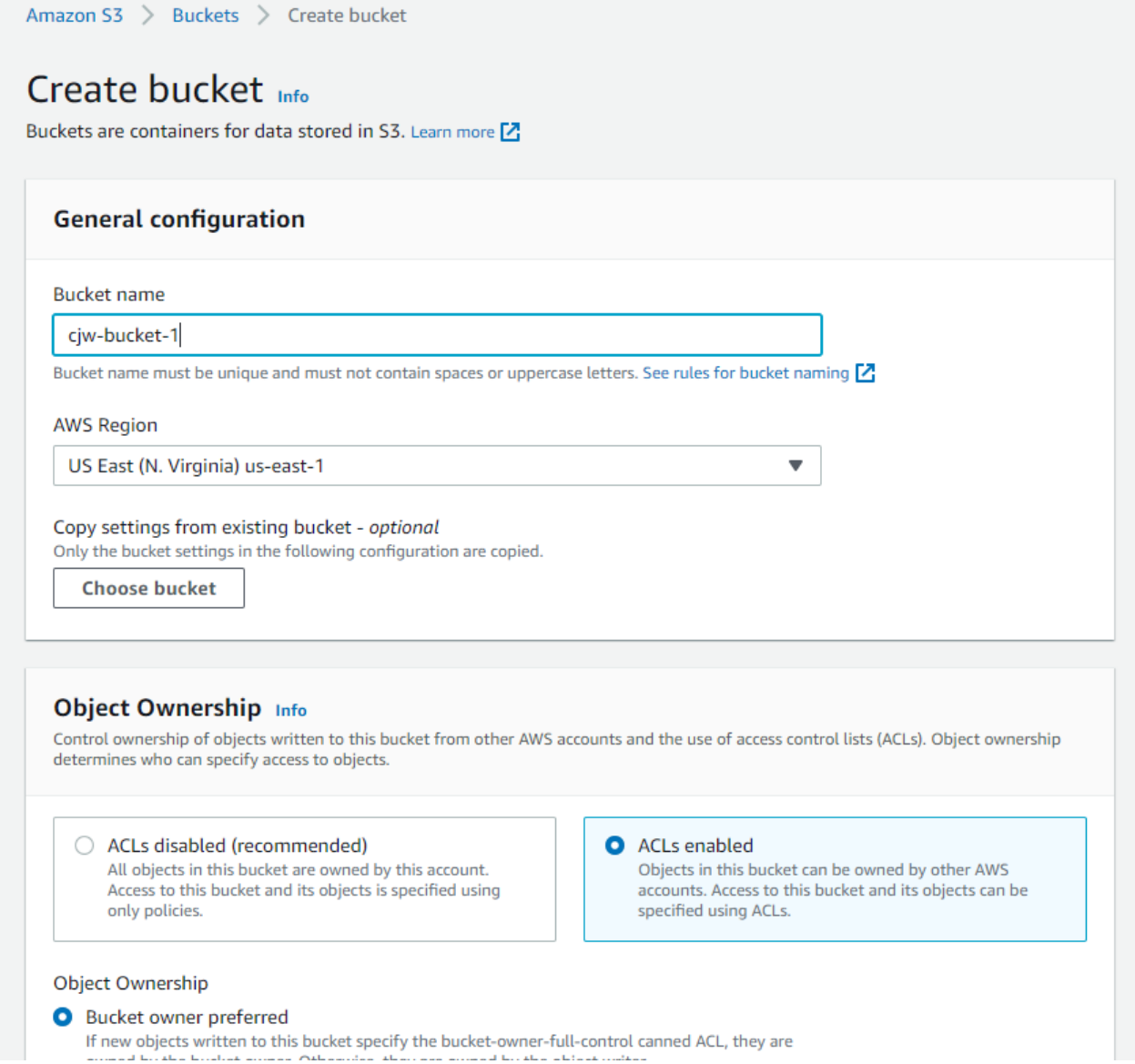
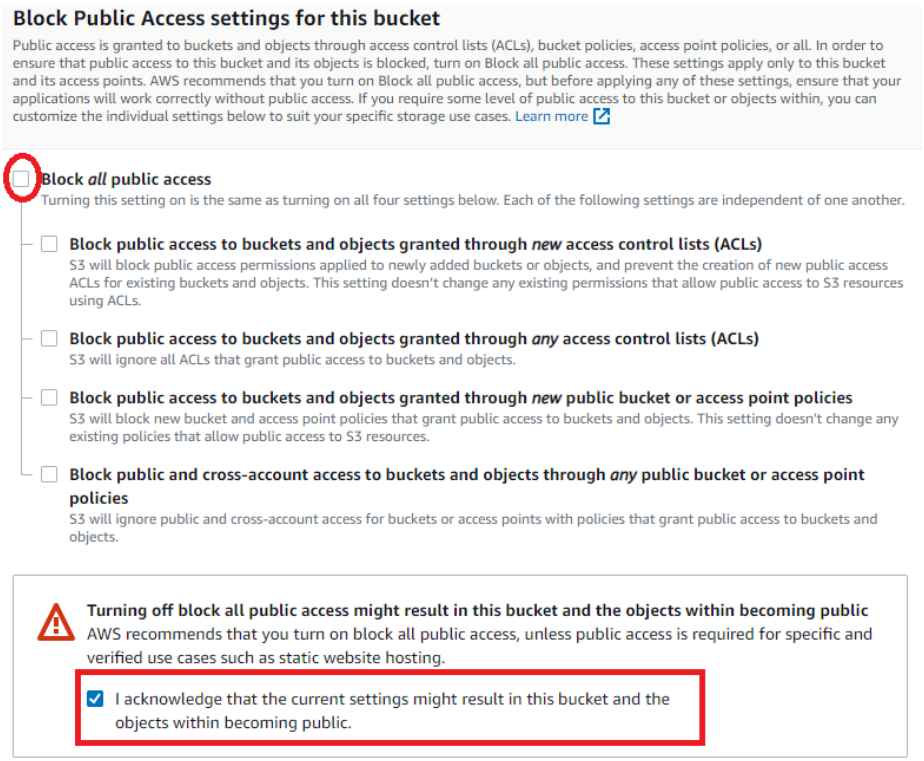
Creating Amazon S3 Buckets, Managing Objects, and Enabling Versioning

Creating a public bucket

1. Upon logging into the AWS console, go into S3 > Create Bucket
2. Remember when naming the bucket, input random string of characters to make the bucket name globally unique. Example: cjw-bucket-1



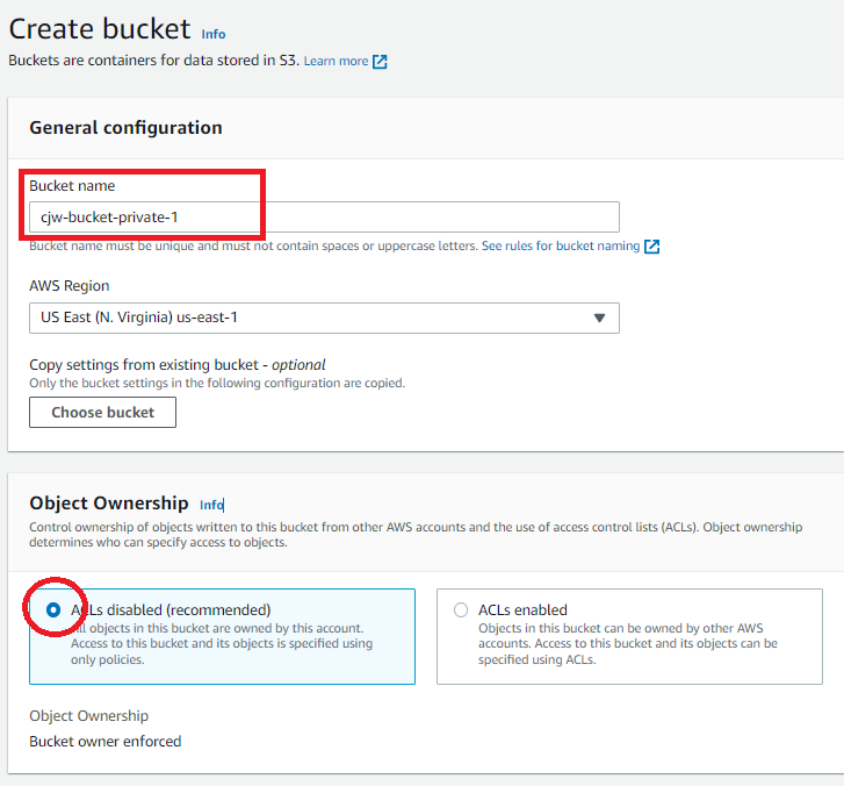
3. Unchecking the “Block all public access” makes this public. Below this, you would have to ack that you understand the bucket is going to be public.



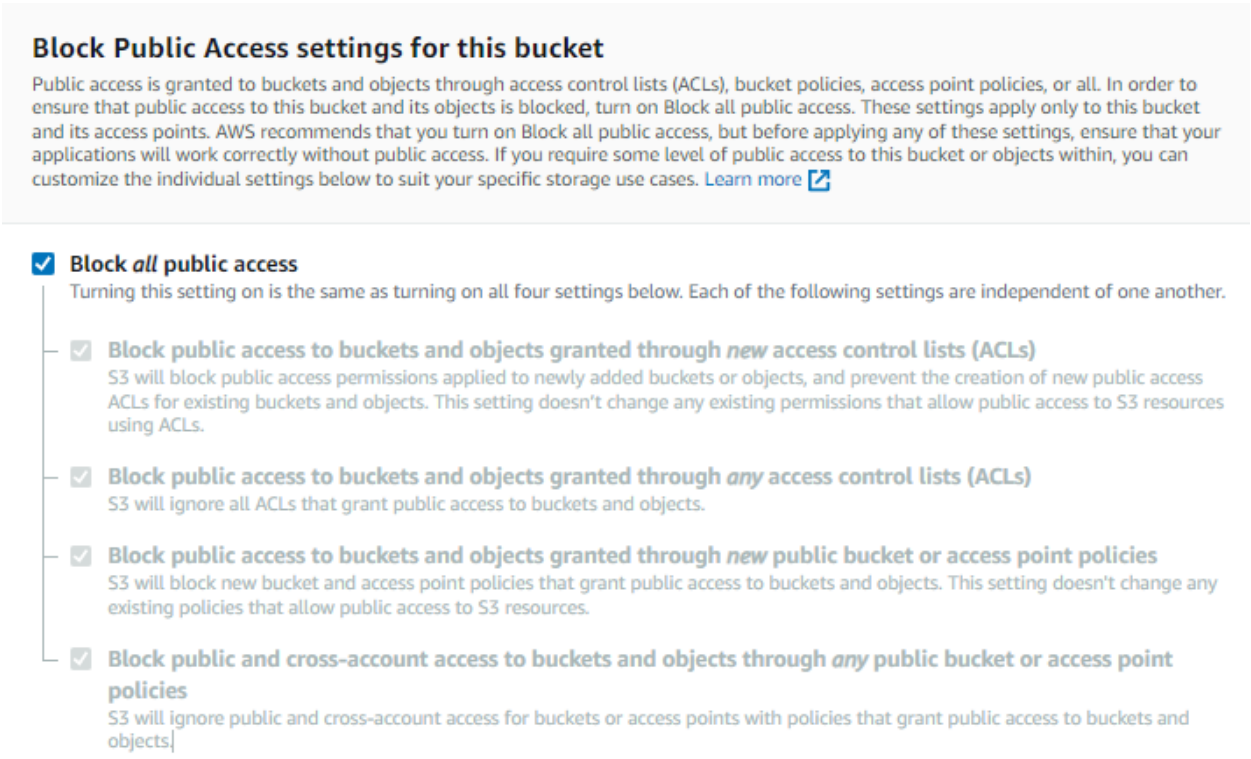
4. Create Bucket

Creating a private bucket

1. When creating a private bucket it is the same as creating a public but a few differences

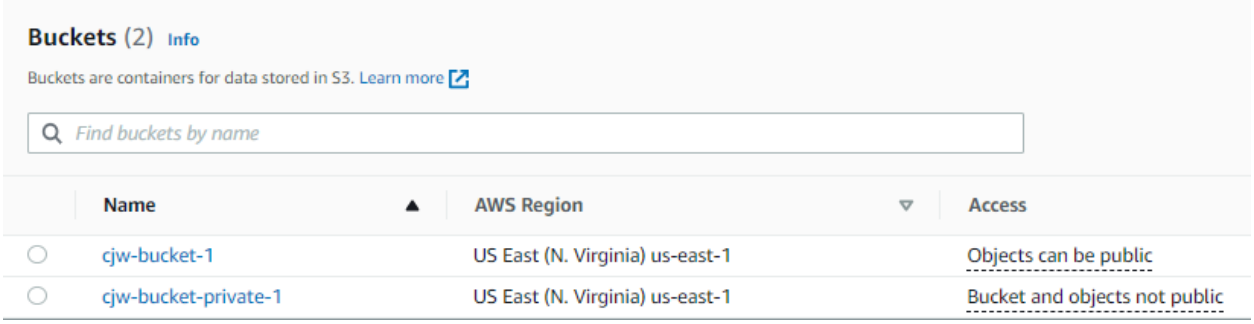


2. Keep the ACLs (Access Control List) disabled
3. Next step you would keep this selected as this will be a private bucket



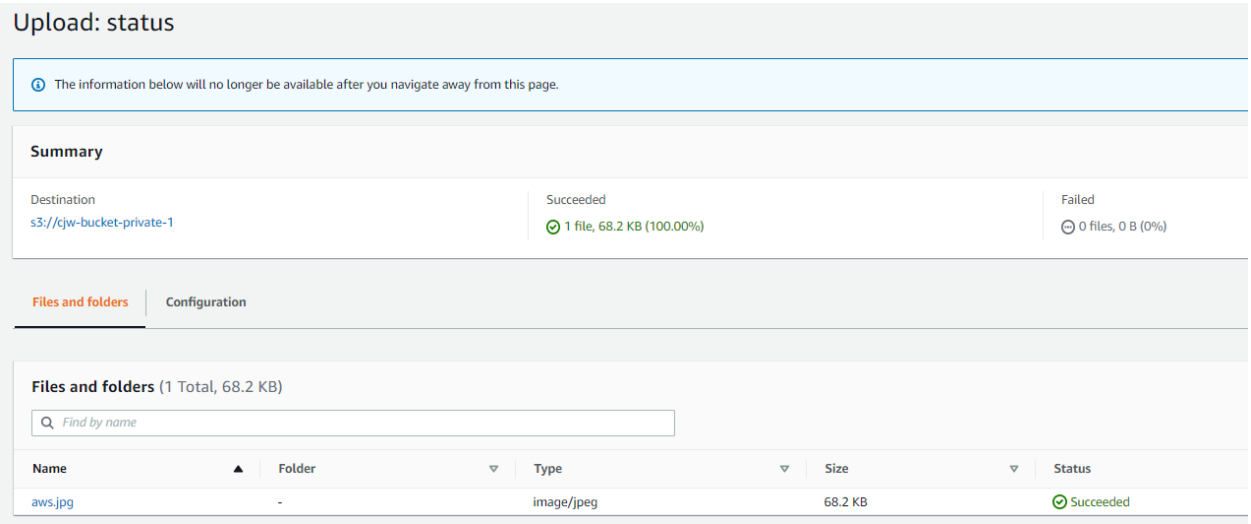
4. Keep everything else as default
5. Create Bucket

After both the public and private buckets are created they should be shown in the buckets category

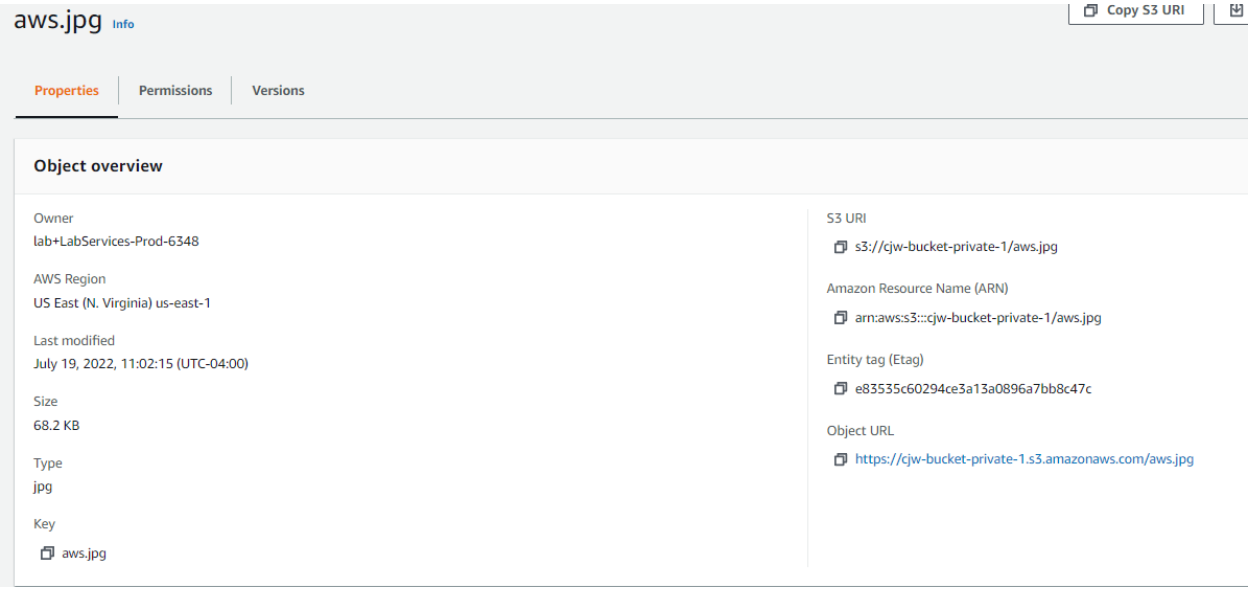


Uploading a file to the bucket

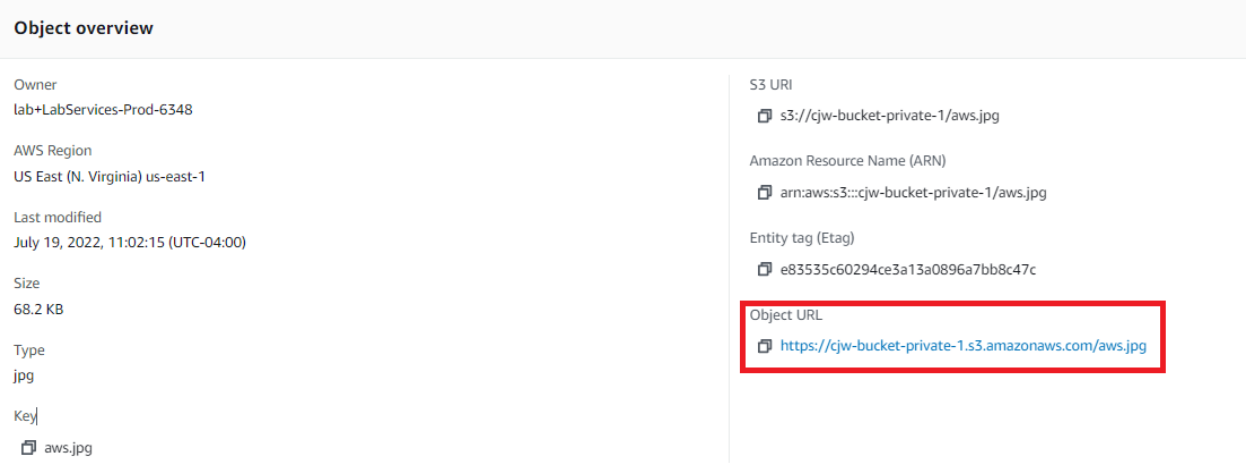
1. First we can go into the private bucket
2. Next you want to upload objects, so click the orange “upload” button
3. Once you select the file you want and click upload, it will take you to the upload status



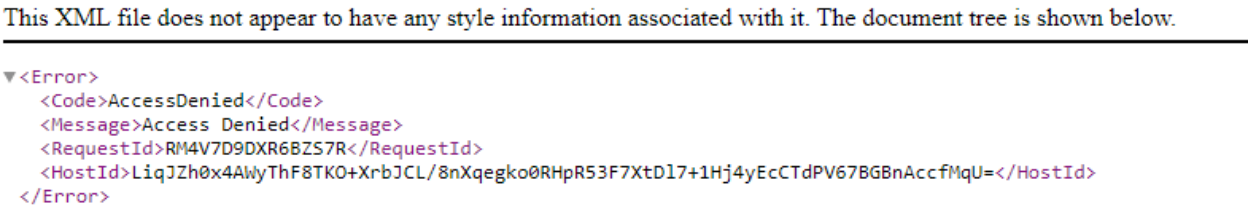
4. Here you would want to select the hyperlink on the very bottom shown in the picture above. Here it will show you the overview of the object/image you have uploaded.



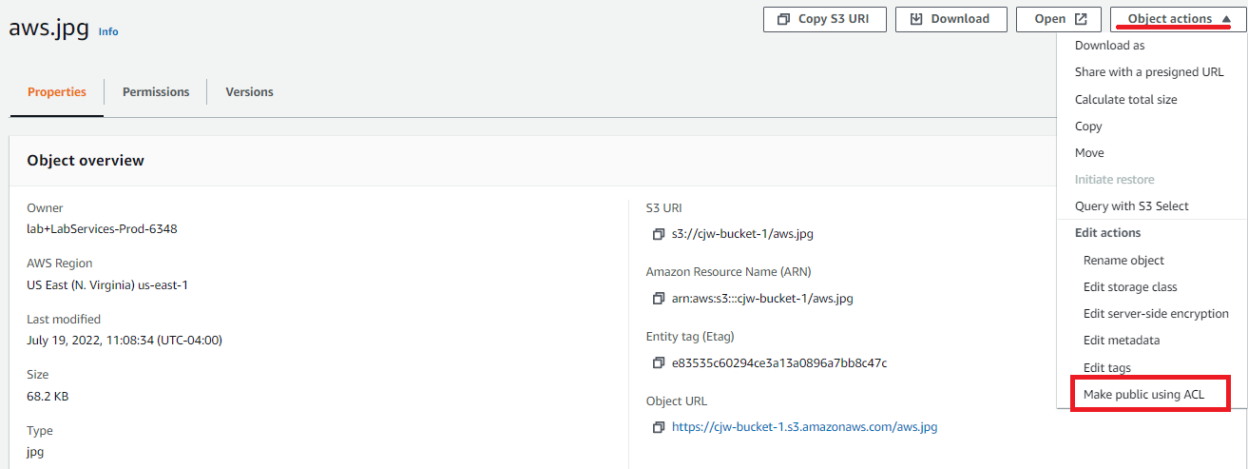
5. Down below you see the object URL, click on it.



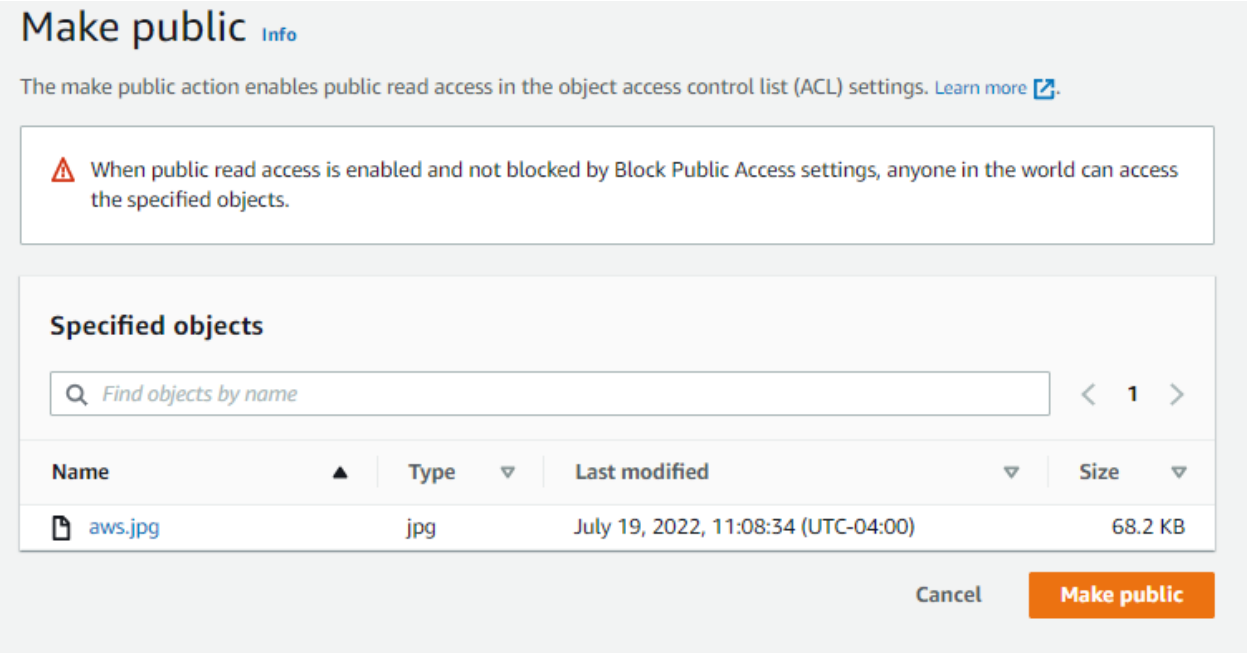
6. Once you click on it, you will notice that you have access denied because it is a private bucket



