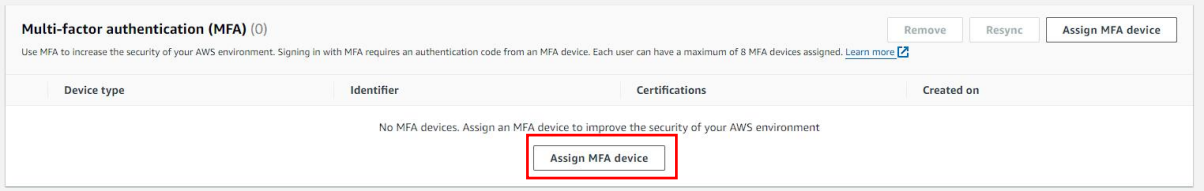
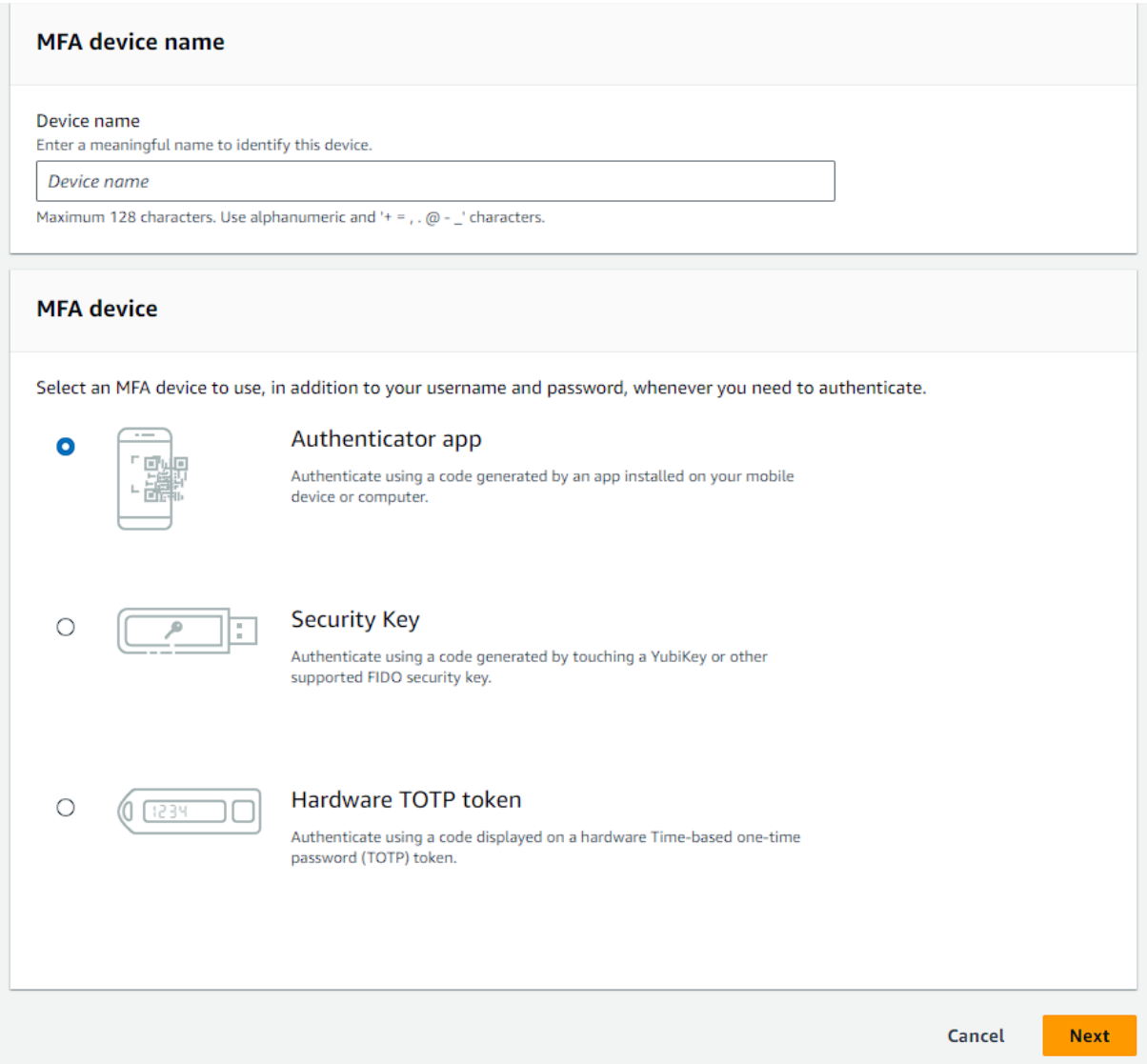
MFA DELETE FOR S3 BUCKET

