Create a bash script to deploy your react app to S3

Creating bash script for s3 bucket

vi s3.sh

```bash
#!/bin/bash

#checking if bucket exists using awscli-V2-command
aws s3api head-bucket --bucket react-bibek-s3 --profile lft-training

if [ $? -ne 0 ];
then
    #if bucket doesn't exist, creating bucket
    aws s3 mb s3://react-bibek-s3 --region us-east-2 --profile lft-training

    #turning off block public access
    aws s3api put-public-access-block --bucket react-bibek-s3
--public-access-block-configuration
"BlockPublicAcls=false,IgnorePublicAcls=false,BlockPublicPolicy=false,RestrictPublicBuckets=false" --profile lft-training


    #object-public-read-policy
    aws s3api put-bucket-policy --bucket react-bibek-s3 --policy file://bucket-object-policy.json
--profile lft-training
fi

#syncing up build directory of react app
aws s3 sync /home/ec2-user/react/devops-demo/build s3://react-bibek-s3 --profile lft-training

#hosting static website in this bucket
aws s3 website s3://react-bibek-s3 --index-document index.html --error-document error.html
--profile lft-training
```

Save & exit

Bucket Object public read policy used in above script
vi bucket-object-policy.json

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

```
[ec2-user@ip-10-15-32-111 s3]$ ls
bucket-object-policy.json  s3.sh
```

Running the script

./s3.sh

Screenshot after running the script

```
[ec2-user@ip-10-15-32-111 s3]$ ./s3.sh

An error occurred (404) when calling the HeadBucket operation: Not Found
make_bucket: react-bibek-s3
Completed 1.1 KiB/~153.6 KiB (23.7 KiB/s) with ~11 file(s) remaining (calculat
upload: ../react/devops-demo/build/asset-manifest.json to s3://react-bibek-s3/
asset-manifest.json
Completed 1.1 KiB/~153.6 KiB (23.7 KiB/s) with ~10 file(s) remaining (calculat
Completed 129.1 KiB/502.2 KiB (1.4 MiB/s) with 19 file(s) remaining
upload: ../react/devops-demo/build/static/js/2.693a0ffc.chunk.js to s3://react
-bibek-s3/static/js/2.693a0ffc.chunk.js
upload: ../react/devops-demo/build/static/js/main.7f32f9d5.chunk.js to s3://re
act-bibek-s3/static/js/main.7f32f9d5.chunk.js
upload: ../react/devops-demo/build/error.html to s3://react-bibek-s3/error.htm
l
upload: ../react/devops-demo/build/favicon.ico to s3://react-bibek-s3/favicon.
ico
upload: ../react/devops-demo/build/index.html to s3://react-bibek-s3/index.htm
l
upload: ../react/devops-demo/build/logo192.png to s3://react-bibek-s3/logo192.
png
upload: ../react/devops-demo/build/static/js/main.7f32f9d5.chunk.js.map to s3:
//react-bibek-s3/static/js/main.7f32f9d5.chunk.js.map
upload: ../react/devops-demo/build/static/js/runtime-main.3a77b86b.js to s3://
react-bibek-s3/static/js/runtime-main.3a77b86b.js
upload: ../react/devops-demo/build/static/js/3.98dc922f.chunk.js to s3://react
-bibek-s3/static/js/3.98dc922f.chunk.js
upload: ../react/devops-demo/build/static/js/3.98dc922f.chunk.js.map to s3://r
eact-bibek-s3/static/js/3.98dc922f.chunk.js.map
upload: ../react/devops-demo/build/static/js/runtime-main.3a77b86b.js.map to s
3://react-bibek-s3/static/js/runtime-main.3a77b86b.js.map
upload: ../react/devops-demo/build/static/css/main.a617e044.chunk.css to s3://
react-bibek-s3/static/css/main.a617e044.chunk.css
upload: ../react/devops-demo/build/logo512.png to s3://react-bibek-s3/logo512.
png
upload: ../react/devops-demo/build/static/css/main.a617e044.chunk.css.map to s
3://react-bibek-s3/static/css/main.a617e044.chunk.css.map
upload: ../react/devops-demo/build/static/media/logo.6ce24c58.svg to s3://reac
t-bibek-s3/static/media/logo.6ce24c58.svg
```

We can see the react-bibek-s3 bucket created

Amazon S3

▼ **Account snapshot**
Last updated: Dec 15, 2021 by Storage Lens. Metrics are generated every 24 hours. Learn more ⤤

View Storage Lens dashboard

Total storage	Object count	Avg. object size	You can enable advanced metrics in the "default-account-dashboard" configuration.
42.9 MB	8.2 k	5.3 KB	

Buckets (30) Info

🗗 Copy ARN   Empty   Delete   **Create bucket**

Buckets are containers for data stored in S3. Learn more ⤤

🔍 react-bibek-s3   ✕ | 1 match   〈 1 〉   ⚙

Name ▲	AWS Region ▽	Access ▽	Creation date ▽
○ react-bibek-s3	US East (Ohio) us-east-2	⚠ Public	December 16, 2021, 22:23:02 (UTC+05:45)

Bucket contains the object of build directory of react app

Amazon S3 〉 react-bibek-s3

react-bibek-s3 Info
Publicly accessible

| Objects	Properties	Permissions	Metrics	Management	Access Points

Objects (9)

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 ⤤

🔄   🗗 Copy S3 URI   🗗 Copy URL   ⬇ Download   Open ⤤   Delete   Actions ▼   Create folder   🔼 Upload

