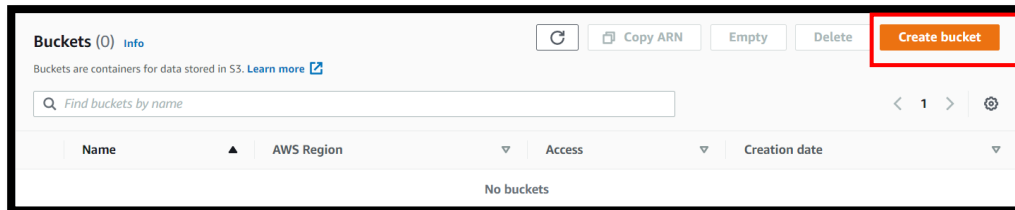


Enable version control on S3 bucket & understand the S3 behaviour.

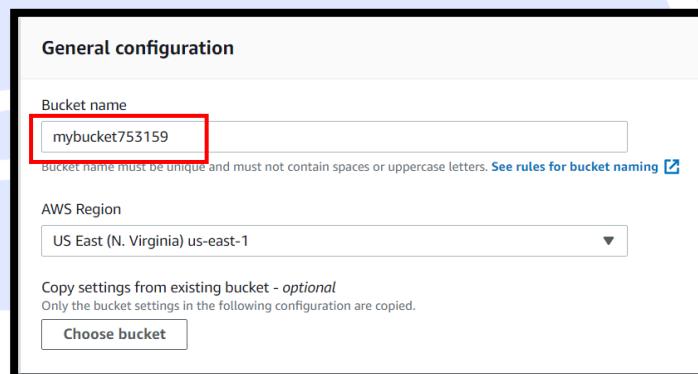
Step 1: In AWS console go to **S3** services. Select **Buckets** and click on **Create bucket**.



Step 2: Give a bucket name.

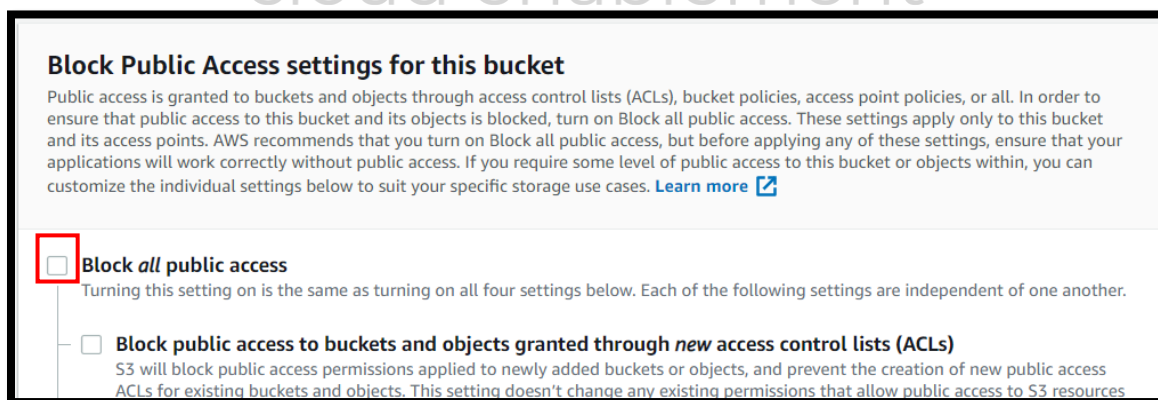
Here **mybucket753159** is a random name chosen for your bucket.

You may have to try giving a different name if your required bucket name is already being used by some other AWS user.



The screenshot shows the 'General configuration' form for creating an S3 bucket. The 'Bucket name' field is highlighted with a red rectangular box and contains the text 'mybucket753159'. Below it, a message states: 'Bucket name must be unique and must not contain spaces or uppercase letters. See rules for bucket naming'. The 'AWS Region' dropdown is set to 'US East (N. Virginia) us-east-1'. There is a section for 'Copy settings from existing bucket - optional' with a 'Choose bucket' button.

Uncheck the **Block all public access** box and **acknowledge**.



The screenshot shows the 'Block Public Access settings for this bucket' section. It contains a paragraph explaining public access settings. Below the text, there are two checkboxes. The first checkbox, labeled 'Block all public access', is highlighted with a red rectangular box and is currently unchecked. The second checkbox, labeled 'Block public access to buckets and objects granted through new access control lists (ACLs)', is also unchecked. The text below the second checkbox states: 'S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources'.

