

AWS Assignment

Sridhar Tuli
2201202

Q1.

Logged in the EC2 instance using ssh command and uploaded the folder http_server using scp command

```
~/.AWS - fish  ubuntu@ip-172-31-12-238: ~
Did you mean:  sudo ssh -i key_pair1.pem ubuntu@ec2-13-201-104-135.ap-south-1.compute.amazonaws.com

~/AWS (0.013s)
sudo !!
sudo: !!: command not found

~/AWS
sudo ssh -i "key_pair1.pem" ubuntu@ec2-13-201-104-135.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-13-201-104-135.ap-south-1.compute.amazonaws.com (13.201.104.135)' can't be established.
ED25519 key fingerprint is SHA256:RhsFVJ5Z/fS6SeCnNMNFdHwC4LZxCjHjomanB7YrGY.
This host key is known by the following other names/addresses:
-/.ssh/known_hosts:1: ec2-3-110-175-109.ap-south-1.compute.amazonaws.com
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-13-201-104-135.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1009-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Sun Aug 18 04:25:11 UTC 2024

System load: 0.14          Processes:      106
Usage of /:  41.3% of 6.71GB Users logged in:   0
Memory usage: 19%         IPv4 address for enx0: 172.31.12.238
Swap usage:  0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Mon Aug 12 04:49:34 2024 from 223.238.108.136
ubuntu@ip-172-31-12-238:~$ ls
1.c http_server
ubuntu@ip-172-31-12-238:~$
```

Uploading the file using SCP command

```
~ via v3.12.4
> sudo scp -i ~/.AWS/key_pair1.pem -r ~/http_server ubuntu@ec2-3-110-175-109.ap-south-1.compute.amazonaws.com:/home/ubuntu/
[sudo] password for solomons:
404.html          100% 512B   512.0B/s   00:00
Cargo.lock        100% 1.2KB   1.2KB/s    00:00
Cargo.toml        100% 850B    850.0B/s   00:00
README.md         100% 2.1KB   2.1KB/s    00:00
src/main.rs       100% 3.5KB   3.5KB/s    00:00
target/debug/http_server 100% 5.1MB   5.1MB/s    00:01
```

Downloading the folder using SCP command again

```
~ via v3.12.4
> scp -i ~/.AWS/key_pair1.pem -r ubuntu@ec2-3-110-175-109.ap-south-1.compute.amazonaws.com:/home/ubuntu/http_server ~/Downloads/
404.html          100% 256    256.0KB/s   00:00
Cargo.lock        100% 1.2KB   1.2MB/s     00:00
Cargo.toml        100% 512    512.0KB/s   00:00
README.md         100% 4.5KB   4.5MB/s     00:00
src/main.rs       100% 2.0KB   2.0MB/s     00:00
src/lib.rs        100% 1.5KB   1.5MB/s     00:00
target/debug/http_server 100% 7.2MB   7.2MB/s     00:01
target/release/http_server 100% 3.5MB   3.5MB/s     00:00
```

Q2.

Created Buckets

The screenshot shows the Amazon S3 console interface. The left sidebar contains navigation links for Buckets, Access Grants, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, Storage Lens, and Feature spotlight. The main content area displays an 'Account snapshot' and a 'General purpose buckets' section. The 'General purpose buckets' section shows a list of three buckets: bucket2201202, personalbucket234, and websitebucket1299. Each bucket is associated with the Asia Pacific (Mumbai) ap-south-1 region and has a link to view the IAM Access Analyzer. The table below summarizes the bucket information.

	Name	AWS Region	IAM Access Analyzer	Creation date
<input type="radio"/>	bucket2201202	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	August 17, 2024, 11:49:15 (UTC+05:30)
<input type="radio"/>	personalbucket234	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	August 12, 2024, 10:33:05 (UTC+05:30)
<input type="radio"/>	websitebucket1299	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	August 12, 2024, 10:31:55 (UTC+05:30)

Created friend_user to share the files of bucket with

The screenshot shows the AWS IAM console interface. The left sidebar contains navigation links for Identity and Access Management (IAM), Access management, and Access reports. The main content area displays the 'Users' section. The 'Users' section shows a list of two users: friendUser and User1. Each user is associated with the / path and has a link to view the IAM Access Analyzer. The table below summarizes the user information.

