7/23/2022

Sumit Mishra

190310286

Logo

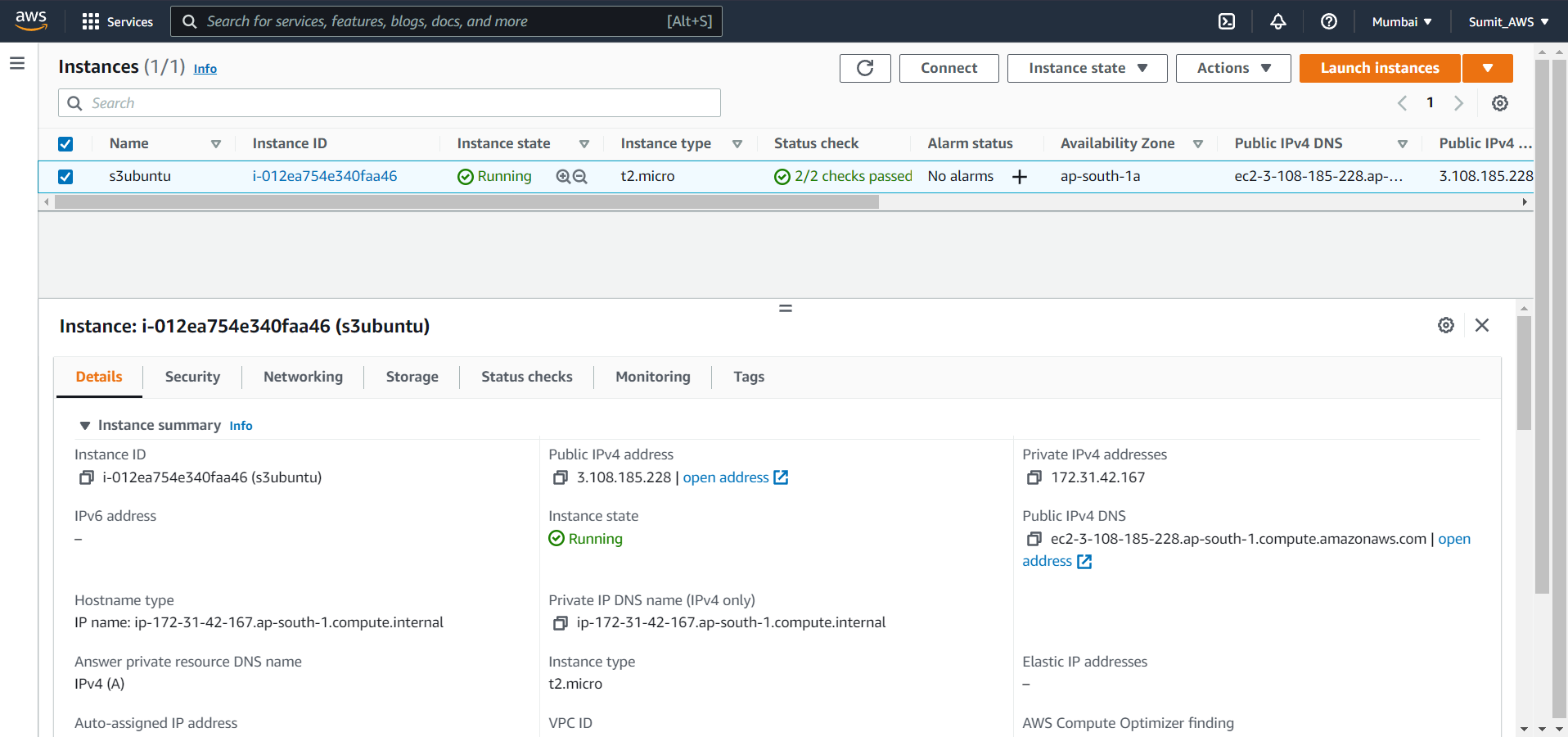
Description automatically generated

Project-05

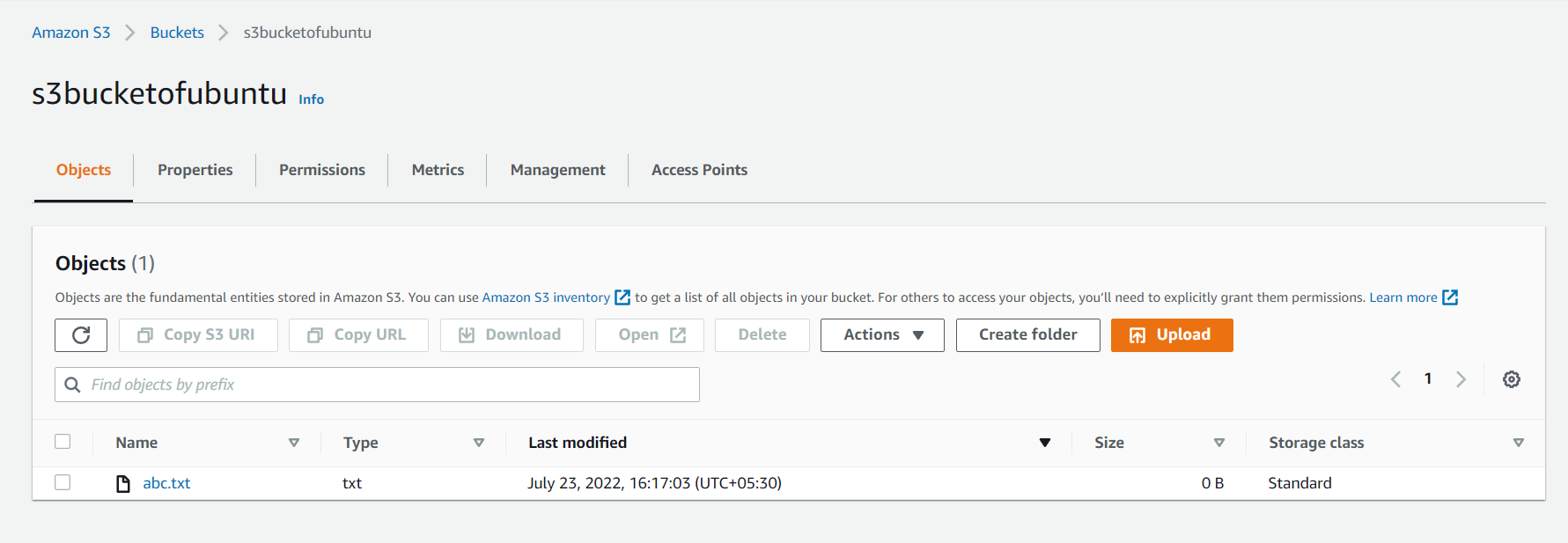
Mount S3 bucket as a drive in both linux and windows, configure MFA delete and versioning on the bucket.

## Mount an S3 bucket on ubuntu AMI.

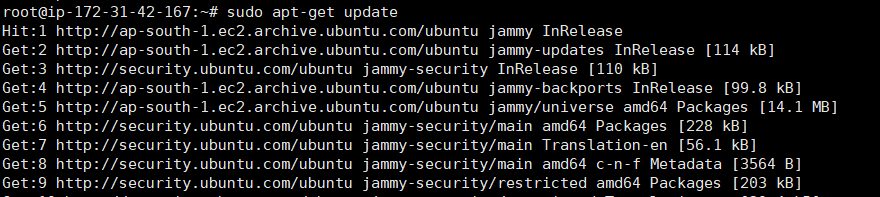
1. Created an EC2 instance to mount an S3 bucket using the Ubuntu AMI available.



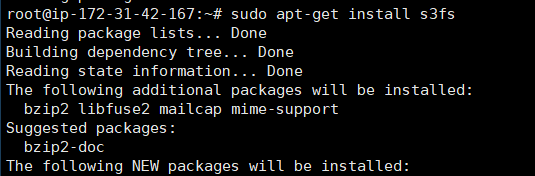
1. Created an S3 bucket to mount to the EC2 instance. (Also uploaded a file named ‘abc.text’).



1. Connected to the EC2 instance using SSH client.
2. Fired the following commands to setup and mount the s3 bucket on the instance:
3. ‘sudo apt-get update’ to update all libraries of Ubuntu.



