

Website Hosting In Cloud With Proper Security



Poorani B
Saravana Sakthi P



Outlook

In this research we will conclude all the ideal ways to host a website in cloud and the manage it with proper security. Cloud hosting provides website hosting and data storage without relying on server equipment.

The objective of this project is to cast the major advantages and methods to implement Cloud Hosting with Cloud providers. It provides improved site performance, high reliability and uptime, website security.

Cloud hosting is the ability to make applications and websites available on the internet using the cloud. Cloud hosting pools computing resources from a network of virtual and physical servers, allowing for greater scalability and flexibility to quickly make changes.

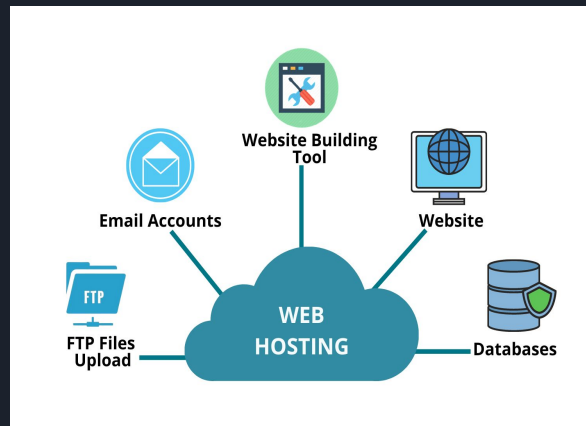
Introduction to Web Hosting

Web hosting is a service that stores your website or web application and makes it easily accessible across different devices such as desktop, mobile, and tablets.

Any web application or website is typically made of many files, such as images, videos, text, and code, that you need to store on special computers called servers.

The web hosting service provider maintains, configures, and runs physical servers that you can rent for your files.

Web site and web application hosting services also provide additional support, such as security, website backup, and website performance, which free up your time so that you can the core functions of your website.





Importance of Web Hosting

Hosting your business website on an internal server can be n an internal server can be time-consuming and expensive. Web hosting providers offer the following benefits.

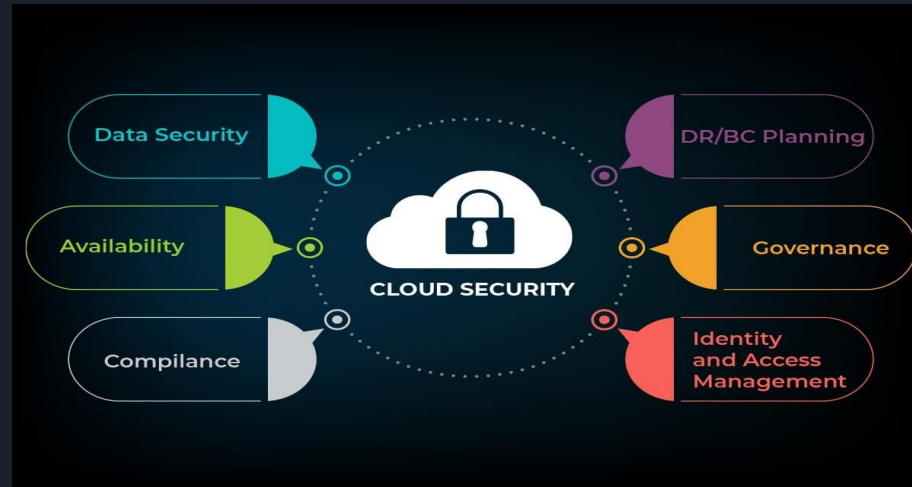
Performance: It invests in cutting-edge technology so that you get high-performing web servers with processing power, internal memory, and other computing resources. This improves website performance, and your visitors can load pages quickly.

Reliability: They perform regular system upgrades to maintain high security standards.

Technical Support: They also streamline website monitoring and analytics, data backup and recovery, and other similar features that make your website run more smoothly.

Importance of Web Hosting

Security and compliance: Web hosting services use an end-to-end approach to secure infrastructure, including physical, operational, and software measures that meet all compliance requirements.



Features of Web Hosting

The following are the main features generally provided:

- Storage space.
- Bandwidth and data transfer
- Email accounts
- POP3
- Forwarding mail
- Aliases
- FTP access





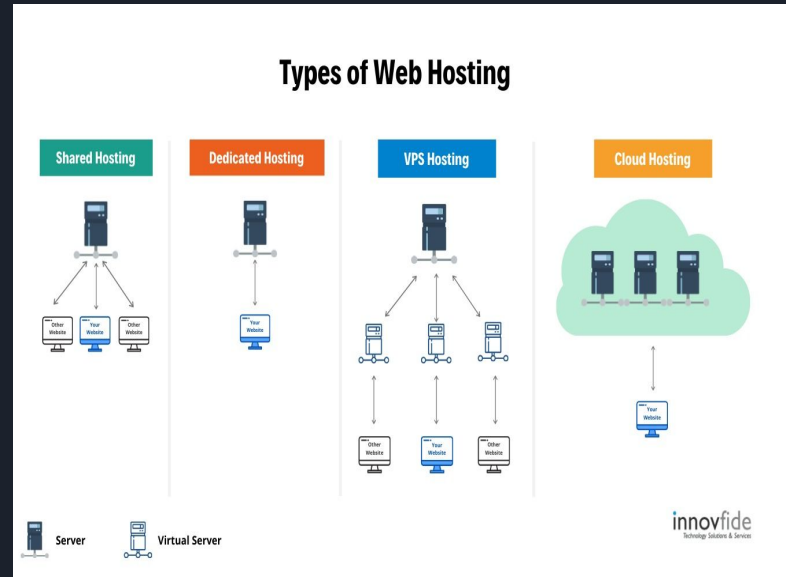
Features of Web Hosting

Apart from this your monthly web hosting cost can range from free to paid, depending on factors such as the following:

- Size of your website.
- Number of daily website visitors.
- Peak time website or webpage traffic.
- Web hosting features that you require.

Types of web hosting services

- Shared Hosting
- Dedicated Hosting
- VPS Hosting
- Cloud Hosting





Working of Web Hosting

Your web host reserves some space on its server for your website or web application when you open an account with them. From your hosting account dashboard, you can access and control this area. Additional resources like bandwidth, central processing unit (CPU), and random access memory (RAM) will also be made available to you. The kind of web hosting service you choose will determine how much server resources you get.

Selecting a web hosting package is comparable to leasing office space. Leasing a coworking space is the most affordable choice. You can eventually rent out an entire office or even an entire building as your business expands. On a server that you share with a number of other websites or web applications, you can also get started with free web hosting. You might eventually want to upgrade to more exclusive web server access or even rent the entire server!

Cloud Hosting

To reduce web hosting costs and enhance website performance, cloud hosting providers use resource sharing and scale. Your website's files are automatically replicated across several servers by the cloud hosting company while you share access to a cluster of servers. The hosting company will automatically route your traffic to another server if one of the cloud servers is overloaded. This significantly enhances website performance while lowering your ongoing expenses.



Why Cloud Hosting ?

There are several options available in cloud hosting , it is suitable for all types of businesses, including the following:

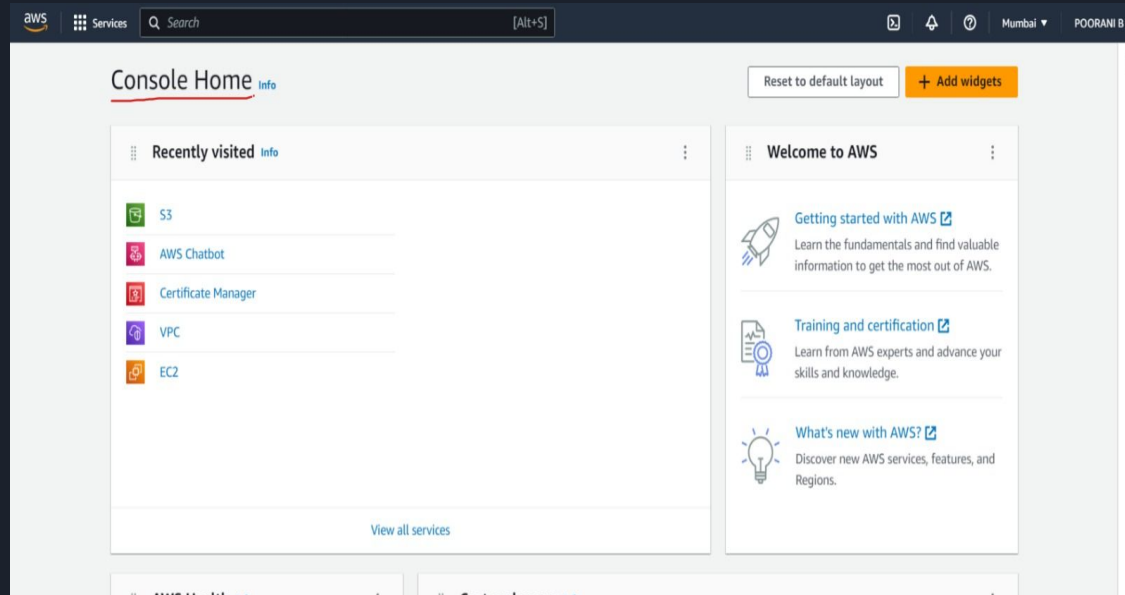
- Small and medium businesses.
- Ecommerce and complex web applications.
- Government and nongovernmental organizations.
- Large enterprises with several domains.



Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

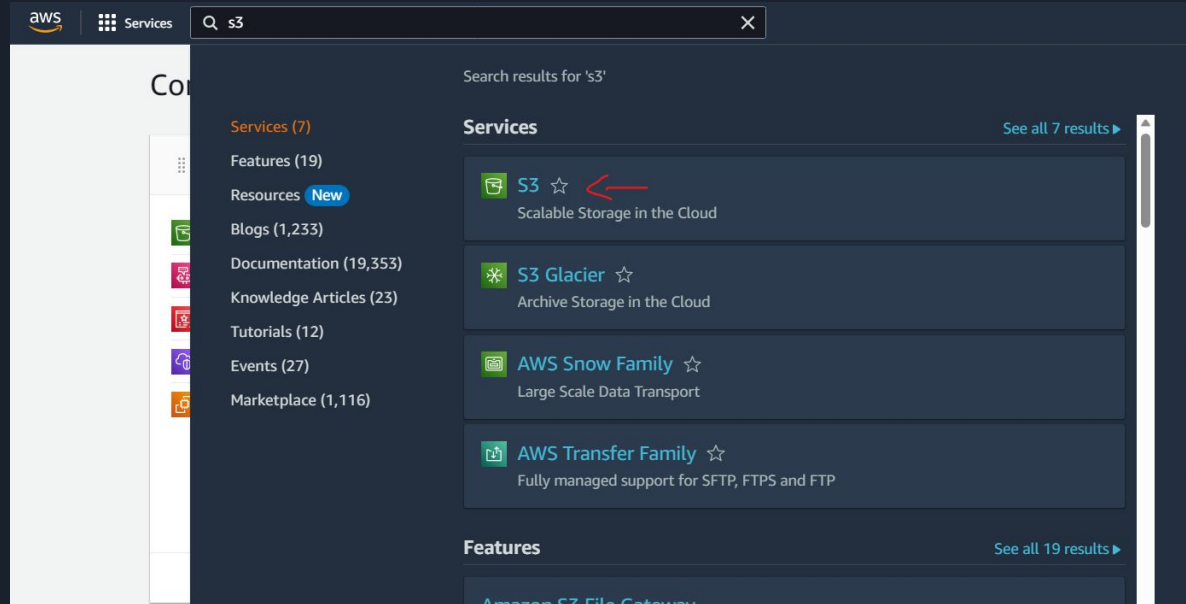
STEP 1 : Login to the AWS Console



Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

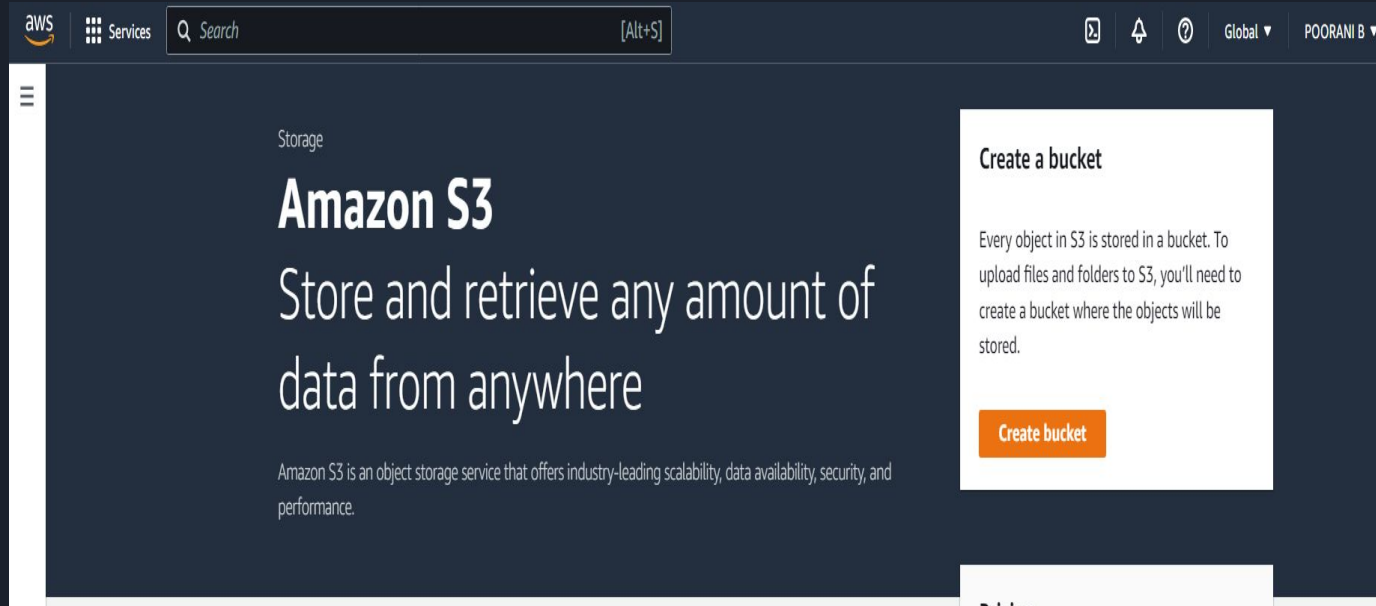
STEP 2 : Select the S3 Service



Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

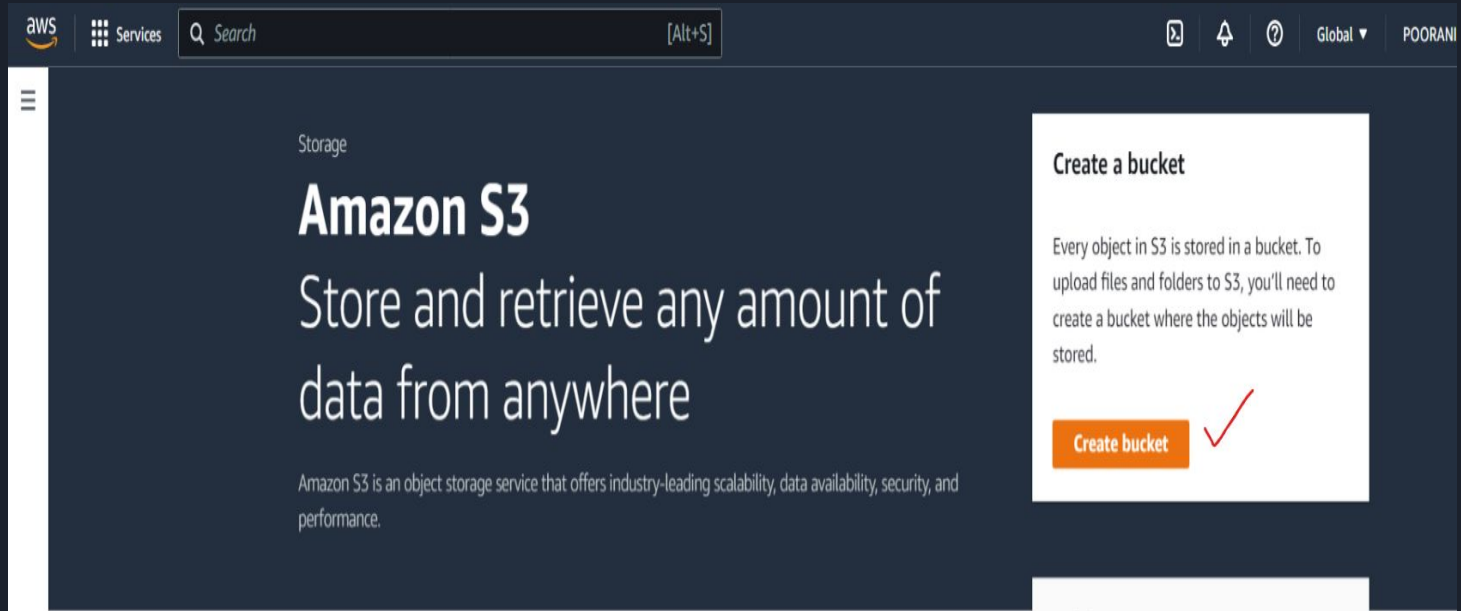
STEP 3 : Amazon S3 Service page opens



Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

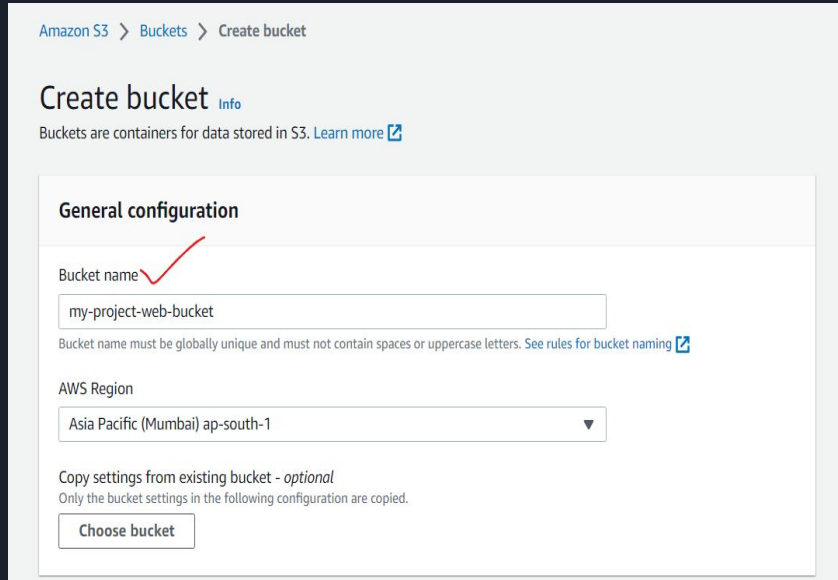
STEP 4 : Choose the Create bucket option



Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 5 : Specify a unique name for the bucket



Amazon S3 > Buckets > Create bucket

Create bucket [Info](#)

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

General configuration

Bucket name ✓

my-project-web-bucket

Bucket name must be globally unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region

Asia Pacific (Mumbai) ap-south-1 ▼

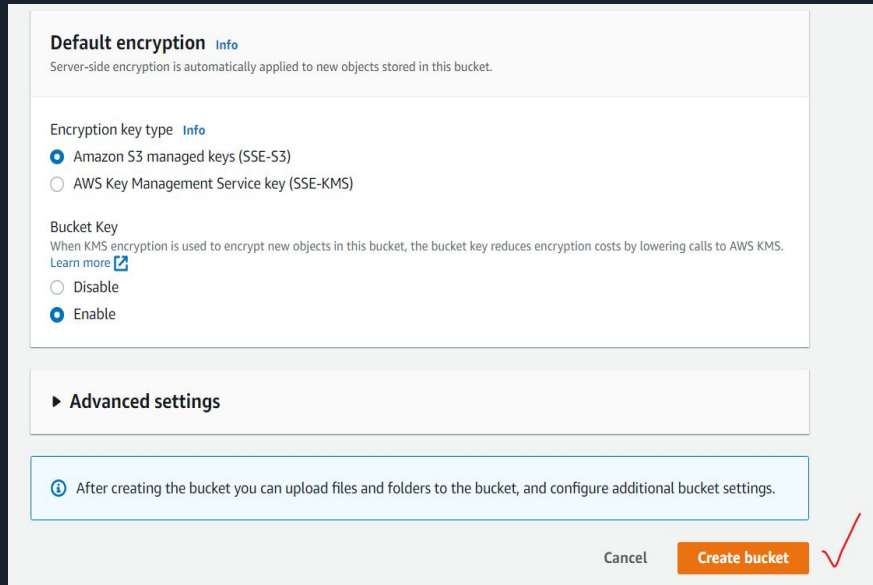
Copy settings from existing bucket - *optional*
Only the bucket settings in the following configuration are copied.

Choose bucket

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 6 : Scroll down to click on CREATE BUCKET (modifications can be done on priorities)



Default encryption [Info](#)
Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption key type [Info](#)

- ☒ Amazon S3 managed keys (SSE-S3)
- ☐ AWS Key Management Service key (SSE-KMS)

Bucket Key
When KMS encryption is used to encrypt new objects in this bucket, the bucket key reduces encryption costs by lowering calls to AWS KMS. [Learn more](#)

- ☐ 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](#) ✓

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 7 : my-project-web-bucket is created successfully

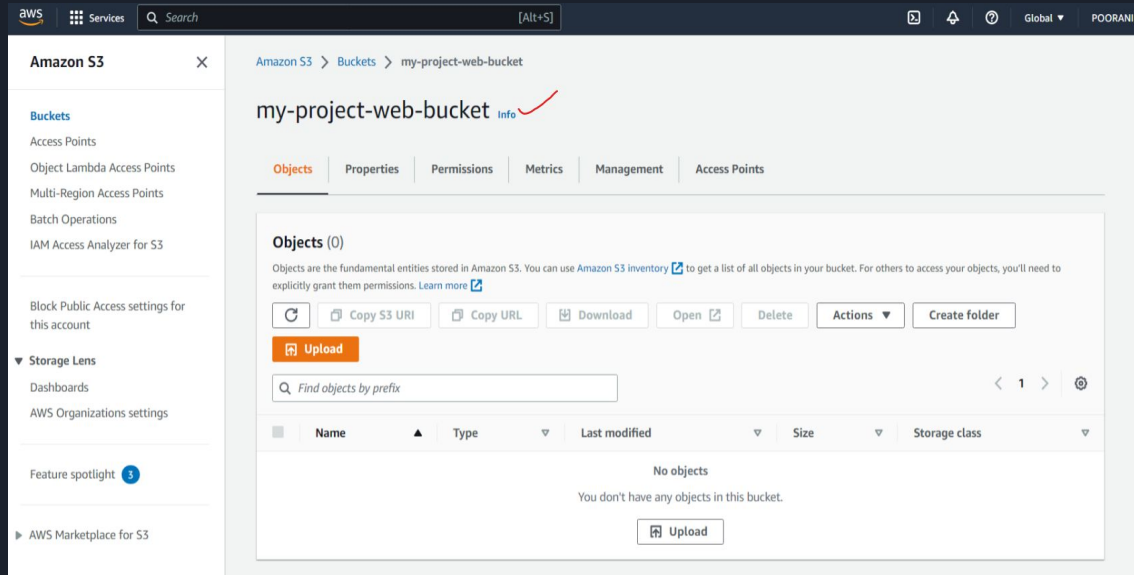
The screenshot displays the AWS Management Console interface. At the top, a green notification banner states: "Successfully created bucket 'my-project-web-bucket'. To upload files and folders, or to configure additional bucket settings choose View details." The left-hand navigation pane shows the "Amazon S3" section selected, with a sub-menu for "Buckets". The main content area, titled "Amazon S3 > Buckets", features an "Account snapshot" section and a "Buckets (1)" section. The "Buckets (1)" section includes a search bar and a table listing the bucket. The table has columns for Name, AWS Region, Access, and Creation date. The listed bucket is "my-project-web-bucket" in the "Asia Pacific (Mumbai) ap-south-1" region, with "Bucket and objects not public" access and a creation date of "May 16, 2023, 18:48:43 (UTC+05:30)".

