

**Create an S3 bucket and deploy the reactjs static application on it and provide with the public url for use.**

The screenshot shows two consecutive pages from the AWS S3 Management Console.

**Page 1: Create a Bucket**

This page displays the "Create a bucket" wizard. It includes a brief introduction to Amazon S3, a "How it works" video player, and sections for "Pricing" and "Resources". The "Create bucket" button is prominently displayed at the bottom right.

**Page 2: Buckets**

This page shows the list of buckets in the account. The "Buckets" section has a search bar and a table with columns for Name, AWS Region, Access, and Creation date. A "Create bucket" button is located at the bottom right of the table area.

The screenshot shows the AWS S3 'Create bucket' wizard interface. The steps visible are:

- General configuration**: Bucket name is 'rectest411'. AWS Region is set to 'Asia Pacific (Mumbai) ap-south-1'. A note indicates that copy settings from existing buckets are optional.
- Object Ownership**: Shows two options: 'ACLs disabled (recommended)' (selected) and 'ACLs enabled'. A note states that starting in April 2023, the s3:PutBucketOwnershipControls permission will be required.
- Block Public Access settings for this bucket**: Shows the 'Block all public access' checkbox is unchecked.
- Advanced settings**: Shows the 'After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.' link.

S3 Management Console

Successfully created bucket "reactjsbkt1". To upload files and folders, or to configure additional bucket settings choose View details.

Amazon S3 > Buckets

Buckets (1) Info

reactjsbkt1

Name AWS Region Access Creation date

reactjsbkt1 Asia Pacific (Mumbai) ap-south-1 Objects can be public March 22, 2023, 15:31:06 (UTC+05:30)

Create bucket

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reactjsbkt1 - S3 bucket

Amazon S3 > Buckets > reactjsbkt1

reactjsbkt1 Info

Properties

Bucket overview

Amazon Resource Name (ARN): arnaws3:reactjsbkt1

Creation date: March 22, 2023, 15:31:06 (UTC+05:30)

Bucket Versioning: Disabled

Multifactor authentication (MFA) delete: Disabled

Tags (0): No tags associated with this resource.

Default encryption: Enabled

Encryption key type: AWS KMS managed key (SSSE-S3)

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

Enabled

Intelligent-Tiering Archive configurations (0)

View details Edit Delete Create configuration

https://s3.console.aws.amazon.com/s3/#

**Edit static website hosting**

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

Static website hosting  
 Enable  
 Disable

Cancel **Save changes**

**reactjsbkt1 - S3 bucket**

**Permissions overview**

Access: Objects can be public

**Block public access (bucket settings)**

Block all public access

**Bucket policy**

No policy to display.

**Edit bucket policy**

**Bucket policy**

Bucket ARN: arnaws3::reactjsbkt1

**Policy**

+ Add new statement

JSON: Ln 1, Col 0

Preview external access

Cancel Save changes

The screenshot displays two side-by-side instances of the AWS S3 Bucket Policy Editor. Both instances show the same JSON policy code, indicating they are for the same bucket.

**Bucket Policy (Top Window):**

```

1: {
  "version": "2012-10-17",
  "statement": [
    {
      "sid": "Statement1",
      "effect": "Allow",
      "action": [],
      "resource": []
    }
  ]
}
  
```

**Bucket Policy (Bottom Window):**

```

1: {
  "version": "2012-10-17",
  "statement": [
    {
      "sid": "Statement1",
      "effect": "Allow",
      "action": [
        "s3:GetObject"
      ],
      "resource": []
    }
  ]
}
  
```

In the second window's policy editor, the "Add actions" dropdown shows "All services" selected, and "GetObject" is checked. The "Add resource" dropdown shows "s3" selected.

The screenshot shows the AWS S3 Bucket Policy Editor. The main window displays a JSON policy for the bucket 'reactjsbkt1'. The policy grants full access ('\*') to objects in the bucket to all users ('\*'). The 'Statement' section contains one rule:

```
1: {
  2:   "Version": "2012-10-17",
  3:   "StatementId": "1",
  4:   "Effect": "Allow",
  5:   "Action": "s3:GetObject",
  6:   "Resource": ["arn:aws:s3:::reactjsbkt1/*"]
}
```

The right side of the editor shows the 'Edit statement' panel with the 'Statement1' tab selected. It includes sections for 'Included' and 'Available' resources, and buttons for 'Add actions', 'Add resource', and 'Add condition'.