1. ‘sudo apt-get install s3fs’ to install s3fs.



1. ‘echo AKIATYFGC35IFYZNP7HA:5WR1bzCxVytPcfp1zRDedFJnR/JLD8Rm3zHqUxcP>~/.passwd-s3fs’ to create a configuration file for IAM user having access key and secret access key.



1. ‘cat ~/.passwd-s3fs’ to check if the file has been created and contents have been filled in it or not.



1. ‘chmod 600 ~/.passwd-s3fs’ to set permissions for the configuration file.



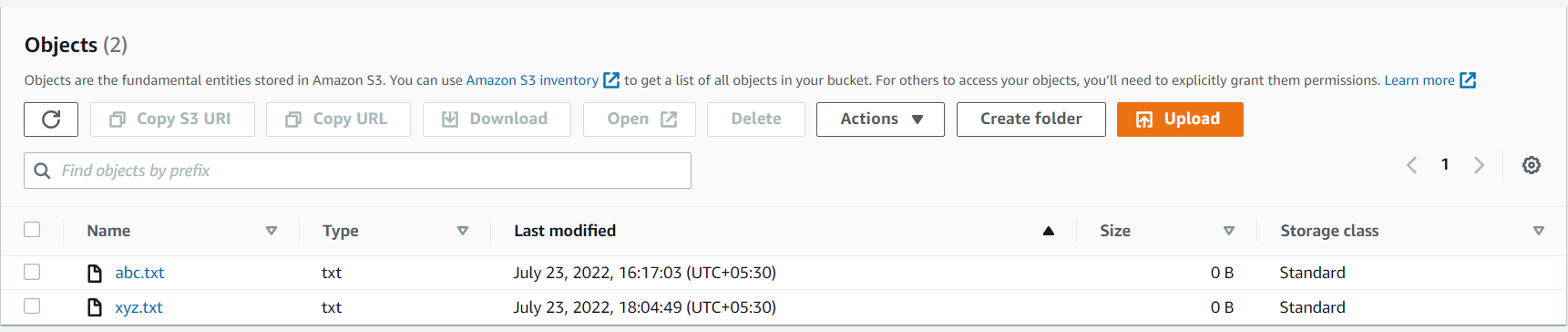
1. ‘mkdir ~/s3-bucket-folder’ to make a directory to mount the s3 volume to.



1. ‘s3fs s3bucketofubuntu ~/s3-bucket-folder -o passwd\_file=~/.passwd-s3fs’ to mount the s3 bucket to the specified directory using the specified configuration file.
2. ‘mount’, ‘df –h’ to check if the s3 bucket has been mounted to the directory or not.

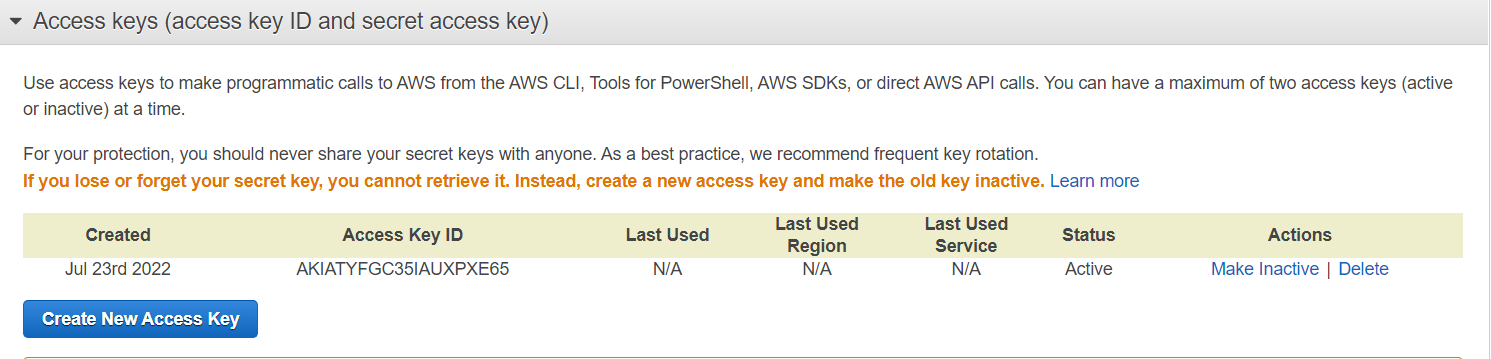


1. ‘cd ~/s3-bucket-folder’ to go the directory where the volume has been mounted.
2. ‘ls’ to check if the file ‘abc.txt’ is present or not.
3. ‘touch xyz.txt’ to create a text inside that directory and check if it reflects in the s3 bucket in the console or not.

