

## Assignment 6

**Q)Write any application(web/hpc) of your choice which supports google cloud platform PaaS). Document the code with supporting screenshots.**

To deploy a web page to AWS, you can use the Amazon Simple Storage Service (S3) as a hosting platform. Here is an overview of the steps you can follow to deploy your web page to S3:

1. Create an AWS account. If you don't already have an AWS account, you will need to create one in order to use the S3 service. You can create an AWS account by visiting the AWS website and following the prompts.
2. Create an S3 bucket. An S3 bucket is a logical container for storing objects in S3. To create an S3 bucket, you can use the AWS Management Console, the AWS CLI, or the S3 API.
3. Upload your web page to the S3 bucket. You can use the AWS Management Console, the AWS CLI, or the S3 API to upload your web page and any other assets (such as images, JavaScript files, and CSS files) to the S3 bucket.
4. Configure the S3 bucket to host a static website. To serve your web page as a static website, you will need to enable static website hosting for the S3 bucket and specify the name of the HTML file that will be used as the index document.
5. Test the website. Once you have configured the S3 bucket to host a static website, you can test the website by visiting the website endpoint URL provided by S3. The website endpoint URL will be in the format `http://<bucket-name>.s3-website.<region>.amazonaws.com`, where `<bucket-name>` is the name of your S3 bucket and `<region>` is the region where your bucket is located.

Here are more detailed instructions for each step:

### Step 1: Create an AWS account

1. Go to the AWS homepage and click the "Create a free account" button.
2. Follow the prompts to create an AWS account. You will need to provide your email address, password, and billing information.
3. Once you have created your account, sign in to the AWS Management Console.

### Step 2: Create an S3 bucket

1. In the AWS Management Console, navigate to the S3 service.
2. Click the "Create bucket" button.
3. Enter a unique name for your bucket and select a region for the bucket.
4. Click the "Create" button to create the bucket.

### Step 3: Upload your web page to the S3 bucket

1. In the AWS Management Console, navigate to the S3 service.
2. Click on the name of your S3 bucket.
3. Click the "Upload" button. Click the "Add files" button and select your web page and any other assets you want to upload.
4. Click the "Start upload" button to begin the upload process.

### Step 4: Configure the S3 bucket to host a static website

1. In the AWS Management Console, navigate to the S3 service.
2. Click on the name of your S3 bucket.
3. Click the "Properties" tab and then click the "Static website hosting" option.
4. Select the "Use this bucket to host a website" option.
5. Enter the name of the HTML file that will be used as the index document in the "Index document" field.
6. Click the "Save".

