Project:

* Title - AWS S3 Bucket Setup & Secure Data Transfer (SFTP)

* Introduction:

This mini-project, AWS S3 Bucket Setup & Secure Data Transfer (SFTP), demonstrates how to securely store and transfer data using cloud services and industry-standard protocols. The implementation ensures scalability, reliability, and strong security for handling files.

* Tools & Technologies Used:

- AWS Console
- PuttyGen
- FileZilla
- S3 Bucket
- IAM Roles & Policies

* Step-by-Step Procedure:

- 1. Create a Public S3 Bucket
- 2. Attach a Bucket Policy
- 3. Create Transfer Server (SFTP)
- 4. Create IAM Role
- 5. Generate Keys using PuttyGen (Public & Private Keys)
- 6. Add User and Assign Permissions
- 7. Provide Server Credentials to Customer
- 8. Use File Zilla to Connect and Upload Files

* Challenges Faced & Solutions:

* Key generation errors → Solved by PuttyGen configuration

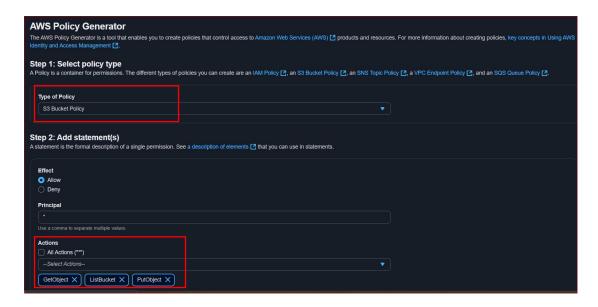
* References:

- AWS Documentation links
- Tutorials or articles followed

* Learning:

- Benefits of using AWS S3 + SFTP.
- How to add files in bucket using File Zilla.

1) Created Public bucket & attaching Bucket policy to the bucket:



Policy code ->

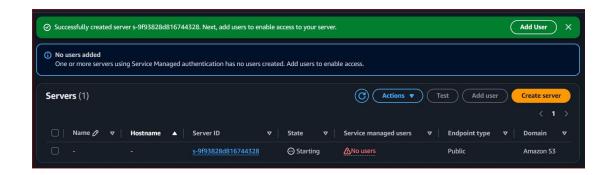
```
Policy
    1 7
          "Version": "2012-10-17",
           {
    "Sid": "Statement1",
    "Allow",
    4 ▽
              "Effect": "Allow",
    8 ~
               "s3:GetObject",
                "s3:ListBucket",
                "s3:PutObject"
            ],

"Resource": ["arn:aws:s3:::transfer-bkt-project","arn:aws:s3:::transfer-bkt-project/*"],
   14 ▽
   15 ▽
                  "aws:SourceIp": "152.56.10.246"
   18
   21
```

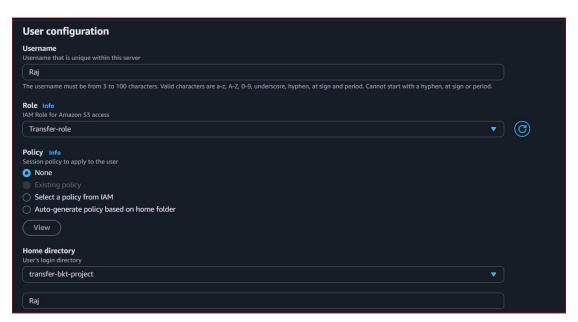
Statement ->



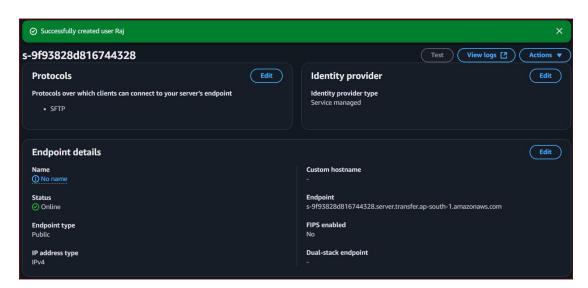
2) Created server:



3) User Configuration:



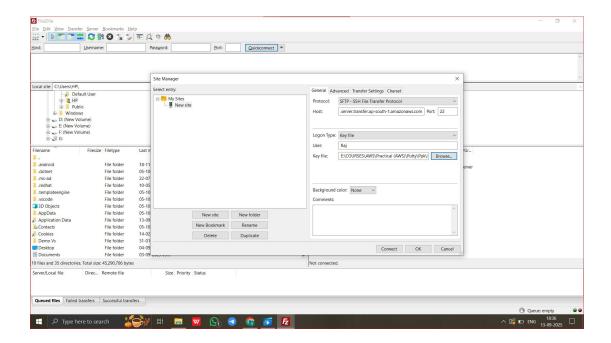
Then User added ->



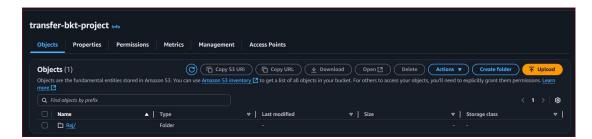
4) Download File Zilla:



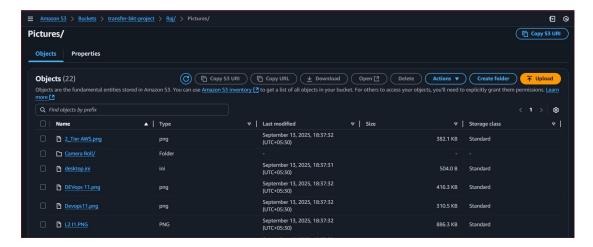
Then Connecting it to bucket using ->



5)After drag and drop files in File Zilla Files are automatically added in bucket using SFTP Protocol .



After expanding object :



And Files are added in bucket.

Stay Connected:

