

Hosted a Static Website on S3

1. Register a Domain using Route53.(shubhamyeola.link)
2. Create a 2 S3 buckets name www.shubhamyeola.link & shubhamyeola.link resp. (without www to route traffic with www domain)
3. In www.shubhamyeola.link bucket go to permissions disable block all public access setting.

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☐ **Block *all* public access**

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

☐ **Block public access to buckets and objects granted through *new* access control lists (ACLs)**

S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

☐ **Block public access to buckets and objects granted through *any* access control lists (ACLs)**

S3 will ignore all ACLs that grant public access to buckets and objects.

☐ **Block public access to buckets and objects granted through *new* public bucket or access point policies**

S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

☐ **Block public and cross-account access to buckets and objects through *any* public bucket or access point policies**

S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

[Cancel](#) [Save changes](#)


4. Add a bucket policy, to do this use policy generator, select policy type as "S3 bucket policy", effect= allow, Principal = * , AWS service = it should be Amazon S3 preselected, in action = GetObject & lastly for ARN copy it from "Edit bucket policy page". image attached for reference.

Edit bucket policy [Info](#)

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

Bucket ARN

 `arn:aws:s3:::www.shubhamyeola.link`

Policy

1

click on generate policy.

5. your policy should look like this.


Amazon S3 > Buckets > www.shubhamyeola.link > Edit bucket policy

Edit bucket policy [Info](#)

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

Bucket ARN

 `arn:aws:s3:::www.shubhamyeola.link`

Policy

```
1 {
2   "Id": "Policy1673019363128",
3   "Version": "2012-10-17",
4   "Statement": [
5     {
6       "Sid": "Stmt1673018681122",
7       "Action": [
8         "s3:GetObject"
9       ],
10      "Effect": "Allow",
11      "Resource": "arn:aws:s3:::www.shubhamyeola.link/*",
12      "Principal": "*"
13    }
14  ]
15 }
```

6. add / after bucket name like this "www.shubhamyeola.link/", otherwise you will get "unknown error" like this.

**Unknown Error**

An unexpected error occurred.

▼ API response

Action does not apply to any resource(s) in statement

Cancel

Save changes

7. Now go to 'Properties' tab, scroll down bottom. Go to 'Static Website Hosting', click edit, enable static website hosting , hosting type should be "Host a static Website ", in Index Document , mention your index.html file name it should be "index.html" for most cases. go ahead and save changes.

Edit static website hosting [Info](#)

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

☐ Disable☒ Enable

Hosting type

☒ Host a static websiteUse the bucket endpoint as the web address. [Learn more](#)☐ Redirect requests for an objectRedirect requests to another bucket or domain. [Learn more](#)

For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document

Specify the home or default page of the website.

Error document - optional

This is returned when an error occurs.

Redirection rules – optional

Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

8. In shubhamyeola.link bucket , just enable static website hosting with following settings.

Edit static website hosting [Info](#)

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

☐ Disable

☒ Enable

Hosting type

☐ Host a static website
Use the bucket endpoint as the web address. [Learn more](#)

☒ Redirect requests for an object
Redirect requests to another bucket or domain. [Learn more](#)

Host name

Target bucket website address or personal domain

Protocol - Optional

☐ none

☒ http

☐ https

[Cancel](#) [Save changes](#)

we'll come back to enable https part.

9. Goto Route 53, -> Registered domains -> Register Domain -> Choose a domain name (select .com or anything you like, i choose .link for myself) -> check if its available -> add to cart -> add contact details -> make a payment and it should appear in several minutes.
10. Go to Dashboard from left pane -> Hosted Zone -> shubhamyeola.link

Route 53 > Hosted zones > shubhamyeola.link

Public shubhamyeola.link [Info](#)

[Delete zone](#) [Test record](#) [Configure query logging](#)

► **Hosted zone details** [Edit hosted zone](#)

Records (2) | DNSSEC signing | Hosted zone tags (0)

Records (2) [Info](#)

Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.