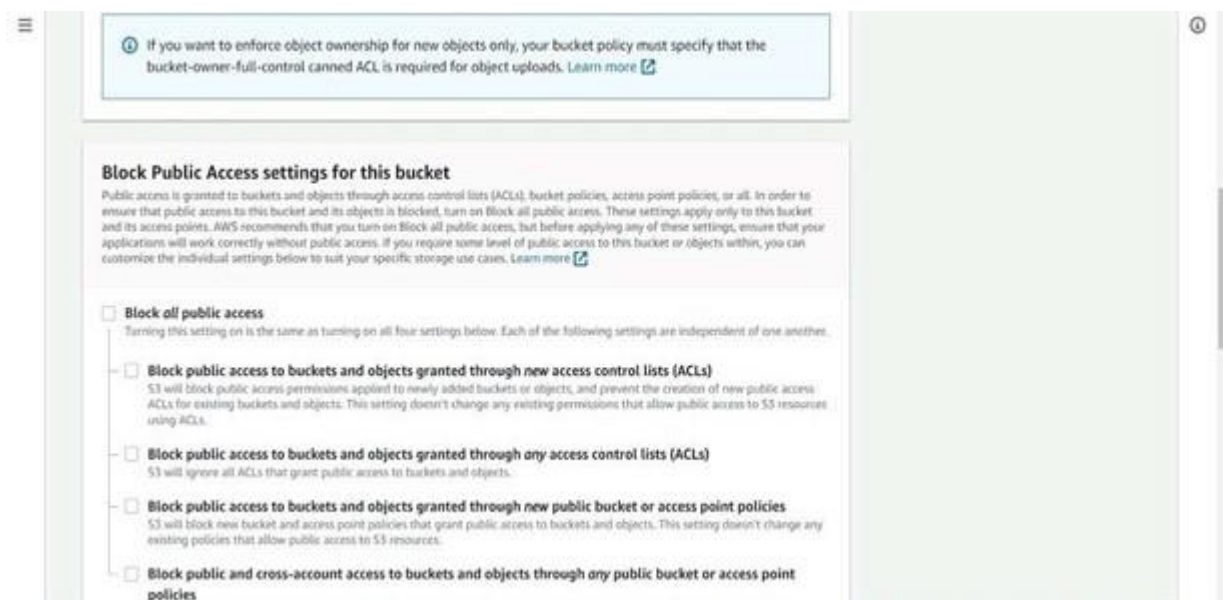
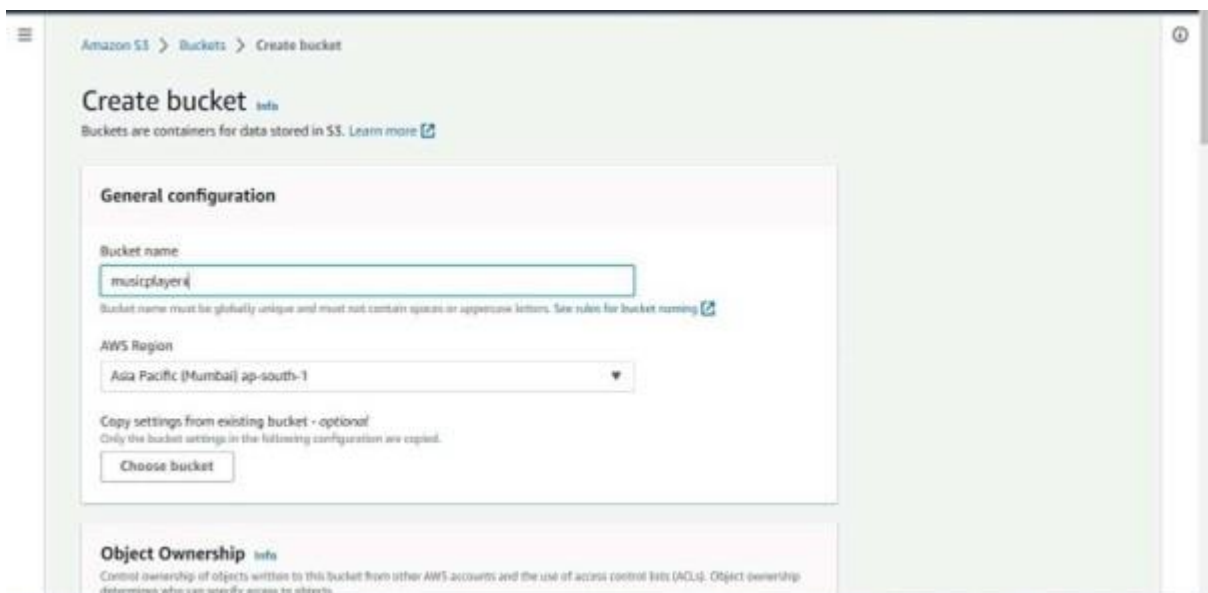
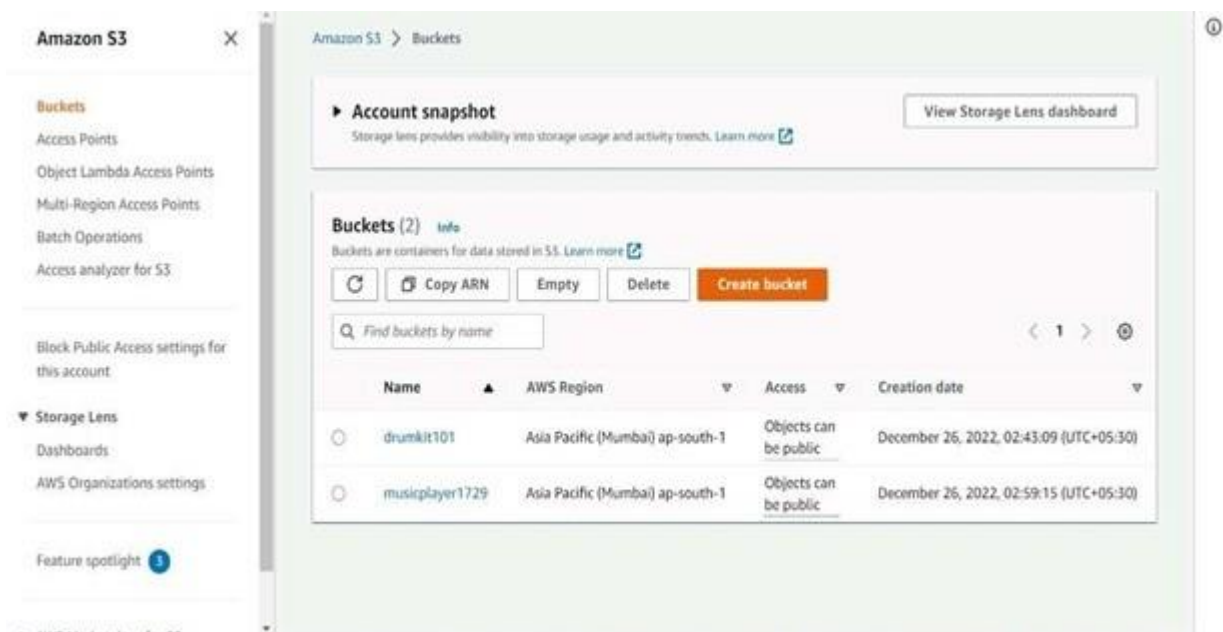
After clicking the "Save" button in the process of configuring the S3 bucket to host a static website, the changes you made will be saved and the S3 bucket will be configured to host a static website.