Name	AWS Region	Access	Creation date
my-project-web-bucket	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	May 16, 2023, 18:48:43 (UTC+05:30)

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

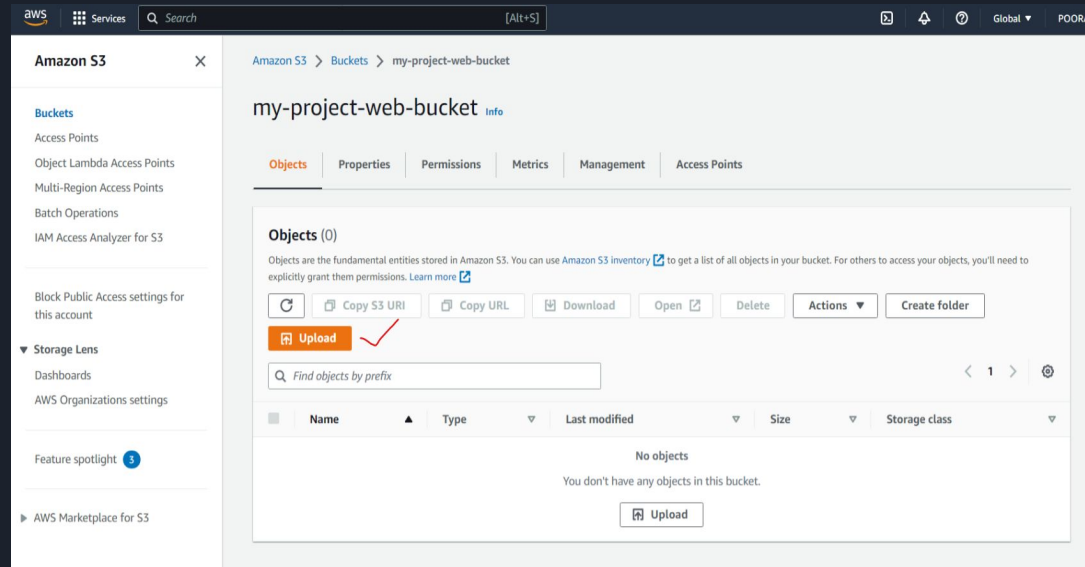
STEP 8 : Click on the bucket created



Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

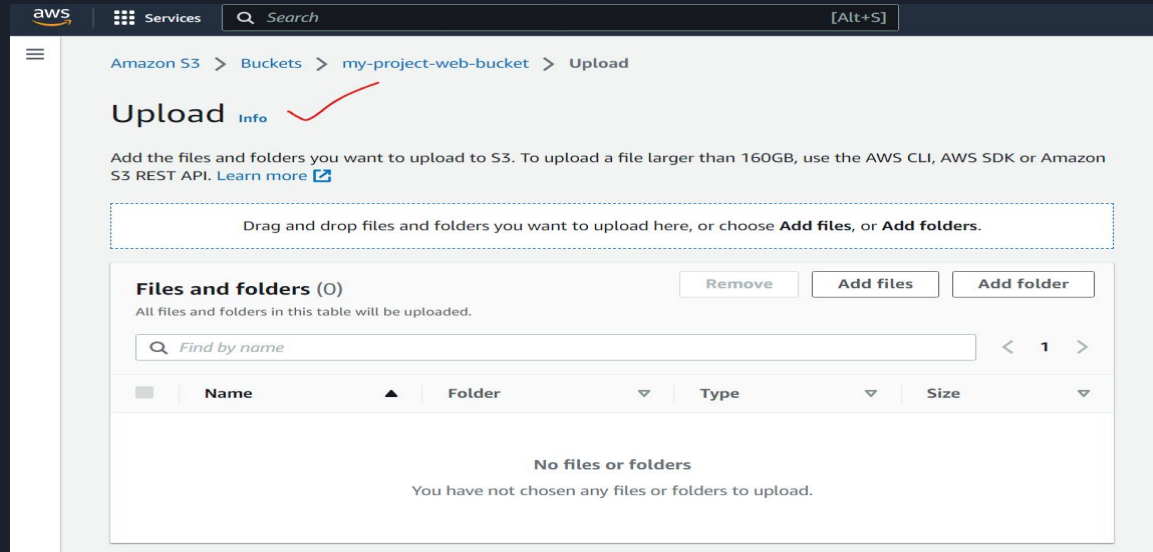
STEP 9 : Opt for the Upload button



Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

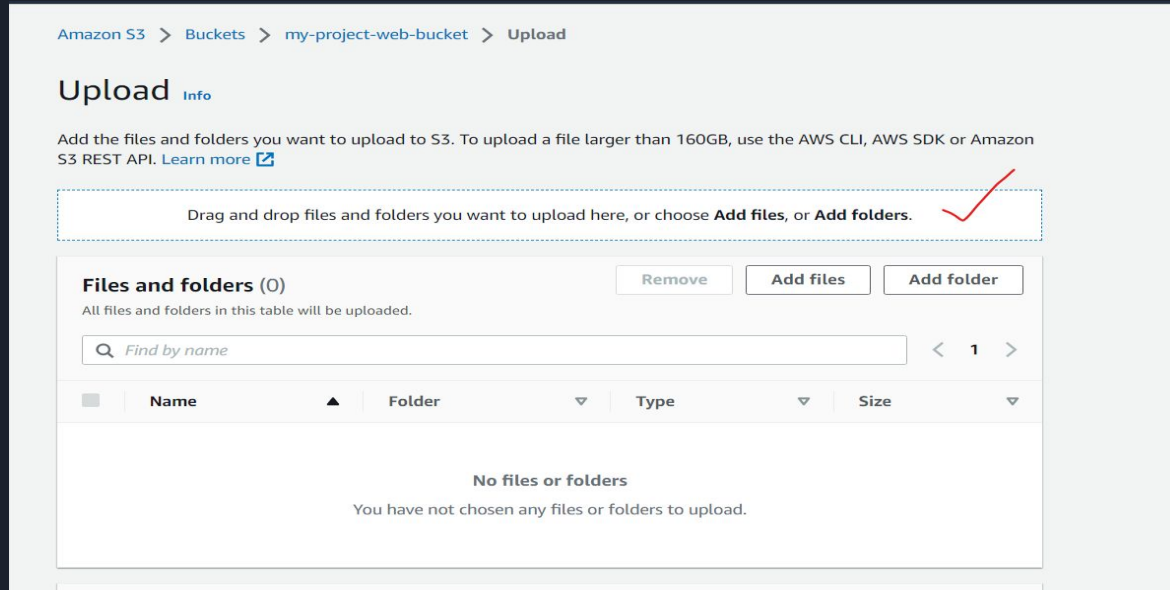
STEP 10 : Upload window appears



Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 11 : Adapt the “Add files”or”Add folders” to upload the necessary files



The screenshot shows the 'Upload' page in the AWS Management Console for the bucket 'my-project-web-bucket'. The breadcrumb trail at the top is 'Amazon S3 > Buckets > my-project-web-bucket > Upload'. The main heading is 'Upload' with an 'Info' link. Below this, a message states: 'Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)'. A dashed box contains the instruction: 'Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.' with a red checkmark. Below this is a section titled 'Files and folders (0)' with 'Remove', 'Add files', and 'Add folder' buttons. A note says 'All files and folders in this table will be uploaded.' There is a search bar with the placeholder 'Find by name'. Below the search bar is a table header with columns: 'Name', 'Folder', 'Type', and 'Size'. The table body is empty, displaying the message 'No files or folders' and 'You have not chosen any files or folders to upload.'

Amazon S3 > Buckets > my-project-web-bucket > Upload

Upload [Info](#)

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.

Files and folders (0) [Remove](#) [Add files](#) [Add folder](#)

All files and folders in this table will be uploaded.

	Name	Folder	Type	Size
No files or folders				
You have not chosen any files or folders to upload.				

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 12 : Make sure all the files are added

Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.

Files and folders (7 Total, 31.1 KB)

Remove

Add files

Add folder

All files and folders in this table will be uploaded.

☐

Name

▲

Folder

▼

Type

▼

Size

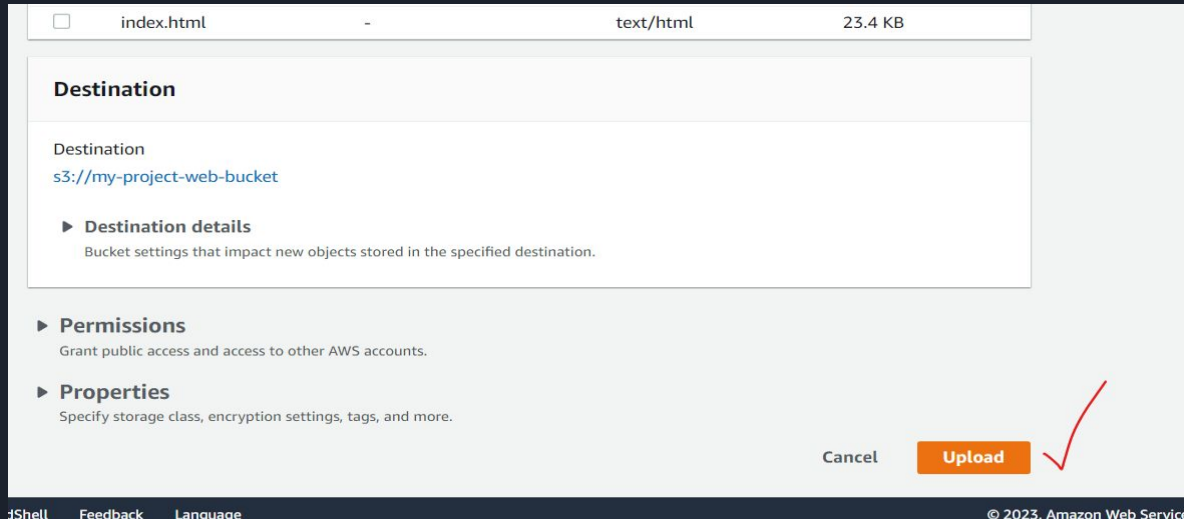
▼

<input checked="" type="checkbox"/>	CODE_OF_CONDUCT.md	-	-	5.1 KB
<input type="checkbox"/>	CONTRIBUTING.md	-	-	527.0 B
<input type="checkbox"/>	LICENSE	-	-	1.0 KB
<input type="checkbox"/>	README.md	-	-	580.0 B
<input type="checkbox"/>	debug.log	-	-	348.0 B
<input type="checkbox"/>	desktop.ini	-	-	108.0 B
<input type="checkbox"/>	index.html	-	text/html	23.4 KB

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 13 : Click on “Upload” to continue



The screenshot shows the 'Upload' dialog box in the AWS Management Console. At the top, there is a header bar with a checkbox, the filename 'index.html', a separator, the file type 'text/html', and the file size '23.4 KB'. Below this, the 'Destination' section is expanded, showing the destination path 's3://my-project-web-bucket'. Underneath, there are three sections: 'Destination details' (with a description: 'Bucket settings that impact new objects stored in the specified destination.'), 'Permissions' (with a description: 'Grant public access and access to other AWS accounts.'), and 'Properties' (with a description: 'Specify storage class, encryption settings, tags, and more.'). At the bottom right, there are two buttons: 'Cancel' and 'Upload'. A red checkmark is drawn next to the 'Upload' button. The footer of the console shows 'JShell', 'Feedback', 'Language', and '© 2023, Amazon Web Services'.