[Type](#) [Routing policy](#) [Alias](#) [1](#) [2](#) [3](#)

<input type="checkbox"/>	Record name	Type	Routin...	Differ...	Value/Route traffic to
<input type="checkbox"/>	shubhamyeola.link	NS	Simple	-	ns-1037.awsdns-01.org. ns-524.awsdns-01.net. ns-1961.awsdns-53.co.uk. ns-445.awsdns-55.com.
<input type="checkbox"/>	shubhamyeola.link	SOA	Simple	-	ns-1037.awsdns-01.org. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400

11. Create record -> Simple routing -> Define simple record ->

Define simple record

Record name

To route traffic to a subdomain, enter the subdomain name. For example, to route traffic to `blog.example.com`, enter `blog`. If you leave this field blank, the default record name is the name of the domain.

www

.shubhameola.link

Keep blank to create a record for the root domain.

Record type

The DNS type of the record determines the format of the value that Route 53 returns in response to DNS queries.

A – Routes traffic to an IPv4 address and some AWS resources

Choose when routing traffic to AWS resources for EC2, API Gateway, Amazon VPC, CloudFront, Elastic Beanstalk, ELB, or S3. For example: 192.0.2.44.

Value/Route traffic to

The option that you choose determines how Route 53 responds to DNS queries. For most options, you specify where you want to route internet traffic.

Alias to S3 website endpoint

Asia Pacific (Mumbai) [ap-south-1]

Q s3-website.ap-south-1.amazonaws.com

Evaluate target health

Select **Yes** if you want Route 53 to use this record to respond to DNS queries only if the specified AWS resource is healthy.

No

Cancel

Define simple record

-> create

another record for non www one

Define simple record



Record name

To route traffic to a subdomain, enter the subdomain name. For example, to route traffic to blog.example.com, enter *blog*. If you leave this field blank, the default record name is the name of the domain.

subdomain

shubhamyeola.link

Keep blank to create a record for the root domain.

Record type

The DNS type of the record determines the format of the value that Route 53 returns in response to DNS queries.

A – Routes traffic to an IPv4 address and some AWS resources

Choose when routing traffic to AWS resources for EC2, API Gateway, Amazon VPC, CloudFront, Elastic Beanstalk, ELB, or S3. For example: 192.0.2.44.

Value/Route traffic to

The option that you choose determines how Route 53 responds to DNS queries. For most options, you specify where you want to route internet traffic.

Alias to S3 website endpoint

Asia Pacific (Mumbai) [ap-south-1]

s3-website.ap-south-1.amazonaws.com

Evaluate target health

Select **Yes** if you want Route 53 to use this record to respond to DNS queries only if the specified AWS resource is healthy.

☒ Yes

Cancel

Define simple record

It should look

like this

Records (4) Info

Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.