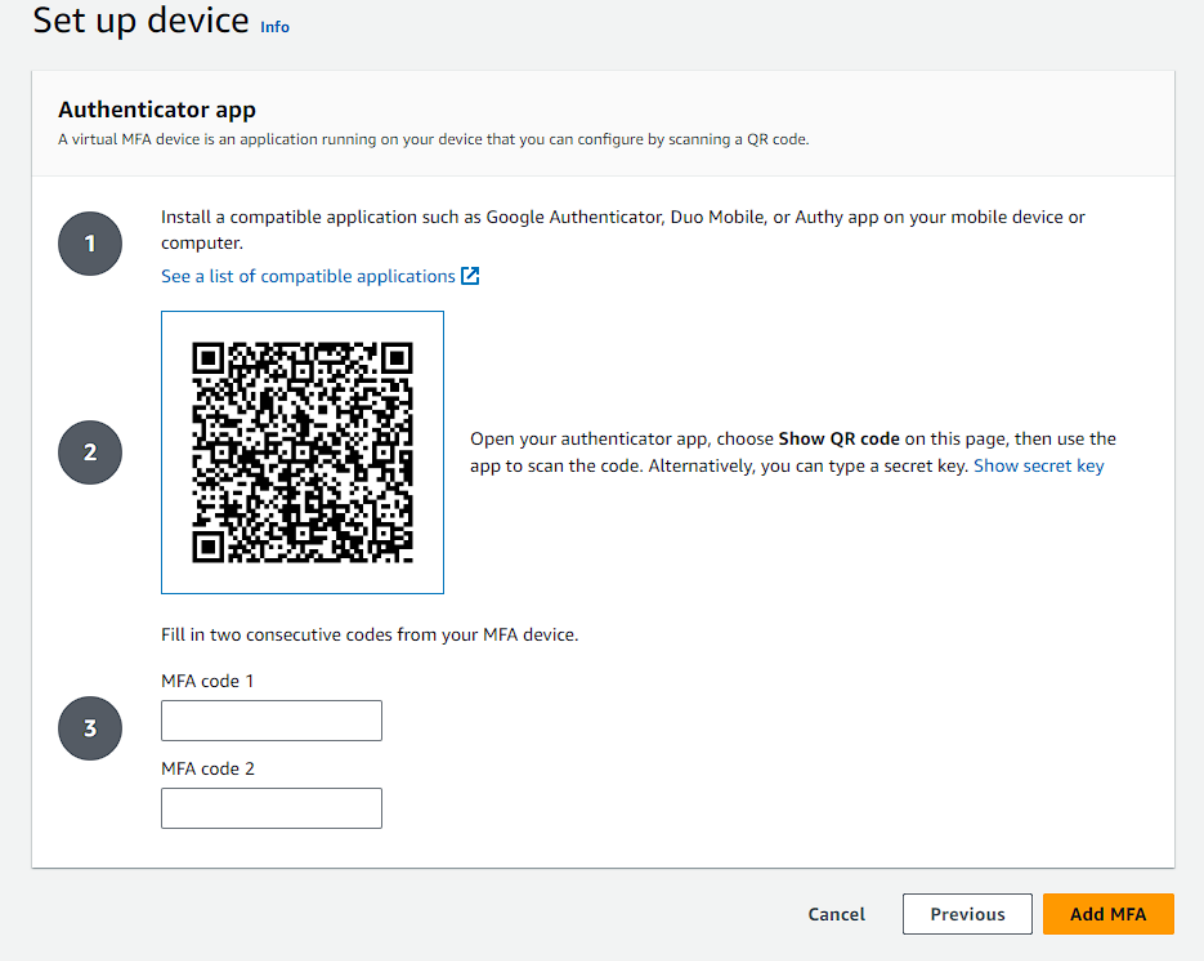
1. In this lab you are going to enable MFA (multi factor authentication) for your bucket.
2. When the MFA is enabled, you cannot delete your bucket.
3. To do so, first you need to verify your account with MFA.
4. For that go Security Credentials of your AWS account.
5. There you will see the option for MFA.
6. Click on assign MFA device.