Below the main editor, an 'Add new statement' button and a JSON validation message 'JSON: Ln 5, Col 21' are visible. At the bottom, there are 'Cancel' and 'Save changes' buttons.

A separate 'Add resource' dialog box is overlaid on the main window. It asks for a service ('S3'), resource type ('object'), and resource ARN ('arn:aws:s3:::reactjsbkt1/\*'). It also has 'Cancel' and 'Add resource' buttons.

reactjsbkt1 - S3 bucket

s3.console.aws.amazon.com/s3/bucket/reactjsbkt1/property/policy/edit?region=ap-south-1

## Policy

```

1  {
2      "Version": "2012-10-17",
3      "Statement": [
4          {
5              "Sid": "Statement1",
6              "Principal": "*",
7              "Effect": "Allow",
8              "Action": [
9                  "s3:GetObject"
10             ],
11             "Resource": [
12                 "arn:aws:s3:::reactjsbkt1/*"
13             ]
14         }
15     ]
16 }

```

reactjsbkt1 - S3 bucket

s3.console.aws.amazon.com/s3/bucket/reactjsbkt1/property/policy/edit?region=ap-south-1

Amazon S3 > Buckets > reactjsbkt1 > Edit bucket policy

### Edit bucket policy

**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

**Bucket ARN**

arn:aws:s3:::reactjsbkt1

**Policy**

```

1  {
2      "Version": "2012-10-17",
3      "Statement": [
4          {
5              "Sid": "Statement1",
6              "Principal": "*",
7              "Effect": "Allow",
8              "Action": [
9                  "s3:GetObject"
10             ],
11             "Resource": [
12                 "arn:aws:s3:::reactjsbkt1/*"
13             ]
14         }
15     ]
16 }

```

**Edit statement**

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

+ Add new statement

JSON: Ln 16, Col 1

Security: 0 Errors: 0 Warnings: 0 Suggestions: 0

Preview external access

Cancel Save changes

The screenshot displays two windows side-by-side. The top window is the AWS S3 console showing the 'reactjsbkt1' bucket's permissions. A green success message at the top says 'Successfully edited bucket policy.' The 'Permissions' tab is selected. Under 'Access', it shows 'Public' with 'Block all public access' set to 'Off'. Below that is the 'Bucket policy' section, which contains the following JSON:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Statement1",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "S3GetObject",
      "Resource": "arn:aws:s3:::reactjsbkt1/*"
    }
  ]
}
```

The bottom window is Visual Studio Code, showing the file 'App.js' in the 'AMAZONREACT' project. The code is as follows:

```

1 import './App.css';
2 import Header from './components/Header/Header';
3 import Subheader from './components/Subheader/Subheader';
4 import Main from './components/Content/Main';
5
6 function App() {
7   return (
8     <>
9       <Header/>
10      <Subheader/>
11      <Main/>
12    </>
13  );
14}
15
16
17 export default App;
18
```

The screenshot shows a Visual Studio Code interface with three main panes:

- Left pane (Explorer):** Shows the file structure of a React application named "AMAZONREACT". It includes folders for "public", "images", and "src". The "src" folder contains "components", "App.css", "App.js", "index.css", "index.js", ".gitignore", "package-lock.json", "package.json", and "README.md".
- Middle pane (Editor):** Displays the content of the "App.js" file. The code imports components from "App.css" and other files, and defines a functional component "App" that returns a nested component structure.
- Right pane (Terminal):** Shows a terminal window running on Windows PowerShell. The command "npm start" is entered and ready to be run.

```
1 import './App.css';
2 import Header from './components/Header/Header';
3 import Subheader from './components/Subheader/Subheader';
4 import Main from './components/Content/Main';
5 function App() {
6   return (
7     <>
8       <Header/>
9       <Subheader/>
10      <Main/>
11    </>
12  );
13}
14
15
16
17 export default App;
```

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\ADMIN\Downloads\Devops_Batch_Aditya-master\Devops_Batch_Aditya-master\amazonreact> npm start
```

The screenshot displays two instances of Visual Studio Code side-by-side, both showing the same code editor interface.

