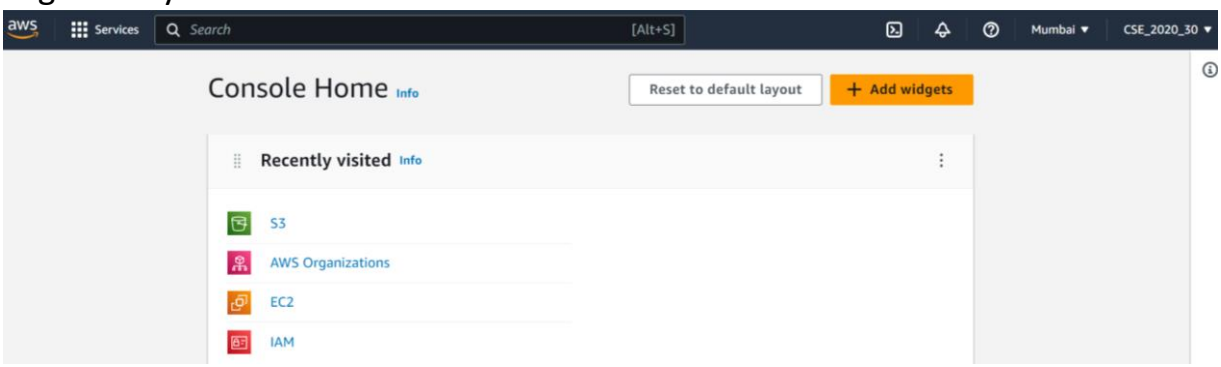
ASSIGNMENT 4

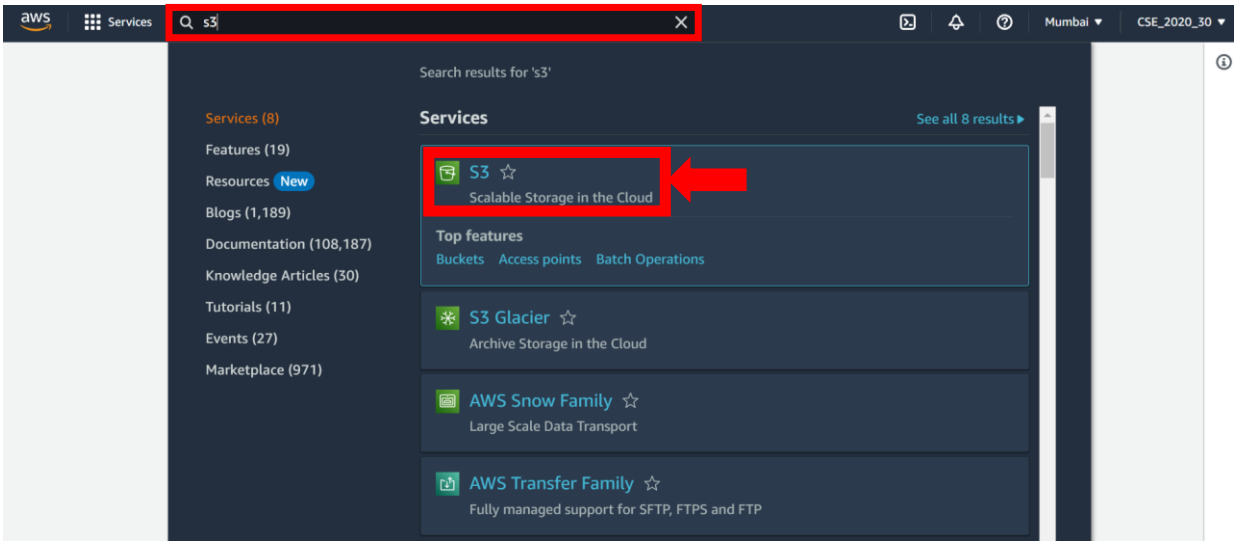
Problem Statement: Create a private bucket in AWS. Upload a file and check that through pre-signed URL whether you can access the file or not.

Procedure:

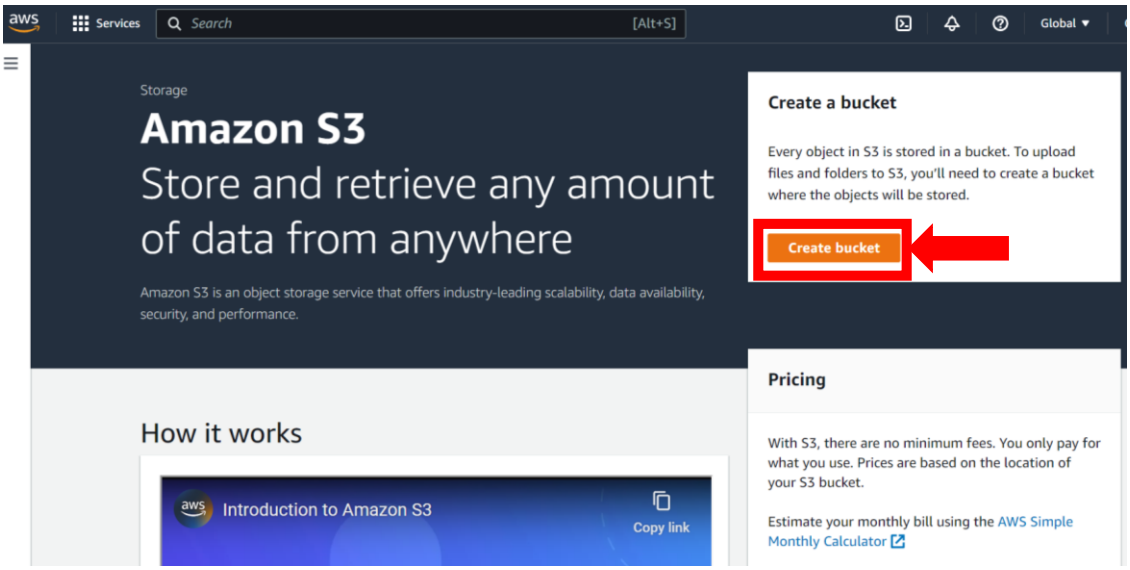
1. Sign in to your **AWS account** as **root user**.



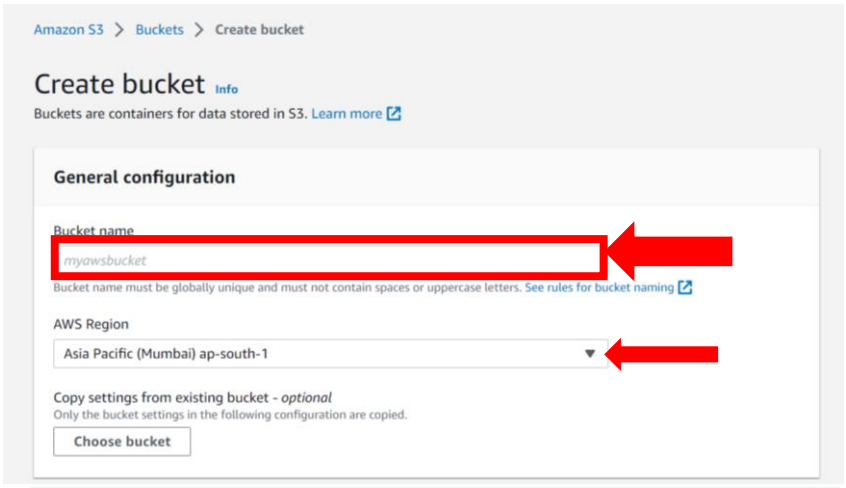
2. Now in the **homepage** search for **S3** in the **search box** and then select the first option displayed.

