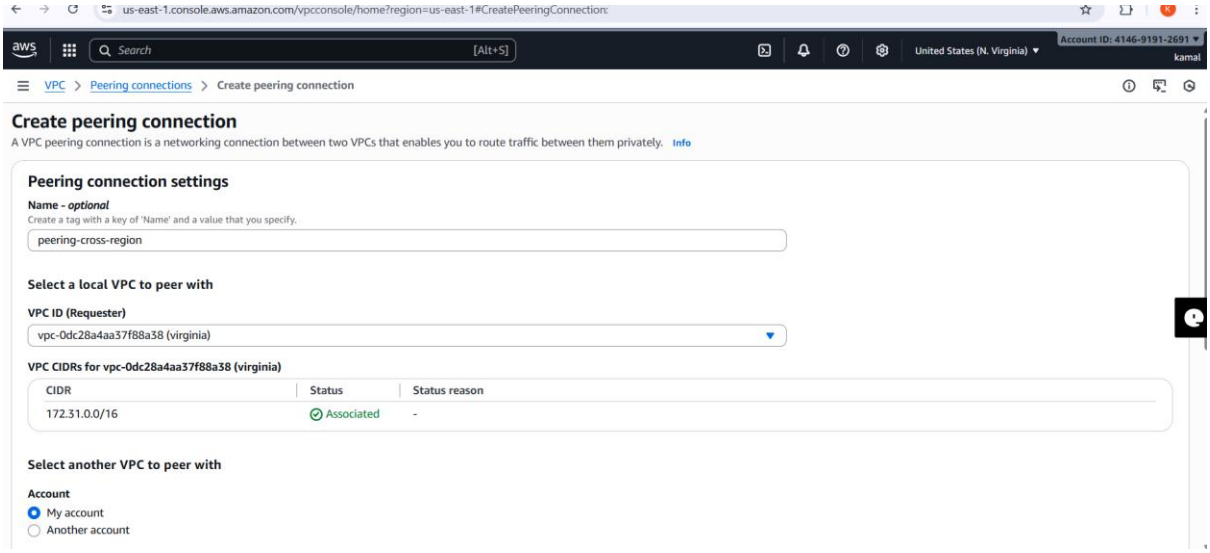
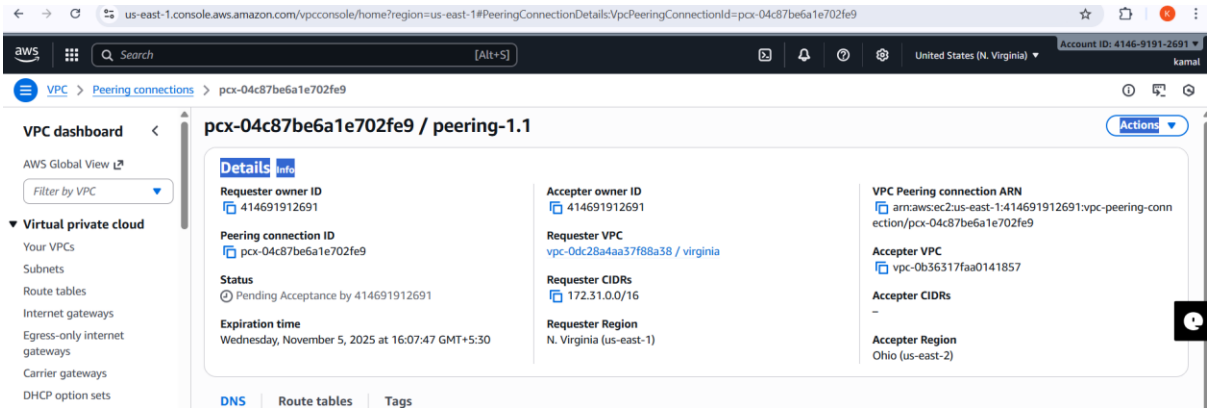
CLOUDFRONT & ROUTE53

1. Configure VPC peering in cross region

- Aws console
- Open vpc
- Create 2 vpc in 2 different regions
- N.virgina region as -1 vpc
- Ohio region – 2 vpc
- Creating vpc peering connection from n virgina region
- 