Cloud Plus Plus Services



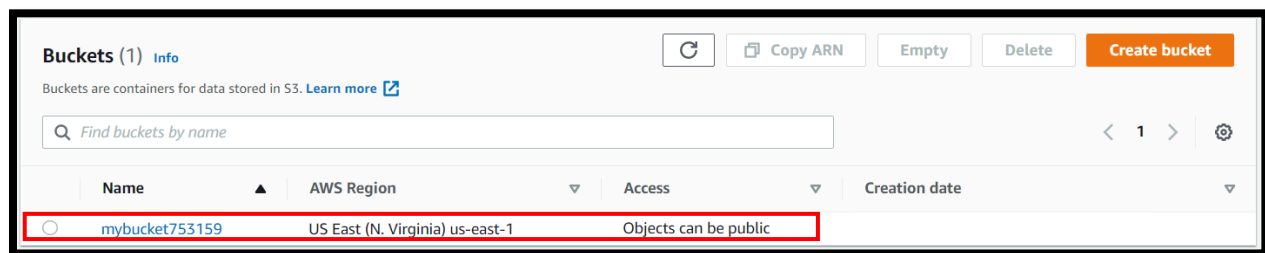
Turning off block all public access might result in this bucket and the objects within becoming public
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.



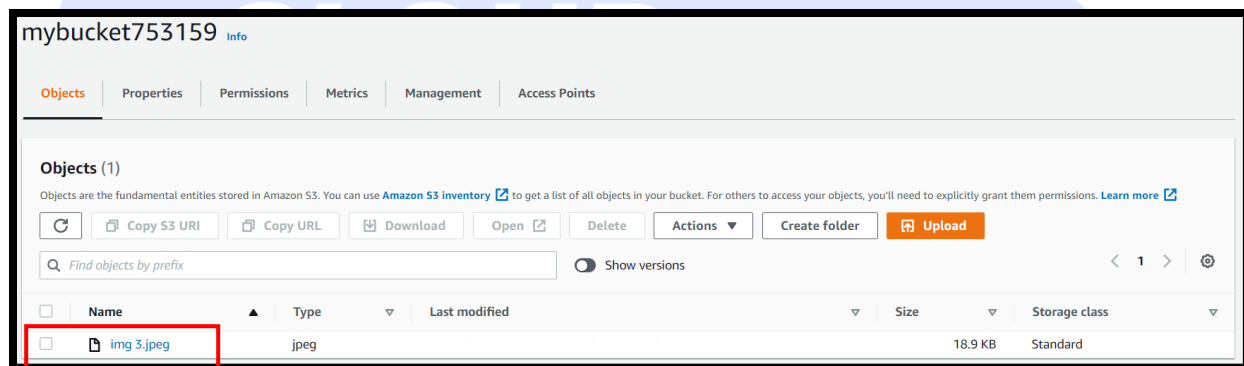
I acknowledge that the current settings might result in this bucket and the objects within becoming public.

Click on **Create bucket** in bottom.

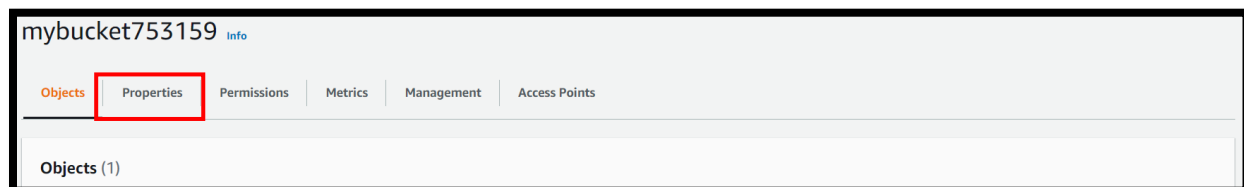
Check your created bucket.



Step 3: Click on Bucket and open, Upload an image file in the bucket.

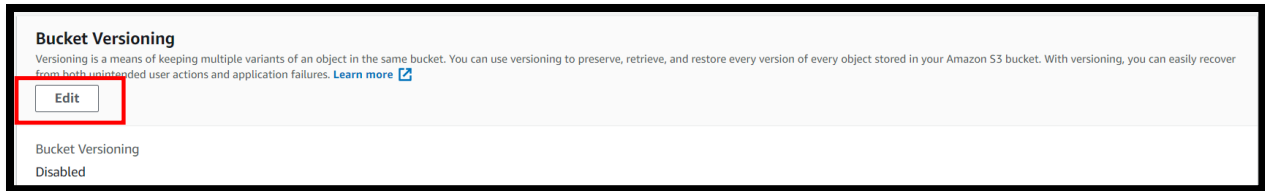


Step 4: Now click **Properties**.

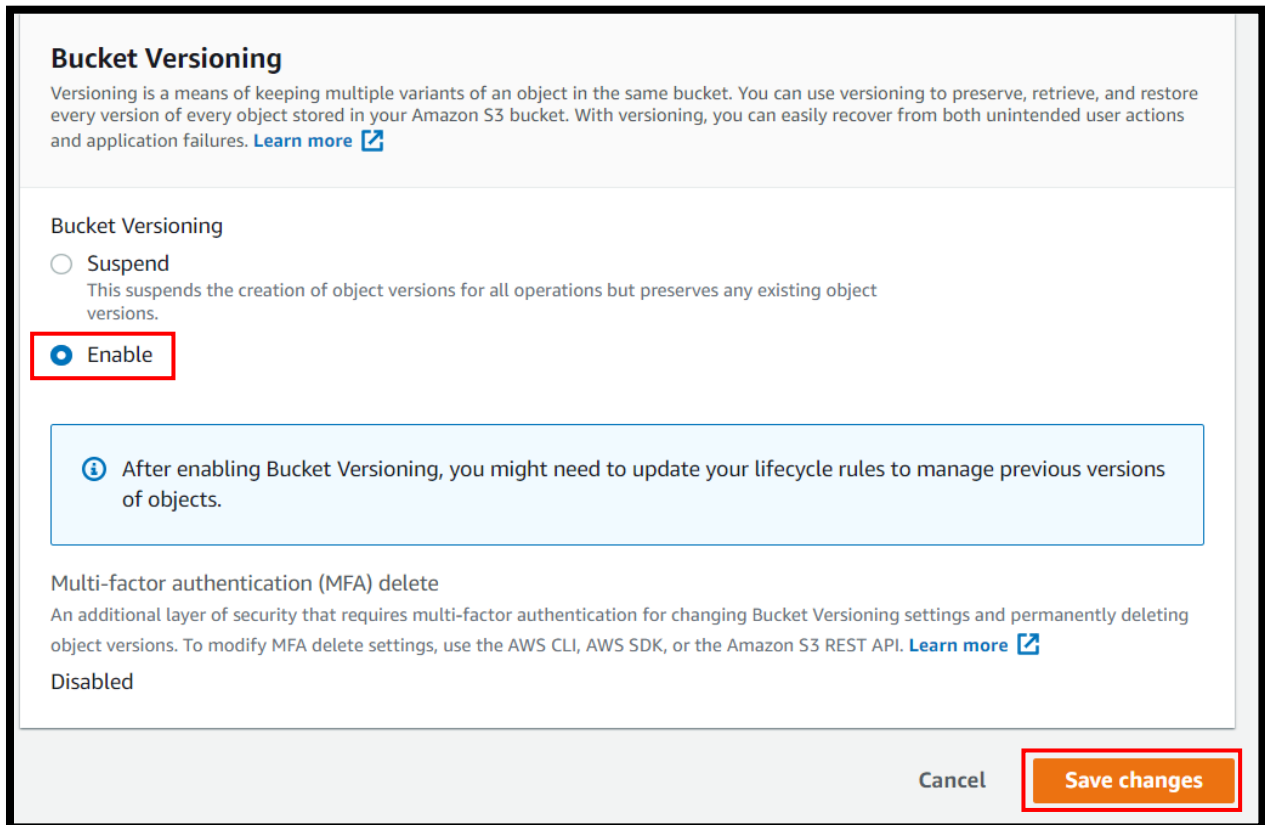


Under Bucket Versioning click **Edit**.