**Top Instance (Visual Studio Code):**

- File Structure:** The Explorer sidebar shows a project structure with folders like `AMAZONREACT`, `node_modules`, `public`, `images`, and `src`. Inside `src`, there are `components`, `App.css`, `App.js`, `index.css`, `index.js`, `.gitignore`, `package-lock.json`, `package.json`, and `README.md`.
- Code Editor:** The main editor shows the `App.js` file content. The code defines a `App` component that returns a JSX structure with `<Header>`, `<Subheader>`, and `<Main>` components.
- Terminal:** The bottom right terminal shows ESLint errors:
 

```
Search for the keywords to learn more about each warning.  
To ignore, add // eslint-disable-next-line to the line before.
```

**WARNING in [eslint]**  
`src\components\Subheader\Subheader.js`  
 Line 11:9: 'hoverstyle' is assigned a value but never used `no-unused-vars`  
 Line 15:11: 'handleHoverin' is assigned a value but never used `no-unused-vars`  
 Line 18:11: 'handleHoverout' is assigned a value but never used `no-unused-vars`

**Bottom Instance (Visual Studio Code):**

- File Structure:** The Explorer sidebar shows the same project structure as the top instance.
- Code Editor:** The main editor shows the `App.js` file content, identical to the top instance.
- Terminal:** The bottom right terminal shows the output of the `npm run build` command in a Windows PowerShell window:
 

```
Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows  
PS C:\Users\ADMIN\Downloads\Devops_Batch_Aditya-master\Devops_Batch_Aditya-master\amazonreact> npm run build
```

File Edit Selection View Go Run Terminal Help App.js - amazonreact - Visual Studio Code

EXPLORER OPEN EDITORS App.js src ...

AMAZONREACT build node\_modules public images amazon.png favicon.ico index.html logo192.png logo512.png manifest.json robots.txt

src components App.css App.js index.css index.js .gitignore package-lock.json package.json README.md

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>  
PS C:\Users\ADMIN\Downloads\Devops\_Batch\_Aditya-master\Devops\_Batch\_Aditya-master\amazonreact> **npm run build**  
> amazonreact@0.1.0 build  
> react-scripts build  
  
Creating an optimized production build...

Ln 1, Col 1 Spaces: 2 UTF-8 LF {} JavaScript Go Live

File Edit Selection View Go Run Terminal Help App.js - amazonreact - Visual Studio Code

EXPLORER OPEN EDITORS App.js src ...

AMAZONREACT build node\_modules public images amazon.png favicon.ico index.html logo192.png logo512.png manifest.json robots.txt

src components App.css App.js index.css index.js .gitignore package-lock.json package.json README.md

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

The build folder is ready to be deployed.  
You may serve it with a static server:  
  
npm install -g serve  
serve -s build  
  
Find out more about deployment here:  
<https://cra.link/deployment>

PS C:\Users\ADMIN\Downloads\Devops\_Batch\_Aditya-master\Devops\_Batch\_Aditya-master\amazonreact>

Ln 1, Col 1 Spaces: 2 UTF-8 LF {} JavaScript Go Live

The screenshot shows a Visual Studio Code interface with the following details:

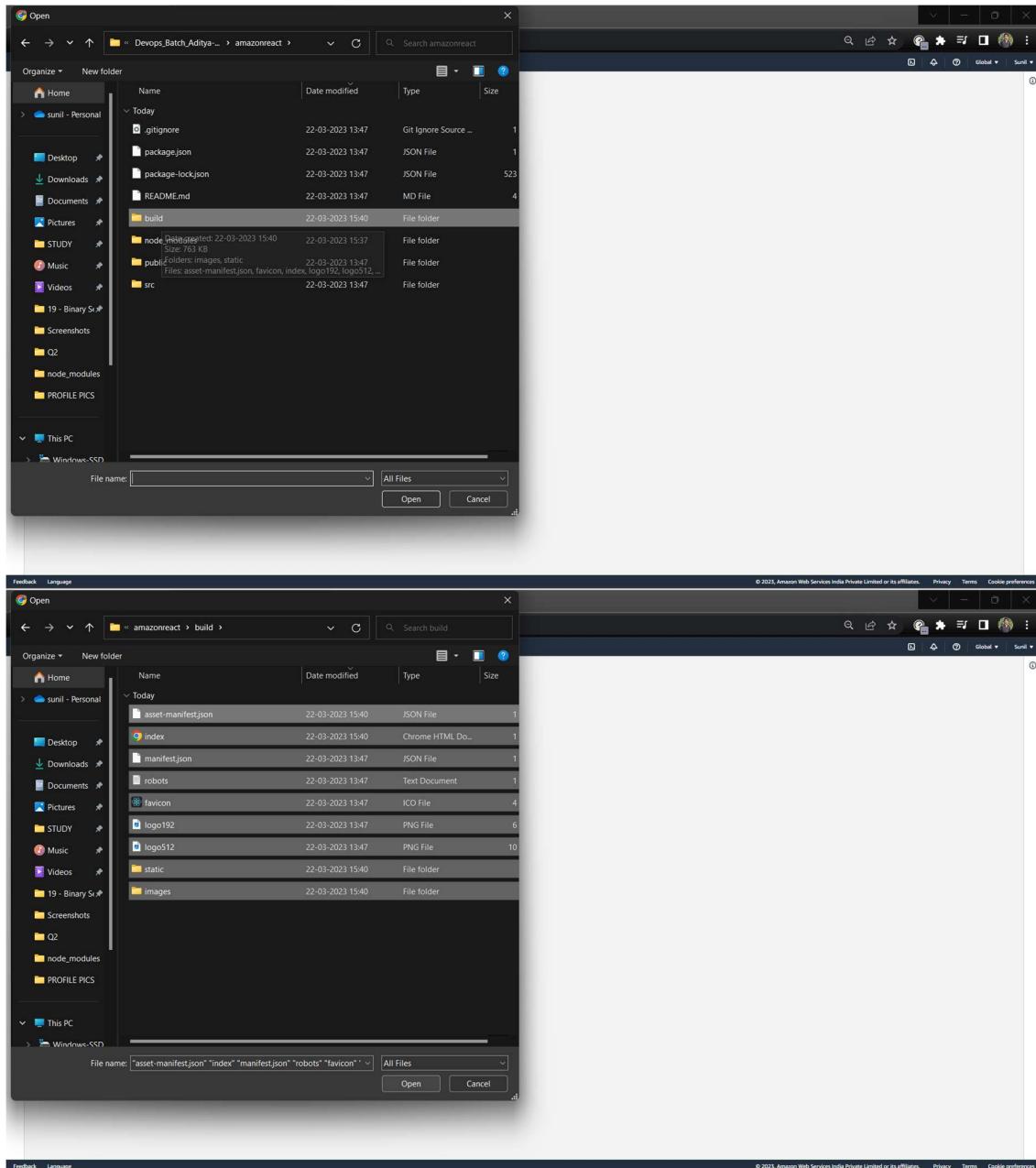
- Explorer:** Shows the project structure with a focus on the `build` folder.
- Code Editor:** Displays the `App.js` file content:

```

1  import './App.css';
2  import Header from './components/Header/Header';
3  import Subheader from './components/Subheader/Subheader';
4  import Main from './components/Content/Main';
5
6  function App() {
7    return (
8      <>
9        <Header/>
10       <Subheader/>
11       <Main/>
12     </>
13   );
14 }
15
16 export default App;
17 
```

- Terminal:** Shows deployment instructions:
  - The `build` folder is ready to be deployed.
  - You may serve it with a static server:
  - `npm install -g serve`
  - `serve -s build`
  - Find out more about deployment here: <https://cra.link/deployment>
- Browser:** Shows the AWS S3 console at [s3.console.aws.amazon.com/s3/buckets/reactjsbkt1?region=ap-south-1&tab=objects](https://s3.console.aws.amazon.com/s3/buckets/reactjsbkt1?region=ap-south-1&tab=objects). The bucket `reactjsbkt1` is listed under Buckets, and the objects tab shows an empty list.

The screenshot shows the AWS S3 Management Console's 'Upload' interface. The URL is <https://s3.console.aws.amazon.com/s3/upload/reactjsbkt1?region=ap-south-1>. The 'Files and folders' section is empty, displaying a message 'No files or folders'. The 'Destination' section shows the bucket 's3://reactjsbkt1'. The 'Properties' and 'Permissions' sections are collapsed. A large orange 'Upload' button is visible at the bottom right.