Once the S3 bucket is configured to host a static website, you can access the website by visiting the website endpoint URL provided by S3. The website endpoint URL will be in the format `http://<bucket-name>.s3-website.<region>.amazonaws.com`, where `<bucket-name>` is the name of your S3 bucket and `<region>` is the region where your bucket is located.


For example, if your bucket name is "my-website" and the region is "us-east-1", the website endpoint URL would be : `http://musicplayer1729.s3-website.ap-south-1.amazonaws.com/`

Here are some screenshots that illustrate the process of configuring an S3 bucket to host a static website using the AWS Management Console:





**policies**  
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.



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.

**Bucket Versioning**  
Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning:

☒ Disable

☐ Enable

**Tags (0) - optional**  
You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

No tags associated with this bucket.

[Add tag](#)

**Default encryption**  
Automatically encrypt new objects stored in this bucket. [Learn more](#)

Server-side encryption:

☒ Disable

☐ Enable

► **Advanced settings**

After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

[Cancel](#) [Create bucket](#)

**Amazon S3**

- Buckets
- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- Access analyzer for S3
- Block Public Access settings for this account
- Storage Lens
  - Dashboards
  - AWS Organizations settings
- Feature spotlight

**Successfully created bucket "musicplayerx"**

To upload files and folders, or to configure additional bucket settings choose [View details](#).

