

---

You are here: [Home](#) - [Amazon Services](#), [Angular](#) - [Upload Files to AWS S3 Buckets using Angular 9](#)

---

---

[□ Previous](#)   [Next □](#)

---

## Categories

[□ Amazon Services](#)

---

[□ Angular](#)

---

[□ Firebase](#)

---

# Upload Files to AWS S3 Buckets using Angular 9



## Upload Files to S3 AWS using Angular 9

Nowadays storage is a very important thing, we try to store things from floppy -CD/DVD-Pendrive-HardDisk and Now cloud is the new Trend,But what about file storage/upload from web/mobile app,various new storage services like Microsoft Azure,Google Firebase and AWS S3.

## What is AWS S3?

Amazon Simple Storage Service (Amazon S3) is object storage built to store and retrieve any amount of data from web or mobile.

## Set up for S3

### 1.Create an User

Go to <https://console.aws.amazon.com/iam/>

In the navigation pane, choose Users and then choose Add user.

Now set user-name and select User AWs access type as Programmatic access

2.Next to select Attach Existing policies directly in that AmazonS3FullAccess

3.Next to Create User

4.At Last to complete in that

You can able to download .csv for (Access key ID, Secret access key) that we can use for AWS connectivity to Angular

You can also see the List of user with their Access Key ID

## Create S3 Bucket

First now go to <https://s3.console.aws.amazon.com/s3/>

### 1.Create Bucket

The screenshot shows the 'Create bucket' form in the AWS S3 console. At the top, there are four buttons: '+ Create bucket' (highlighted in blue), 'Edit public access settings', 'Empty', and 'Delete'. Below these buttons is a table with three columns: 'Bucket name', 'Access', and a third column for public access settings. The 'Bucket name' column has a dropdown arrow. The 'Access' column has a dropdown arrow with an information icon. The table contains three rows of data:

Bucket name	Access	
<input type="checkbox"/> a	Objects can be public	
<input type="checkbox"/> c	Bucket and objects not public	
<input type="checkbox"/> d	Objects can be public	

## 2.Add Bucket name and Region

The screenshot shows the 'Create bucket' wizard in the AWS Management Console. It has four steps: 1. Name and region, 2. Configure options, 3. Set permissions, and 4. Review. In the 'Name and region' step, the 'Bucket name' field contains 'gajstore' and the 'Region' dropdown is set to 'Asia Pacific (Mumbai)'. There is also a section for 'Copy settings from an existing bucket' with a dropdown menu. At the bottom, there are 'Create', 'Cancel', and 'Next' buttons.

## Configure CORS for Bucket

Click on bucket and go to Permission Tab and then CORS config

The screenshot shows the AWS S3 bucket 'gajstore' in the 'Permissions' tab. The 'CORS configuration' sub-tab is active. It displays the 'CORS configuration editor' with the ARN 'arn:aws:s3::gajstore'. Below the editor, there is a text area containing a sample CORS policy XML code. The code is as follows:

Put this code in that CORS config

```
<?xml version="1.0" encoding="UTF-8"?>
<CORSConfiguration>
  <CORSRule>
    <AllowedOrigin>*</AllowedOrigin>
    <AllowedMethod>HEAD</AllowedMethod>
    <AllowedMethod>GET</AllowedMethod>
    <AllowedMethod>PUT</AllowedMethod>
    <AllowedMethod>POST</AllowedMethod>
    <AllowedMethod>DELETE</AllowedMethod>
    <ExposeHeader>ETag</ExposeHeader>
    <AllowedHeader>*</AllowedHeader>
```

```
</CORSRule>
</CORSConfiguration>
```

Configure CORS for Bucket, then click on Save button.