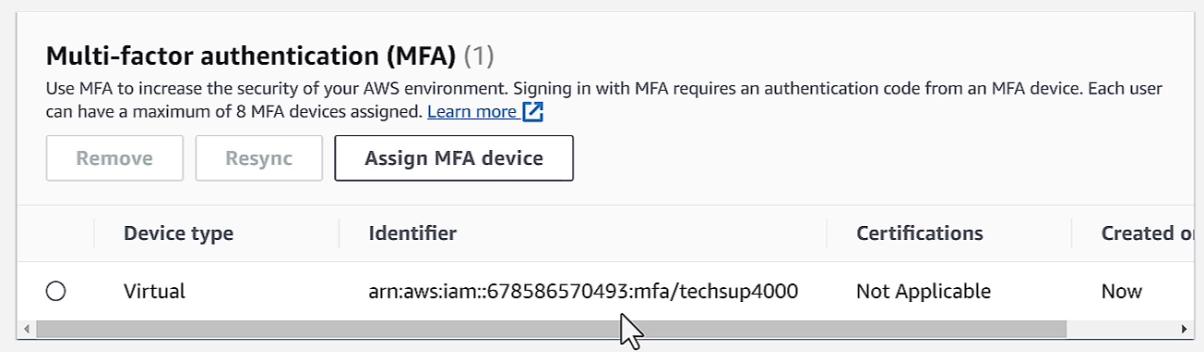
7. Here you have 3 options to create your MFA. But the easiest option is by using authenticator app.



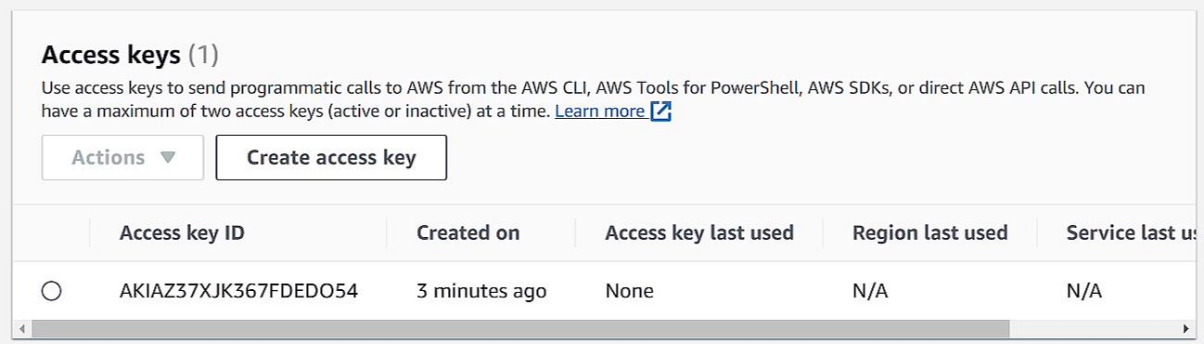
8. It will ask you to scan this QR code by your mobile device after you have downloaded the Authenticator app.
9. Scan this and add the MFA code 1 and 2. Then click on add MFA