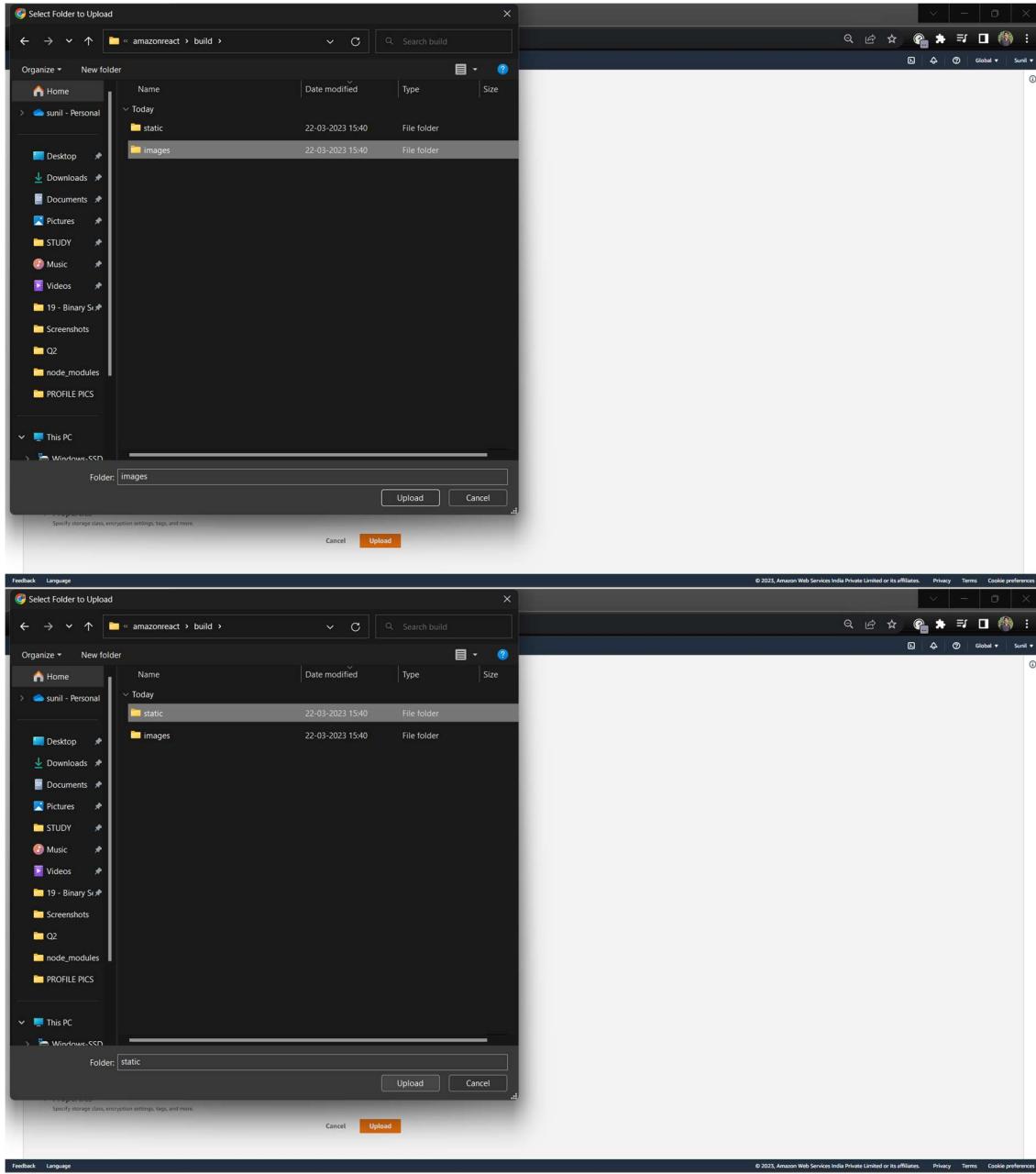


The screenshot displays the AWS S3 Management Console's 'Upload' interface. The 'Files and folders' section shows a list of files from the 'build' folder, totaling 20.1 KB. The list includes:

| Name                | Type             | Size    |
|---------------------|------------------|---------|
| asset-manifest.json | application/json | 369.0 B |
| favicon.ico         | image/x-icon     | 5.8 KB  |
| index.html          | text/html        | 754.0 B |
| logos192.png        | image/png        | 5.2 KB  |
| logos512.png        | image/png        | 9.4 KB  |
| manifest.json       | application/json | 492.0 B |
| robots.txt          | text/plain       | 67.0 B  |

The 'Destination' field is set to 's3/reactjsbkt1'. Below it, 'Destination details' and 'Permissions' sections are visible. At the bottom right are 'Cancel' and 'Upload' buttons.