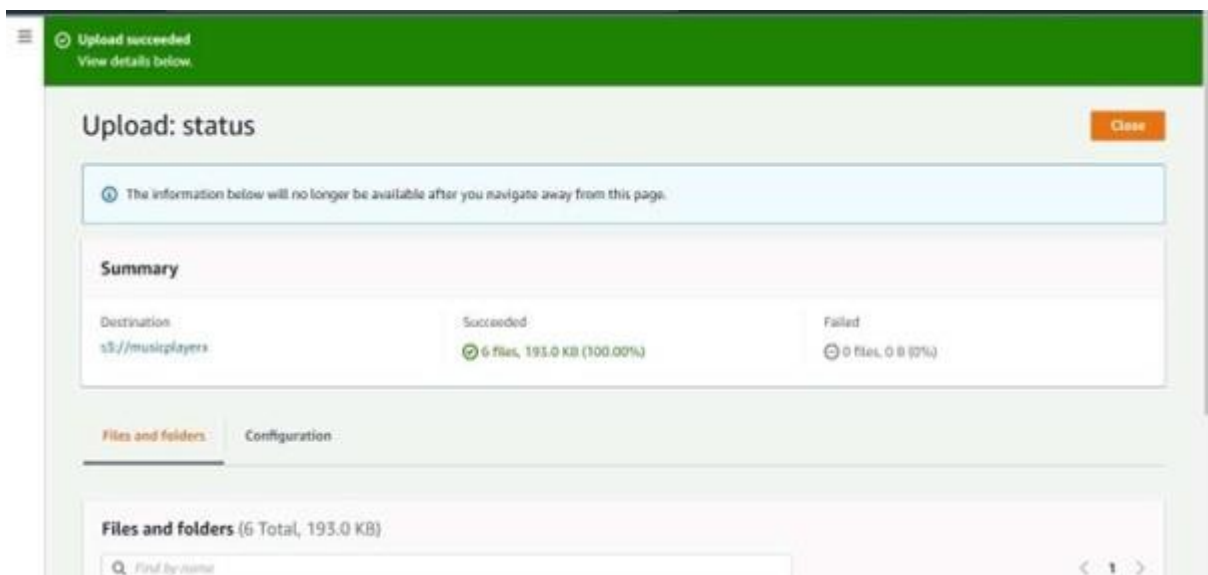
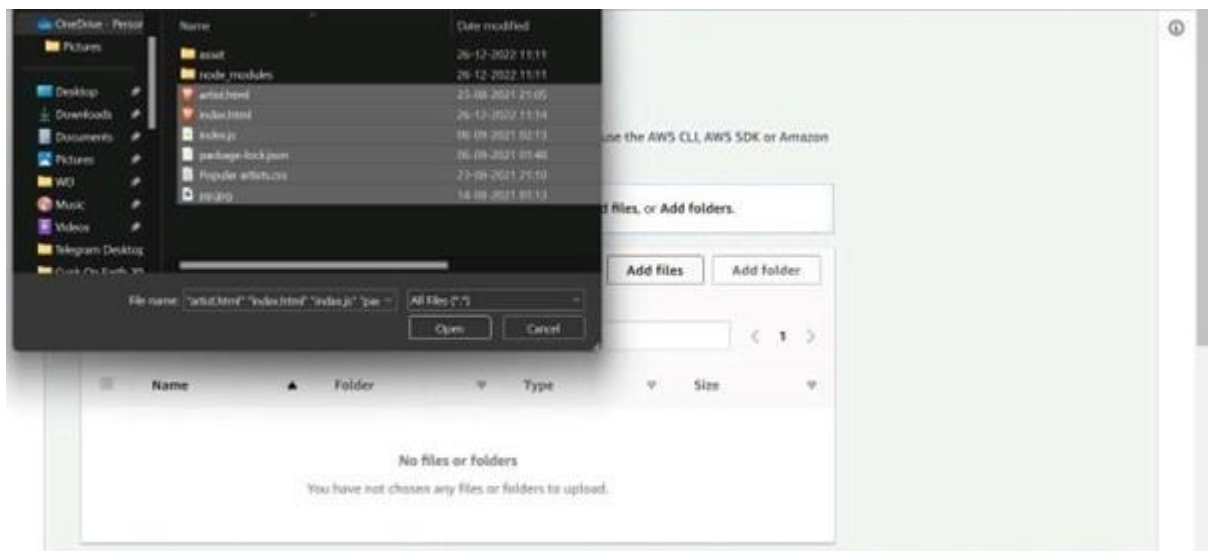
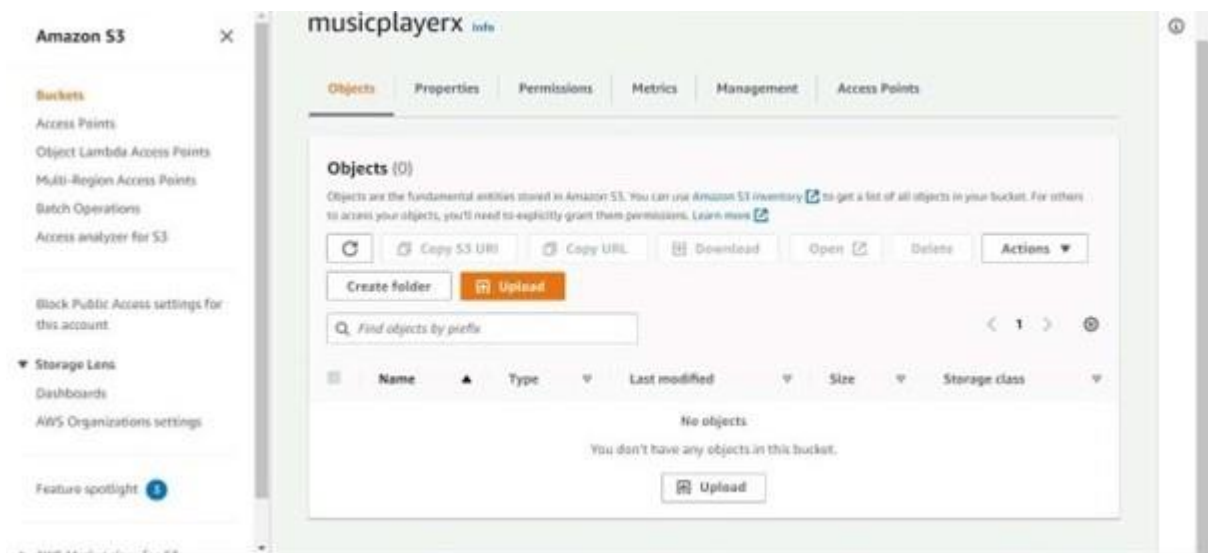
**Account snapshot**  
Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