### Create Angular Set up

Create new Angular app

```
ng new s3aws
```

### Install AWS SDK

Install the AWS SDK using the following npm command

```
npm install aws-sdk --save
```

### Create a service

Create a service for handling file upload using the following CLI command

```
ng g s upload
```

next, import the following dependencies in UploadService class file

```
1 import * as AWS from 'aws-sdk/global';
2 import * as S3 from 'aws-sdk/clients/s3';
```

Create a method for upload a file in service. Here is the complete code of the upload method.

```
1 fileUpload(file) {
2     const contentType = file.type;
3     const bucket = new S3(
4         {
5             accessKeyId: 'AKIAABCDEFGHJIJ7M2',
6             secretAccessKey: 'PvgIV3Nq1aPBwxxxx',
7             region: 'ap-south-1',
8
```

```

9      }
10     );
11     const params = {
12         Bucket: 'gajstore',
13         Key: file.name,
14         Body: file,
15         ACL: 'public-read',
16         ContentType: contentType
17     };
18     bucket.upload(params, function (err, data)
19         if (err) {
20             console.log('ERROR: ',JSON.stringify
21                 return false;
22         }
23         console.log('File Uploaded.', data);
24         return true;
25     });
26 }

```

ACCESS KEY ID and Secret ACCESS-KEY can get from  
downloaded .csv

Your app.component.html file like this

```

1  <div>
2    <input type="file" (change)="onChange($event)">
3  </div>
4  <br>
5  <div>
6    <button class="btn btn-success"(click)="submit()"
7  </div>

```

app.component.ts file

```

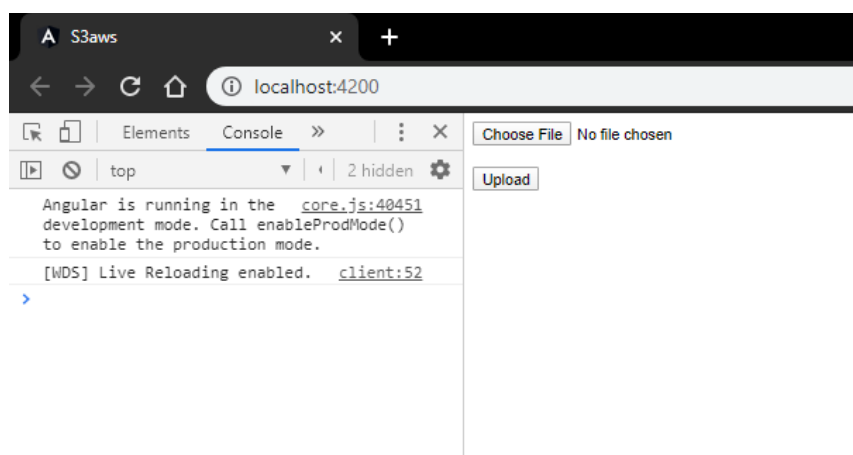
1  import { Component, OnInit } from '@angular/core'
2  import { UploadService } from '../upload.service';
3
4  @Component({
5    selector: 'app-root',

```

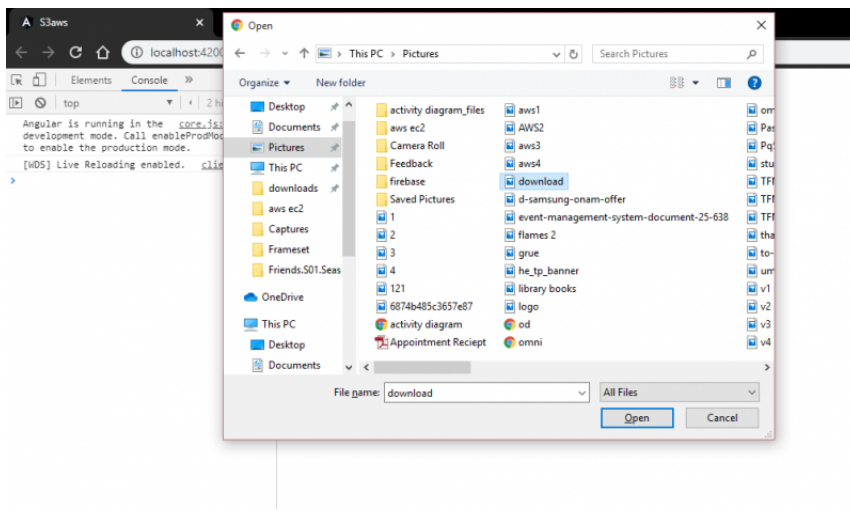
```
6     templateUrl: './app.component.html',
7     styleUrls: ['./app.component.css']
8   })
9   export class AppComponent implements OnInit {
10   toFile;
11   constructor(private uploadService: UploadService) {}
12
13   ngOnInit() {
14   }
15
16   submit() {
17     const file = this.toFile.item(0);
18     this.uploadService.fileUpload(file);
19   }
20
21   onChange(event) {
22     this.toFile = event.target.files;
23   }
24 }
25
26 }
27
```