A modal window titled 'Select Folder to Upload' is overlaid on the main interface. It shows a file explorer view with the current path being 'amazonreact/build'. The 'static' folder is expanded, revealing the 'images' folder. The 'Folder' dropdown at the bottom is set to 'images'. At the bottom of the modal are 'Upload' and 'Cancel' buttons.



S3 Management Console    Amazon    s3.console.aws.amazon.com/s3/upload/reactjsbkt1?region=ap-south-1

**Upload**

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 [\[?\]](#)

Drop and drag files and folders you want to upload here, or choose [Add files](#), or [Add folder](#).

**Files and folders (13 Total, 763.9 KB)**

All files and folders in this table will be uploaded.

| <input type="checkbox"/> | Name                         | Folder      | Type             | Size     |
|--------------------------|------------------------------|-------------|------------------|----------|
| <input type="checkbox"/> | amazon.png                   | images/     | image/png        | 36.3 KB  |
| <input type="checkbox"/> | asset-manifest.json          | -           | application/json | 369.0 B  |
| <input type="checkbox"/> | favicon.ico                  | -           | image/x-icon     | 3.8 KB   |
| <input type="checkbox"/> | index.html                   | -           | text/html        | 754.0 B  |
| <input type="checkbox"/> | logo192.png                  | -           | image/png        | 5.2 KB   |
| <input type="checkbox"/> | logo512.png                  | -           | image/png        | 9.4 KB   |
| <input type="checkbox"/> | main.05967354.css            | static/css/ | text/css         | 2.3 KB   |
| <input type="checkbox"/> | main.05967354.css.map        | static/css/ | -                | 5.8 KB   |
| <input type="checkbox"/> | main.8885b6a2.js             | static/js/  | text/javascript  | 178.0 KB |
| <input type="checkbox"/> | main.8885b6a2.js.LICENSE.txt | static/js/  | text/plain       | 1.1 KB   |

**Destination**

Destination: [s3://reactjsbkt1](#)

► 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.

**Feedback**    Language

**Uploading**

Total remaining: 13 files: 763.9 KB (100.00%)  
Estimated time remaining: calculating...  
Transfer rate: 0 B/s

**Upload: status**

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

**Summary**

| Destination      | Succeeded         | Failed            |
|------------------|-------------------|-------------------|
| s3://reactjsbkt1 | 0 files, 0 B (0%) | 0 files, 0 B (0%) |

[Close](#)

**Files and folders (13 Total, 763.9 KB)**

| <input type="checkbox"/> | Name                         | Folder      | Type             | Size     | Status | Error |
|--------------------------|------------------------------|-------------|------------------|----------|--------|-------|
| <input type="checkbox"/> | amazon.png                   | images/     | image/png        | 36.3 KB  |        | -     |
| <input type="checkbox"/> | asset-manifest.json          | -           | application/json | 369.0 B  |        | -     |
| <input type="checkbox"/> | favicon.ico                  | -           | image/x-icon     | 3.8 KB   |        | -     |
| <input type="checkbox"/> | index.html                   | -           | text/html        | 754.0 B  |        | -     |
| <input type="checkbox"/> | logo192.png                  | -           | image/png        | 5.2 KB   |        | -     |
| <input type="checkbox"/> | logo512.png                  | -           | image/png        | 9.4 KB   |        | -     |
| <input type="checkbox"/> | main.05967354.css            | static/css/ | text/css         | 2.3 KB   |        | -     |
| <input type="checkbox"/> | main.05967354.css.map        | static/css/ | -                | 5.8 KB   |        | -     |
| <input type="checkbox"/> | main.8885b6a2.js             | static/js/  | text/javascript  | 178.0 KB |        | -     |
| <input type="checkbox"/> | main.8885b6a2.js.LICENSE.txt | static/js/  | text/plain       | 1.1 KB   |        | -     |