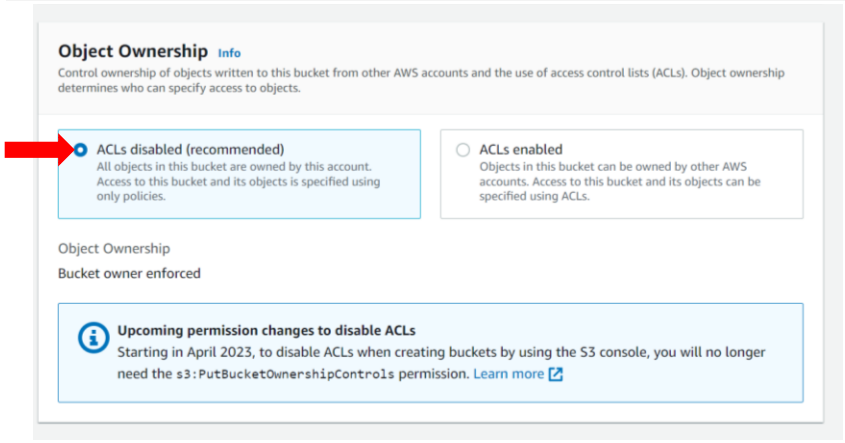


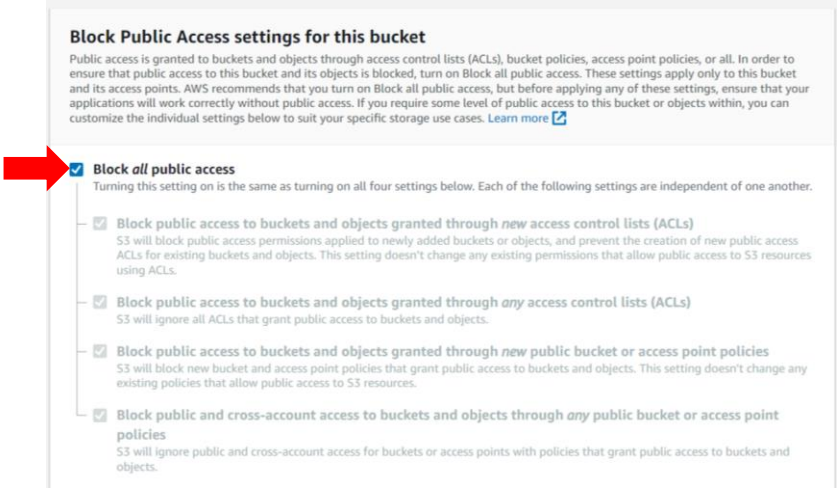
3. After clicking on it, you will be redirected to the **Amazon S3** homepage. There we have to click on the **create bucket** button on the right-hand side.

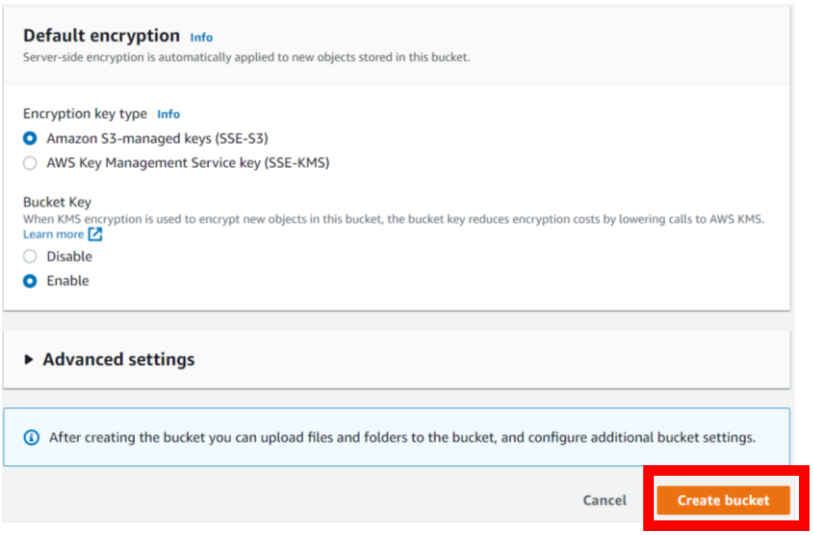


4. Next you will go to the **Create bucket screen** where you have to configure your bucket before creating it.
    a. Choose a globally unique name for your bucket. It **should NOT** contain any spaces or any uppercase letters.
    b. Select the **AWS Region** as **Asia Pacific (Mumbai) ap-south-1**. **Remember** you can avail other options but each server region has **different pricing** associated with it. Since, we are **living in India**, we are choosing the one **closest to us** to remain fairly priced.
    c. Next, we go to Object Ownership section where we keep **ACLs disabled option CHECKED** (**as it is**).
    d. Next, we keep **all public access BLOCKED** (**as it is**).
    e. Everything else remains **unchanged**.
    f. Now click on the **Create bucket** button.

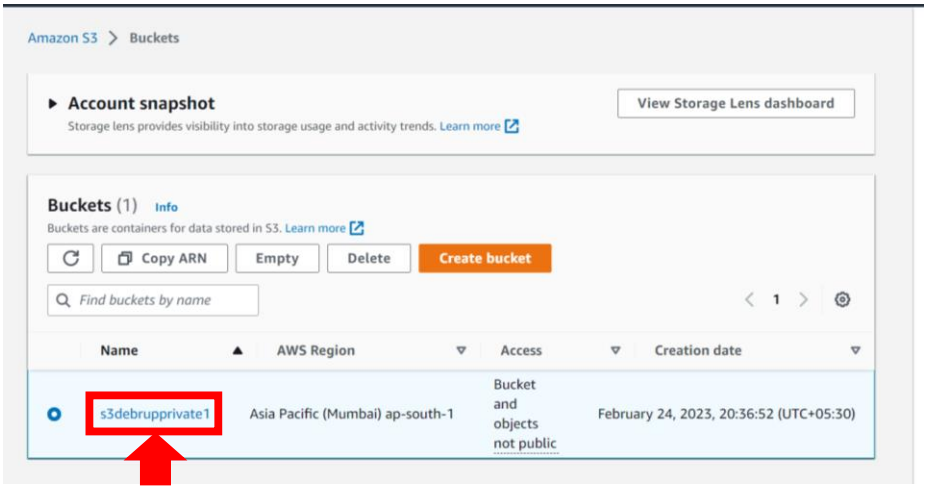




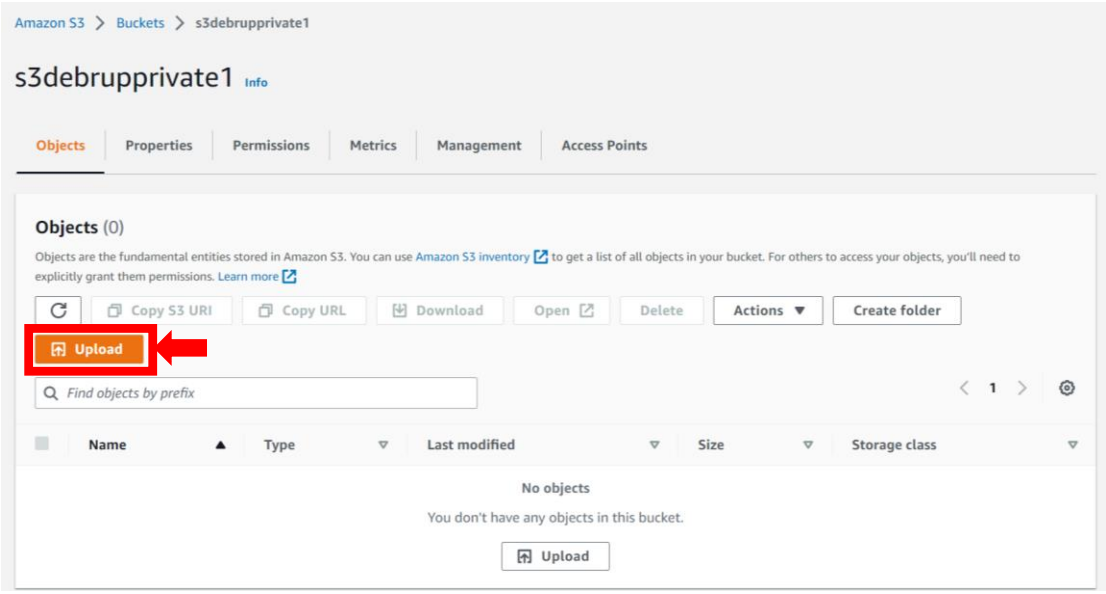




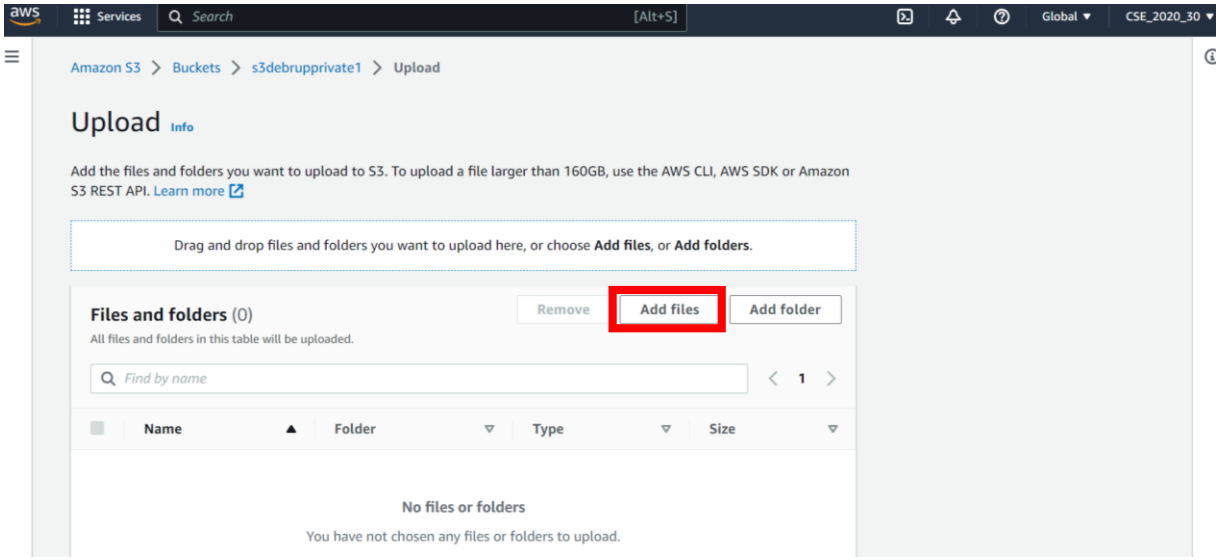
5. After that we are redirected to the buckets page where we can see all our buckets in a table format.



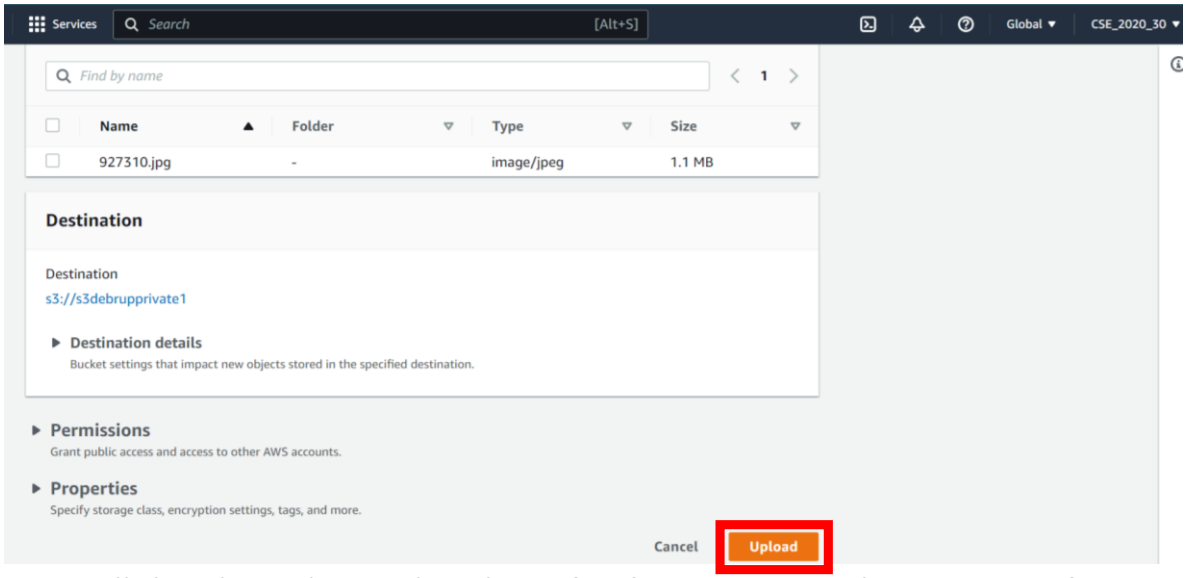
6. Now we click on our **newly created bucket** (**on the name**).
7. Now we have successfully **entered** into our newly created bucket.



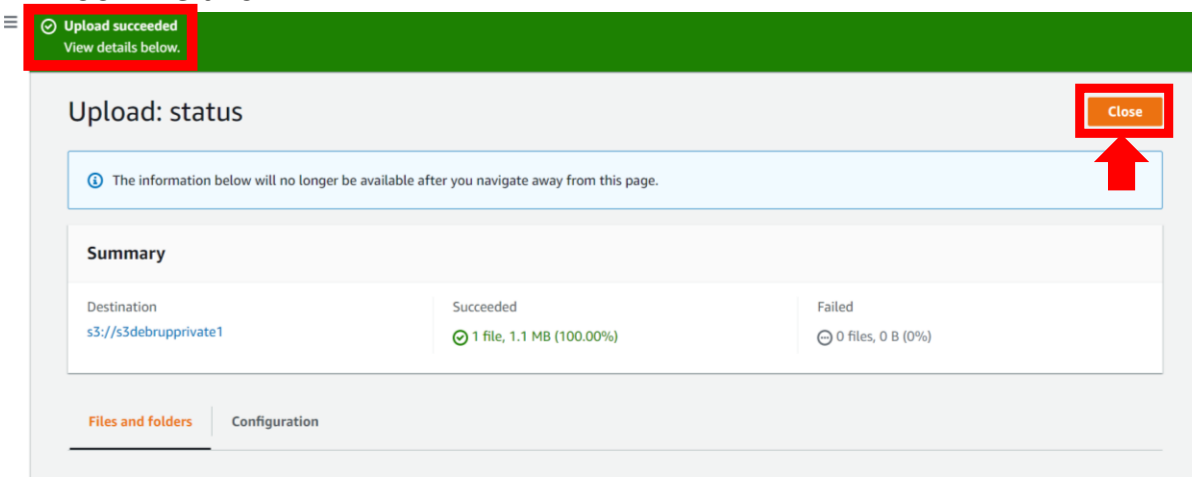
8. **Click** the **Upload** button to upload a file in our bucket.
9. After clicking you will be redirected to the Upload page. Click on **Add files** button to add a file.



