Hosting static web site into S3 and access https only.

**Step1:**  Create 2 buckets naming conversation is

1. [www.domain.com](http://www.domain.com)
2. Domain.com
3. [www.domain.com](http://www.domain.com)

* on this bucket uploads the files and set the Bucket policy and enabled Static web site.
* S3
* Create bucket
* Bucket name: [www.domain.com](http://www.domain.com)
* Select the region: which your org preferred
* Check the ACL disabled check box
* Check the block all public access.
* Then click the create bucker button.

**Once bucket is created open the bucket**

* Select the permission
* Dropdown select the bucket policy and click edit
* Copy the below bucket policy you just replace the bucket name which you create.

{

"Version": "2012-10-17",

"Statement": [

{

"Sid": "Stmt1667213063941",

"Effect": "Allow",

"Principal": "\*",

"Action": "s3:GetObject",

"Resource": "arn:aws:s3:::bucketname /\*"

}

]

}

* Then click the save changes.

**After that we can upload the file into s3 bucket**

* Open the bucket and click the upload button
* Select the add files/folders
* Choose file/folders then click the upload button.

**Once files/folders are uploaded then enable the Static website.**

* Open the bucket and select the properties
* In dropdown select the static website hosting and click the edit button.
* Check the enable check box
* Check the host a static web site
* Index document: index.html and click the save changes button.

Create a One more bucket.

S3

* Create bucket
* Bucket name: your domain.com
* Select the region: which your org preferred
* Check the ACL disabled check box
* Then click the create bucker button.

**Once bucket is created you can enable the Static website hosting.**

* Open the bucket and select the properties
* In dropdown select the static website hosting and click the edit button.
* Check the enable check box
* Check the Redirect request for an Object
* Protocol selects the https. And then click the save changes button.

Step2: create Hosted Zones and pick the name server, updated into Domain provider portal.

* Route 53
* Create a hosted zone
* Domain Name: your domain name(domain.com)
* Check the box public hosted zones and click the create

**Once Hosted zone create it will give the 4-name server collect those and save safe location. And go to the Domain provider portal domain**

* DNS setting
* Here looks the Name server tab
* Copy the route 53 4-name server here

(It will take 24 to 48 hours) or immediately.

Step3: Create 2 records one is [www.domain.com](http://www.domain.com) and domain.com

1. **Create first record:**

* Route 53
* Open the Hosted zone
* Create a record
* Records name: www
* Record type: A record
* Check the alias check box
* Route traffic: Alias to s3 website hosting
* Region: where you are creating your bucket select that region
* Enter s3 endpoint: copy the [www.domain.com](http://www.domain.com) bucket website hosting endpoint.

1. **Create second record:**

* Route 53
* Open the Hosted zone
* Create a record
* Records name: leave empty
* Record type: A record
* Check the alias check box
* Route traffic: Alias to s3 website hosting
* Region: where you are creating your bucket select that region
* Enter s3 endpoint: copy the [domain.com](http://www.domain.com) bucket website hosting endpoint.

**Once it’s done access the application into your domain name http only.**

**Step3: Create a ACM and update into CloudFront.**

Create 1 ACM with 2 domain names.

* Go to certificate manager
* Choose Request public certificate
  + - Type the [www.doamin.com](http://www.doamin.com)
* And click the add another name to this certificate.
* Check the DNS validation check box.
* Review and click the certificate request.
* Once it creates open the certificate
* Drop down click the Create records in Route 53 and the click the create record.

**Step 4: Create 2 cloud front distribution.**

1. **First CloudFront distribution name is www.domain.com**

* Cloudfront
* Create distribution
* Origin Domain name: [www.domain.com](http://www.domain.com)
* Viewer: check the check box redirect http to https
* Alternate domain name: [www.domian.com](http://www.domian.com)
* Custom ssl certificate: choose the which is you create certificate
* And the click the create a distribution

1. **Second CloudFront distribution name is** [**domain.com**](http://www.domain.com)**.**

* Cloudfront
* Create distribution
* Origin Domain name: [domain.com](http://www.domain.com)
* Viewer: check the check box redirect http to https
* Alternate domain name: [domian.com](http://www.domian.com)
* Custom ssl certificate: choose the which is you create certificate
* And the click the create a distribution

We can wait until CloudFront Distribution active.

**Step5: change the Route 53 A record value**

Ex: Alias to s3 website hosting to Alias to Cloudfront Distribution.

* Route 53
* Hosted zone
* Select [www.domain.com](http://www.domain.com) record
* Edit
* Route traffic to: Alias to Cloudfront Distribution.
* Select cloud front endpoint for [www.domain.com](http://www.domain.com)

Same as like domain.com

* Route 53
* Hosted zone
* Select [domain.com](http://www.domain.com) record
* Edit
* Route traffic to: Alias to Cloudfront Distribution.
* Select cloud front endpoint for [domain.com](http://www.domain.com)

Step6: Then final access our application via domain name https.