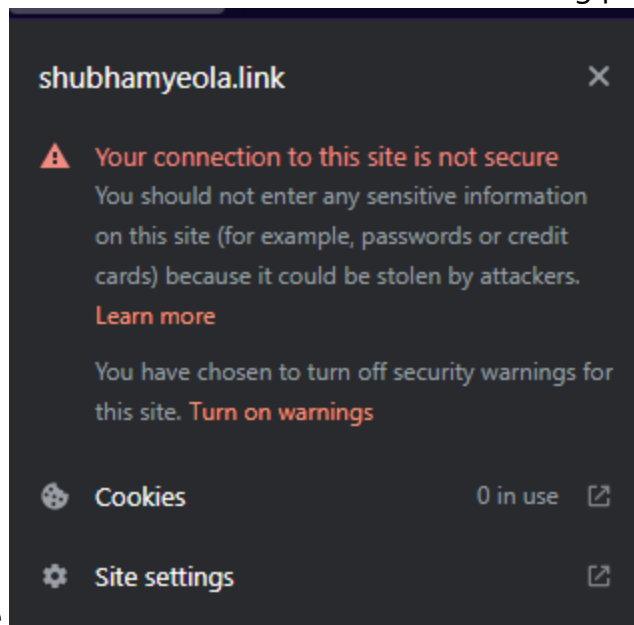
Filter records by property or value

TypeRouting policyAlias

< 1 >

	Record name	Type	Routin...	Differ...	Value/Route traffic to
<input type="checkbox"/>	shubhamyeola.link	A	Simple	-	s3-website.ap-south-1.amazonaws.com.
<input type="checkbox"/>	shubhamyeola.link	NS	Simple	-	ns-1037.awsdns-01.org. ns-524.awsdns-01.net. ns-1961.awsdns-53.co.uk. ns-445.awsdns-55.com.
<input type="checkbox"/>	shubhamyeola.link	SOA	Simple	-	ns-1037.awsdns-01.org. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
<input type="checkbox"/>	www.shubhamyeola.link	A	Simple	-	s3-website.ap-south-1.amazonaws.com.

12. Your website should launch now and it should working properly. But it will give a warning that website



is not secure. for that we need to use *Amazon Cloudfront*.

13. Before setting up Cloudfront, first we need SSL certificates for our website. for that go AWS Certificate Manager -> Request a certificate -> Request a public certificate -> enter your domain name both www.shubhamyeola.link & shubhamyeola.link -> validation method (for validation method email validation doesn't seem to work for me) -> DNS validation -> leave other things to default and click request. you should see this windows

Certificates (1)

Refresh

Delete

Manage expiry events

Import

Request

<

1

>

<input type="checkbox"/>	Certificate ID	Domain name	Type	Status	In use	Renewal eligibility	Key algorithm
<input type="checkbox"/>	b5050c3e-3263-489b-b829-ab6b287a6c1d	www.shubhamyeola.link	Amazon Issued	<div><div></div><div>Pending validation</div></div>	No	Ineligible	RSA 2048

(Request certificate from us-east-1 only otherwise it won't show up in cloudfront distribution)

14. click refresh if you dont see one. click on certificate id ->

Domains (2)

Create records in Route 53

Export to CSV

< 1 >

Domain	Status	Renewal status	Type	CNAME name	CNAME value
www.shubhamyeola.link	Pending validation	-	CNAME	_5b6026724d974d0237b05826eb90c8da.www.shubhamyeola.link.	_5ba67cd214e12fc56607d933e13cd2b6.stwyzjdjkd.acm-validations.aws.
shubhamyeola.link	Pending validation	-	CNAME	_07869f6fd6a056b9a68201fec47d21c3.shubhamyeola.link.	_8c4cc92e125e8b9c87b5393514b1696c.stwyzjdjkd.acm-validations.aws.

under domains select 'create records in route 53' ->

Create DNS records in Amazon Route 53 (2/2)

2 matches

Validation status: Pending validation X
Validation status: Failed X
Is domain in Route 53?: Yes X
Clear filter

<input checked="" type="checkbox"/>	Domain	Validation status	Type	CNAME name	CNAME value	Is domain in Route 53?
<input checked="" type="checkbox"/>	www.shubhamyeola.link	Pending validation	CNAME	_5b6026724d974d0237b05826eb90c8da.www.shubhamyeola.link.	_5ba67cd214e12fc56607d933e13cd2b6.stwyzdjkd.acm-validations.aws.	Yes
<input checked="" type="checkbox"/>	shubhamyeola.link	Pending validation	CNAME	_07869f6fd6a056b9a68201fec47d21c3.shubhamyeola.link.	_8c4cc92e125e8b9c87b5393514b1696c.stwyzdjkd.acm-validations.aws.	Yes

Cancel
Create records

Create records (it will automatically create records for you). -> After sometime your validation status will change into "Issued".(this took little longer for me have a patience).

- To check DNS records we just created go to Route53 -> Hosted zone -> shubhamyeola.link -> here you'll see 2 new records of type CNAME.

Records (6) [Info](#)
Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.
Refresh
Delete record
Import zone file
Create record

Type ▼
Routing policy ▼
Alias ▼
< 1 >

<input type="checkbox"/>	Record name	Type	Routin...	Differ...	Value/Route traffic to
<input type="checkbox"/>	shubhamyeola.link	A	Simple	-	s3-website.ap-south-1.amazonaws.com.
<input type="checkbox"/>	shubhamyeola.link	NS	Simple	-	ns-1037.awsdns-01.org. ns-524.awsdns-01.net. ns-1961.awsdns-53.co.uk. ns-445.awsdns-55.com.
<input type="checkbox"/>	shubhamyeola.link	SOA	Simple	-	ns-1037.awsdns-01.org. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
<input type="checkbox"/>	_07869f6fd6a056b9a68201fec47d21c3.shubhamy...	CNAME	Simple	-	_8c4cc92e125e8b9c87b5393514b1696c.stwyzdjkd.acm-validations.aws.
<input type="checkbox"/>	www.shubhamyeola.link	A	Simple	-	s3-website.ap-south-1.amazonaws.com.
<input type="checkbox"/>	_5b6026724d974d0237b05826eb90c8da.www.shu...	CNAME	Simple	-	_5ba67cd214e12fc56607d933e13cd2b6.stwyzdjkd.acm-validations.aws.

- Now, go to CloudFront -> 'Create a cloudfront distribution' -> Origin Domain (here don't select this default from drop down menu instead copy the one from S3 you can find it in bucket-> properties-> static website hosting -> bucket website endpoint

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting
Enabled

Hosting type
Bucket hosting

Bucket website endpoint

When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)

<http://www.shubhamyeola.link.s3-website.ap-south-1.amazonaws.com>

Edit

as shown in the image) .

17. Other settings we need to change are viewer protocol policy -> "Redirect HTTP to HTTPS"

Default cache behavior

Path pattern

Info

Default (*)

Compress objects automatically

Info

☐ No

☒ Yes

Viewer

Viewer protocol policy

☐ HTTP and HTTPS

☒ Redirect HTTP to HTTPS

☐ HTTPS only

Allowed HTTP methods

☒ GET, HEAD

☐ GET, HEAD, OPTIONS

☐ GET, HEAD, OPTIONS, PUT, POST, PATCH, DELETE

Restrict viewer access

If you restrict viewer access, viewers must use CloudFront signed URLs or signed cookies to access your content.

☒ No

☐ Yes

Cache key and origin requests

We recommend using a cache policy and origin request policy to control the cache key and origin requests.

☒ Cache policy and origin request policy (recommended)

☐ Legacy cache settings

Cache policy

Choose an existing cache policy or create a new one.

18. Now Alternate domain name (CNAME) -> add item -> www.shubhamyeola.link

19. Under custom SSL certificate you should see your certificate -> select it.

Settings

Price class [Info](#)
Choose the price class associated with the maximum price that you want to pay.

☒ Use all edge locations (best performance)
☐ Use only North America and Europe
☐ Use North America, Europe, Asia, Middle East, and Africa

AWS WAF web ACL - optional
Choose the web ACL in AWS WAF to associate with this distribution.

Alternate domain name (CNAME) - optional
Add the custom domain names that you use in URLs for the files served by this distribution.

To add a list of alternative domain names, use the [bulk editor](#).

Custom SSL certificate - optional
Associate a certificate from AWS Certificate Manager. The certificate must be in the US East (N. Virginia) Region (us-east-1).

☒ [www.shubhamyeola.link](#) [Request certificate](#)

Legacy clients support - \$600/month prorated charge applies. Most customers do not need this.
CloudFront allocates dedicated IP addresses at each CloudFront edge location to serve your content over HTTPS.