- Add requester vpc
- And accepter vpc and id
- 

- Go to accepter vpc > peering connections and accept connection
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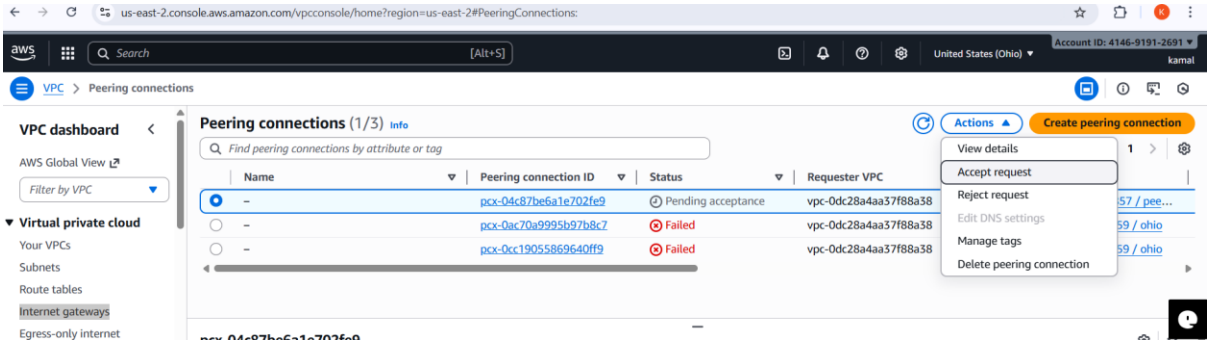
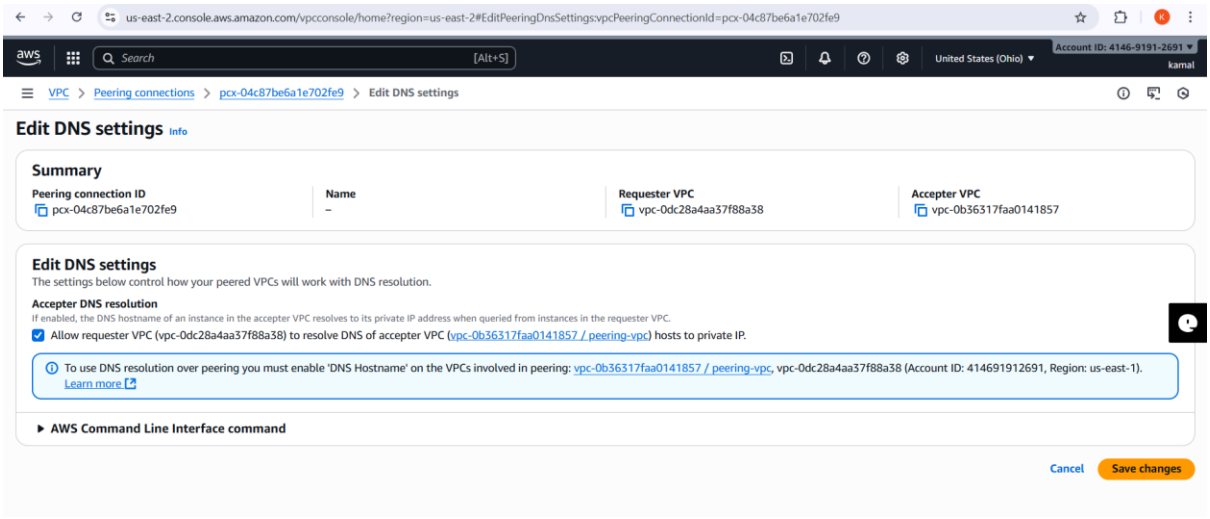
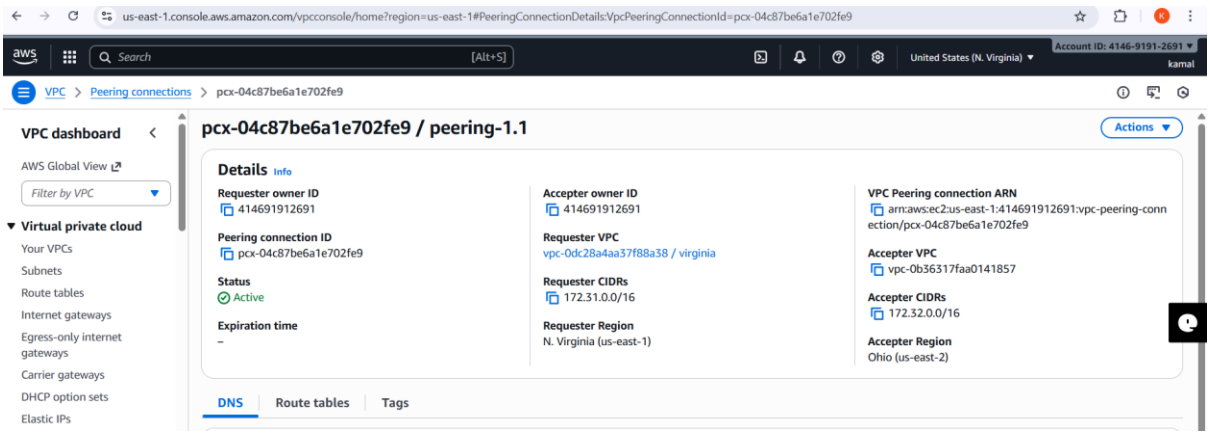
- 