10. Once it is done it will look like this in your security credentials.

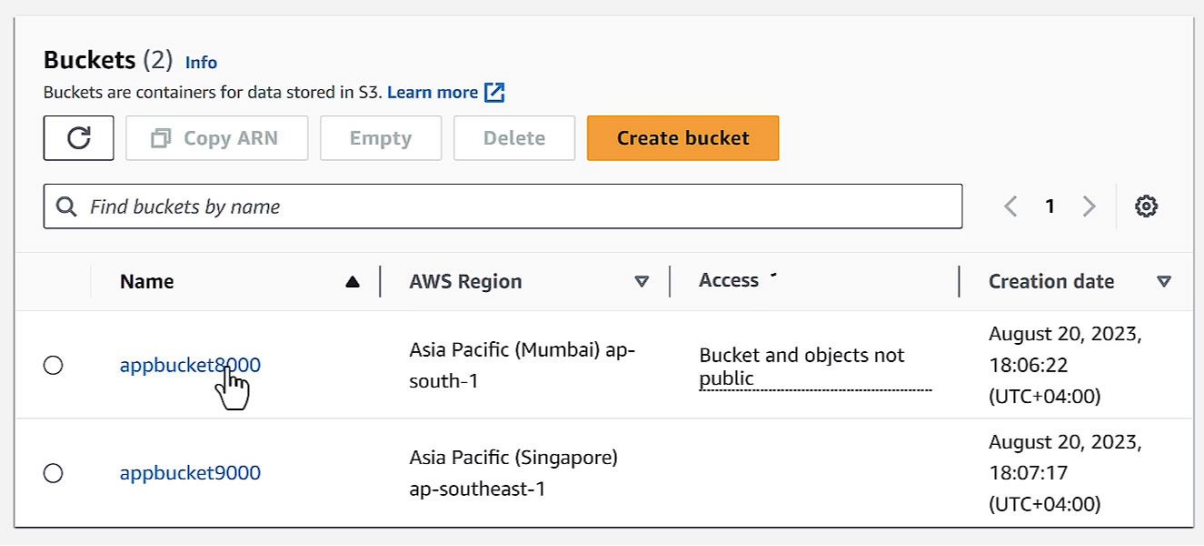


11. Now you also need to create Access keys because you are going to use command prompt on your local system.
12. Once your access keys are created, configure them at Command prompt.