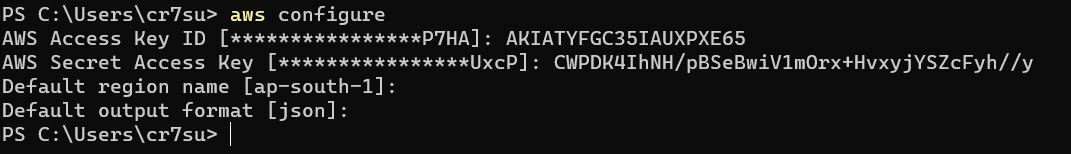


## Enable MFA delete on s3 bucket.

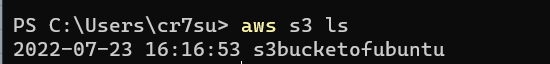
1. Creating a new access key and secret access key for the root user account.



1. Configuring IAM account with the help of the generated access key and secret access key of the root user account.



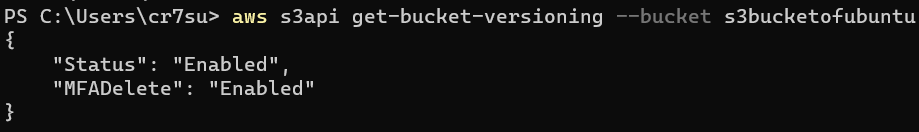
1. ‘aws s3 ls’ to display all the buckets in this region.

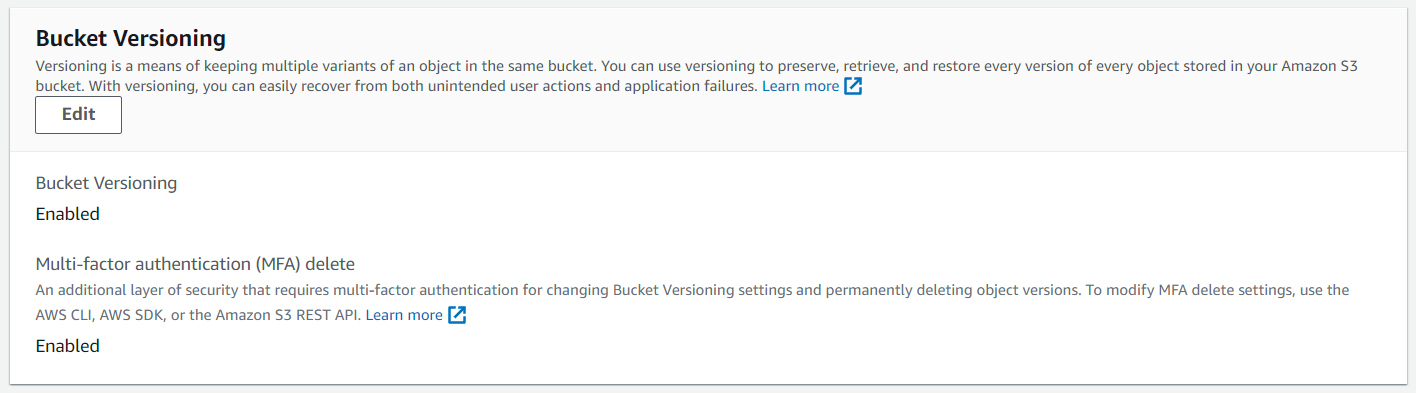


1. ‘aws s3api put-bucket-versioning --bucket s3bucketofubuntu --versioning-configuration Status=Enabled,MFADelete=Enabled --mfa "arn:aws:iam::258046353232:mfa/root-account-mfa-device 090201"’ to enable MFA delete on the root account for s3 bucket.