- Enable accepter dns setting
- 

- Peering successful
- 

2 . Purchase one domain from GoDaddy.

- Open godaddy
- Search for domains and buy
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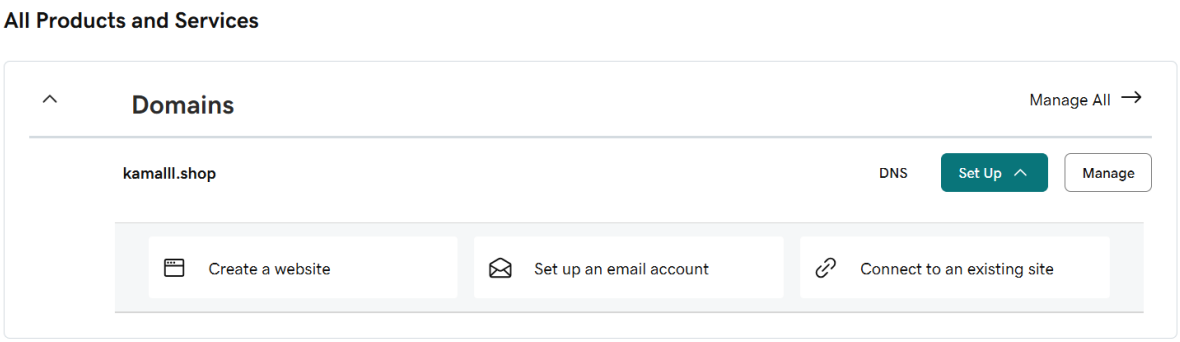
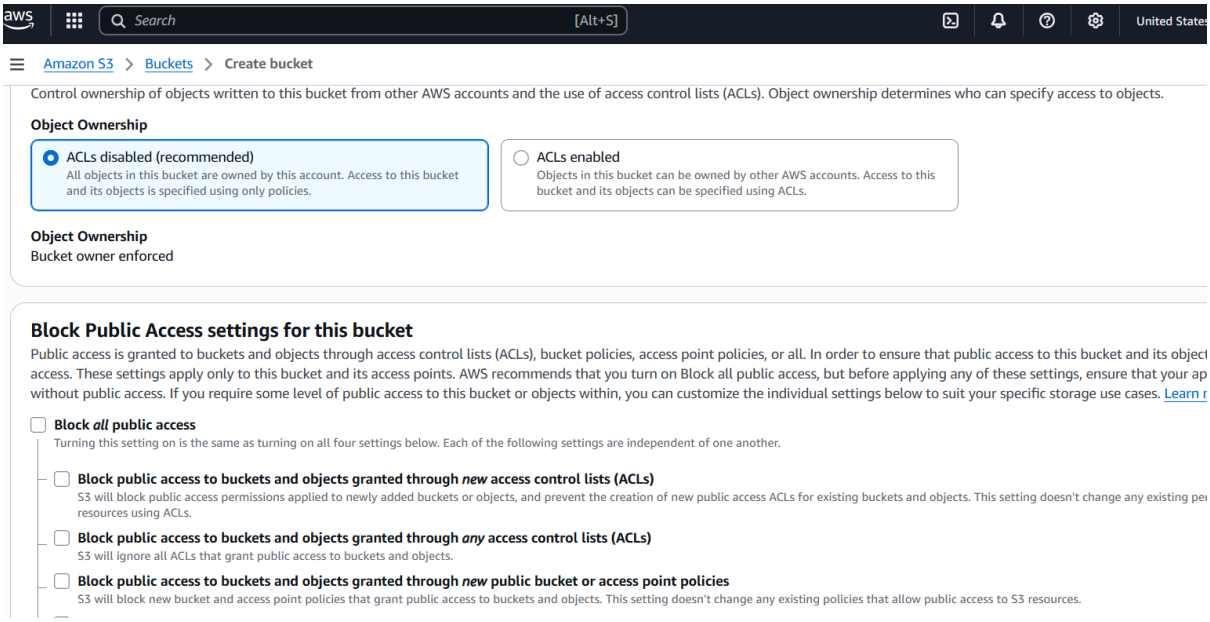


