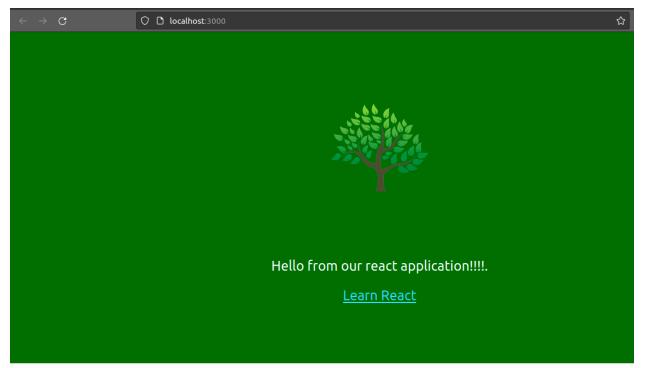
## Host a react application on an S3 Bucket and deliver it through cloudfront.

We create a demo react app called demoreact and start it

```
samana@samana:~/demoreact$ npm start
> demoreact@0.1.0 start /home/samana/demoreact
> react-scripts start
```



Hello,This is react application for demo purposes

As it is found to be running successfully, we create a production build for our application.

```
samana@samana:~/demoreact$ npm run build
> demoreact@0.1.0 build /home/samana/demoreact
> react-scripts build
Creating an optimized production build...
```

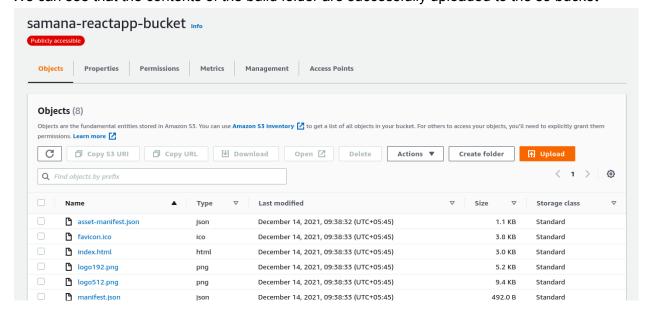
The folder build has been created with the following contents.

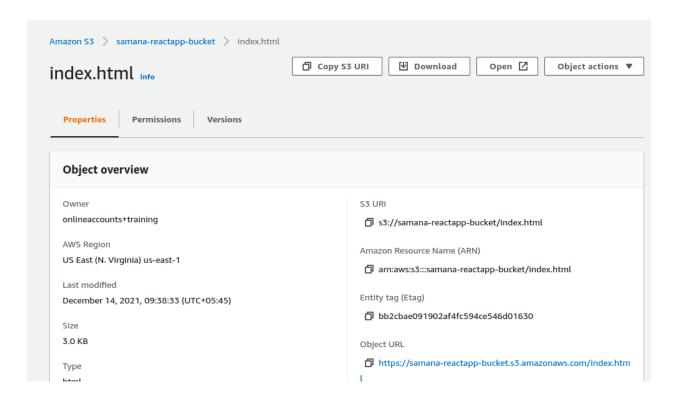
```
csamana@samana:~/demoreact$ cd build/
-samana@samana:~/demoreact/build$ ls
-casset-manifest.json index.html logo512.png robots.txt
-cfavicon.ico logo192.png manifest.json static
-isamana@samana:~/demoreact/build$
```

Now we upload the contents of the build folder to our s3 bucket named samana-reactapp-bucket

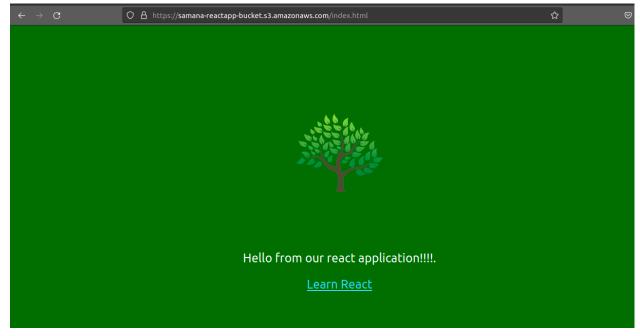
```
samana@samana:~/demoreact/build$ aws s3 sync ./ s3://samana-reactapp-bucket
upload: ./asset-manifest.json to s3://samana-reactapp-bucket/asset-manifest.json
upload: static/js/2.972298a5.chunk.js.LICENSE.txt to s3://samana-reactapp-bucket
/static/js/2.972298a5.chunk.js.LICENSE.txt
upload: ./index.html to s3://samana-reactapp-bucket/index.html
upload: ./manifest.json to s3://samana-reactapp-bucket/manifest.json
upload: static/css/main.b99c2553.chunk.css.map to s3://samana-reactapp-bucket/st
atic/css/main.b99c2553.chunk.css.map
upload: ./logo192.png to s3://samana-reactapp-bucket/logo192.png
upload: ./logo512.png to s3://samana-reactapp-bucket/logo512.png
upload: ./favicon.ico to s3://samana-reactapp-bucket/favicon.ico
upload: ./robots.txt to s3://samana-reactapp-bucket/robots.txt
upload: static/css/main.b99c2553.chunk.css to s3://samana-reactapp-bucket/static
/css/main.b99c2553.chunk.css
upload: static/js/3.c1c180f4.chunk.js to s3://samana-reactapp-bucket/static/js/3
.c1c180f4.chunk.js
```

We can see that the contents of the build folder are successfully uploaded to the s3 bucket

