

S3(simple storage service)

Case a)

Before versioning is enabled :

1. If you upload an object, same file name multiple times it stores the object in the S3 bucket with the most recent one.
2. It overrides an existing object and stores the new object with the same name.
3. Why because, for an unversioned bucket, it stores the version ID as null.

Case b)

Enable versioning at the time of creation or after creation of the S3 bucket (for an empty bucket)

1. Click on the bucket → properties → Bucket versioning → edit → Enable → save changes
 - a. bucket versioning is enable.
2. show versions option only is visible.
 - a. If you upload the same object multiple times, it will store different versioning IDs for the same object.
 - b. If you delete an object by mistake we can still restore it. It is marked as a Delete marker for the object. If you toggle the Show version option.
 - c. We need to download the object immediately preceding the Delete marker.

d. If you delete an object, it will be stored with the Version ID in the AWS Data center and the most recent delete object will become the current version of the object.

e. By deleting the delete marker we can restore the object into the S3 bucket.

Case c)

Enable the versioning after some of the objects is uploaded into the S3 bucket

1. Create an unversioned bucket.
2. Upload the same files to the bucket. It will store the most recent one.(because Version ID is null)
3. If you upload the different file to the bucket, it will store in the S3 bucket.
4. Now enable versioning for the bucket.
5. After you enable the versioning, if you upload an object, thereafter the version ID will be there. For previous objects it will show version ID is null.

Static website hosting on the S3 bucket :

1. You don't worry about server management or maintenance: create your static file and upload into the S3 bucket
- . 2. Enable static website on S3.
3. Make bucket as Public.
4. Change the bucket policy to get objects from the bucket

Steps to host static website on S3:

1. Create one folder in the local laptop and open in the VS code.
2. Insert some sample content in the index.html file.
3. Upload the folder into the S3 bucket.
4. Enable the static website on S3.
 - a. Click on the bucket → properties → go to bottom → edit the static website hosting → enable → give index.html as index document → leave the other values as default → click on the save changes.
5. Make bucket as Public
 - a. Click on the bucket → permissions → edit block public access → uncheck → save changes → text confirm → confirm.
6. Change the bucket policy now
 - a. Click on the bucket → permissions → Bucket policy section → edit

```
{  
  "Version": "2012-10-17",  
  "Statement": [  
    {  
      "Sid": "allowallpublicaccess",  
      "Effect": "Allow",  
      "Principal": "*",  
      "Action": [  

```

"s3:*"

],

"Resource": [

"arn:aws:s3:::24s3bucket1"

]

}

]

}