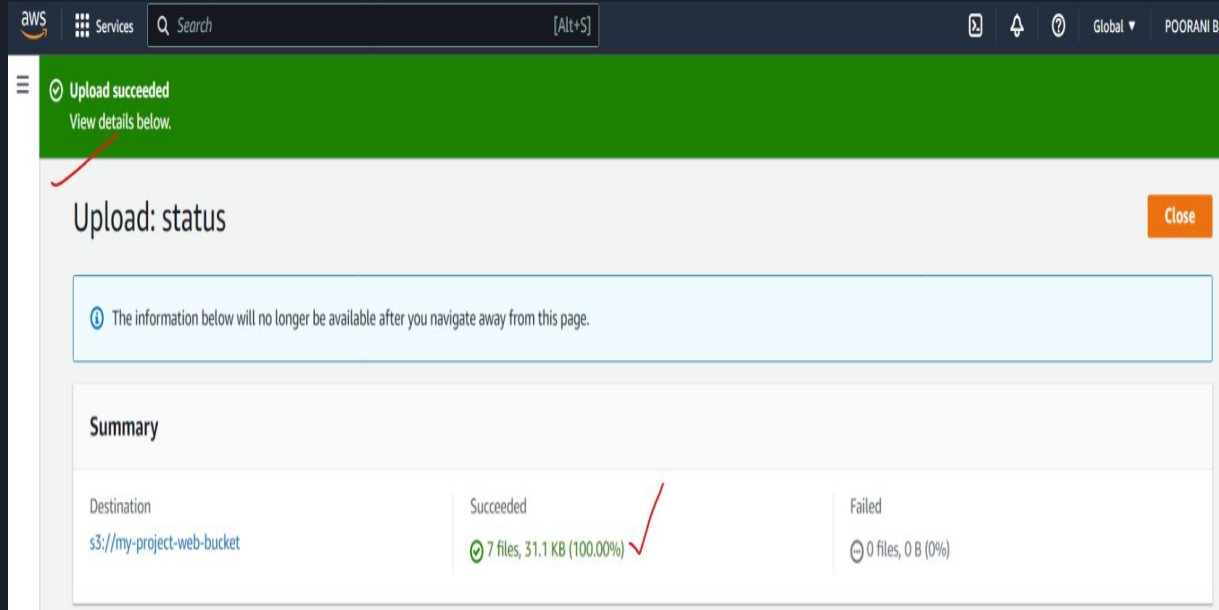
<input type="checkbox"/>	index.html	-	text/html	23.4 KB
Destination				
Destination s3://my-project-web-bucket				
▶ Destination details Bucket settings that impact new objects stored in the specified destination.				
▶ Permissions Grant public access and access to other AWS accounts.				
▶ Properties Specify storage class, encryption settings, tags, and more.				
				Cancel Upload

JShell Feedback Language © 2023, Amazon Web Services

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 14 : Uploaded message pops up



The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services', a search bar, and user information. A green banner at the top of the main content area displays the message 'Upload succeeded' with a checkmark icon and a link to 'View details below.'. Below this, a dialog box titled 'Upload: status' is open, featuring a 'Close' button in the top right corner. Inside the dialog, a light blue box contains a warning icon and the text: 'The information below will no longer be available after you navigate away from this page.' The 'Summary' section of the dialog is divided into three columns: 'Destination' (s3://my-project-web-bucket), 'Succeeded' (7 files, 31.1 KB (100.00%) with a red checkmark), and 'Failed' (0 files, 0 B (0%)).

aws Services Search [Alt+S]

Global POORANI B

Upload succeeded
View details below.

Upload: status Close

The information below will no longer be available after you navigate away from this page.

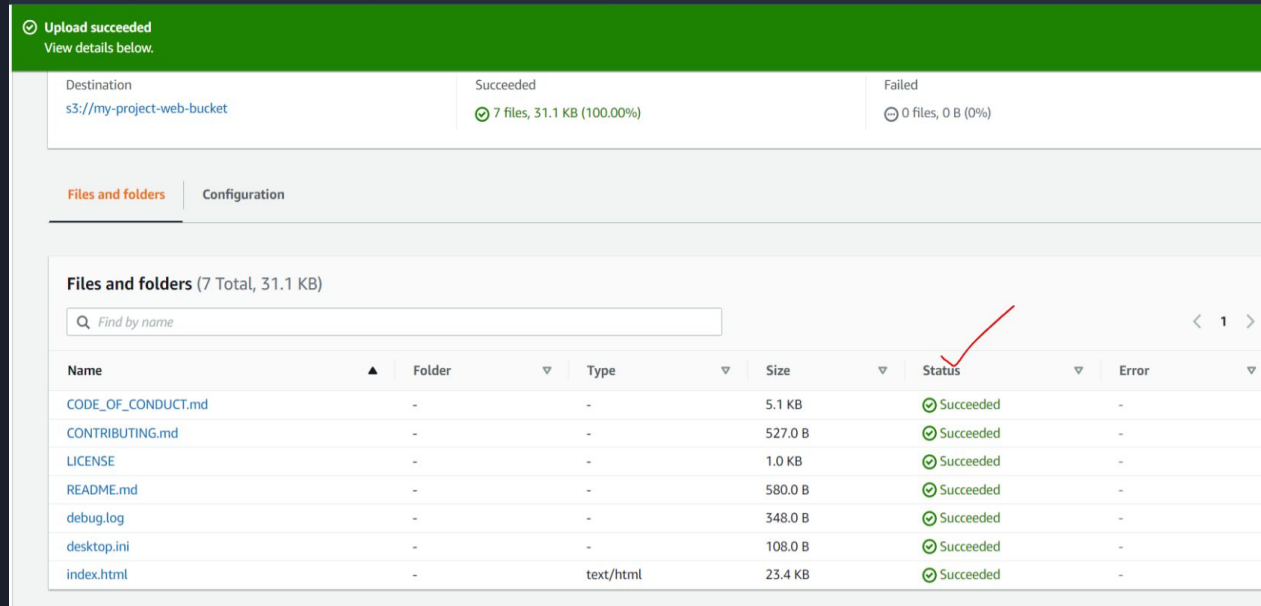
Summary

Destination s3://my-project-web-bucket	Succeeded 7 files, 31.1 KB (100.00%)	Failed 0 files, 0 B (0%)
---	---	-----------------------------

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 15 : All the files are uploaded properly



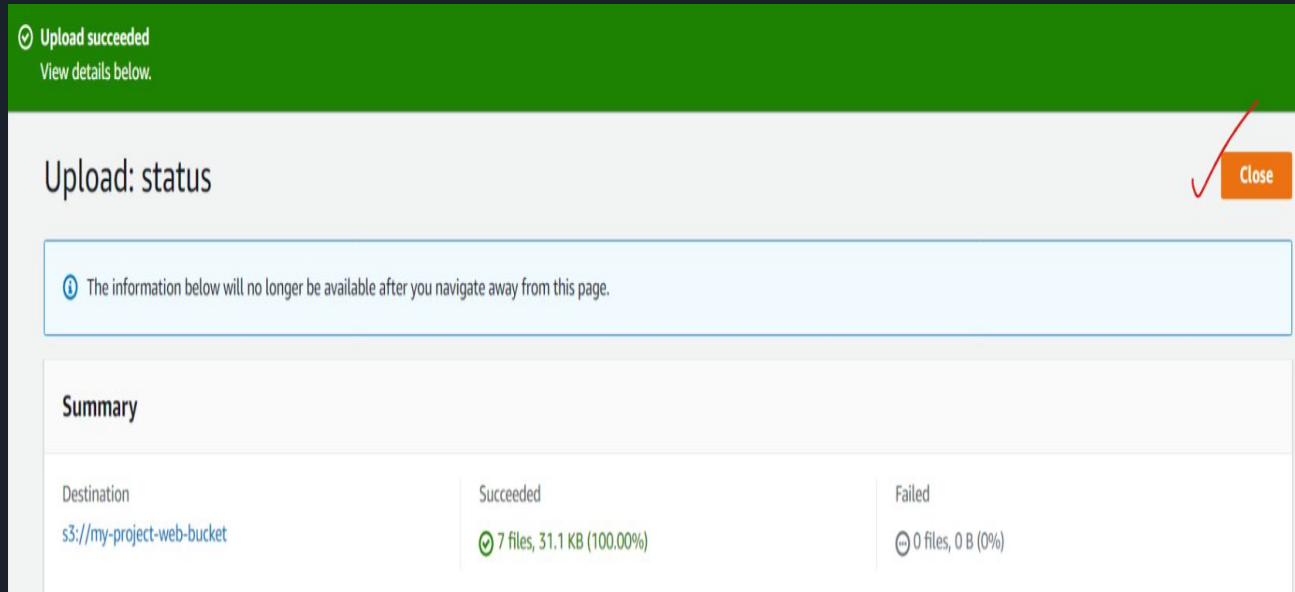
The screenshot displays the AWS Management Console interface for an S3 bucket. At the top, a green banner indicates "Upload succeeded" with a link to "View details below." Below this, a summary bar shows the destination "s3://my-project-web-bucket", the success status "7 files, 31.1 KB (100.00%)", and the failure status "0 files, 0 B (0%)". The "Files and folders" tab is selected, showing a list of 7 files and folders. A red checkmark is placed over the "Status" column header. The table lists the following items:

Name	Folder	Type	Size	Status	Error
CODE_OF_CONDUCT.md	-	-	5.1 KB	✓ Succeeded	-
CONTRIBUTING.md	-	-	527.0 B	✓ Succeeded	-
LICENSE	-	-	1.0 KB	✓ Succeeded	-
README.md	-	-	580.0 B	✓ Succeeded	-
debug.log	-	-	348.0 B	✓ Succeeded	-
desktop.ini	-	-	108.0 B	✓ Succeeded	-
index.html	-	text/html	23.4 KB	✓ Succeeded	-

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 16 : Now close the upload page



✓ Upload succeeded
View details below.

Upload: status

✓ Close

ⓘ The information below will no longer be available after you navigate away from this page.

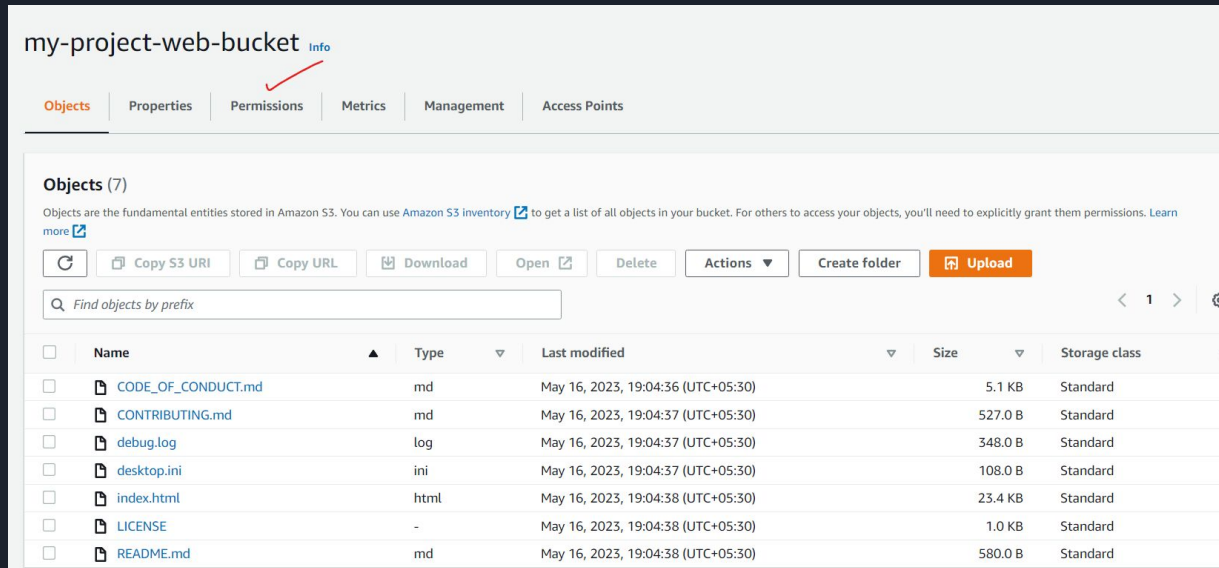
Summary

Destination	Succeeded	Failed
s3://my-project-web-bucket	✓ 7 files, 31.1 KB (100.00%)	⊘ 0 files, 0 B (0%)