run this project using the following command

>> *ng serve*

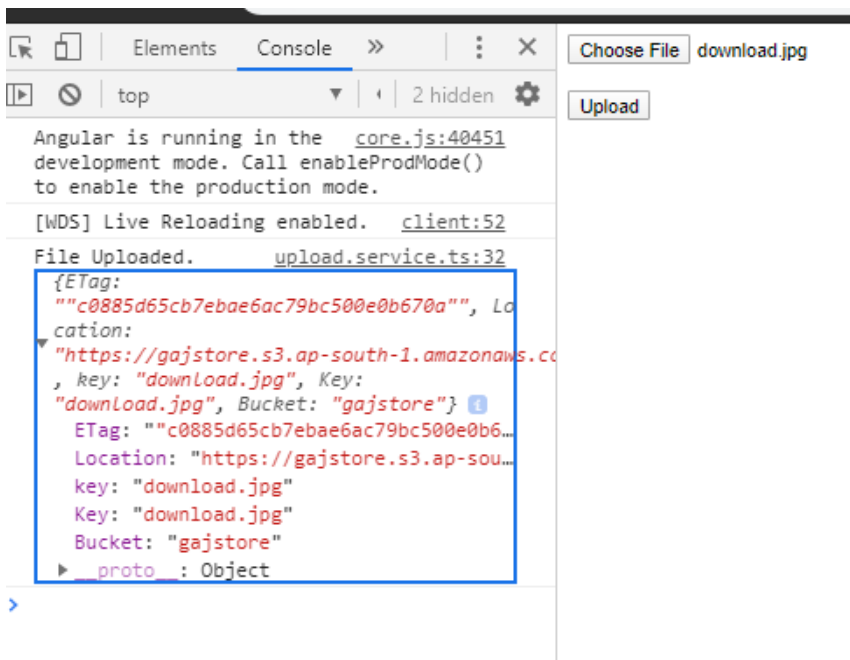


Upload the image or file from local



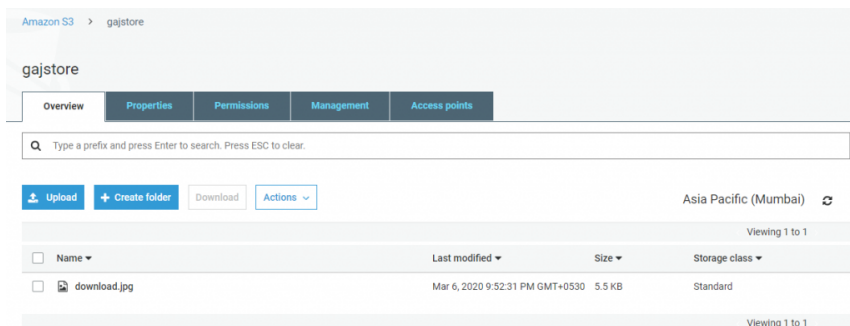
And click on upload

After uploading the file you have check the console log.



In log will find the location of the image

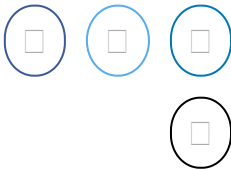
Now check the AWS S3 bucket if that data is present or not



Hurrey!!! That's how you can upload file in Aws S3 Bucket

By Gajanan | 4 months ago | Categories: Amazon Services, Angular | 0  
Comments

Share This Story, Choose Your  
Platform!



FIND US

Pune,Maharashtra,India  
Email:  
gajushinde8046@gmail.com

FOLLOW ME

