How to Configure AWS SFTP Server with AWS S3

1. Create S3 Bucket

2. AWS Transfer Family - Create SFTP Server

- On the AWS Transfer Family console, select "Create Server"
- Select the protocols you want to enable Choose SFTP
- Choose an identity provider Service Managed
- Endpoint configuration Publicly accessible
- Choose a domain Amazon S3
- Click on Next, Review and create

3. Create user in SFTP Server

- You need to select a username, create an IAM role for your S3 access and select an AWS S3 bucket.
- Create an IAM role, click on create role scroll down, search and select Transfer and click next-

• Choose a IAM policy

o Create a IAM Policy -

IAM policy that is attached to the role should be configured like this:

https://github.com/JashwanthY/AWS-DATA-ENGINEER/blob/main/IAM%

20policy%20SFTP%20-%20S3

Copy policy, click on Json and paste, create a policy name and click on create policy.

- Now Select the created policy, click next, choose a role name and create a role.
- Now click on Add User in AWS Transfer Family SFTP Server
- Create a user name, choose the roles created earlier, select s3

bucket and choose a root directory and click on restricted, Then click on Add.

4. Create an SSH key

• Use this command to create a key:

```
ssh-keygen -m PEM -f key name
```

- Choose a passphrase
- Open key_name.pub file and copy the text and paste it into SSH public key. (SFTP server - users)

5. Connect your SFTP server:

• Connect your SFTP server with this command:

```
sftp -i <your private key> <username>@<sftp dns host>
```

• Enter passphrase key created earlier

6. Try to list your AWS S3 Bucket with ls.

```
Connected to s-**********.server.transfer.us-west-1.amazonaws.com. sftp> ls IMG\_3820.jpg \ ae.xml
```

7. Upload and download a file:

Upload - put

sftp> put ae.xml
Uploading ae.xml to /ae.xml
ae.xml 100% 102KB 282.7KB/s 00:00
sftp> put IMG_3820.jpg
Uploading IMG_3820.jpg to /IMG_3820.jpg

Download - get

sftp> get ae.xml Fetching /ae.xml to ae.xml ae.xml

100% 102KB 447.3KB/s 00:00