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 17 : Proceed with the “Permission” option



The screenshot displays the AWS Management Console interface for a bucket named "my-project-web-bucket". The "Permissions" tab is selected, indicated by a red checkmark. The console shows a list of objects (7) stored in the bucket. The objects are listed in a table with columns for Name, Type, Last modified, Size, and Storage class. The objects include CODE_OF_CONDUCT.md, CONTRIBUTING.md, debug.log, desktop.ini, index.html, LICENSE, and README.md. The "Permissions" tab is highlighted, and the "Upload" button is visible.

my-project-web-bucket [Info](#)

Objects | Properties | **Permissions** | Metrics | Management | Access Points

Objects (7)

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](#)

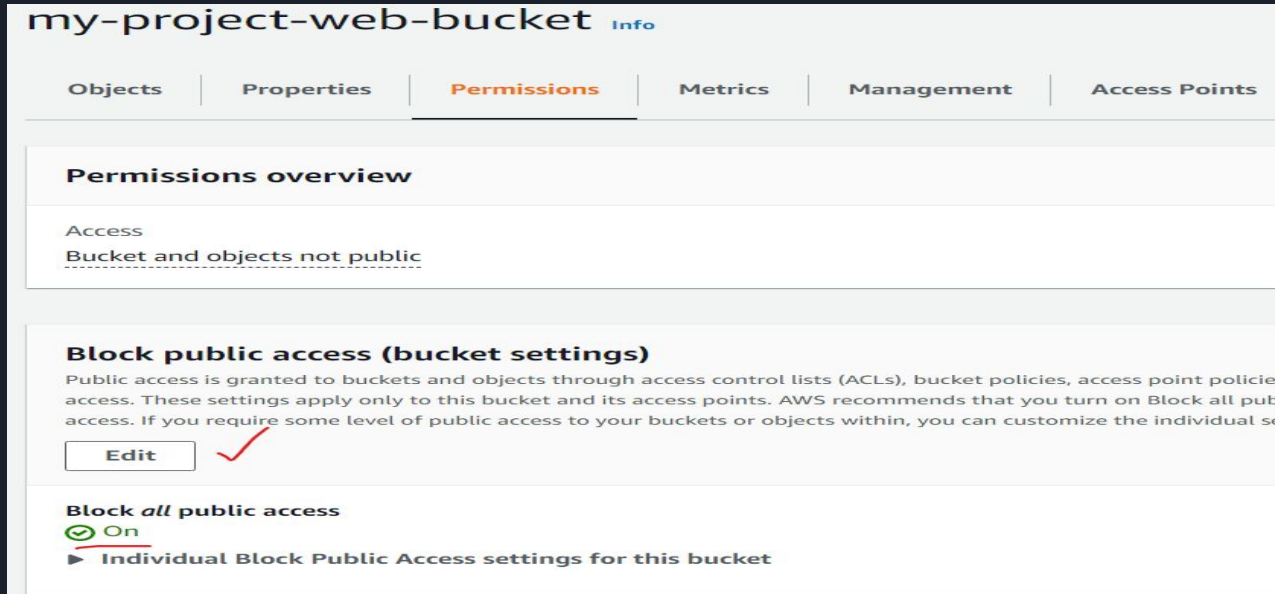
[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	CODE_OF_CONDUCT.md	md	May 16, 2023, 19:04:36 (UTC+05:30)	5.1 KB	Standard
<input type="checkbox"/>	CONTRIBUTING.md	md	May 16, 2023, 19:04:37 (UTC+05:30)	527.0 B	Standard
<input type="checkbox"/>	debug.log	log	May 16, 2023, 19:04:37 (UTC+05:30)	348.0 B	Standard
<input type="checkbox"/>	desktop.ini	ini	May 16, 2023, 19:04:37 (UTC+05:30)	108.0 B	Standard
<input type="checkbox"/>	index.html	html	May 16, 2023, 19:04:38 (UTC+05:30)	23.4 KB	Standard
<input type="checkbox"/>	LICENSE	-	May 16, 2023, 19:04:38 (UTC+05:30)	1.0 KB	Standard
<input type="checkbox"/>	README.md	md	May 16, 2023, 19:04:38 (UTC+05:30)	580.0 B	Standard

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 18 : Select the “Edit” button



The screenshot displays the AWS Management Console interface for a bucket named "my-project-web-bucket". The "Permissions" tab is selected, showing the "Permissions overview" section. Below this, the "Access" status is "Bucket and objects not public". The "Block public access (bucket settings)" section is highlighted with a red checkmark, indicating that public access is blocked. The "Edit" button is visible next to the "Block all public access" setting, which is currently "On".

my-project-web-bucket Info

Objects | Properties | **Permissions** | Metrics | Management | Access Points

Permissions overview

Access
Bucket and objects not public

Block public access (bucket settings)
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, and IAM policies. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings.

Edit ✓

Block all public access
✓ On
► Individual Block Public Access settings for this bucket

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 19 : Uncheck the box “Block all public access”

Edit Block public access (bucket settings) [Info](#)

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☒

Block all public access

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

☒

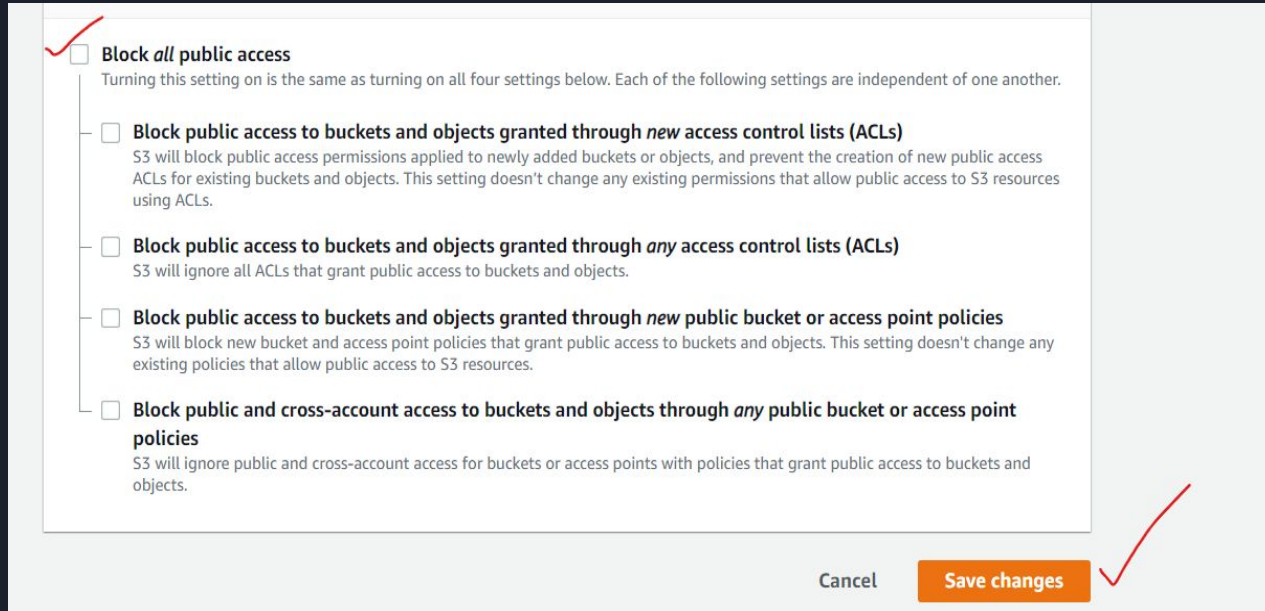
Block public access to buckets and objects granted through *new* access control lists (ACLs)

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 using ACLs.

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 20 : Click on “Save changes”



☒ **Block *all* public access**
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

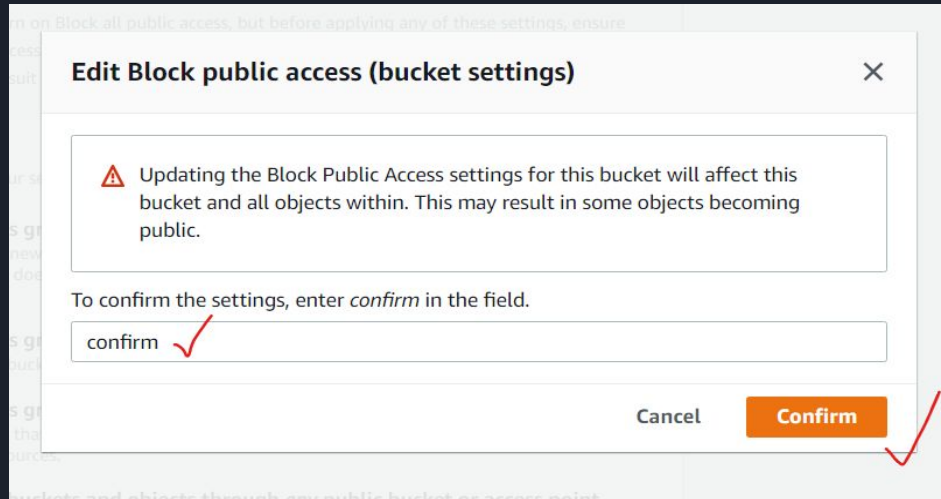
- ☐ **Block public access to buckets and objects granted through *new* access control lists (ACLs)**
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- ☐ **Block public access to buckets and objects granted through *any* access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.
- ☐ **Block public access to buckets and objects granted through *new* public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- ☐ **Block public and cross-account access to buckets and objects through *any* public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Cancel Save changes

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 21 : Type in “confirm” and then enter confirm



on Block all public access, but before applying any of these settings, ensure

Edit Block public access (bucket settings) ✕

⚠ Updating the Block Public Access settings for this bucket will affect this bucket and all objects within. This may result in some objects becoming public.

To confirm the settings, enter *confirm* in the field.

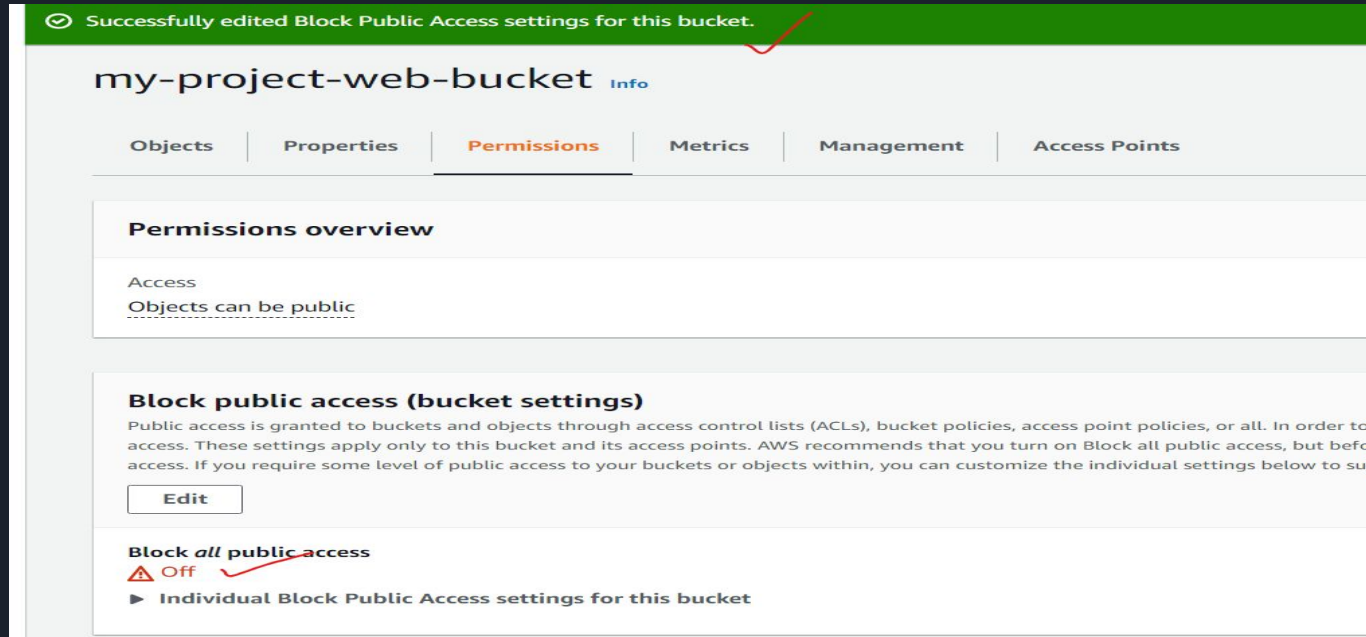
confirm ✓

Cancel **Confirm** ✓

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 22 : The “on” changed to “off” for Block all public access



The screenshot displays the AWS Management Console interface for a bucket named "my-project-web-bucket". At the top, a green notification bar states "Successfully edited Block Public Access settings for this bucket." with a red checkmark. Below this, the bucket name is followed by an "Info" link. A navigation bar contains tabs for "Objects", "Properties", "Permissions" (which is selected), "Metrics", "Management", and "Access Points". The "Permissions overview" section shows "Access" settings where "Objects can be public". The "Block public access (bucket settings)" section provides a detailed explanation of public access and includes an "Edit" button. At the bottom, the "Block all public access" toggle is shown as "Off" with a red checkmark, indicating it has been successfully disabled. Below this toggle is a link to "Individual Block Public Access settings for this bucket".