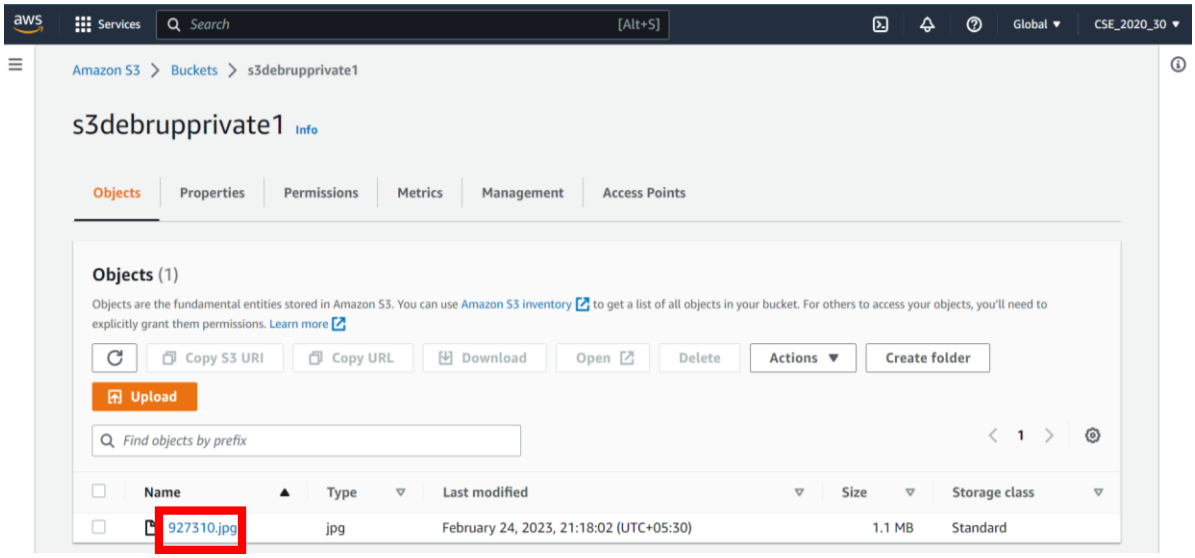
10. You will open a pop up to browse from your pc to upload a file. After selection **click** on **upload** button.



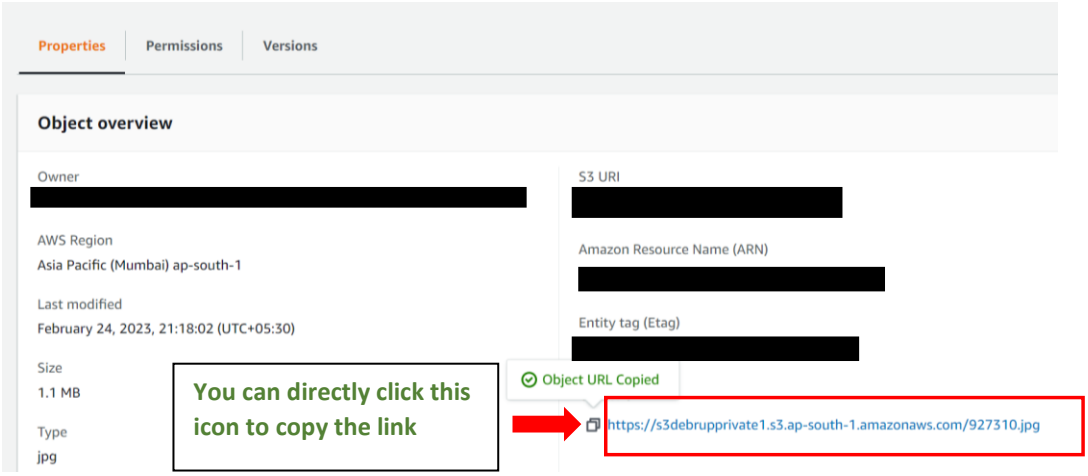
11. You will then be redirected to the **upload status page** where a **status bar** will be present showing the progress of your upload. After completion it will look like this.



12. **Close** your status page. Now in the bucket page you will see the file you have uploaded in the objects section.



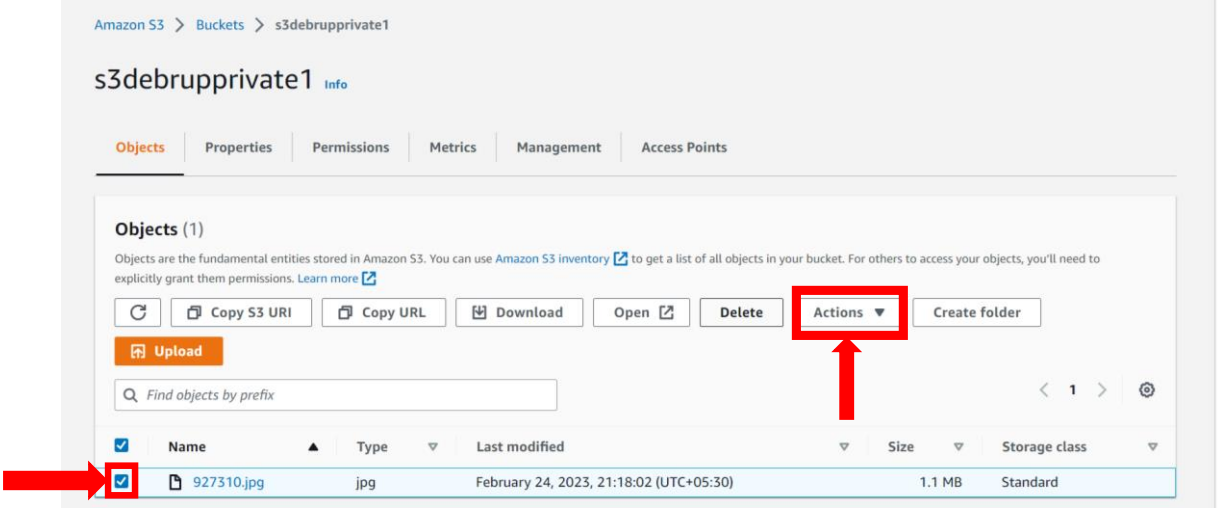
13. Now **Click** on the file.
14. Scroll down and copy the **Object URL**.