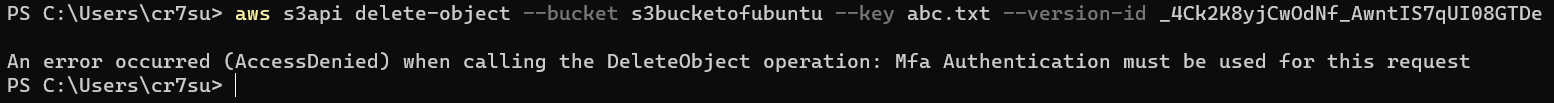


1. Checking if MFA delete and bucket versioning for the s3 bucket are enabled or not (also reflected in the console).

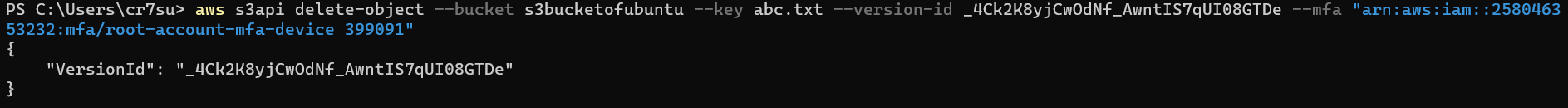




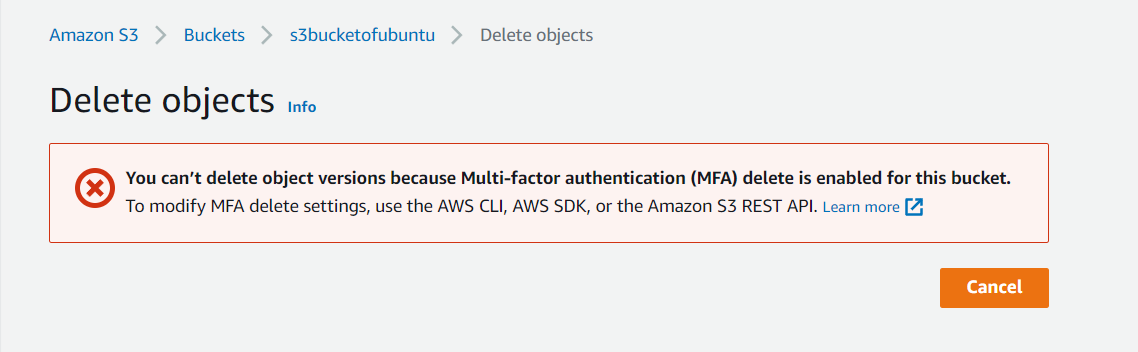
1. Deleting the 729 B abc.txt file without providing MFA key using CLI command.



1. Now, trying to delete the same file version using MFA code using CLI command. (We can see that the version of the abc.txt file has been deleted).

