

Karthik Pradeep Hegadi

2KE20CS032

Assignment 46

Understood. To follow the provided instructions and create the files/directory using the same name and case as provided in the task steps, please provide me with the specific names and case instructions for the files/directory you want to create.

AWS

Assignment: 11 : Serving a static Website which is Uploaded in S3 through CDN and route 53

Summary

Host a static website in S3

2. Buy a SSL certificate for your subdomain(us-east-1)
3. Map your S3 domain name in CDN and choose your certificate there
- 4Create a subdomain in Route 53 and map your CDN against the subdomain

Host a static website in S3

Note: Give bucket name as subdomain name which you want to create (eg: john.gradiuslabs.click)

General configuration

AWS Region

Asia Pacific (Mumbai) ap-south-1 ▾

Bucket name | [Info](#)

lousy.bing.bong

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#) ↗

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

Format: s3://bucket/prefix

2. Extract the below file and upload it to your s3 bucket
Squadfree.zip
3. Go to bucket -> properties -> static website hosting -> Enable, and give html file name and save
4. Grab the url and access it in the browser

Object Ownership Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

ACLs disabled (recommended)

All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

ACLs enabled

Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Object Ownership

Bucket owner enforced

Block Public Access settings for this bucket

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 this bucket and its 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 this bucket 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.

objects.



Turning off block all public access might result in this bucket and the objects within becoming public
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

I acknowledge that the current settings might result in this bucket and the objects within becoming public.

(optional)

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning

- Disable
 Enable

Extracted and uploaded

The screenshot shows the AWS S3 'Upload' interface. At the top, there's a search bar and a 'Services' dropdown. Below the search bar, the word 'Upload' is highlighted in blue, and there's a link to 'Info'. A large text area says: 'Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)'. Below this is a dashed blue rectangular area with the text 'Drag and drop files and folders you want to upload here, or choose Add files or Add folder.' A table titled 'Files and folders (113 Total, 14.7 MB)' lists 113 items. The table has columns for checkboxes, Name, Folder, Type, and Size. The 'Add folder' button is highlighted with a blue border. At the bottom, there's a navigation bar with icons for various services like Lambda, CloudWatch, and S3.

	Name	Folder	Type	Size
<input type="checkbox"/>	index.html	Squadfree/	text/html	32.7 KB
<input type="checkbox"/>	contact.php	Squadfree/forms/	text/php	1.3 KB
<input type="checkbox"/>	Readme.txt	Squadfree/forms/	text/plain	183.0 B
<input type="checkbox"/>	inner-page.html	Squadfree/	text/html	9.6 KB
<input type="checkbox"/>	portfolio-details.html	Squadfree/	text/html	11.4 KB
<input type="checkbox"/>	Readme.txt	Squadfree/	text/plain	224.0 B
<input type="checkbox"/>	style.css	Squadfree/assets/css/	text/css	25.5 KB
<input type="checkbox"/>	main.js	Squadfree/assets/js/	application/x-javascript	6.2 KB
<input type="checkbox"/>	Readme.txt	Squadfree/assets/sc...	text/plain	61.0 B
<input type="checkbox"/>	about-bg.jpg	Squadfree/assets/im...	image/jpeg	68.5 KB

Status

The screenshot shows the AWS CloudWatch Metrics interface. At the top, there's a navigation bar with 'Services' and a search bar. Below it, a green header bar displays the message 'Upload succeeded' with a circular icon and the text 'View details below.' In the main content area, a section titled 'Upload: status' is shown. A note says 'The information below will no longer be available after you navigate away from this page.' Below this, a 'Summary' table provides details about the upload:

Destination	Succeeded	Failed
s3://lusy.bing.bong	113 files, 14.7 MB (100.00%)	0 files, 0 B (0%)

Enable the static website hosting

The screenshot shows the 'Static website hosting' configuration for a bucket. It includes a note to use the bucket for hosting a website or redirect requests, an 'Edit' button, and a summary table:

Static website hosting
Static website hosting Disabled

The screenshot shows the 'Static website hosting' configuration dialog. It includes fields for enabling hosting, choosing a hosting type (Host a static website), and specifying index and error documents. A note explains that content must be publicly readable:

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.
index.html

Error document - optional
This is returned when an error occurs.
error.html

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

Permissions

▼ **Permissions**
Grant public access and access to other AWS accounts.