	User name	Path	Group	Last activity	MFA	Password
<input type="checkbox"/>	friendUser	/		19 hours ago		5
<input type="checkbox"/>	User1	/		1 minute ago		6

Created single-s3-access policy and assigned it to the friend user only

friendUser | IAM | Global

Private browsing

https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/details/friendUser?section=permissions

Services Search [Alt+S]

Global sidhar_tuli

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users**
- Roles
- Policies
- Identity providers
- Account settings

Access reports

- Access Analyzer
 - External access
 - Unused access
 - Analyzer settings
- Credential report
- Organization activity
- Service control policies

Summary

ARN
arn:aws:iam::253490756507:user/friendUser

Console access
Enabled without MFA

Access key 1
Create access key

Created
August 12, 2024, 10:54 (UTC+05:30)

Last console sign-in
Today

Permissions

Groups

Tags

Security credentials

Access Advisor

Permissions policies (5)

Permissions are defined by policies attached to the user directly or through groups.

Search

Filter by Type
All types

< 1 >

<input type="checkbox"/>	Policy name	Type	Attached via
<input type="checkbox"/>	AmazonEC2FullAccess	AWS managed	Directly
<input type="checkbox"/>	AmazonS3FullAccess	AWS managed	Directly
<input type="checkbox"/>	IAMUserChangePassword	AWS managed	Directly
<input type="checkbox"/>	PersonalFolderAccessPolicy	Customer managed	Directly
<input type="checkbox"/>	single-s3-access-custom	Customer inline	Inline

CloudShell Feedback

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friendUser | IAM | Global

Edit policy | IAM | Global

https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/details/friendUser/editPolicy/single-s3-access-custom?si...

Services Search [Alt+S]

Global sidhar_tuli

Step 2

Review and save

Policy editor

Visual JSON Actions

1 {

2 "Version": "2012-10-17",

3 "Statement": [

4 {

5 "Effect": "Allow",

6 "Action": [

7 "s3:ListBucket"

8],

9 "Resource": "arn:aws:s3:::bucket2201202"

10 },

11 {

12 "Effect": "Allow",

13 "Action": [

14 "s3:PutObject",

15 "s3:GetObject"

16],

17 "Resource": "arn:aws:s3:::bucket2201202/*"

18 }

19]

20 }

Edit statement

Select a statement

Select an existing statement in the policy or add a new statement.

+ Add new statement

CloudShell Feedback

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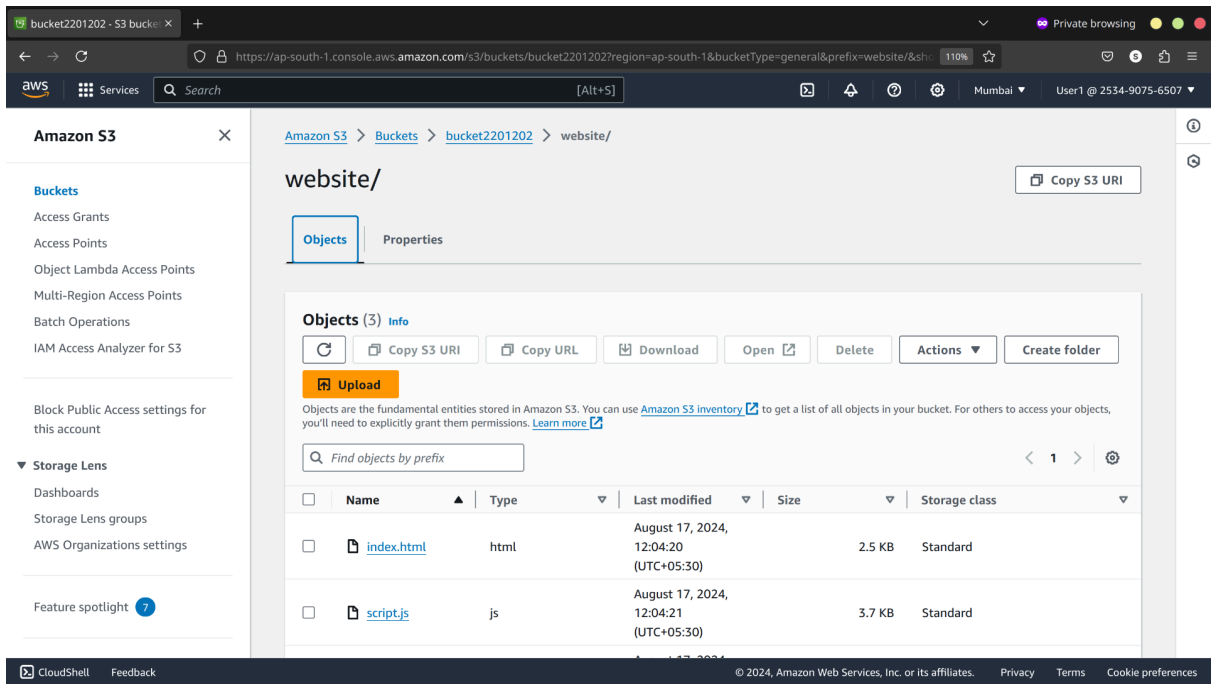
Added files to the bucket (monkey image and website folder)

