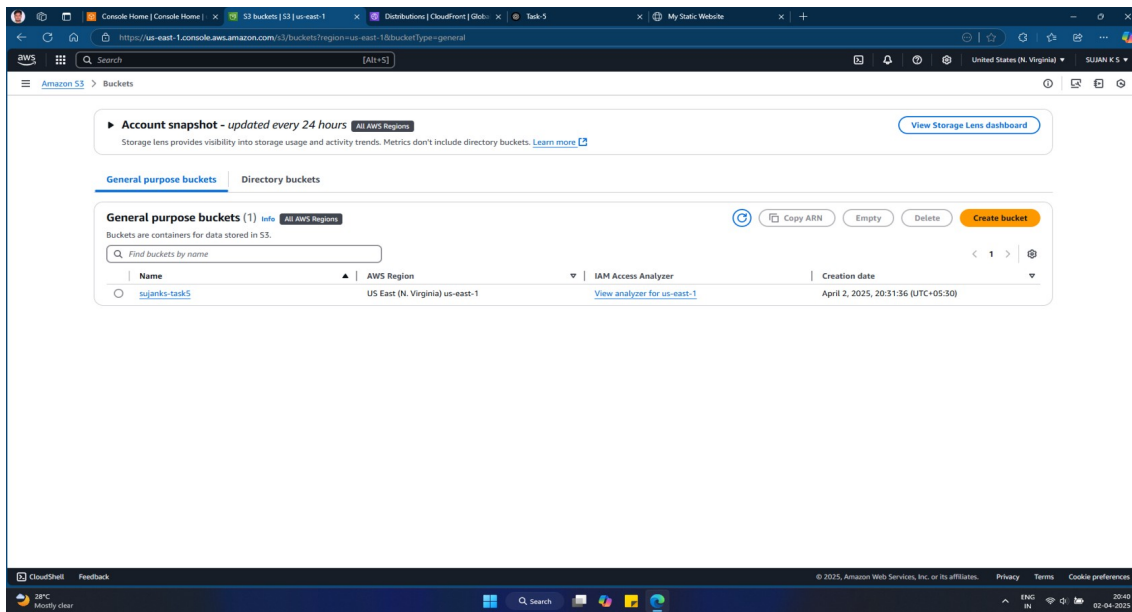


Hosting a Private Static Website with CloudFront & S3

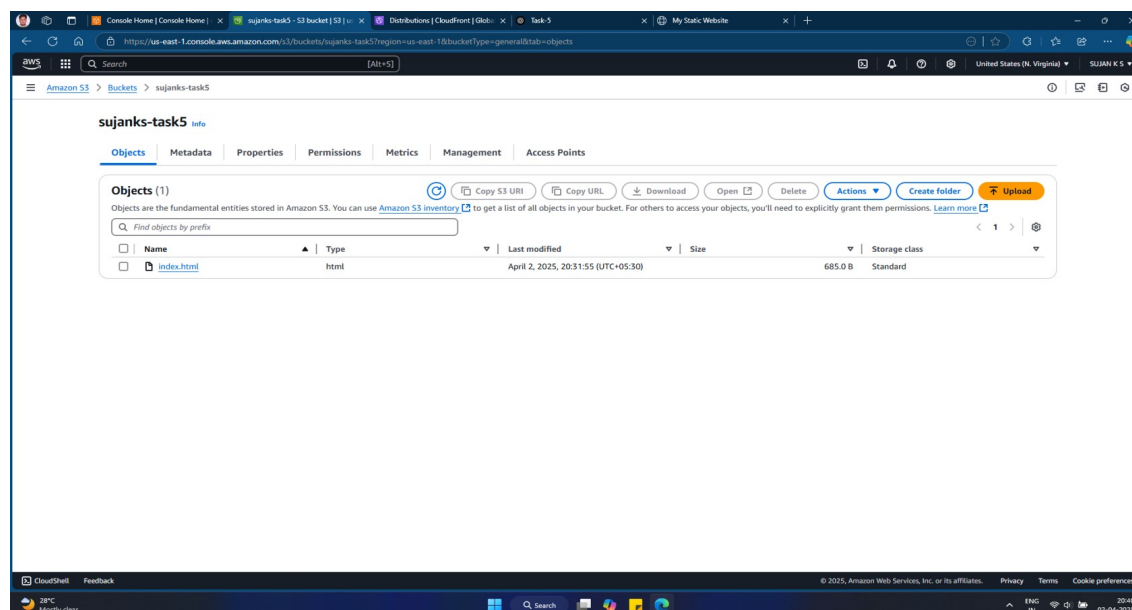
Step 1: Create an S3 Bucket

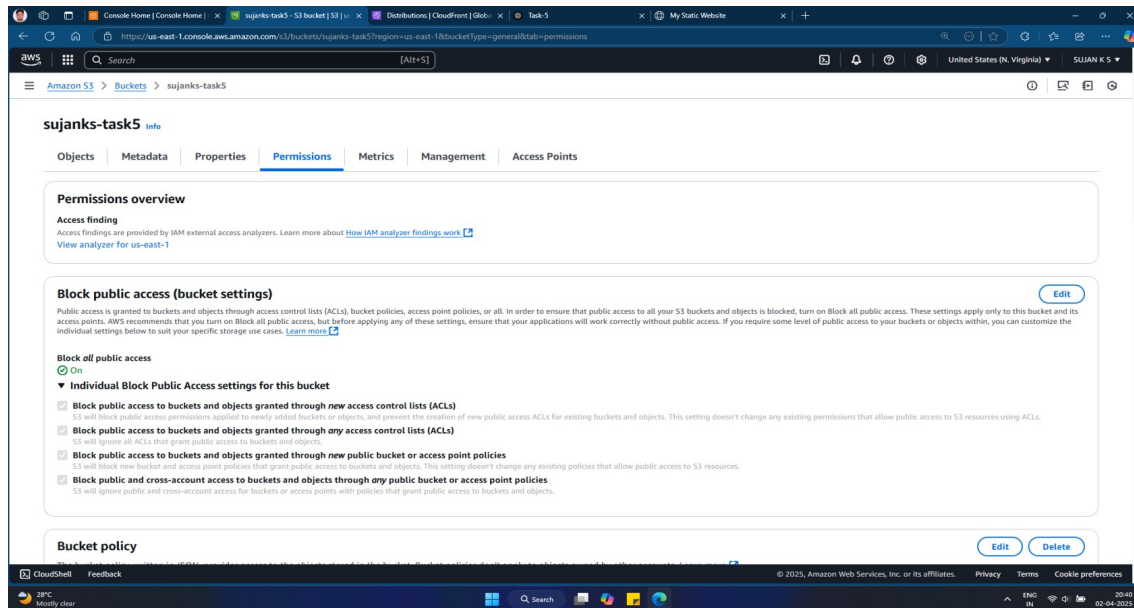
1. AWS S3 Console > Create bucket
2. Bucket Name: sujanks-task5
3. AWS Region: us-east-1
4. Block Public Access settings: Keep all options **enabled** (DO NOT allow public access).
5. Create Bucket