Access control list (ACL)
Grant basic read/write permissions to other AWS accounts. [Learn more](#)

Info AWS recommends using S3 bucket policies or IAM policies for access control. [Learn more](#)

Access control list (ACL)
 Choose from predefined ACLs
 Specify individual ACL permissions

Predefined ACLs
 Private (recommended)
Only the object owner will have read and write access.
 Grant public-read access
Anyone in the world will be able to access the specified objects. The object owner will have read and write access. [Learn more](#)

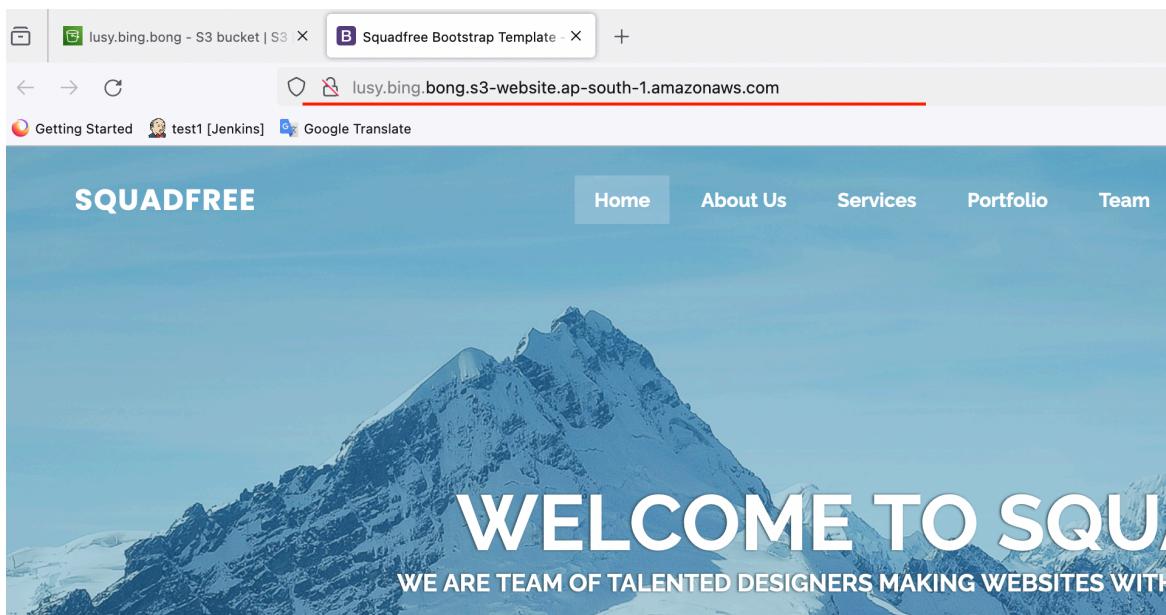
Warning **Granting public-read access is not recommended**
Anyone in the world will be able to access the specified objects. [Learn more](#)

I understand the risk of granting public-read access to the specified objects.

► **Properties**
Specify storage class, encryption settings, tags, and more.

[Cancel](#) [Upload](#)

You will get the link for S3 after giving permission to static website hosting(**verification**)



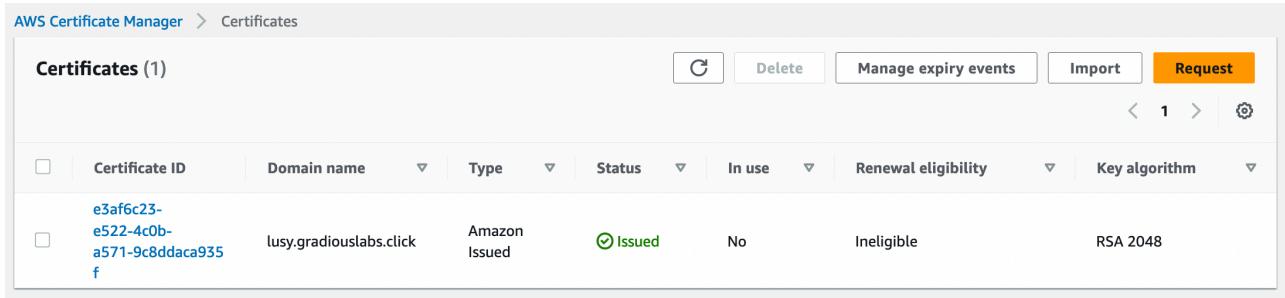
Buy SSL certificate for your subdomain(us-east-1)

Navigate to aws certificate Manager -> request certificate and give your domain name

eg(john.gradiouslabs.click)

2. Leave everything else default

3. Create a record for route 53



AWS Certificate Manager > Certificates

Certificates (1)

Certificate ID	Domain name	Type	Status	In use	Renewal eligibility	Key algorithm
e3af6c23-e522-4c0b-a571-9c8ddaca935f	lusy.gradiouslabs.click	Amazon Issued	Issued	No	Ineligible	RSA 2048

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://lusy.bing.bong.s3-website.ap-south-1.amazonaws.com>

copy

Copy this and paste while creating cloudfront

Creating Cloudfront Distribution

1. Navigate to cloudfront, create Distribution

2.Click Use website endpoint option

3. Leave protocol as http

4Choose your SSL certificate in Settings and give your domain name in alternate domainname

5.Click create Distribution

6Go to your Cloudfront Distribution and copy your CDN Domain name and access it inBrowser

Create distribution

Origin

Origin domain

Choose an AWS origin, or enter your origin's domain name.