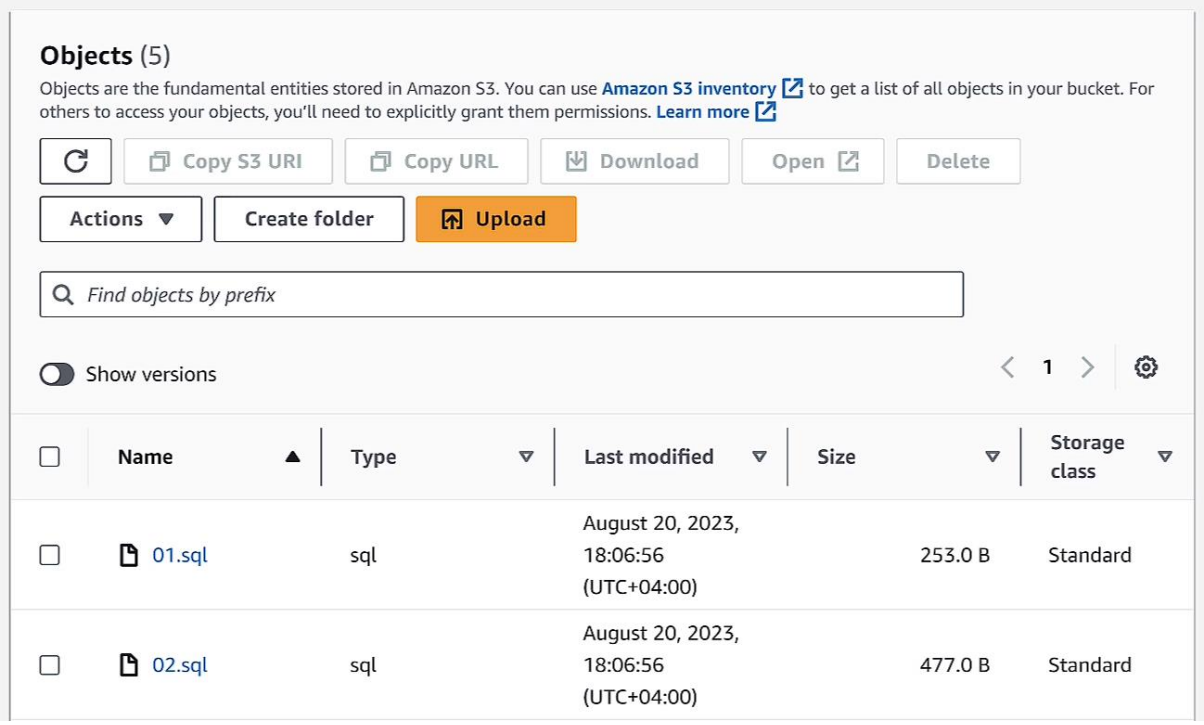



```
C:\Users\      >aws configure
AWS Access Key ID [****************5BGP]: AKIAZ37XJK367FDEDO54
AWS Secret Access Key [****************NSvL]: zqLh2cIMj4a/XPzmGH3/nwb0m5DNU8DvDp3j+6Nn
Default region name [ap-south-1]:
Default output format [None]:
```

13. Now as an example you are going to use a bucket of your choice.
14. Go and look at the objects that it has.



15. There should be some objects in place.



16. Now you need to run a code in command prompt. So, you need to make some changes in this code.
17. First is to use your own ARN then in the last use your code which is showing in your MFA app. The number highlighted in the red is authenticator code.

// This command is used to enable MFA-Delete for a bucket

aws s3api put-bucket-versioning --bucket appbucket8000 --versioning-configuration Status=Enabled,MFADelete=Enabled --mfa "arn:aws:iam::678586570493:mfa/AWS4000 027317"

```
C:\Users\     >aws s3api put-bucket-versioning --bucket appbucket8000 --versioning-configuration Status=Enabled,MFADelete=Enabled --mfa "arn:aws:iam::67858
6570493:mfa/       4000 506062"
```

18. If you want to confirm that MFA delete is enabled or not use this command.

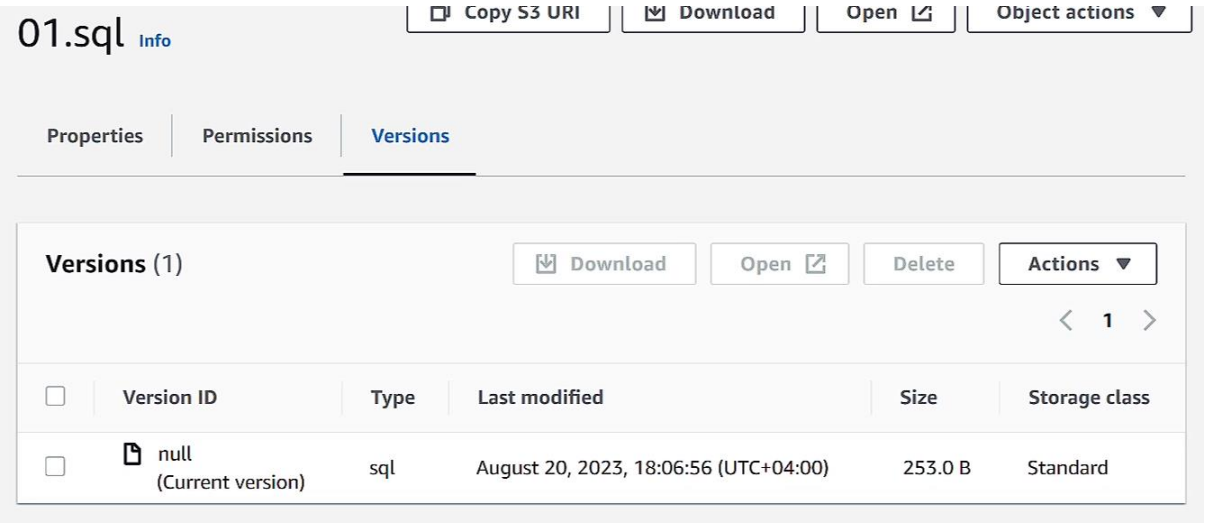
// This command is used to confirm that MFA-Delete has been enabled for the bucket