7. We can't make this public using the ACL because of the settings we implied to our bucket
8. Repeat sets 1-5 above for the public bucket
9. But you would see when clicking on the Object URL… It still gives us the access denied error.
    a. We haven't allowed access to this particular file yet
10. To make this object public, click on object actions on the far right > Make public using ACL



11. Once in there click on the orange “Make Public”



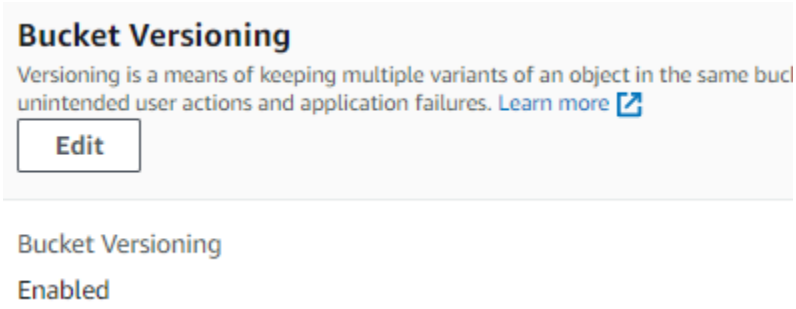
12. Once completed, go back into the object overview on the image we uploaded.
13. Once there, click on the Object URL again and you can see the image loads without any issues

Enable Object Versioning

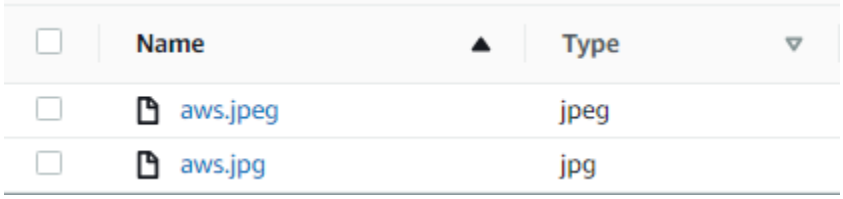
Versioning-enabled buckets can help you recover objects from accidental deletion or overwrite. For example, if you delete an object, Amazon S3 inserts a delete marker instead of removing the object permanently.

1. First step would be going into the desired bucket
2. From here, on the 6 tabs below the bucket name. Click on “Properties”

3. From there you would click on “Edit” under bucket versioning > And then enable
4. After completing that, you will see the bucket versioning is enabled.



5. Now once we upload files with the same name of an existing file, it will just add a new version to that existing file.
6. Repeat steps 1-5 on “Uploading A file to a bucket” (This will only work if it is the same format)



7. Above is an example that will not work for versioning. Once that same file with the same file name is uploaded repeat steps 9-12 on “Uploading A file to a bucket”
8. Once reviewing the objects you would then see there are different versions but in order to see the 2nd file you would have to make that public as well.