The screenshot shows the Amazon S3 console interface. The left sidebar contains navigation options like Buckets, Access Grants, and Storage Lens. The main content area displays the 'bucket2201202' bucket. Under the 'Objects' tab, there are two items: 'monkey-2.jpg' (a file) and 'website/' (a folder). The 'monkey-2.jpg' object is highlighted, showing its details: it was uploaded on August 17, 2024, at 12:11:46 (UTC+05:30), has a size of 229.1 KB, and is stored in the Standard storage class.

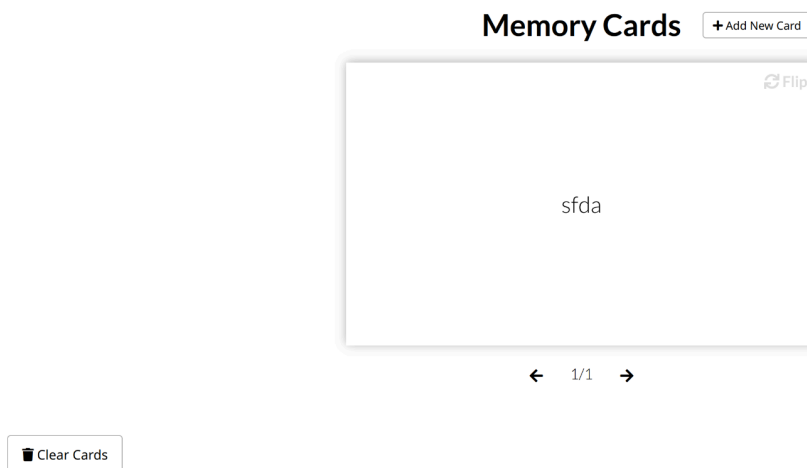
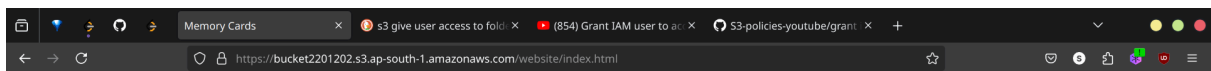
Name	Type	Last modified	Size	Storage class
monkey-2.jpg	jpg	August 17, 2024, 12:11:46 (UTC+05:30)	229.1 KB	Standard
website/	Folder	-	-	-

This screenshot shows the detailed view of the 'monkey-2.jpg' object. The 'Properties' tab is selected, displaying various metadata. The 'Object overview' section provides a summary of the object's characteristics, including its owner, region, last modified date, size, and various identifiers like S3 URI, ARN, and Etag.

Property	Value
Owner	c9ac489ed85c9cd9c11089a78baf4e296b59f2567e19db89e99f87bdaa9d7550
AWS Region	Asia Pacific (Mumbai) ap-south-1
Last modified	August 17, 2024, 12:11:46 (UTC+05:30)
Size	229.1 KB
S3 URI	s3://bucket2201202/monkey-2.jpg
Amazon Resource Name (ARN)	arn:aws:s3:::bucket2201202/monkey-2.jpg
Entity tag (Etag)	369a65a313b448faf8cc31f2e28c6a4f
Object URL	https://bucket2201202.s3.ap-south-1.amazonaws.com/monkey-2.jpg