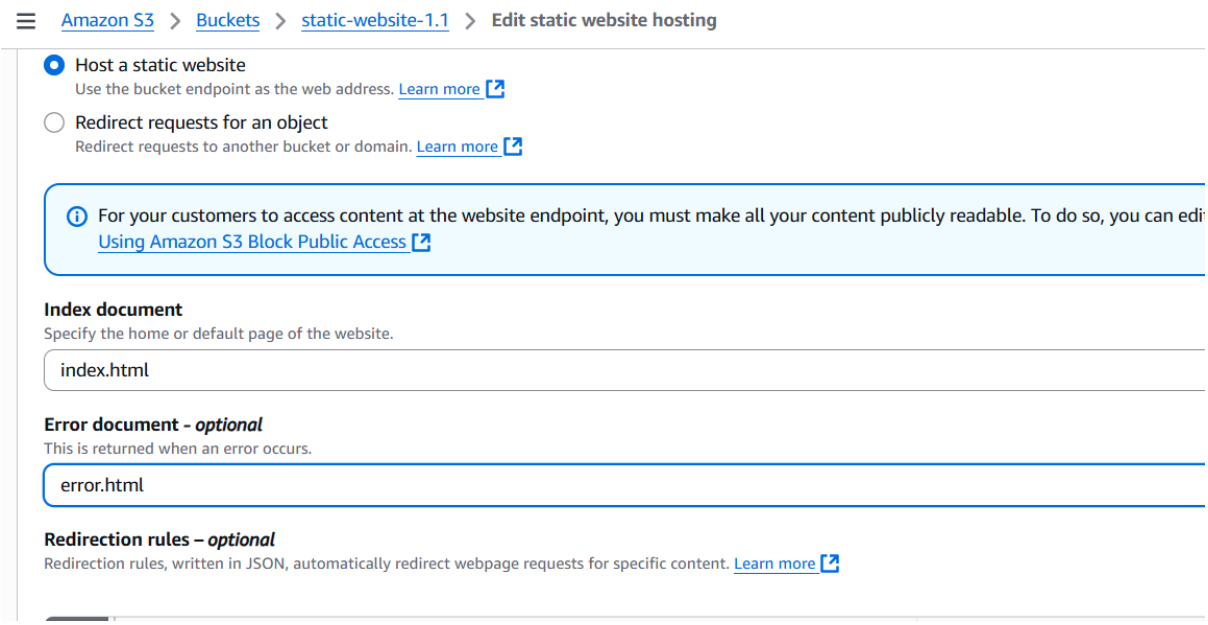
3 . Deploy static website in S3.

- Aws console
- Open s3
- Create a bucket
- Give unique bucket name globally
- Select acl disable option which is recommended
- Uncheck the block ip option

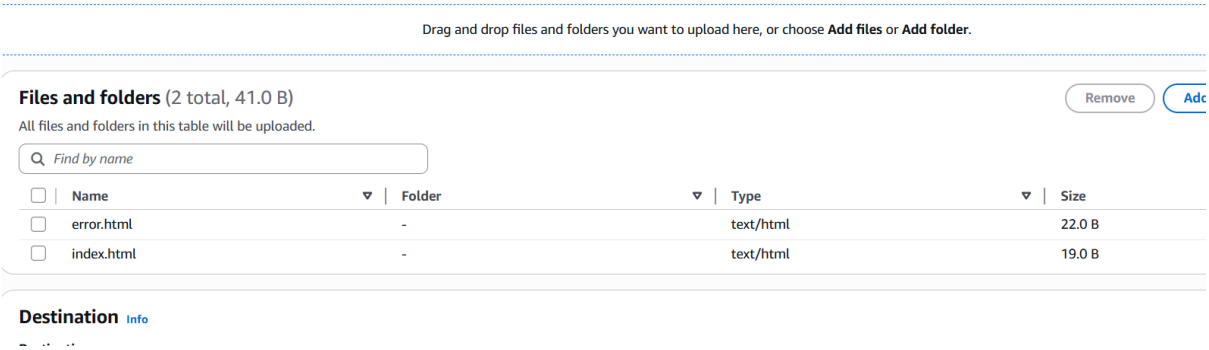


- Open bucket
- Navigate to properties
- Select host static website
- Now , open terminal and create 2 files
- Index.html -file 1
- Error.html -file2

- Now , enter the index.html file and error.html file in properties for static website

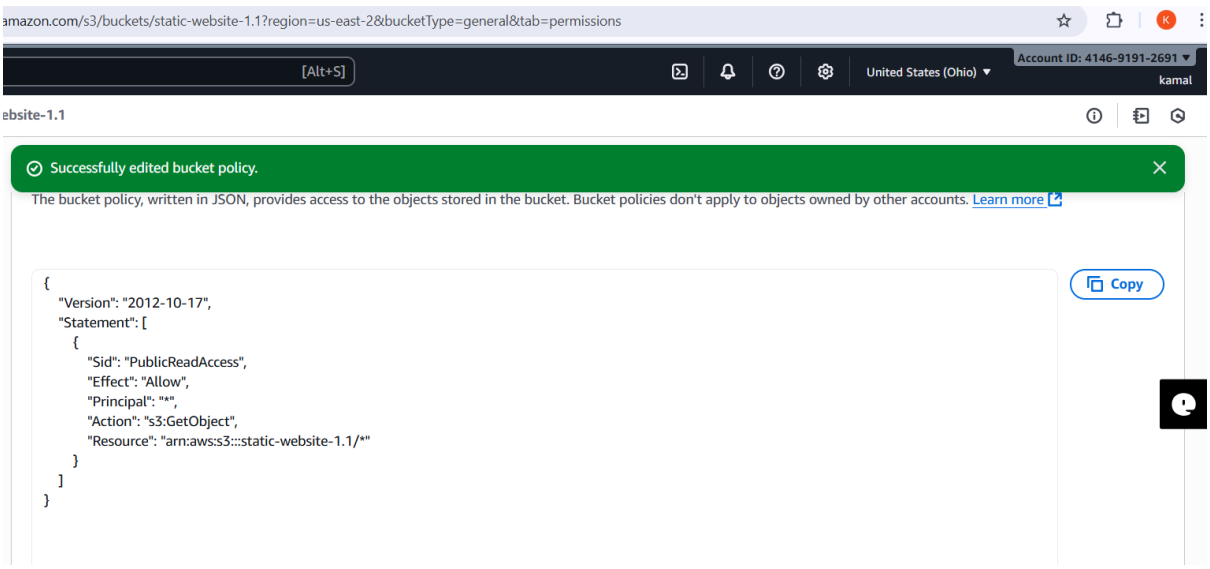


- Upload 2 files in s3 bucket



- Go to bucket permission add a bucket policy
- Add json format policy

```
{
 "Version": "2012-10-17",
 "Statement": [
  {
   "Sid": "PublicReadAccess",
   "Effect": "Allow",
   "Principal": "*",
   "Action": "s3:GetObject",
   "Resource": "arn:aws:s3:::static-website-1.1/*"
  }
 ]
```