Successfully edited Block Public Access settings for this bucket.

my-project-web-bucket [Info](#)



Objects | Properties | **Permissions** | Metrics | Management | Access Points

Permissions overview

Access
[Objects can be public](#)

Block public access (bucket settings)
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to access these resources, you must have the appropriate permissions. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before you do so, you must first make sure that you have a way to access your data. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your needs.

[Edit](#)

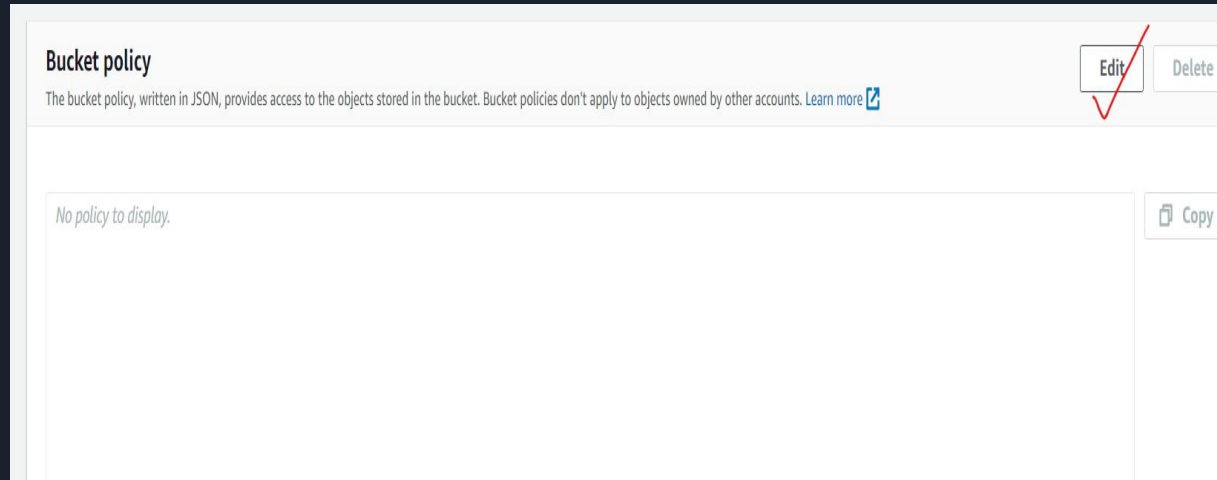
Block all public access
 Off 

► [Individual Block Public Access settings for this bucket](#)

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

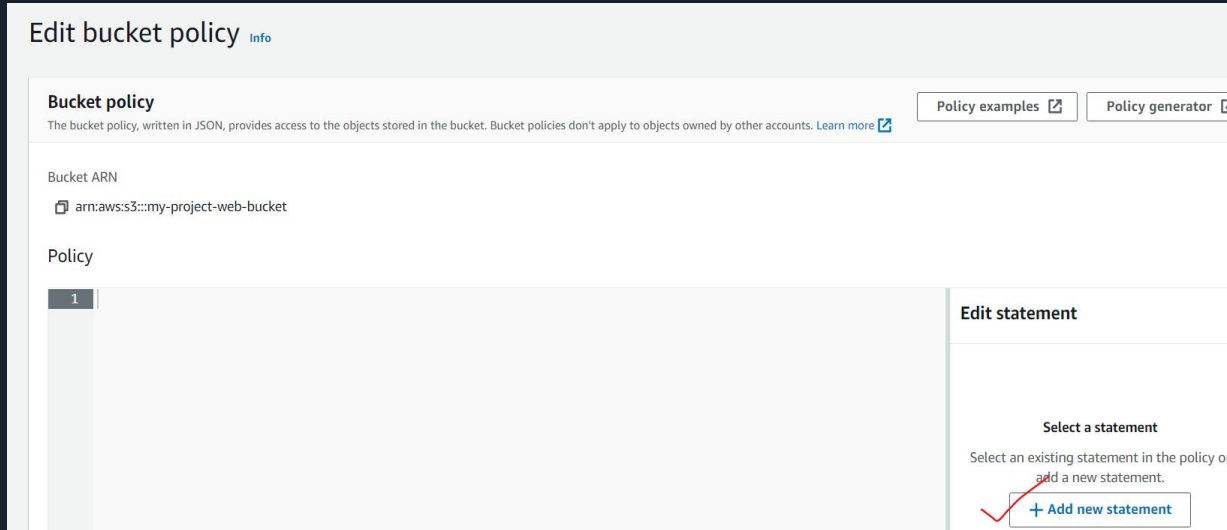
STEP 23 : Select “Edit” option under Bucket policy



Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console


STEP 24 : In “Edit statement” section go to “Add new statement”



Edit bucket policy [info](#)

Bucket policy
The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

Policy examples [↗](#) Policy generator [↗](#)


Bucket ARN
 arn:aws:s3::my-project-web-bucket

Policy

1	

Edit statement

Select a statement
Select an existing statement in the policy or add a new statement.

 [+ Add new statement](#)

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 25 : For “Add actions” select S3

Policy

```
1 {  
2   "Version": "2012-10-17",  
3   "Statement": [  
4     {  
5       "Sid": "Statement1",  
6       "Principal": {},  
7       "Effect": "Allow",  
8       "Action": [],  
9       "Resource": []  
10    }  
11  ]  
12 }
```

Edit statement
Statement1 Remove

1. Add actions

Choose a service

Q s3 X

Available ✓

S3 ✓

S3 Object Lambda

S3 Outposts

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 26 : Check the GetObject option

The screenshot displays the AWS IAM console's 'Policy' editor. On the left, the JSON policy document is shown with line numbers 1 through 12. The 'Statement' array contains one statement with 'Sid': 'Statement1', 'Principal': {}, 'Effect': 'Allow', 'Action': [], and 'Resource': []. The 'Add actions' sidebar on the right shows a search for 'getobj' and a list of actions. The 'GetObject' action is checked with a red checkmark, while 'GetObjectAcl', 'GetObjectAttributes', and 'GetObjectLegalHold' are unchecked.

```
1 {  
2   "Version": "2012-10-17",  
3   "Statement": [  
4     {  
5       "Sid": "Statement1",  
6       "Principal": {},  
7       "Effect": "Allow",  
8       "Action": [],  
9       "Resource": []  
10    }  
11  ]  
12 }
```

Policy

Edit statement Remove

Statement1

1. Add actions

All services > S3

Q getobj X

Access level - read or write

☒ GetObject ⓘ ✓

☐ GetObjectAcl ⓘ

☐ GetObjectAttributes ⓘ

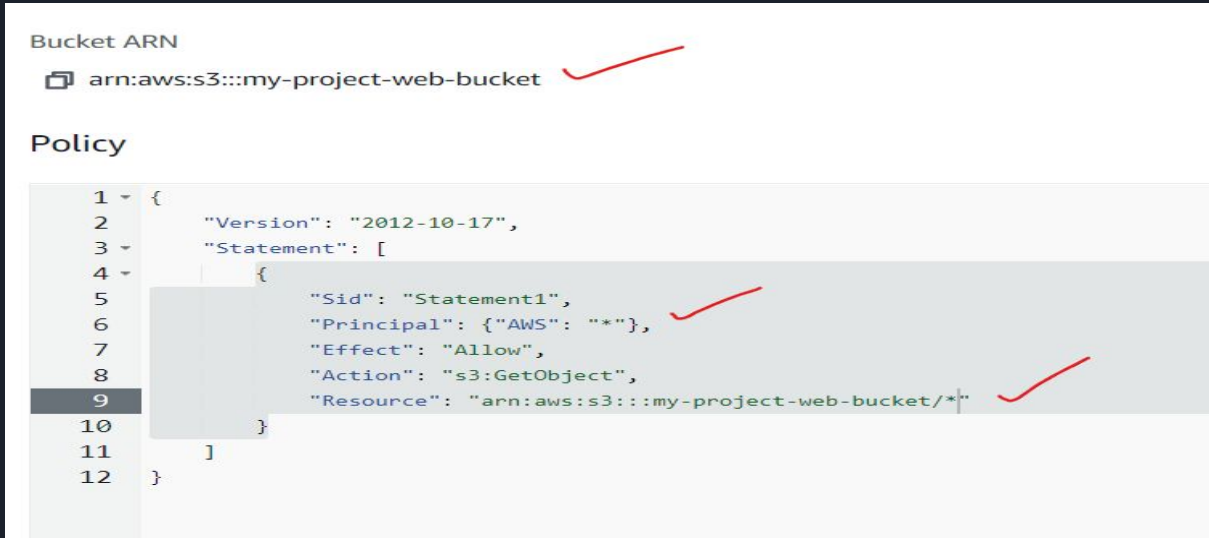
☐ GetObjectLegalHold ⓘ

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 27 : Change — “Principal”:”{}” —————> “Principal”:{”AWS”: “*”}

“ Resource”: []————->“ Resource”: “arn:aws:s3:::my-project-web-bucket/*”(bucket ARN)



The screenshot displays the AWS IAM console interface for configuring a policy. At the top, the 'Bucket ARN' is set to 'arn:aws:s3:::my-project-web-bucket', which is marked with a red checkmark. Below this, the 'Policy' section shows a JSON configuration. The 'Principal' is set to '{ "AWS": "*" }', also marked with a red checkmark. The 'Action' is 's3:GetObject', and the 'Resource' is 'arn:aws:s3:::my-project-web-bucket/*', both of which are marked with red checkmarks. The JSON is as follows:

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Sid": "Statement1",
6       "Principal": { "AWS": "*" },
7       "Effect": "Allow",
8       "Action": "s3:GetObject",
9       "Resource": "arn:aws:s3:::my-project-web-bucket/*"
10    }
11  ]
12 }
```

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 28 : Then Save the changes made

+ Add new statement

2. Add a resource

3. Add a condition (optional)

JSON Ln 9, Col 50

Security: 0 **Errors: 1** Warnings: 0 Suggestions: 0 [Preview external access](#)

Cancel

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 29: The bucket policy is edited and access is made public

✓ Successfully edited bucket policy.

Amazon S3 > Buckets > my-project-web-bucket

my-project-web-bucket [Info](#)

Publicly accessible

Objects | Properties | **Permissions** | Metrics | Management | Access Points

Permissions overview

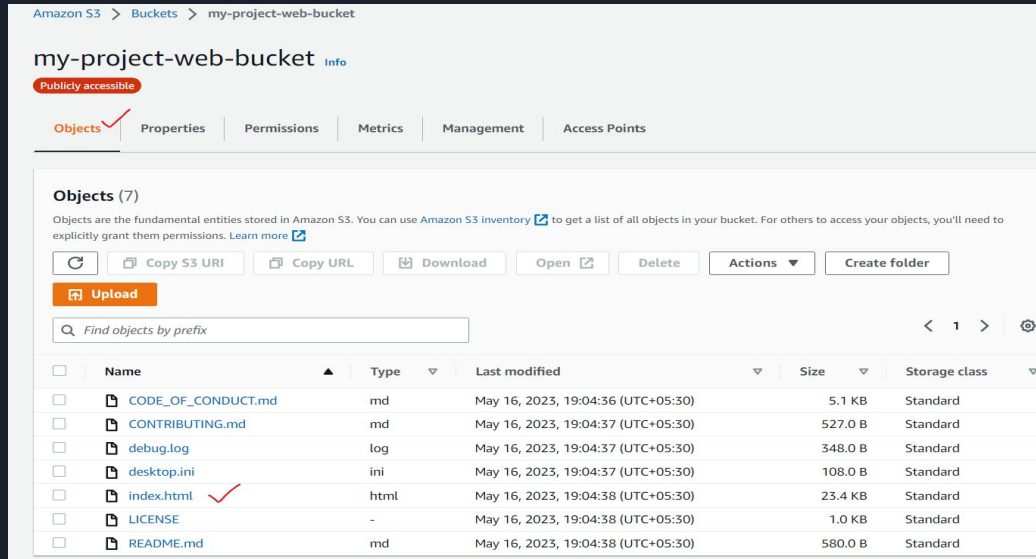
Access

Public ✓

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 30 : Under “Object” section click on “index.html”



The screenshot displays the AWS Management Console interface for the 'my-project-web-bucket'. The 'Objects' tab is selected, showing a list of 7 objects. The 'index.html' file is highlighted with a red checkmark. The console includes navigation tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. Below the object list, there are buttons for various actions like 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', and 'Create folder'. A search bar is also present for finding objects by prefix.

Amazon S3 > Buckets > my-project-web-bucket

my-project-web-bucket [info](#)

Publicly accessible

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

Objects (7)

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](#)

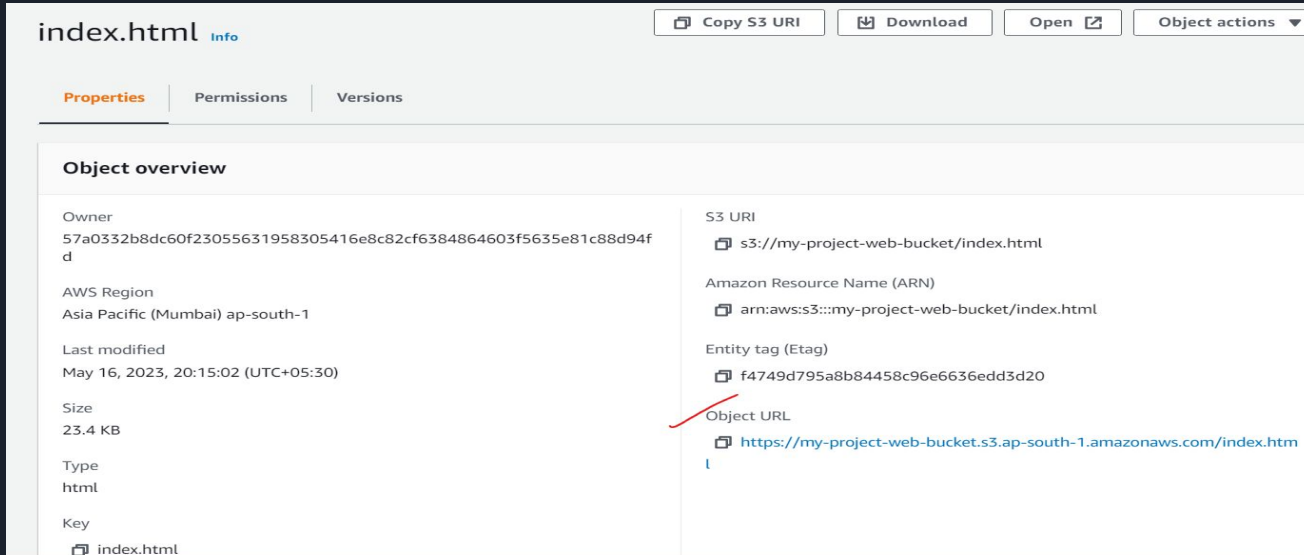
[Upload](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	CODE_OF_CONDUCT.md	md	May 16, 2023, 19:04:36 (UTC+05:30)	5.1 KB	Standard
<input type="checkbox"/>	CONTRIBUTING.md	md	May 16, 2023, 19:04:37 (UTC+05:30)	527.0 B	Standard
<input type="checkbox"/>	debug.log	log	May 16, 2023, 19:04:37 (UTC+05:30)	348.0 B	Standard
<input type="checkbox"/>	desktop.ini	ini	May 16, 2023, 19:04:37 (UTC+05:30)	108.0 B	Standard
<input type="checkbox"/>	index.html ✓	html	May 16, 2023, 19:04:38 (UTC+05:30)	23.4 KB	Standard
<input type="checkbox"/>	LICENSE	-	May 16, 2023, 19:04:38 (UTC+05:30)	1.0 KB	Standard
<input type="checkbox"/>	README.md	md	May 16, 2023, 19:04:38 (UTC+05:30)	580.0 B	Standard

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

STEP 31 : Click the Object URL from “Object URL”



The screenshot displays the AWS Management Console interface for an S3 object named `index.html`. The console shows various metadata and actions for this object. A red arrow points to the **Object URL** field, which contains the URL `https://my-project-web-bucket.s3.ap-south-1.amazonaws.com/index.html`.

index.html Info

[Copy S3 URI](#) [Download](#) [Open](#) [Object actions](#)

Properties | **Permissions** | **Versions**

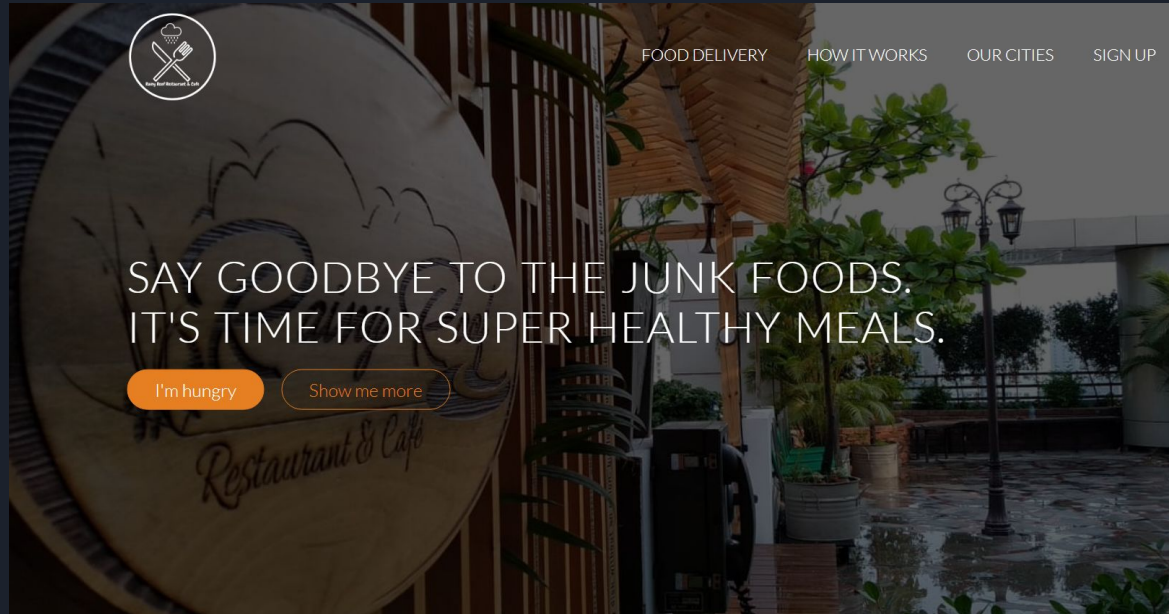
Object overview

Owner 57a0332b8dc60f23055631958305416e8c82cf6384864603f5635e81c88d94fd	S3 URI s3://my-project-web-bucket/index.html
AWS Region Asia Pacific (Mumbai) ap-south-1	Amazon Resource Name (ARN) arn:aws:s3::my-project-web-bucket/index.html
Last modified May 16, 2023, 20:15:02 (UTC+05:30)	Entity tag (Etag) f4749d795a8b84458c96e6636edd3d20
Size 23.4 KB	Object URL https://my-project-web-bucket.s3.ap-south-1.amazonaws.com/index.html
Type html	
Key index.html	

Steps to Host A Website In AWS

The following shows the best way to host a website in AWS Management Console

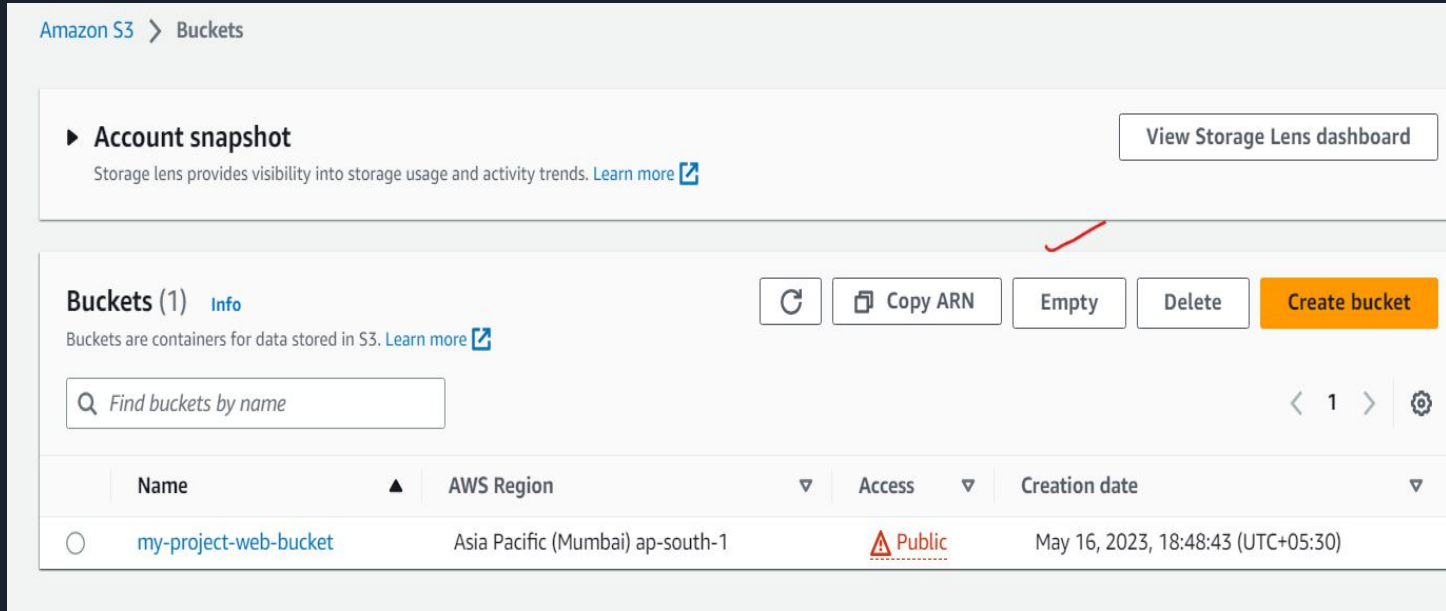
STEP 32 : The website is displayed!



Steps to Delete A Website In AWS

The following shows the way to delete a website in AWS Management Console

STEP 1 : To delete the bucket first empty the bucket



Amazon S3 > Buckets

► **Account snapshot** View Storage Lens dashboard

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

Buckets (1) [Info](#) Refresh Copy ARN Empty Delete Create bucket

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


	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<input type="radio"/>	my-project-web-bucket	Asia Pacific (Mumbai) ap-south-1	Public	May 16, 2023, 18:48:43 (UTC+05:30)

Steps to Delete A Website In AWS


The following shows the way to delete a website in AWS Management Console


STEP 2 : Now click on “Empty”


Empty bucket Info



- Emptying the bucket deletes all objects in the bucket and cannot be undone.
- Objects added to the bucket while the empty bucket action is in progress might be deleted.
- To prevent new objects from being added to this bucket while the empty bucket action is in progress, you might need to update your bucket policy to stop objects from being added to the bucket.