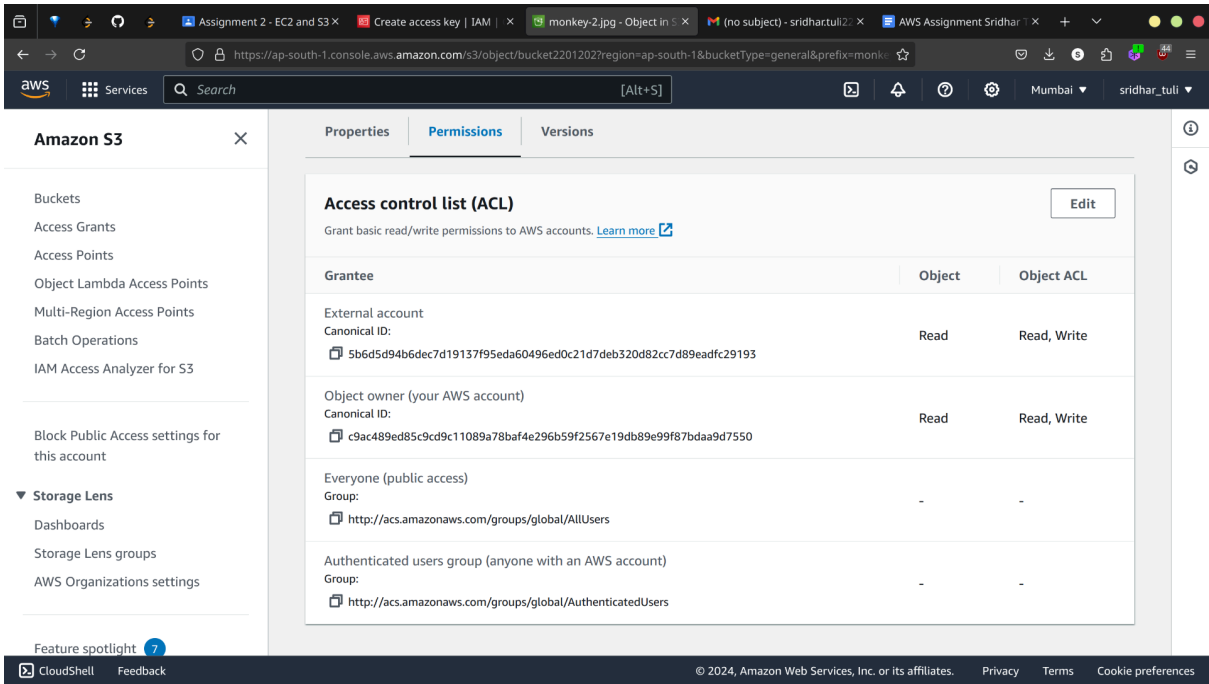


Hosted the website on aws s3 instance
(memory card site)

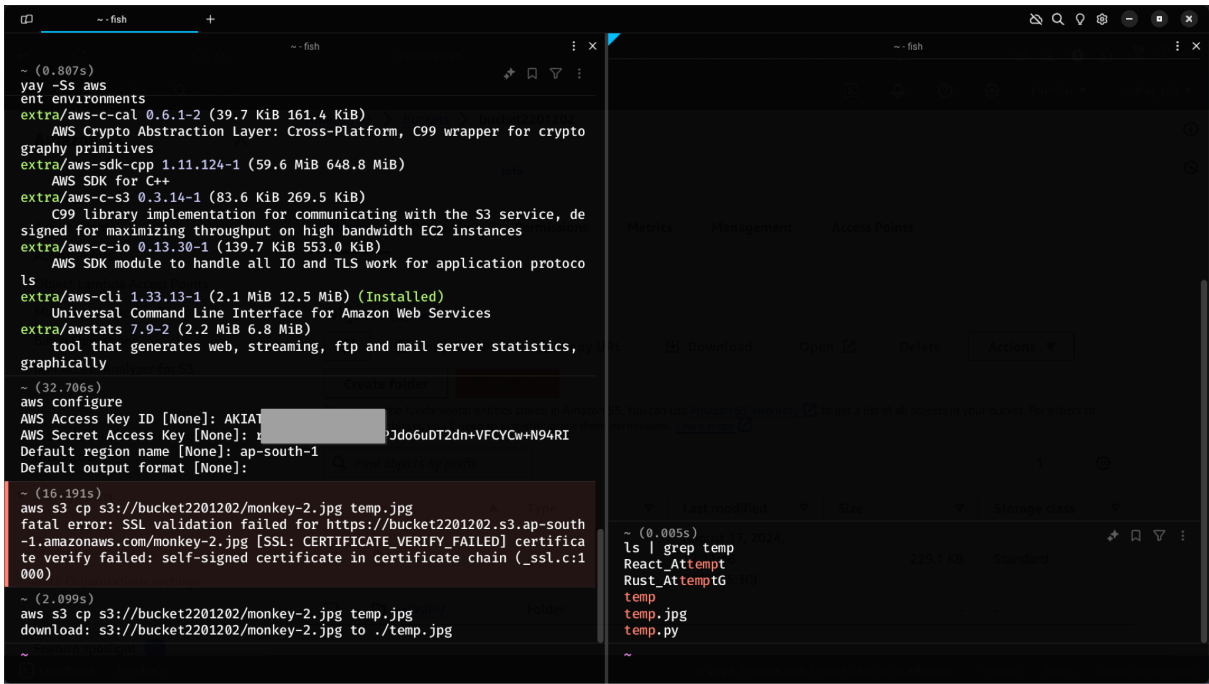


Sharing s3 bucket folder using aws (cli) common

Gave the other user's canonical id using following



Then accessed the data (monkey-2.jpg) and downloaded it using aws-cli



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