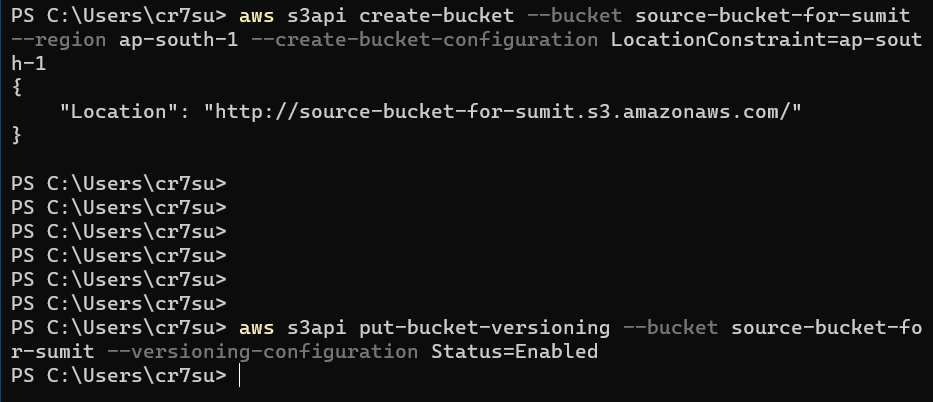


1. Now, trying to delete xyz.txt version using the s3 management console we get error message.

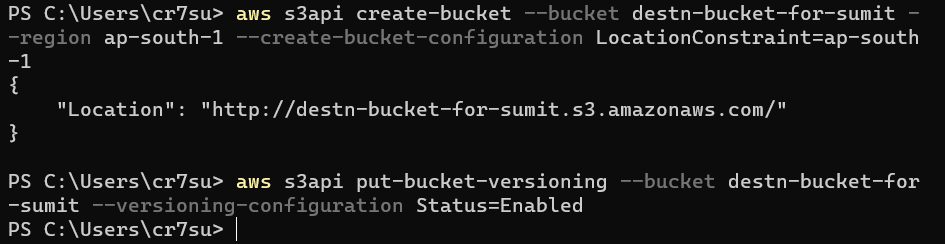


## Syncing files between two s3 buckets.

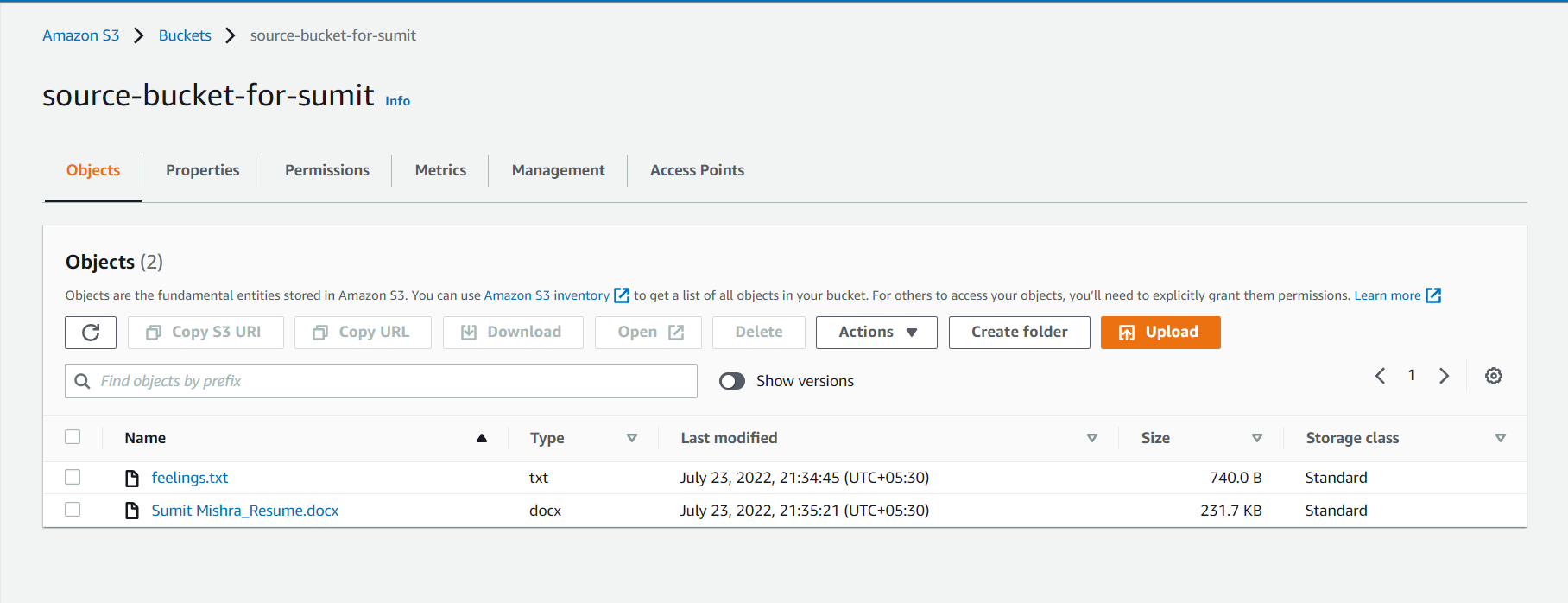
1. Creating Source bucket and enabling versioning to it.



