

Read, Write and Delete file from S3 Bucket via NodeJS



Amazon simple storage service (**Amazon S3**) **used** as storage for the internet. It has a simple web services interface that helps developers to store and retrieve data from anywhere around the globe. It is a highly scalable, fast, inexpensive storage, reliable, and highly trusted database.

Configure AWS s3

Firstly you should have to install `aws-sdk` through the given command.

```
$ npm install aws-sdk
```

Then, configure the s3 through given code

with `IAM_USER_KEY`, `IAM_USER_SECRET`, and `BUCKET_NAME`.

```
const s3 = new AWS.S3({
  accessKeyId: IAM_USER_KEY, /* required */ # Put your iam user
  secretAccessKey: IAM_USER_SECRET, /* required */ # Put your
  Bucket: BUCKET_NAME /* required */ # Put your bucket
  name
});
```

Parameters:

```
const params = {
  Bucket: BUCKET_NAME, /* required */ # Put your bucket
```

```

name
  Key: fileName          /* required */          # Put your file
name
};

```

We have converted all functions into `promises`. You can use any function in `promises` or `async/await`.

Upload File

In this section, we will see how to upload a file from our machine to **s3 bucket**. Use the following code.

```

#This function for upload file to s3 bucket
const s3upload = function (params) {
  return new Promise((resolve, reject) => {
    s3.createBucket({
      Bucket: BUCKET_NAME          /* Put your bucket name */
    }, function () {
      s3.putObject(params, function (err, data) {
        if (err) {
          reject(err)
        } else {
          console.log("Successfully uploaded data to bucket");
          resolve(data);
        }
      });
    });
  });
};

```

Read File

In this section, we will see how to read file data from **s3 bucket**. Use the following code.

```

# This function for read/download file from s3 bucket
const s3download = function (params) {
  return new Promise((resolve, reject) => {
    s3.createBucket({
      Bucket: BUCKET_NAME          /* Put your bucket name */
    }, function () {

```

```

        s3.getObject(params, function (err, data) {
            if (err) {
                reject(err);
            } else {
                console.log("Successfully dowloaded data
from bucket");
                resolve(data);
            }
        });
    });
});
}

```

Delete File

In this section, we will see how to delete file data from **s3**

bucket. Use the following code.

```

# This function for delete file from s3 bucket
const s3delete =
function (params) {
    return new Promise((resolve, reject) => {
        s3.createBucket({
            Bucket: BUCKET_NAME          /* Put your bucket name
*/
        }, function () {
            s3.deleteObject(params, function (err, data) {
                if (err) console.log(err);
                else
                    console.log(
                        "Successfully deleted file from bucket";
                    );
                console.log(data);
            });
        });
    });
};

```

An Amazon S3 bucket is a public cloud storage resource available in Amazon Web Services' (AWS) Simple Storage Service (S3), an object storage offering. Amazon S3 buckets, which are similar to file folders, store objects, which consist of data and its descriptive metadata.