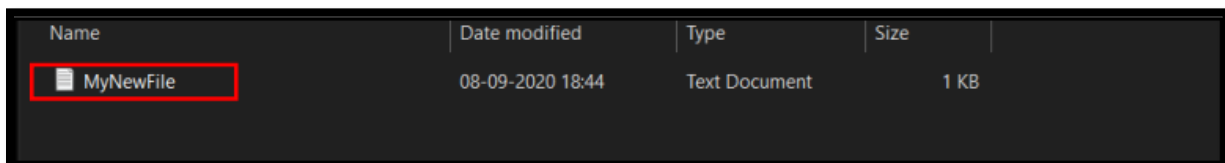
Cloud Plus Plus Services



Enable bucket versioning and click on **save changes**.



Step 5: Create a new text file on your local drive for testing purposes.



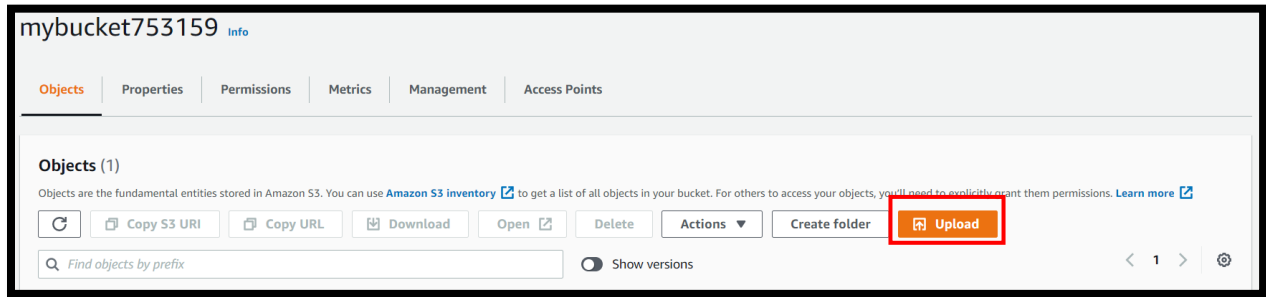
Open this file and type "This is the first version". Save this file.



Cloud Plus Plus Services

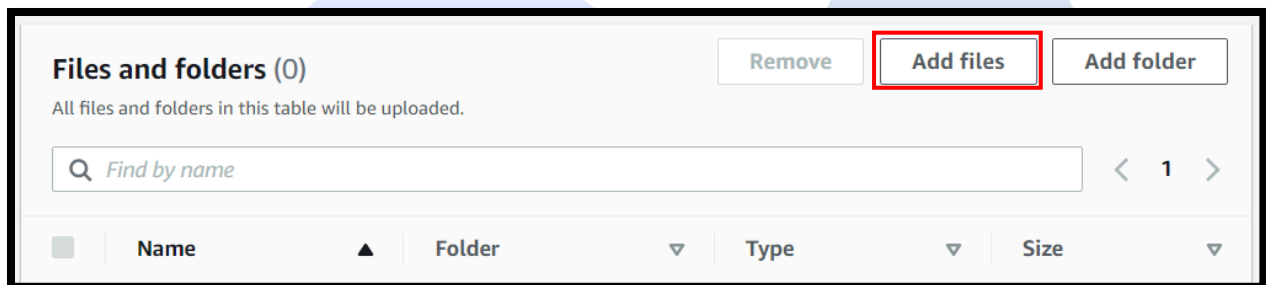


Step 6: Go to your buckets window and click on **Upload**.



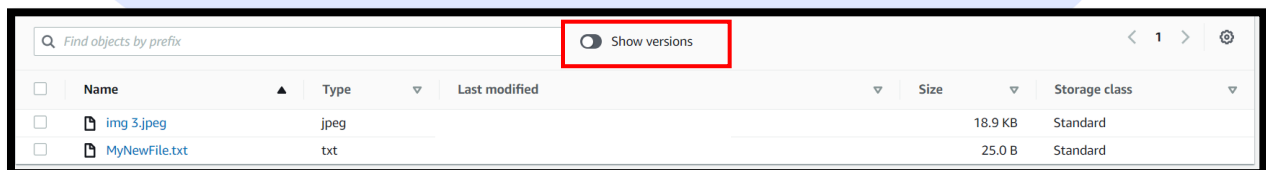
Click on **Add files**. Locate the file on your local drive and open it.

Click on **Upload** button in bottom right corner.

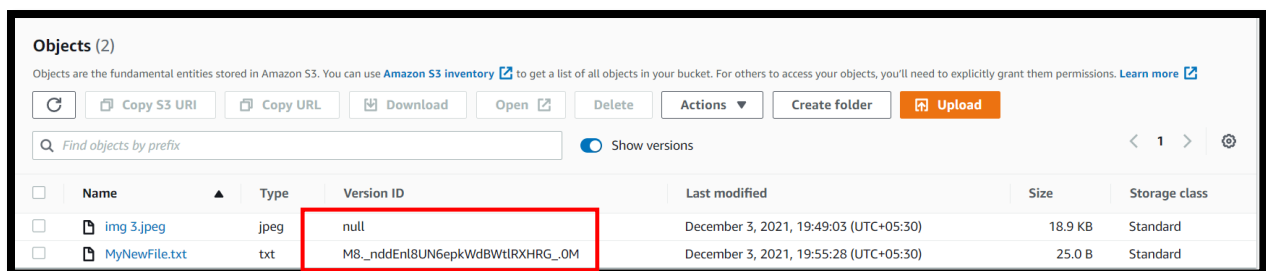


Your file would be visible in the bucket.

The **Show Versions** button is visible in the overview. **Enable** it.



Here we observe that the IMG file does not have a Version ID. It has a **null value**. Whereas, the **MyNewFile** has a **Version ID** because it was uploaded after the **versioning was enabled**.



Cloud Plus Plus Services

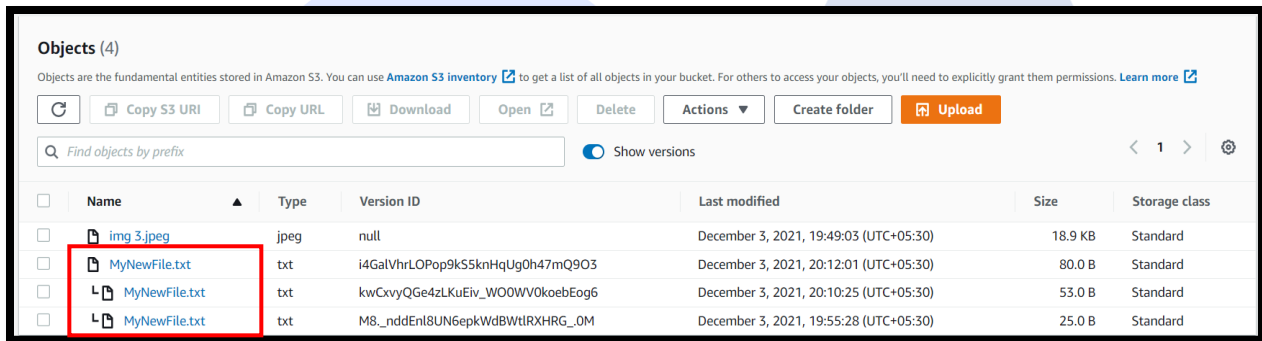


Step 7: Open the text file on your local drive and update the file with a new line:
This is the second version.



Save this file without changing the file name. Upload the file into the bucket. Follow **Step 6.**

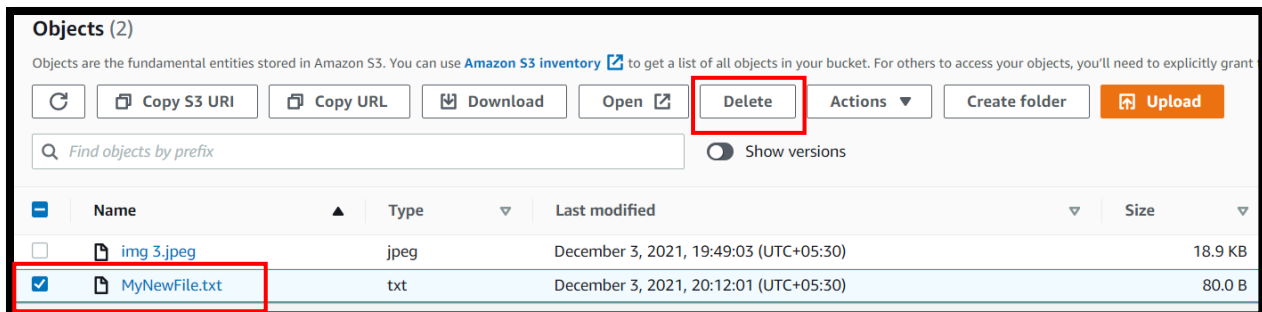
Similarly upload the file with a **third version.**



The first version and second version can be seen under the third version which is the **latest version.**

Disable Show versions option.