Choose origin domain

Amazon S3

- aws-source-bucket-01.s3.amazonaws.com
- aws-source-bucket-02.s3.amazonaws.com
- lusy.bing.bong.s3.amazonaws.com

Elastic Load Balancer

- NLBmattermost
- ALBmattermost
- autoscaling-ALB

API Gateway

No origins available.

Mediastore container

No origins available.

: its availability.

Mediapackage container

Optional

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

CNAME settings

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

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

Remove

[Add item](#)

Create the distribution

— wait for few minutes for deploying

[General](#) [Security](#) [Origins](#) [Behaviors](#) [Error pages](#) [Invalidations](#)

Details

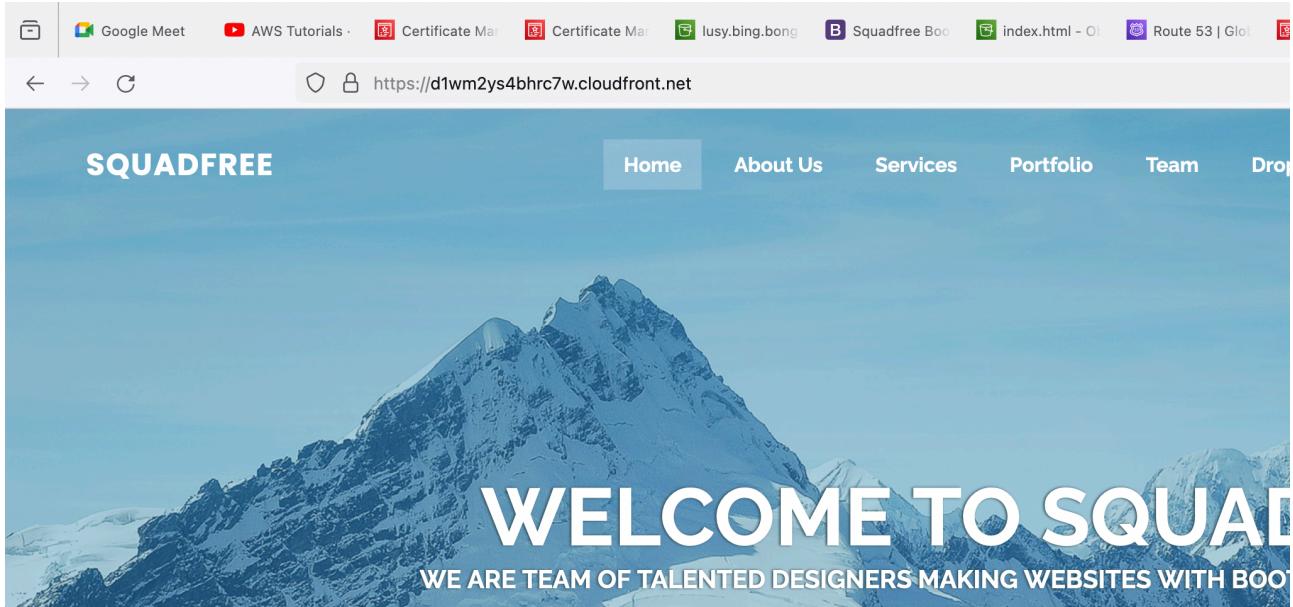
✓ Distribution domain name copied

Icon	me	ARN
	d1wm2ys4bhrc7w.cloudfront.net	 arn:aws:cloudfront::405819896469:X48GF76PD

Settings

Copy the DNS and paste in webbrowser

Ready to view static website



Whole settings

A screenshot of the AWS CloudFront distribution settings page for distribution ID E2W1RX48GF76PD. The top navigation bar includes tabs for General, Security, Origins, Behaviors, Error pages, Invalidations, and Tags, with "General" currently selected. A "View metrics" button is also present. The main content area is divided into two sections: "Details" and "Settings".

Details
Distribution domain name: d1wm2ys4bhrc7w.cloudfront.net
ARN: arn:aws:cloudfront::405819896469:distribution/E2W1RX48GF76PD
Last modified: December 16, 2023 at 12:29:17 PM UTC

Settings
Description: -
Price class: Use all edge locations (best performance)
Supported HTTP versions: HTTP/2, HTTP/1.1, HTTP/1.0
Alternate domain names: -
Custom SSL certificate: lusy.gradiouslabs.click
Security policy: TLSv1.2_2021
Standard logging: Off
Cookie logging: Off
Default root object: index.html
Edit button