1. Creating the destination bucket and enabling versioning to it.



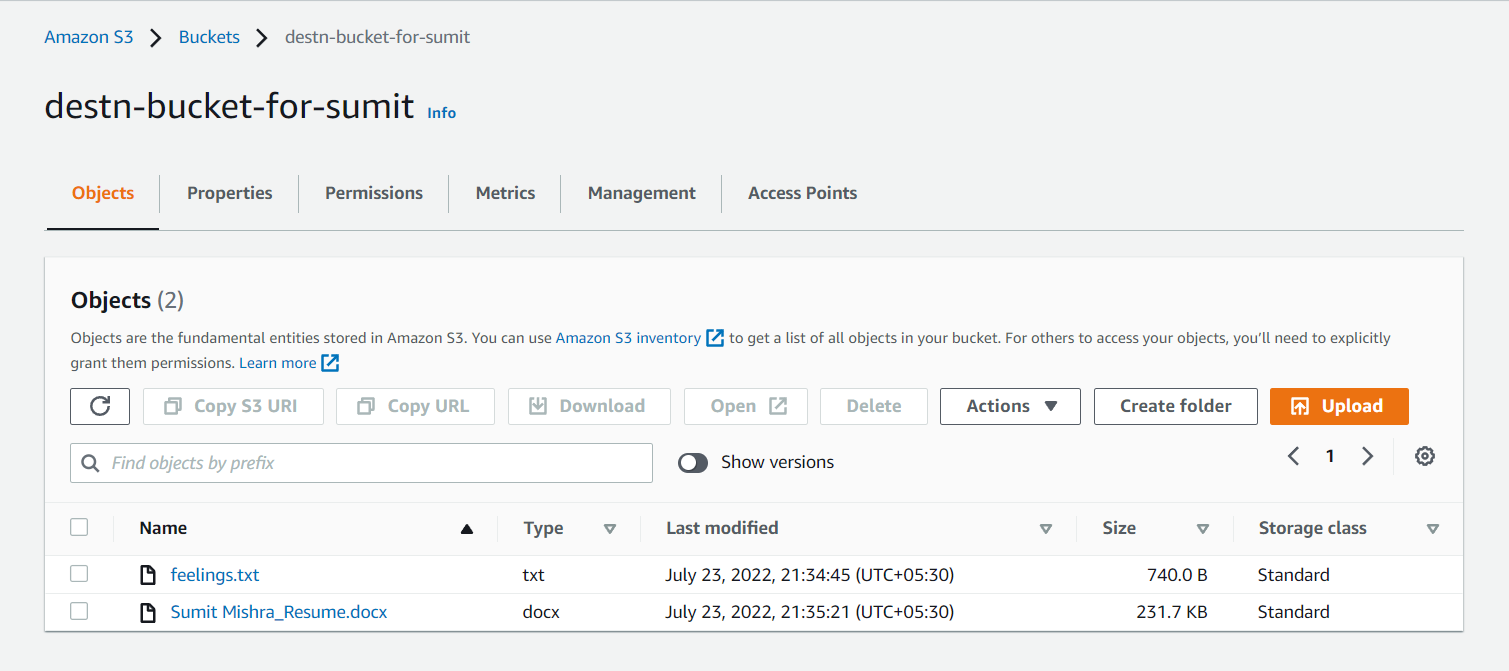
1. Uploading some files into the source bucket.