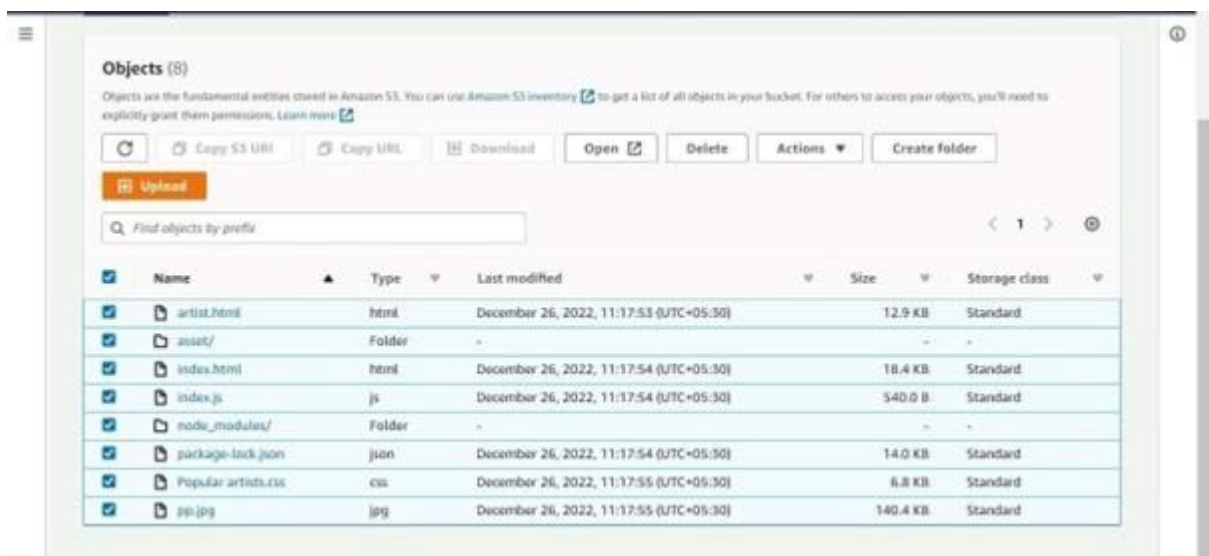
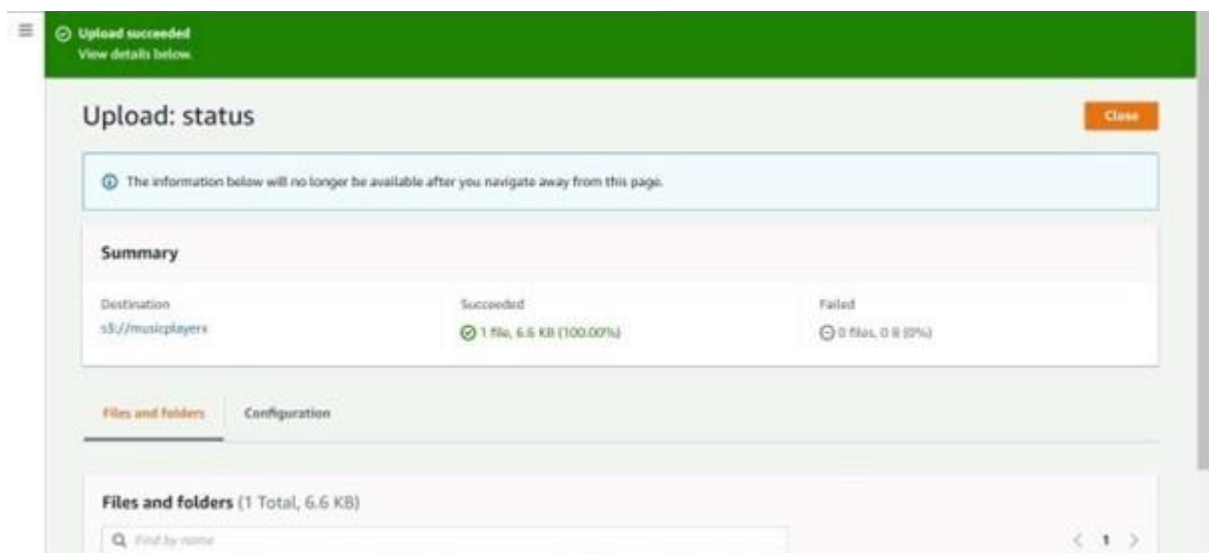
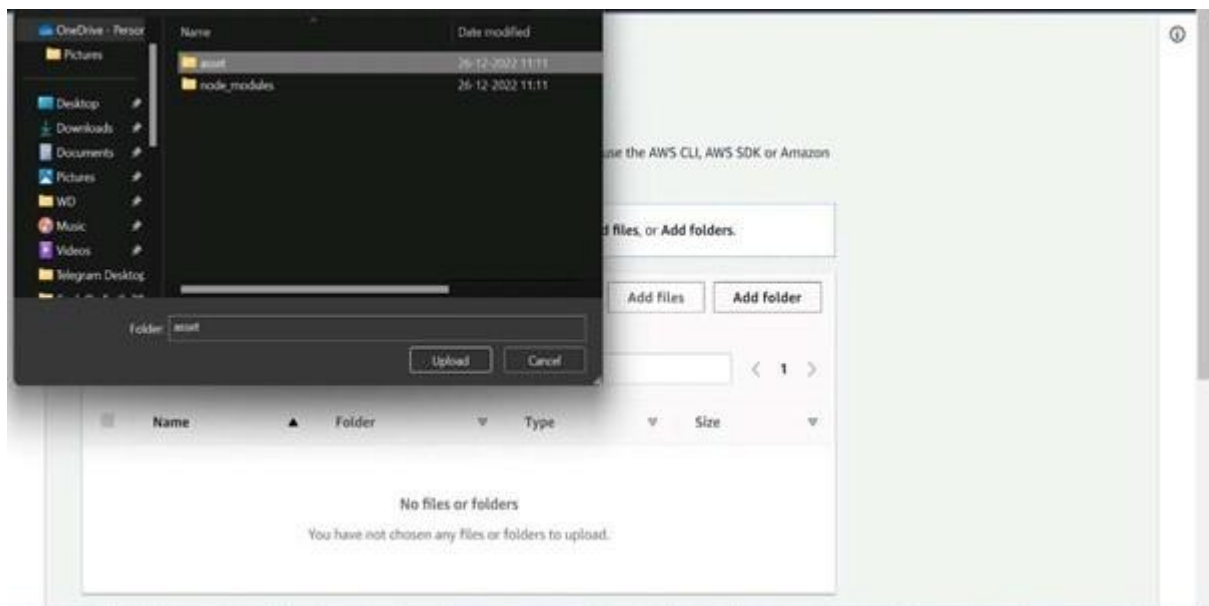
**Buckets (3)** [Info](#)  
Buckets are containers for data stored in S3. [Learn more](#)