- }
- 

- Now click static website link , you can able to see the page working

53 , cdn , task

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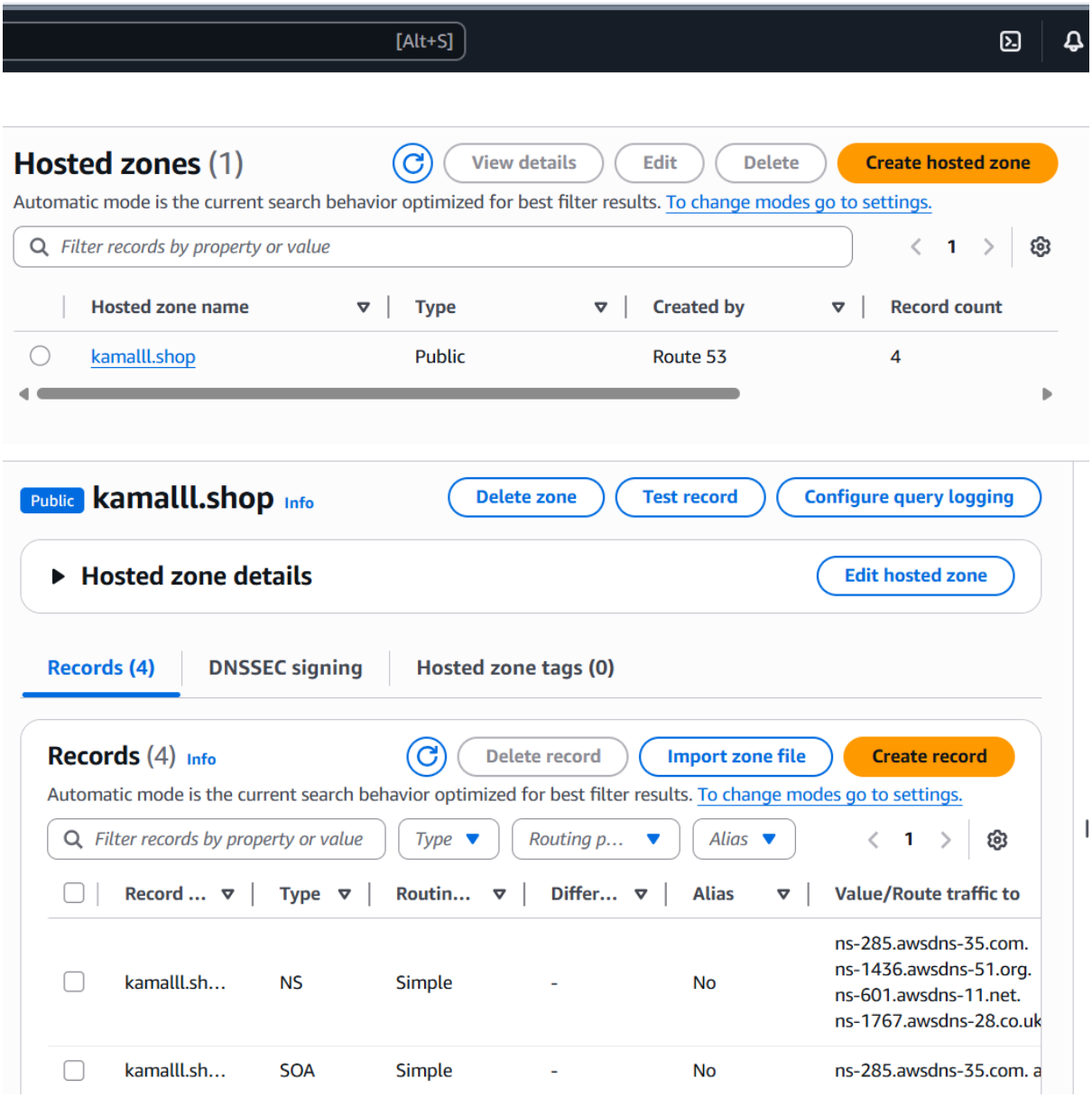
4 . Create a CDN and attach one SSL certificate

5 . Create a Route 53 hosted zone and map the domain with the CDN.