**Feedback**    Language

S3 Management Console    Amazon    s3.console.aws.amazon.com/s3/upload/reactjsbkt1?region=ap-south-1

**Upload succeeded**  
View details below.

**Upload: status**

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

**Summary**

| Destination      | Status    | Details                      |
|------------------|-----------|------------------------------|
| s3://reactjsbkt1 | Succeeded | 13 files, 763.9 KB (100.00%) |
|                  | Failed    | 0 files, 0 B (0%)            |

**Files and folders** (13 Total, 763.9 KB)

| Name                         | Folder      | Type             | Size     | Status    | Error |
|------------------------------|-------------|------------------|----------|-----------|-------|
| amazon.png                   | images/     | image/png        | 36.3 KB  | Successed | -     |
| asset-manifest.json          | -           | application/json | 360.0 B  | Successed | -     |
| favicon.ico                  | -           | image/x-icon     | 5.8 KB   | Successed | -     |
| index.html                   | -           | text/html        | 754.0 B  | Successed | -     |
| logo192.png                  | -           | image/png        | 5.2 KB   | Successed | -     |
| logo512.png                  | -           | image/png        | 9.4 KB   | Successed | -     |
| main.05967354.css            | static/css/ | text/css         | 2.5 KB   | Successed | -     |
| main.05967354.css.map        | static/css/ | -                | 5.8 KB   | Successed | -     |
| main.B8B5m6s2.js             | static/js/  | text/javascript  | 178.0 KB | Successed | -     |
| main.B8B5m6s2.js.LICENSE.txt | static/js/  | text/plain       | 1.1 KB   | Successed | -     |

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reactjsbkt1 - S3 bucket    s3.console.aws.amazon.com/s3/buckets/reactjsbkt1?region=ap-south-1&tab=properties

Amazon S3 > Buckets > reactjsbkt1

**reactjsbkt1** Policy accessible

Objects Properties Permissions Metrics Management Access Points

**Bucket overview**

|                                  |                            |                                      |
|----------------------------------|----------------------------|--------------------------------------|
| AWS Region                       | Amazon Resource Name (ARN) | Creation date                        |
| Asia Pacific (Mumbai) ap-south-1 | arn:aws:s3:::reactjsbkt1   | March 22, 2023, 15:31:06 (UTC+05:30) |

**Bucket Versioning**

Versions 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 Info  
Disabled

Multi-factor authentication (MFA) delete

An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. Learn more ?

Enabled

**Tags (0)**

You can use bucket tags to track storage costs and organize buckets. Learn more ?

|  |       |
|--|-------|
| Key                                    | Value |
| No tags associated with this resource. |       |

**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)

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 ?

Enabled

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**reactjsbk1 - S3 bucket**

Amazon EventBridge  
For additional capabilities, use Amazon EventBridge to build event-driven applications at scale using S3 event notifications. Learn more or see EventBridge pricing.

Send notifications to Amazon EventBridge for all events in this bucket  
Off

Transfer acceleration  
Use an accelerated endpoint for faster data transfers. Learn more.

Transfer acceleration  
Disabled

Object Lock  
Store objects using a write-once-read-many (WORM) model to help you prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely. Learn more.

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

Static website hosting  
Using 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://reactjsbk1.s3-website.ap-south-1.amazonaws.com>

reactjsbk1.s3-website.ap-south-1.amazonaws.com

reactjsbk1 - S3 bucket | Amazon

Not secure | reactjsbk1.s3-website.ap-south-1.amazonaws.com

amazon Deliver to India Sign In Returns & Orders

Today's Deals Customer Service Registry Gift Cards

|                     |                            |                    |                         |             |               |
|---------------------|----------------------------|--------------------|-------------------------|-------------|---------------|
| iPhone 9            | iPhone X                   | Samsung Universe 9 | OPPO F19                | Huawei P30  | MacBook Pro   |
| Samsung Galaxy Book | Microsoft Surface Laptop 4 | Infinix INBOOK     | HP Pavilion 15-DK1056WM | perfume Oil | Brown Perfume |
|                     |                            |                    |                         |             |               |