Step 2: Upload Website Files

1. Open S3 bucket (sujanks-task5)
2. Add static website files index.html > Upload





Step 3: Create a CloudFront Distribution

1. AWS CloudFront Console > Create Distribution

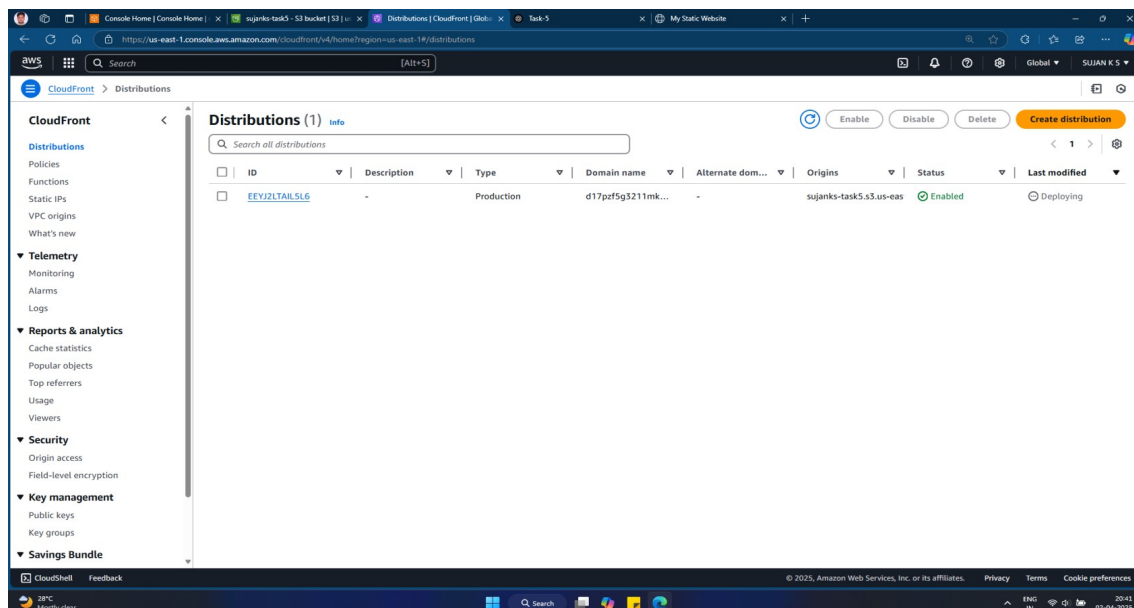
2. Origin Settings:

- Origin domain: Select S3 bucket (sujanks-task5).
- Origin access: Choose Origin access control settings (recommended)
- Create Control Setting > Save.

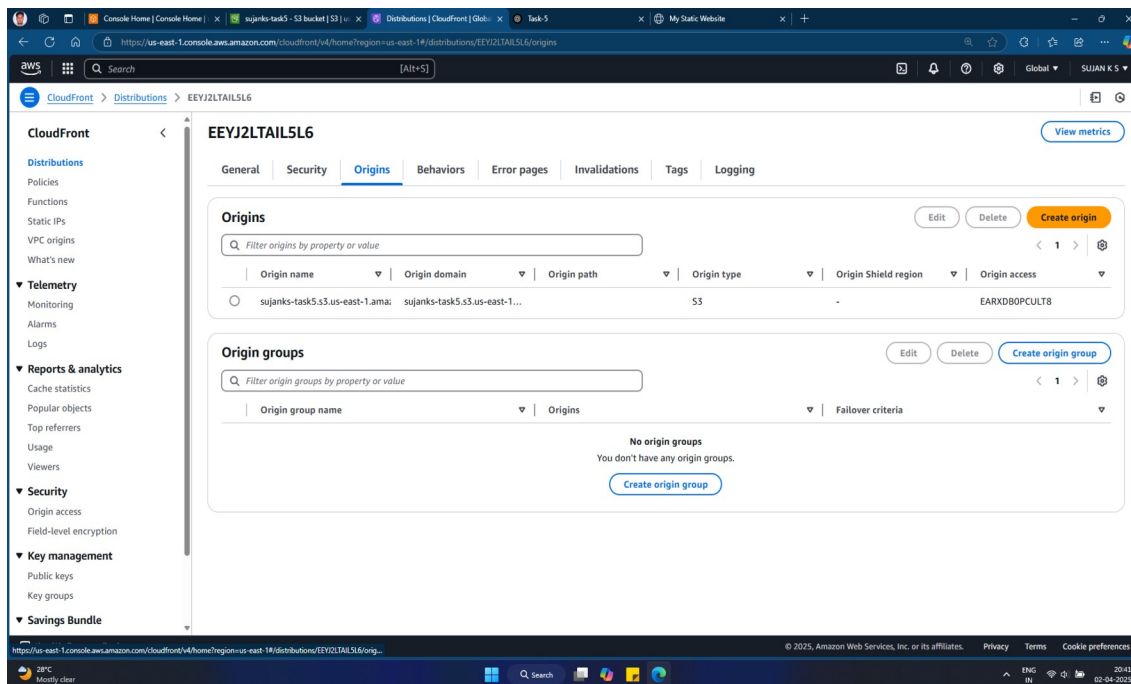
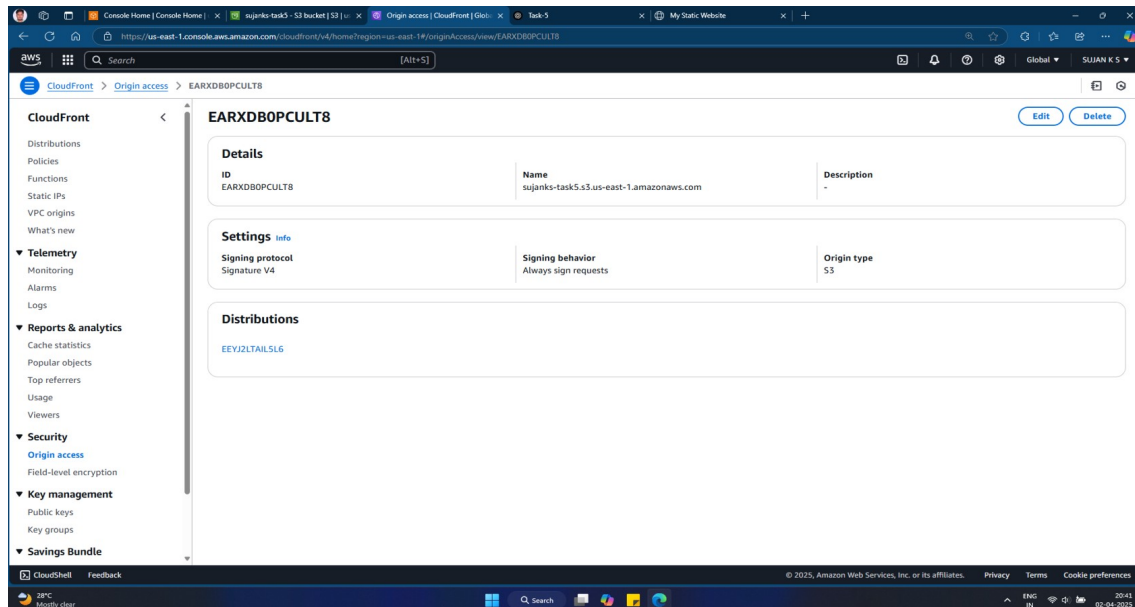
3. Default Cache Behavior:

- Viewer Protocol Policy: HTTP to HTTPS.
- Allowed HTTP Methods: GET, HEAD.
- Restrict Bucket Access: Yes.

4. Create Distribution



5. Add The OAC to the Cloudfront Distrubution, Copy the policy generated



Step 4: Update S3 Bucket Policy (Auto-Generated by CloudFront)

- S3 bucket policy is automatically generated by CloudFront.
- S3 Console >Your Bucket >Permissions >Bucket Policy.
- Replaced CloudFront-generated policy into S3 bucket policy.

Step 5: Test Your Website

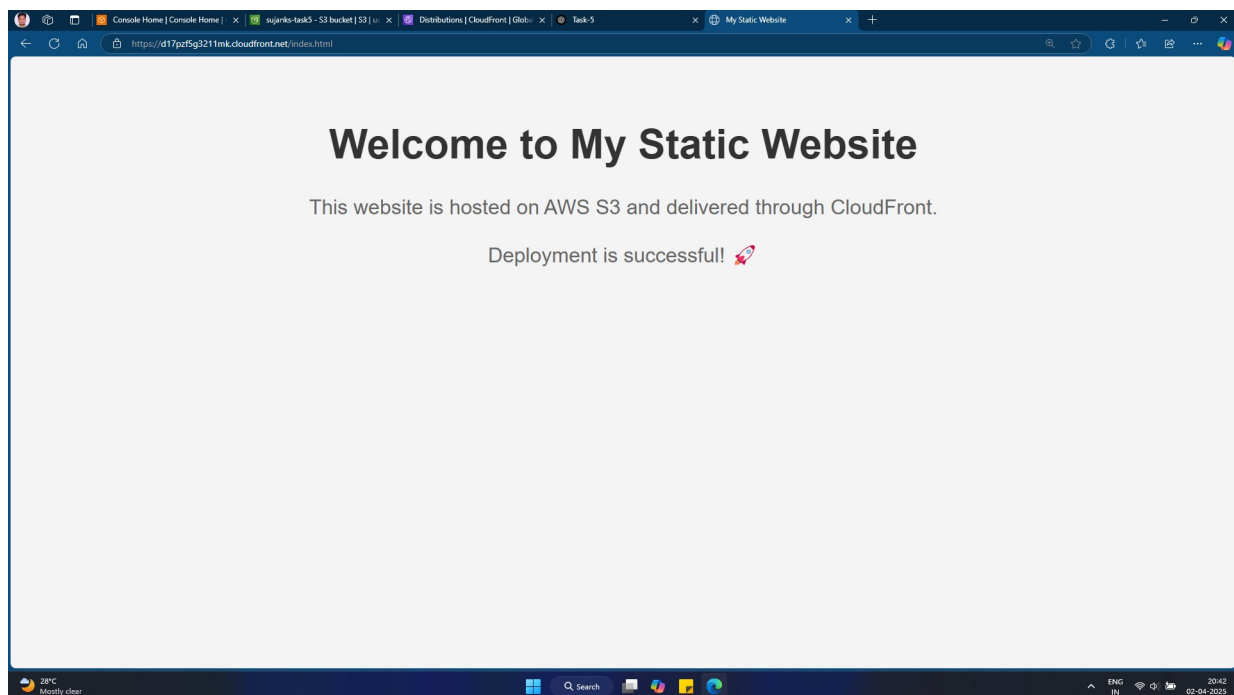
1. Open CloudFront URL

<https://d17pzf3g3211mk.cloudfront.net>

Because of index.html

<https://d17pzf3g3211mk.cloudfront.net/index.html>

2. static website should load successfully.



Conclusion

We successfully hosted a private static website using S3 and CloudFront, ensuring security, fast content delivery, and HTTPS encryption.

Submitted By: Sujan KS

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