15. **Paste it** in **another browser**.
16. **IT WILL SHOW ERROR!!!!!**

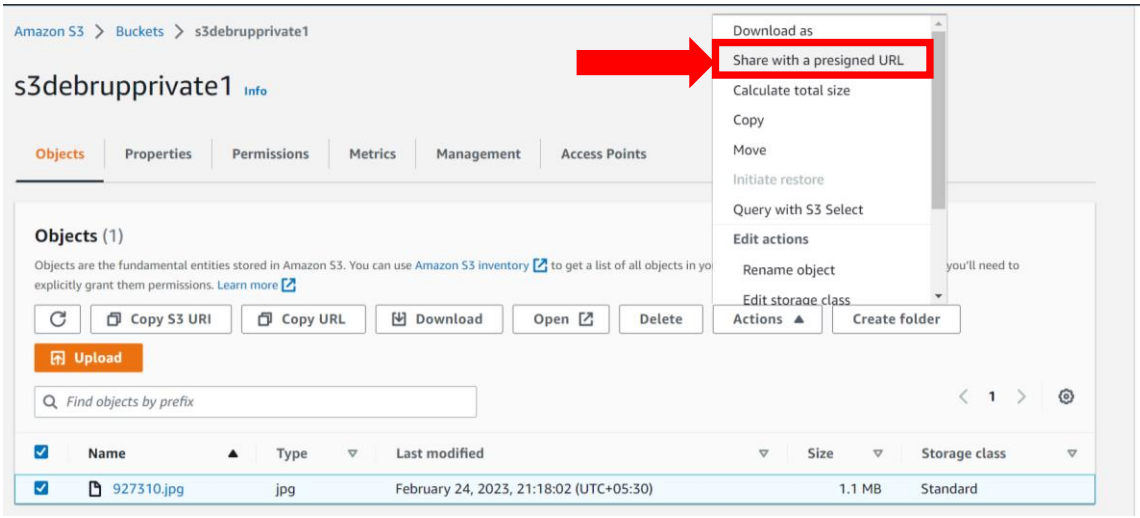
    This is because your **uploaded file** is in a **private bucket**. Hence, it **cannot be accessed** by anyone other than you. Now, **to let others access, you can only send them a pre-signed URL which remains active for a specific duration**.

17. **NOW WE WILL GENERATE A PRESIGNED URL**
18. **Go back** to the **previous page** and **select your file**.



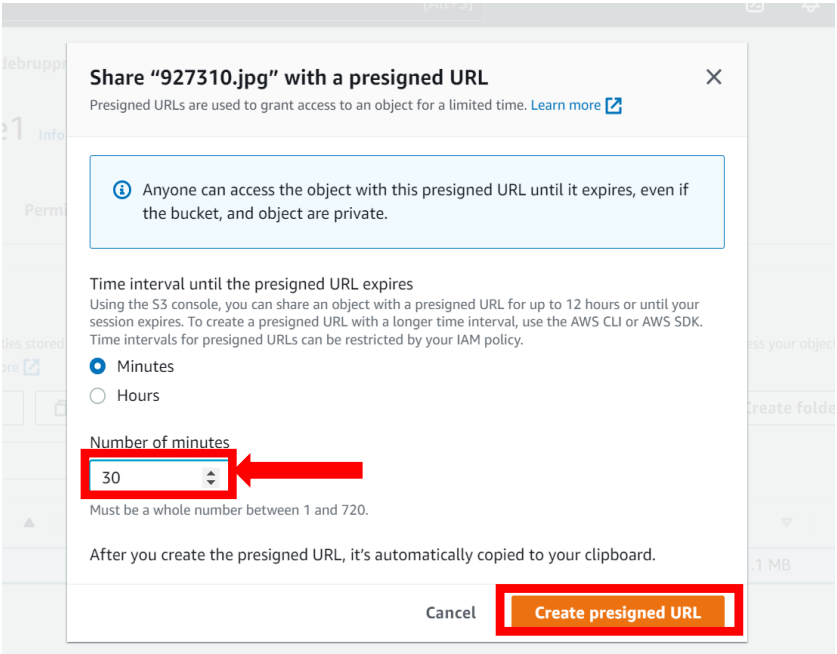
19. Next, **Click** on the **Actions** button as shown above.