☐ Enabled

Security policy
The security policy determines the SSL or TLS protocol and the specific ciphers that CloudFront uses for HTTPS connections with viewers (clients).

☒ TLSv1.2_2021 (recommended)
☐ TLSv1.2_2019
☐ TLSv1.2_2018

20. Leave everything on default and create distribution. Do the same for the non www version of our website.

21. Go to S3 -> non www version of our website for me its shubhamyeola.link -> properties -> Static website hosting -> edit -> Protocol -> change it to https -> save changes.

Distributions (2) [Info](#)

<input type="checkbox"/>	ID	Descrip...	Type	Domain name	Alternate domain names	Origins	Status
<input type="checkbox"/>	E3P90XXACDV1TS	-	Production	d230j95soaatw.cloudfront.net	shubhamyeola.link	shubhamyeola.link.s3-website.a	Enabled
<input type="checkbox"/>	E1WX821SHV82BU	-	Production	d2dfnfc03ennd.cloudfront.net	www.shubhamyeola.link	www.shubhamyeola.link.s3-web	Enabled

22.

Now if you go to Cloutfront our website is hosted on this domain names. to link it to our DNS we need update 'A' records in Route53 settings.

23. In Route53 select A records

Route 53 > Hosted zones > shubhamyeola.link

Public shubhamyeola.link Info

Delete zoneTest recordConfigure query logging

Hosted zone details

Edit hosted zone

Records (6)DNSSEC signingHosted zone tags (0)

Records (1/6) Info

Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.

Refresh

Delete record

Import zone file

Create record

Filter records by property or value

Type

Routing policy

Alias

< 1 >

Settings

<input type="checkbox"/>	Record name	Type	Routin...	Differ...	Value/Route traffic to
<input checked="" type="checkbox"/>	shubhamyeola.link	A	Simple	-	s3-website.ap-south-1.amazonaws.com.
<input type="checkbox"/>	shubhamyeola.link	NS	Simple	-	ns-1037.awsdns-01.org. ns-524.awsdns-01.net. ns-1961.awsdns-53.co.uk. ns-445.awsdns-55.com.
<input type="checkbox"/>	shubhamyeola.link	SOA	Simple	-	ns-1037.awsdns-01.org. awsdns-hostmaster.a...
<input type="checkbox"/>	_07869f6fd6a056b9a68201fec47d21c3.shubhamy...	CNAME	Simple	-	_8c4cc92e125e8b9c87b5393514b1696c.stwyz...
<input type="checkbox"/>	www.shubhamyeola.link	A	Simple	-	s3-website.ap-south-1.amazonaws.com.
<input type="checkbox"/>	_5b6026724d974d0237b05826eb90c8da.www.shu...	CNAME	Simple	-	_5ba67cd214e12fc56607d933e13cd2b6.stwyz...

Record details

Edit record

Record name

shubhamyeola.link

Record type

A

Value

s3-website.ap-south-1.amazonaws.com.

Alias

Yes

TTL (seconds)

-

Routing policy

Simple

-> edit record -> change Route traffice to from S3 to "Alias to Cloudfront dirtribution" -> save

Edit record



Record name [Info](#)

subdomain

shubhamyeola.link

Keep blank to create a record for the root domain.

Record type [Info](#)

A – Routes traffic to an IPv4 address and so... ▼

☒ Alias

Route traffic to [Info](#)

Alias to CloudFront distribution ▼

US East (N. Virginia) ▼

An alias to a CloudFront distribution and another record in the same hosted zone are global and available only in US East (N. Virginia).

Q d230j95sozaatw.cloudfront.net



Routing policy [Info](#)

Simple routing ▼

Evaluate target health

☐ No

Cancel

Save

24. Do this for both www and non www version .



Static Website hosting on Amazon S3

Odin Recipes

- [Paneer Masala](#)
- [Chips](#)
- [Garlic Naan](#)

25.

26. Now we have lock icon, this shows we have SSL certificate and our website is secure.

27. Thats it!