aws s3api get-bucket-versioning --bucket appbucket8000

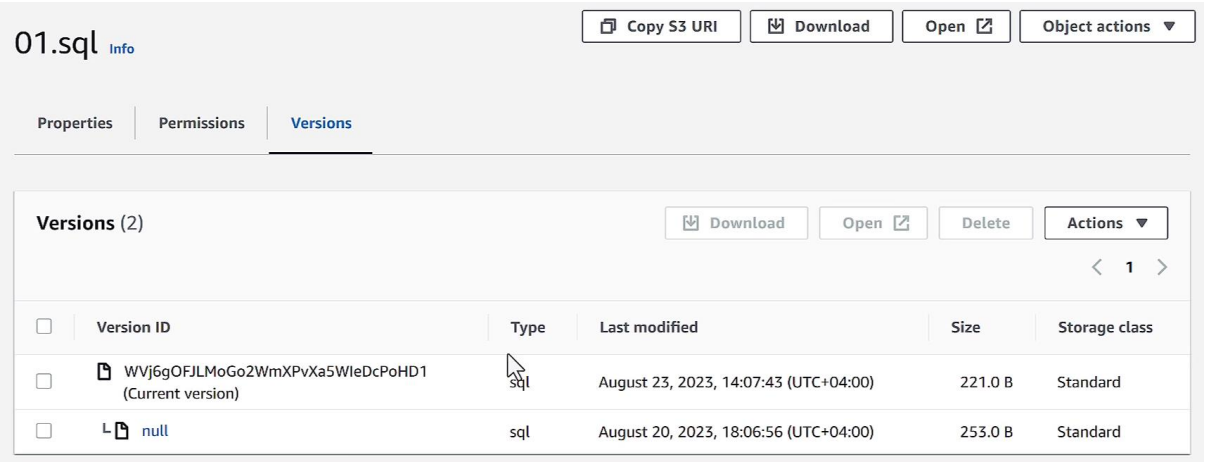
```
C:\Users\alash>aws s3api get-bucket-versioning --bucket appbucket8000
{
    "Status": "Enabled",
    "MFADelete": "Enabled"
}
```

19. In S3 if you go back to any of your object which you have and look at the version of it then it has only one.

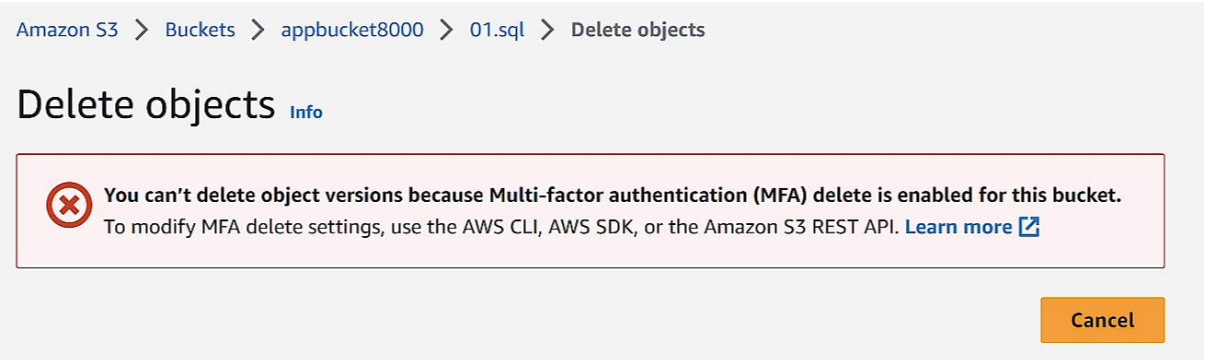
20. Now you need to upload this file again so, that it two versions.



21. Now you can see that it has two versions now.



22. So, now if you will try to delete this version, you will get denied. Because MFA delete has been activated.



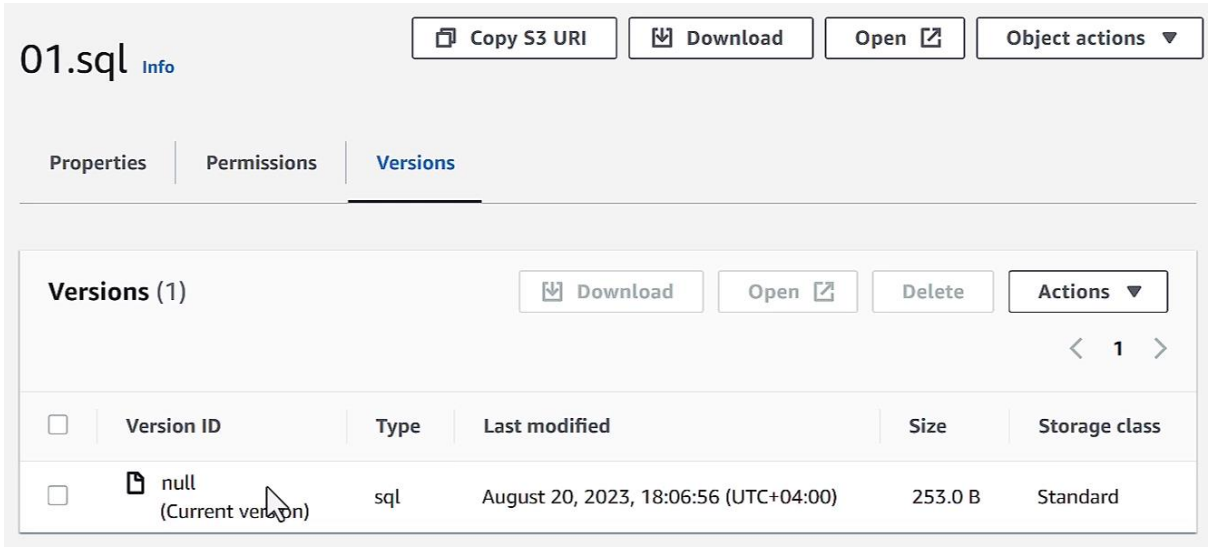
23. Now you need to run this command below to delete this object. Here you need to give the name of the bucket then what is its version ID and what is the object then your ARN and lastly your authenticator code.

// This command is used to delete an S3 object

aws s3api delete-object --bucket appbucket8000 --key 01.sql --version-id SgxSA0TxrFfLTH80dY0QhNfSKNufV2X6 --mfa "arn:aws:iam::678586570493:mfa/AWS4000303684"

24. Once you have run the code you get this as your output.
25. And now if you go back to your bucket to see and refresh your page.

26. Here you can see that it has been deleted.



27. Now if you want to disable the MFA delete you can do that by writing this command-to-command prompt.

// This command is used to disable MFA-Delete for a bucket

aws s3api put-bucket-versioning --bucket appbucket8000 --versioning-configuration Status=Enabled,MFADelete=Disabled --mfa "arn:aws:iam::678586570493:mfa/AWS4000236192"