

Creating Bucket ->

aws s3api create-bucket --bucket am-2021-05-11-s3site --region us-west-2 --create-bucket-configuration LocationConstraint=us-west-2 => to create a bucket

Adding authentication ->

```
{
  "Location": "http://am-2021-05-11-s3site.s3.amazonaws.com/"
}
```

Whitelisting an Ip address:-

-> New File and call it website_security_policy.json

-> {

"Version": "2008-10-17",

"Statement": [

{

"Effect": "Allow",

"Principal": "*",

"Action": "s3:GetObject",

"Resource": [

"arn:aws:s3:::<FMI_1>/*",

"arn:aws:s3:::<FMI_1>"

],

"Condition": {

"IpAddress": {

"aws:SourceIp": [

"<FMI_2>/32"

]

}

}

},

{

"Sid": "DenyOneObjectIfRequestNotSigned",

"Effect": "Deny",

"Principal": "*",

"Action": "s3:GetObject",

"Resource": "arn:aws:s3:::<FMI_1>/report.html",

"Condition": {

"StringNotEquals": {

"s3:authType": "REST-QUERY-STRING"

}

}

}

]

}

-> <FMI_2> is the IPv4 address

-> <FMI_1> is the name of the bucket

-> ls

-> node filename

-> modify permissions.js

-> npm install aws-sdk && node permissions.js

Deploying the website ->

(async () => {

var

FS_PROMISE = require("fs").promises, //as we have v10

AWS_SDK = require("aws-sdk"),

S3_API = new AWS_SDK.S3({

apiVersion: "2006-03-01",

region: "us-west-2"

}),

BUCKET_NAME_STR = "am-2021-05-11-s3site", //SWAP THIS OUT FOR YOUR BUCKET NAME

//e.g rh-2020-02-25-s3site

params = {},

promise_arr = [],

FILES_ARR = [// lexical order of all know website files

"backdrop_camera.jpg",

"config.js",

"core.css",

"flex_search.js",

"index.html",

"jquery.js",

"kiosk.png",

"main.css",

"main.js",

"products.js",

"report.html",

"reset.css",

"search.css",

"search.js"

],

CONTENT_TYPE_PARALLEL_ARR = [// not self discovering for some reason, hence needed

"image/jpeg",

"application/javascript",

"text/css",

"application/javascript",

"text/html",

"application/javascript",

"image/png",

"text/css",

"application/javascript",

"application/javascript",

"text/html",

"text/css",

"text/css",

"application/javascript"

],

WEBSITE_FOLDER_PATH_STR = "/home/ec2-user/environment/resources/website/";

params.Bucket = BUCKET_NAME_STR;

for(var i_int = 0; i_int < FILES_ARR.length; i_int += 1){

params.Key = FILES_ARR[i_int];

params.ContentType = CONTENT_TYPE_PARALLEL_ARR[i_int];

```
params.CacheControl = "max-age=0";
params.Body = await FS_PROMISE.readFile(WEBSITE_FOLDER_PATH_STR + FILES_ARR[i_int]);
promise_arr.push(S3_API.putObject(params).promise());
}
```

```
try{
  await Promise.all(promise_arr);
  //returns and array of 7 Etags
  console.log("Done");
}catch(e){
  console.error("Problem", e);
}
```

```
})(); //sample code
```