[Refresh](#)
[Copy ARN](#)
[Empty](#)
[Delete](#)
[Create bucket](#)

Find buckets by name

	Name	AWS Region	Access	Creation date
<input type="radio"/>	drumkit101	Asia Pacific (Mumbai) ap-south-1	Objects can be public	December 26, 2022, 02:43:09 (UTC+05:30)
<input type="radio"/>	musicplayer1729	Asia Pacific (Mumbai) ap-south-1	Objects can be public	December 26, 2022, 02:59:15 (UTC+05:30)
<input type="radio"/>	musicplayerx	Asia Pacific (Mumbai) ap-south-1	Objects can be public	December 26, 2022, 11:17:01 (UTC+05:30)







**Objects (8)**

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](#)

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#)

[Upload](#)

<input checked="" type="checkbox"/>	Name	Type	Last modified
<input checked="" type="checkbox"/>	artist.html	html	December 26, 2022, 11:17:53 (UTC+05:30)
<input checked="" type="checkbox"/>	asset/	Folder	-
<input checked="" type="checkbox"/>	index.html	html	December 26, 2022, 11:17:54 (UTC+05:30)
<input checked="" type="checkbox"/>	index.js	js	December 26, 2022, 11:17:54 (UTC+05:30)
<input checked="" type="checkbox"/>	node_modules/	Folder	-
<input checked="" type="checkbox"/>	package-lock.json	json	December 26, 2022, 11:17:54 (UTC+05:30)
<input checked="" type="checkbox"/>	Popular artists.css	css	December 26, 2022, 11:17:55 (UTC+05:30)
<input checked="" type="checkbox"/>	pp.jpg	jpg	December 26, 2022, 11:17:55 (UTC+05:30)

[Calculate total size](#)[Copy](#)[Move](#)[Initiate restore](#)[Query with S3 Select](#)[Edit actions](#)[Rename object](#)[Edit storage class](#)[Edit server-side encryption](#)[Edit metadata](#)[Edit tags](#)[Make public using ACL](#)

[< 1 >](#)[🔍](#)

Storage class
Standard
Standard
Standard
Standard
Standard
Standard
Standard
Standard

• When public read access is enabled and not blocked by block public access settings, anyone in the world can access the specified objects.

• This action applies to all objects within the specified folders. Objects added to these folders while the action is in progress might be affected.

**Specified objects**

[< 1 >](#)

Name	Type	Last modified	Size
artist.html	html	December 26, 2022, 11:17:53 (UTC+05:30)	12.9 KB
asset/	Folder	-	-
index.html	html	December 26, 2022, 11:17:54 (UTC+05:30)	18.4 KB
index.js	js	December 26, 2022, 11:17:54 (UTC+05:30)	540.0 B
node_modules/	Folder	-	-
package-lock.json	json	December 26, 2022, 11:17:54 (UTC+05:30)	14.0 KB
Popular artists.css	css	December 26, 2022, 11:17:55 (UTC+05:30)	6.8 KB
pp.jpg	jpg	December 26, 2022, 11:17:55 (UTC+05:30)	140.4 KB

[Cancel](#) [Make public](#)

Amazon S3 > Buckets > musicplayerx

**musicplayerx** [Info](#)

[Objects](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

**Bucket overview**

AWS Region	Amazon Resource Name (ARN)	Creation date
Asia Pacific (Mumbai) ap-south-1	<a href="#">arn:aws:s3:::musicplayerx</a>	December 26, 2022, 11:17:01 (UTC+05:30)

**Bucket Versioning**

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

[Edit](#)

Bucket Versioning  
Disabled

Object Lock

Disabled

Amazon S3 currently does not support enabling Object Lock after a bucket has been created. To enable Object Lock for this bucket, contact Customer Support

Requester pays

When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. [Learn more](#)

Requester pays

Disabled

Edit

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

Disabled

Edit

Amazon S3 > Buckets > musicplayerx > Edit static website hosting

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

☐ Disable

☒ Enable

Hosting type

☒ Host a static website

Use the bucket endpoint as the web address. [Learn more](#)

☐ Redirect requests for an object

Redirect requests to another bucket or domain. [Learn more](#)

For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document

☒ Enable

Hosting type

☒ Host a static website

Use the bucket endpoint as the web address. [Learn more](#)

☐ Redirect requests for an object

Redirect requests to another bucket or domain. [Learn more](#)

For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document

Specify the home or default page of the website.

index.html

Error document - optional

This is returned when an error occurs.

error.html

Redirection rules - optional

Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

1



Redirection rules – optional

Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

1

Cancel

Save changes

Successfully edited static website hosting.

Requester pays

When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. [Learn more](#)

Requester pays

Disabled

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

Enabled

Hosting type

Bucket hosting

Bucket website endpoint

When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)

<http://musicpoljverx.s3-website-go-south-1.amazonaws.com>