🔍 Find objects by prefix   〈 1 〉

	Name ▲	Type ▽	Last modified ▽	Size ▽	Storage class
☐	📄 asset-manifest.json	json	December 16, 2021, 22:23:04 (UTC+05:45)	1.1 KB	Standard
☐	📄 error.html	html	December 16, 2021, 22:23:04 (UTC+05:45)	15.0 B	Standard
☐	📄 favicon.ico	ico	December 16, 2021, 22:23:04 (UTC+05:45)	3.8 KB	Standard
☐	📄 index.html	html	December 16, 2021, 22:23:04 (UTC+05:45)	3.0 KB	Standard
☐	📄 logo192.png	png	December 16, 2021, 22:23:04 (UTC+05:45)	5.2 KB	Standard
☐	📄 logo512.png	png	December 16, 2021, 22:23:04 (UTC+05:45)	9.4 KB	Standard
☐	📄 manifest.json	json	December 16, 2021, 22:23:04 (UTC+05:45)	492.0 B	Standard
☐	📄 robots.txt	txt	December 16, 2021, 22:23:04 (UTC+05:45)	67.0 B	Standard

In properties, we can see the static hosting is enabled
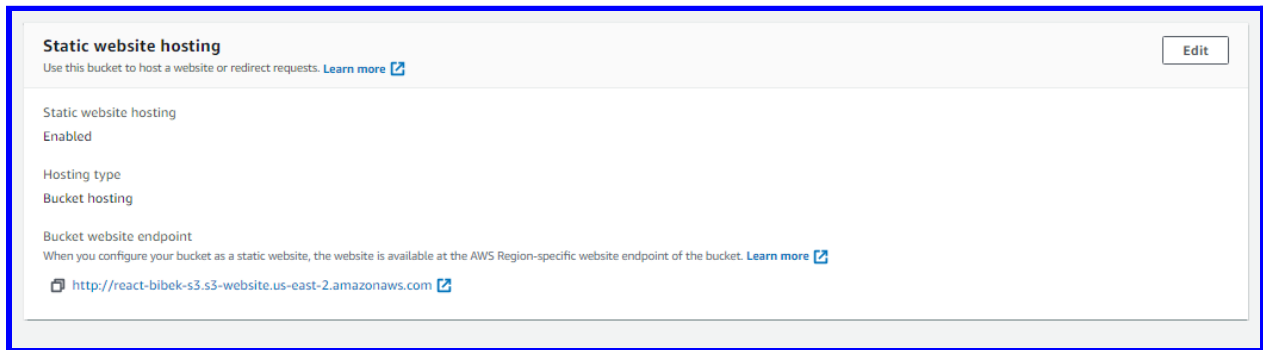
While browsing the domain of static host of s3
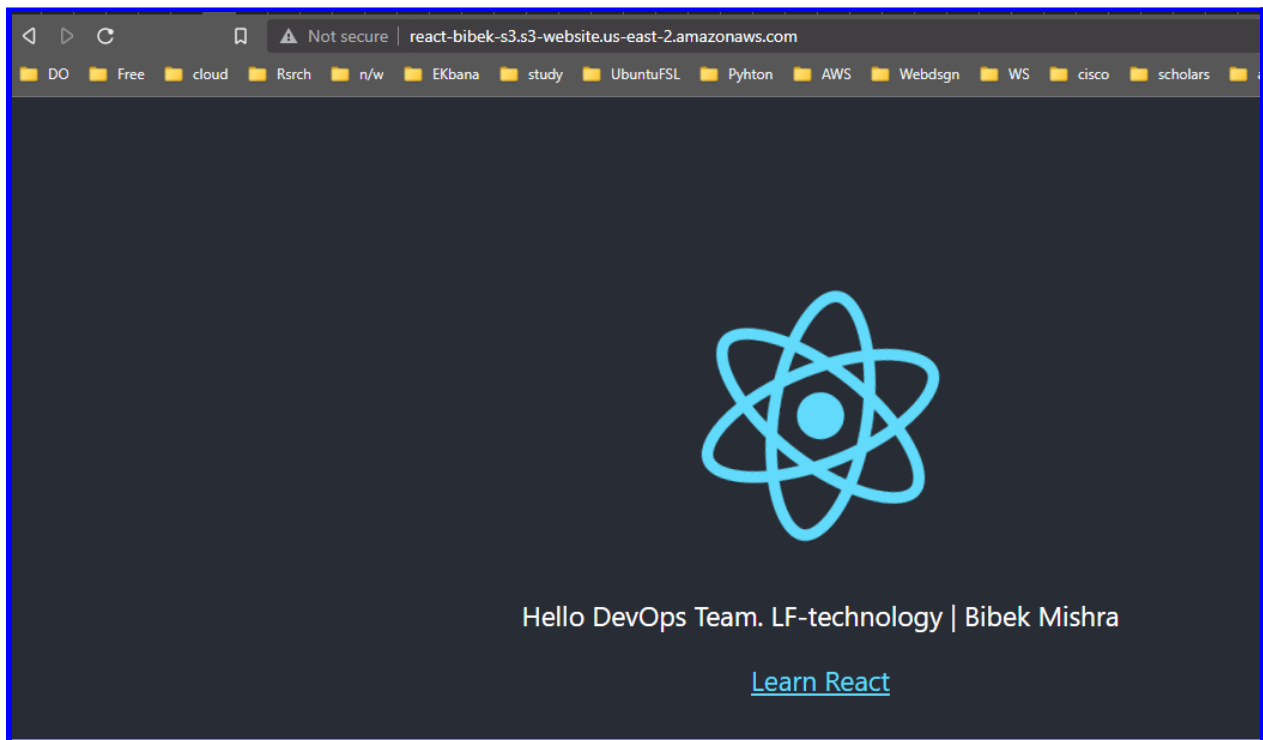
And error.html message while browsing other than / i.e. root