- Go to **AWS Console → Route 53 → Hosted zones**.
- Click **Create hosted zone**.
- **Domain name:** kamalll.shop
- **Type:** Public hosted zone
- Click **Create**.
- After creation, you'll see **four NS (Name Server)** records and one **SOA** record.

- 

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- **Change Nameservers in GoDaddy**
- Go to **GoDaddy → Domains → kamalll.shop → Manage DNS → Nameservers**.
- Click **Change → Enter my own nameservers (advanced)**.
- Delete the existing ones.
- Paste the **4 Route 53 nameservers** from Step 1.
- Click **Save / Apply Changes**.

Nameservers determine where your DNS is hosted and where you add, edit or delete your DNS records.

Using custom nameservers

Nameservers
ns-285.awsdns-35.com
ns-1436.awsdns-51.org
ns-601.awsdns-11.net
ns-1767.awsdns-28.co.uk

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- **Add ACM Validation Records (in Route 53)**
- Go to **AWS Console → Certificate Manager (ACM)** → open your certificate (kamalll.shop).
- Copy each **CNAME Name** and **CNAME Value** shown under “Domain validation”.
- Go back to **Route 53 → your hosted zone → Create record**.
- Create a record, with CNAME AND CNAME VALUE
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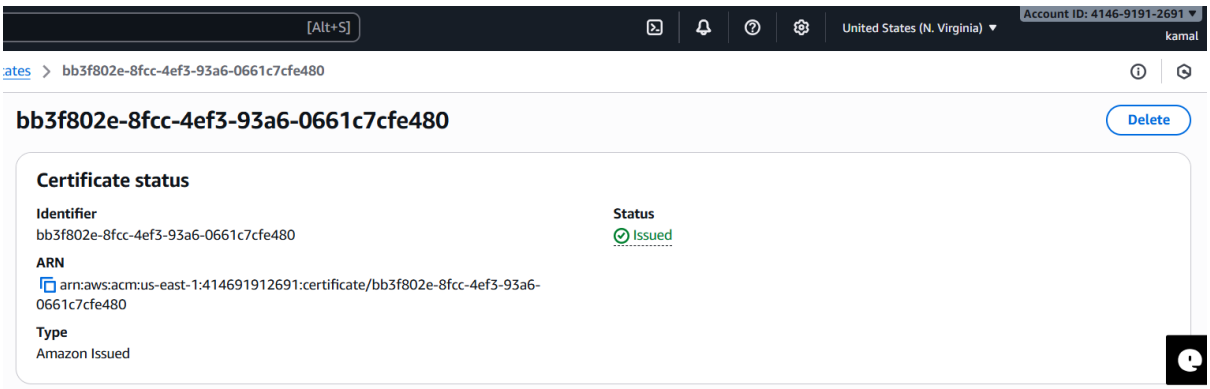
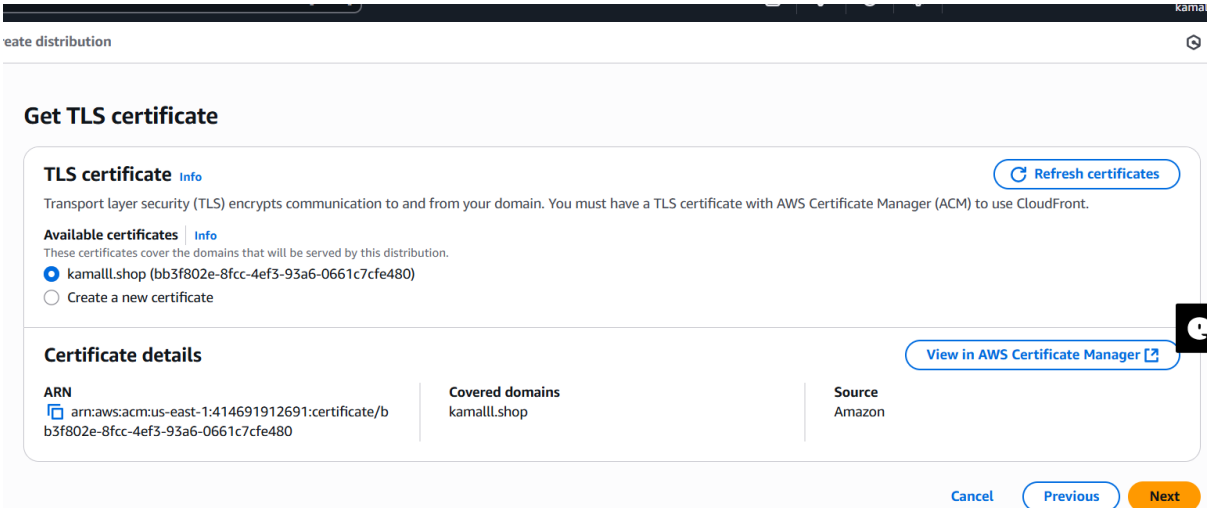
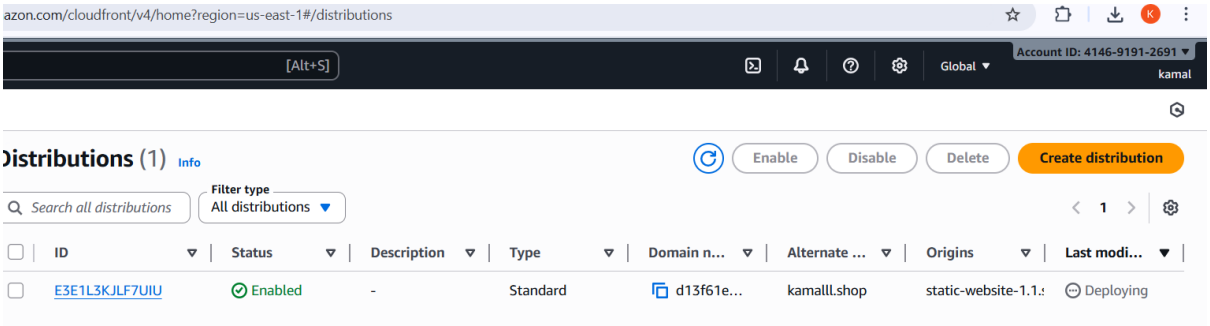
☐	_200aac1…	CNAME	Simple	-	No	_011d5447ff43275efa01