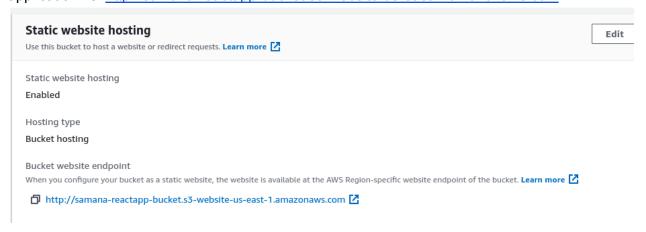


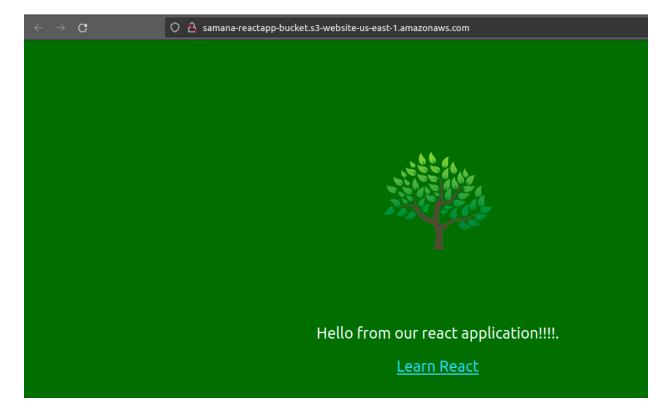


We can access the index page from the object url as follows:

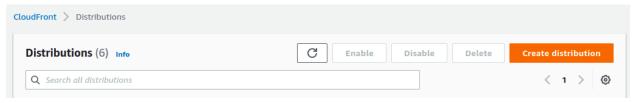


Now after we enable static website hosting for our bucket we can get the link to access our application i.e. <a href="http://samana-reactapp-bucket.s3-website-us-east-1.amazonaws.com">http://samana-reactapp-bucket.s3-website-us-east-1.amazonaws.com</a>

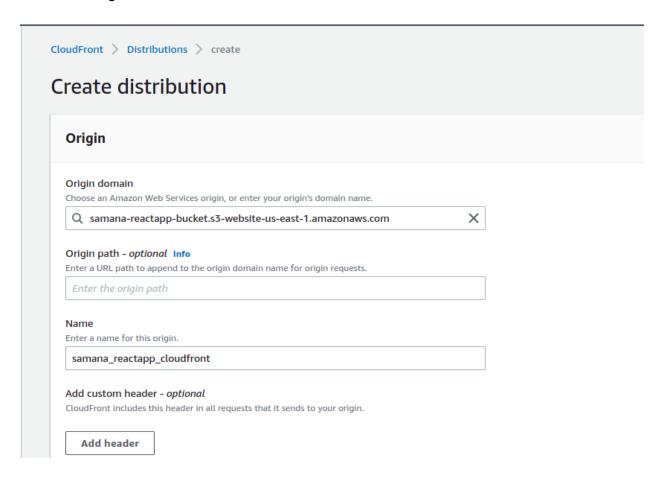


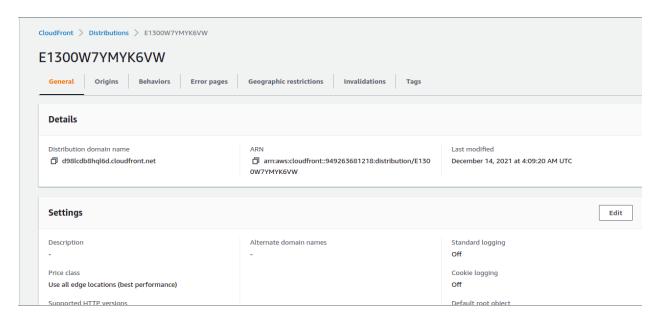


Now to deliver our application from cloudfront, we create a distribution in cloudfront.

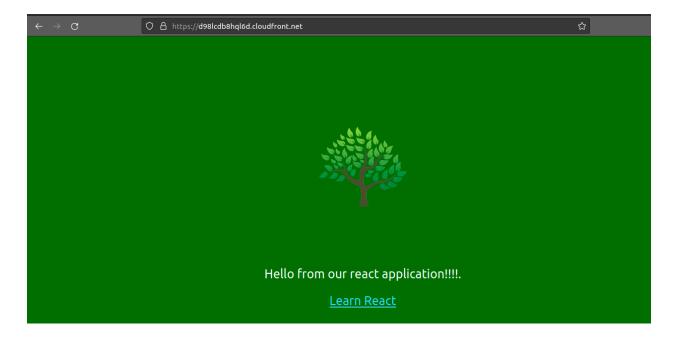


We set the origin domain as our s3 bucket domain name.

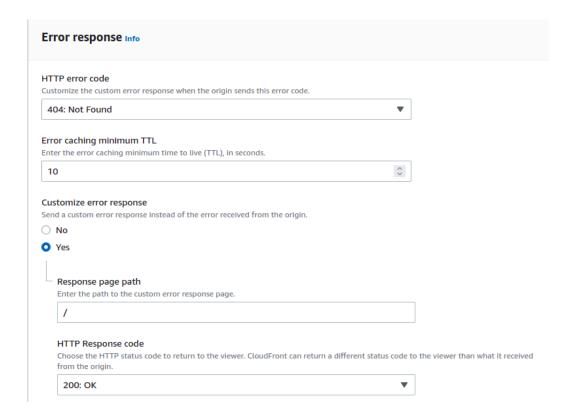




We can now access our application from cloudfront domain name i.e <a href="https://d98lcdb8hql6d.cloudfront.net">https://d98lcdb8hql6d.cloudfront.net</a>



Now, in order to redirect any 404 error to our main index page and show the custom error response as 200(ok), we create a error response as follows:



We can see that when we try to access a path that doesn't exist, the page is redirected to our index page and the response is also shown as ok (200) as follows:

