai)
rushikesh @ 6553-0763-5180
Amazon S3
Buckets
rushikesh-backup
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Access Grants
Access Points for general purpose buckets
Access Points for directory buckets
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
rushikesh-backup Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (1)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
1

Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more

□	Name	Type	Last modified	Size	Storage class
□	html-backup/	Folder	-	-	-