Step 8: Select this **MyNewFile** and click on Delete.



Confirm deletion and delete the object.

Cloud Plus Plus Services



Delete objects?

To confirm deletion, type *delete* in the text input field.

CancelDelete objects

Step 9: Enable **Show Versions** option. The latest file has a **(Delete marker)** which states that the file is not accessible readily and hence was not visible when the Versions were hidden.

<div><div><div></div><div>Find objects by prefix</div></div><div><div>Show versions</div></div></div>				<div><div><</div><div>1</div><div>></div></div> <div><div></div><div></div></div>		
<div><input type="checkbox"/></div>	<div>Name</div>	<div>Type</div>	<div>Version ID</div>	<div>Last modified</div>	<div>Size</div>	<div>Storage class</div>
<div><input type="checkbox"/></div>	<div><div><div></div><div>img 3.jpeg</div></div></div>	<div>jpeg</div>	<div>null</div>	<div>December 3, 2021, 19:49:03 (UTC+05:30)</div>	<div>18.9 KB</div>	<div>Standard</div>
<div><input type="checkbox"/></div>	<div><div><div></div><div>MyNewFile.txt</div></div></div>	<div>Delete marker</div>	<div>pnLAZm2VBqx40uMFcucdrYSsnU9kw7aD</div>	<div>December 3, 2021, 20:23:41 (UTC+05:30)</div>	<div>0 B</div>	<div>-</div>
<div><input type="checkbox"/></div>	<div><div><div></div><div>MyNewFile.txt</div></div></div>	<div>txt</div>	<div>i4GalVhrLOPop9kS5knHqUg0h47mQ9O3</div>	<div>December 3, 2021, 20:12:01 (UTC+05:30)</div>	<div>80.0 B</div>	<div>Standard</div>
<div><input type="checkbox"/></div>	<div><div><div></div><div>MyNewFile.txt</div></div></div>	<div>txt</div>	<div>kwCxvyQGe4zLKuEiv_WOOWV0koebEog6</div>	<div>December 3, 2021, 20:10:25 (UTC+05:30)</div>	<div>53.0 B</div>	<div>Standard</div>
<div><input type="checkbox"/></div>	<div><div><div></div><div>MyNewFile.txt</div></div></div>	<div>txt</div>	<div>M8_nddEnl8UN6epkWdBWtIRXHRG_OM</div>	<div>December 3, 2021, 19:55:28 (UTC+05:30)</div>	<div>25.0 B</div>	<div>Standard</div>

You can download any of these file versions, restore the file and thus maintain the Data Security even after deletion.

Objects (5)						
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more						
Find objects by prefix		Show versions				
<input type="checkbox"/>	Name	Type	Version ID	Last modified	Size	Storage class
<input type="checkbox"/>	img 3.jpeg	jpeg	null	December 3, 2021, 19:49:03 (UTC+05:30)	18.9 KB	Standard
<input type="checkbox"/>	MyNewFile.txt	Delete marker	pnLAZm2VBqx40uMFcucdrYSsnU9kw7aD	December 3, 2021, 20:23:41 (UTC+05:30)	0 B	-
<input checked="" type="checkbox"/>	MyNewFile.txt	txt	i4GalVhrLOPop9kS5knHqUg0h47mQ9O3	December 3, 2021, 20:12:01 (UTC+05:30)	80.0 B	Standard
<input type="checkbox"/>	MyNewFile.txt	txt	kwCxvyQGe4zLKuEiv_WOOWV0koebEog6	December 3, 2021, 20:10:25 (UTC+05:30)	53.0 B	Standard
<input type="checkbox"/>	MyNewFile.txt	txt	M8_nddEnl8UN6epkWdBWtIRXHRG_OM	December 3, 2021, 19:55:28 (UTC+05:30)	25.0 B	Standard

Note: Delete the S3 bucket if you no longer need to use it.

Document Created by	Version
Parag Deshpande	05-Oct-2020
Parag Deshpande	08-Sept-2020
Shruti Dhongade	03-Dec-2021