[Learn more](#) 



If your bucket contains a large number of objects, creating a lifecycle rule to delete all objects in the bucket might be a more efficient way of emptying your bucket. [Learn more](#) 

Go to lifecycle rule configuration


Permanently delete all objects in bucket "my-project-web-bucket"?

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

permanently delete

Cancel

Empty




Steps to Delete A Website In AWS


The following shows the way to delete a website in AWS Management Console

STEP 3 : The bucket is completely emptied now, then select “Exit”

☑ Successfully emptied bucket "my-project-web-bucket"

View details below. If you want to delete this bucket, use the [delete bucket configuration](#).

Empty bucket: status 

Cancel  Exit

📘 The details below are no longer available after you navigate away from this page.

Summary

Source	Successfully deleted	Failed to delete
s3://my-project-web-bucket	🟢 68 objects, 16.8 MB	0 objects

Failed to delete (0)

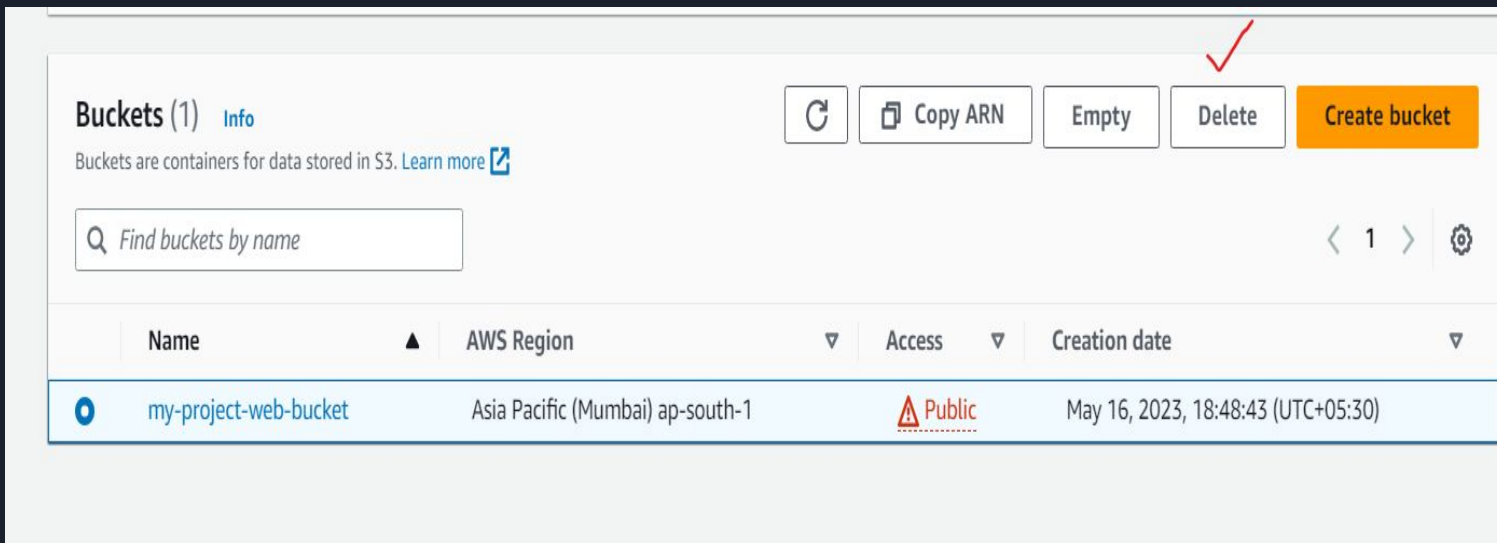
< 1 >

Name	Prefix	Version ID	Type	Last modified	Size	Error
No failed object deletions						

Steps to Delete A Website In AWS

The following shows the way to delete a website in AWS Management Console

STEP 4 : Now click “Delete” to delete the bucket



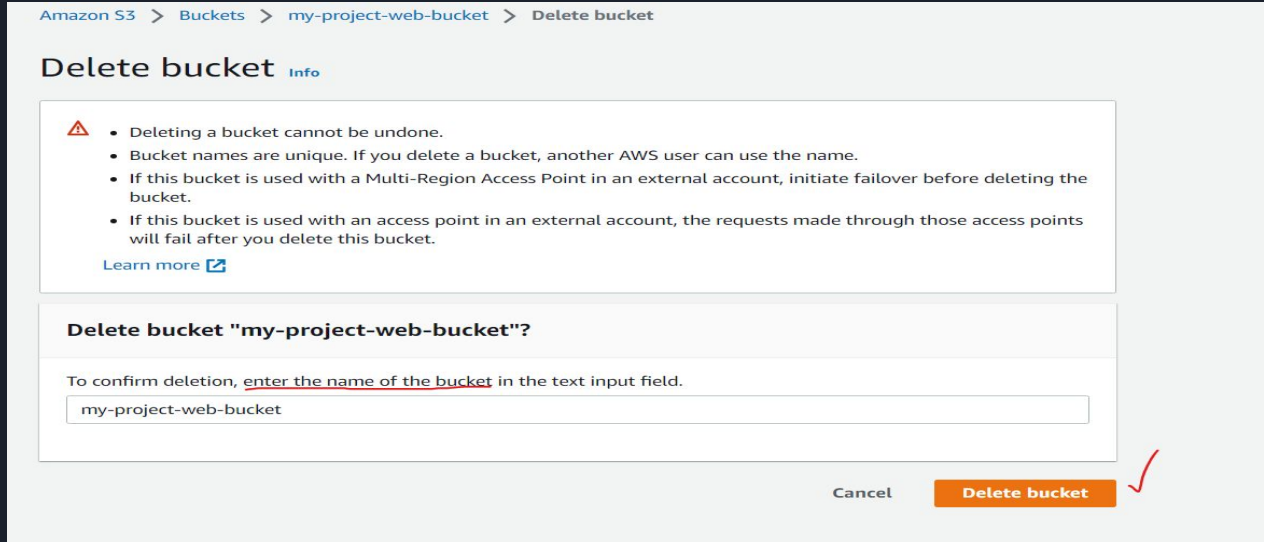
The screenshot shows the AWS Management Console interface for the 'Buckets' section. At the top, there are buttons for 'Refresh', 'Copy ARN', 'Empty', 'Delete', and 'Create bucket'. The 'Delete' button is highlighted with a red checkmark. Below the buttons, there is a search bar with the placeholder text 'Find buckets by name'. A table lists the buckets, with one bucket named 'my-project-web-bucket' shown. The table has columns for Name, AWS Region, Access, and Creation date.

Name	AWS Region	Access	Creation date
my-project-web-bucket	Asia Pacific (Mumbai) ap-south-1	Public	May 16, 2023, 18:48:43 (UTC+05:30)

Steps to Delete A Website In AWS

The following shows the way to delete a website in AWS Management Console


STEP 5 :Click on “Delete bucket” now




The screenshot shows the AWS Management Console interface for deleting a bucket. The breadcrumb navigation at the top reads: Amazon S3 > Buckets > my-project-web-bucket > Delete bucket. The main heading is 'Delete bucket' with an 'Info' link. Below this is a warning box with a red triangle icon and a bulleted list of important information: deleting a bucket is irreversible, bucket names are unique, and deleting a bucket used with a Multi-Region Access Point or an external access point will cause requests to fail. A 'Learn more' link is provided. The next section is titled 'Delete bucket "my-project-web-bucket"?' and contains a confirmation instruction: 'To confirm deletion, enter the name of the bucket in the text input field.' Below this is a text input field containing 'my-project-web-bucket'. At the bottom right, there are two buttons: 'Cancel' and 'Delete bucket'. A red checkmark is drawn next to the 'Delete bucket' button.

Amazon S3 > Buckets > my-project-web-bucket > Delete bucket

Delete bucket [Info](#)


 • Deleting a bucket cannot be undone.

- Bucket names are unique. If you delete a bucket, another AWS user can use the name.
- If this bucket is used with a Multi-Region Access Point in an external account, initiate failover before deleting the bucket.
- If this bucket is used with an access point in an external account, the requests made through those access points will fail after you delete this bucket.

[Learn more](#) 

Delete bucket "my-project-web-bucket"?

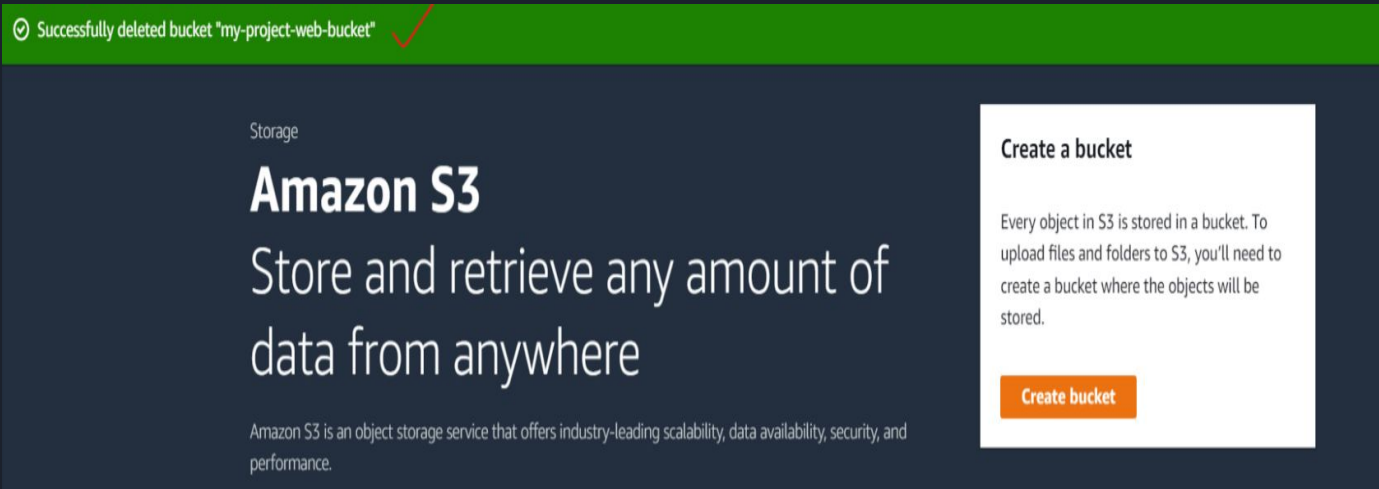
To confirm deletion, enter the name of the bucket in the text input field.

Cancel **Delete bucket** 

Steps to Delete A Website In AWS

The following shows the way to delete a website in AWS Management Console

STEP 6 : The Bucket is Successfully deleted permanently



✔ Successfully deleted bucket "my-project-web-bucket" ✓

Storage

Amazon S3

Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

Create bucket

Security In Web Hosting

Raise your security posture with AWS infrastructure and services. AWS allows you to automate manual security tasks so that you can shift your focus to scaling and innovating your business.

- Identity and access management
- Detection
- Network and application protection
- Data protection
- Compliance





Benefits of security

- Scale Securely with Superior Visibility and Control
- Automate and Reduce Risk with Deeply Integrated Services
- Build with the Highest Standards for Privacy and Data Security
- Largest Ecosystem of Security Partners and Solutions
- Inherit the Most Comprehensive Security and Compliance Controls

THANK YOU !