1. Syncing the files from source bucket to destination bucket using CLI.



1. Checking if the synced files are being reflected in the destination bucket in the s3 management console.



# Mounting an s3 bucket on windows.

1. Create an S3 bucket on AWS console and upload some files into it.
2. Make them public using ACL.

Graphical user interface, text, application, Word

Description automatically generated

1. Allow versioning to the bucket.

Graphical user interface, text, application, email

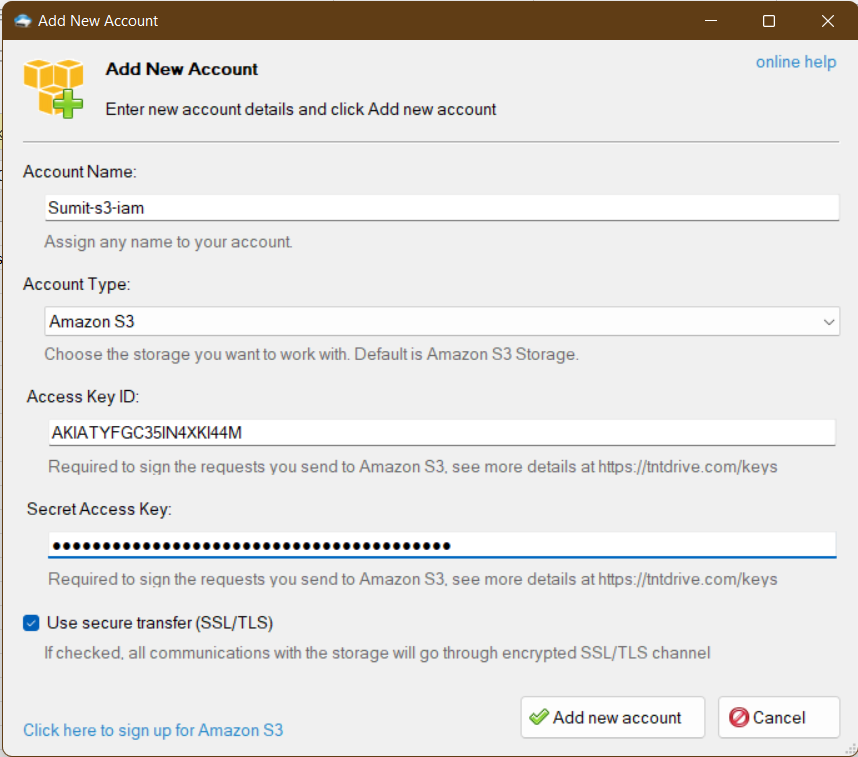
Description automatically generated

1. Download tntdrive from the internet and install it.
2. Create an IAM user for accessing the s3 bucket.

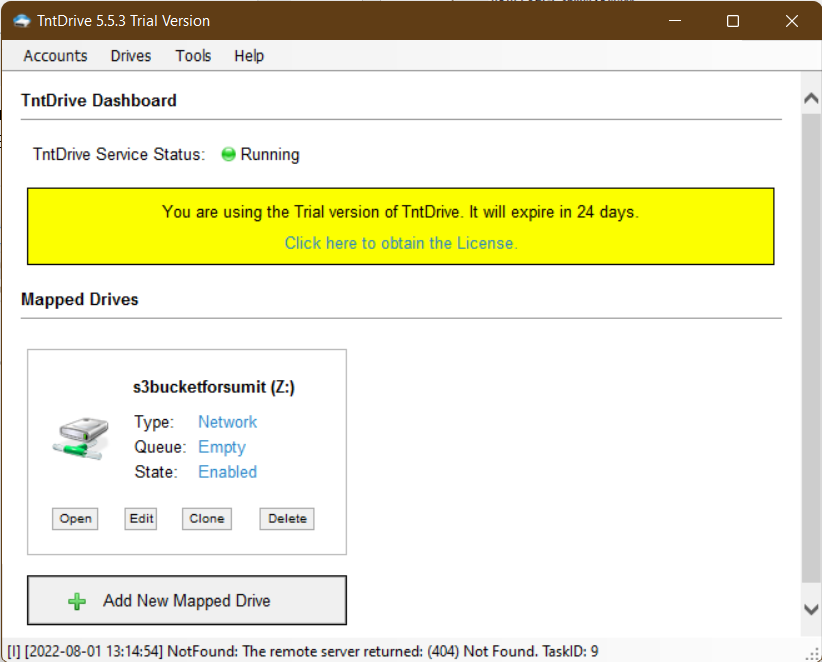
Graphical user interface, text, application, email

Description automatically generated

1. Open Tntdrive, select new user, provide the access key and secret access key for the IAM user created and click on add new account.



1. Then click on add new mapped drive, type the name of the s3 bucket and click on create.



1. On opening we can see the contents of the bucket on windows file explorer.

Graphical user interface, text

Description automatically generated

1. Adding a folder name folder\_sumit, we can see that folder being reflected on the AWS S3 bucket console also.

Graphical user interface, text, application

Description automatically generated