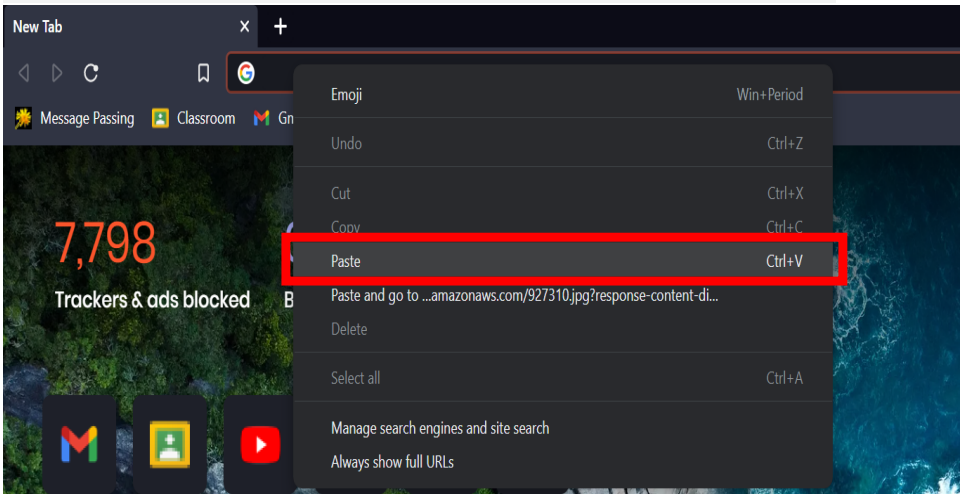
20. **Select** the “**Share with presigned URL**” option.



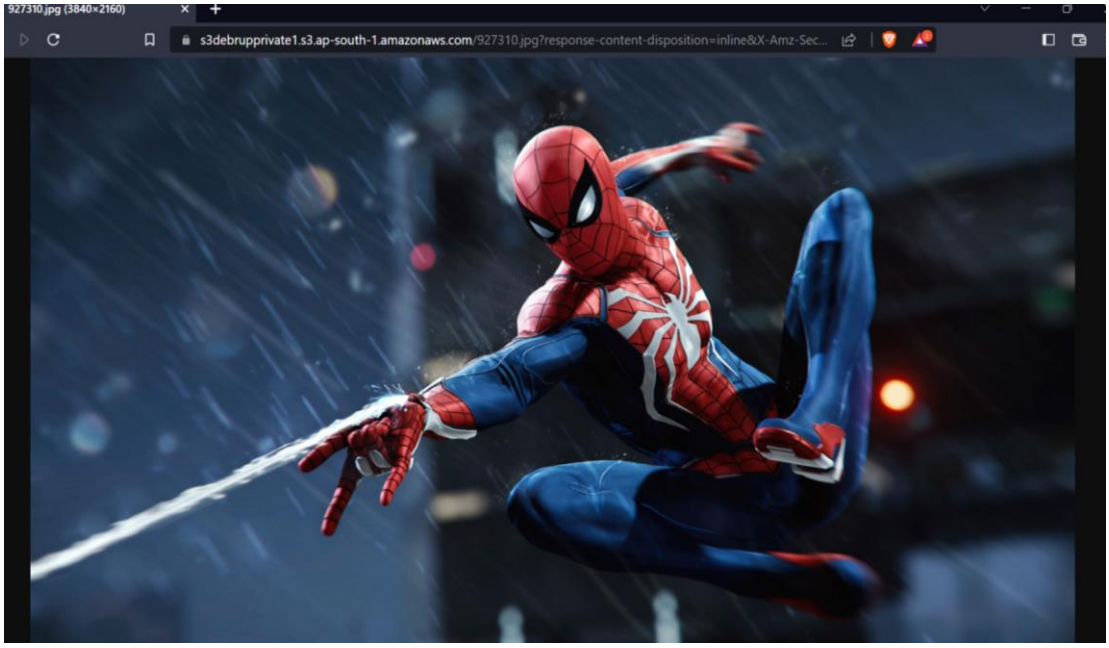
21. Now a pop-up will appear as shown below. You have to specify the **duration for which the link remains active**. Next **click** on **Create presigned URL.**

Note that after creation the URL link automatically gets copied (in your clipboard). So you do not have to manually copy it. Just right click and paste it in another browser(Or use Ctrl+V shortcut in the browser search box)





22. **After pasting the link in the bar, press Enter key.** Now we can access our file using the presigned URL.



So, our file is private and can only be accessed by those with the pre-signed URL link for a limited duration.