- Wait till certificatre is issued
- 

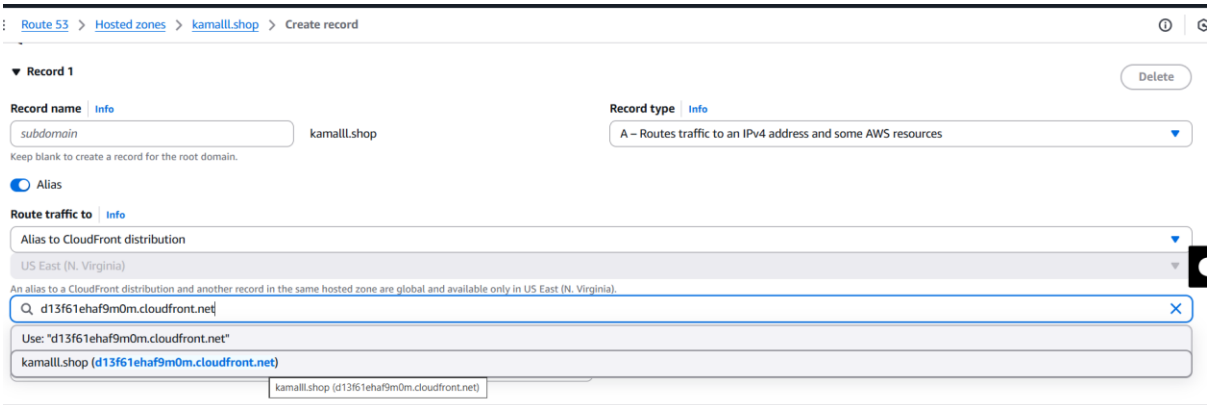
- Now go CLOUDFRONT
- Create a distribution
- Select s3 bucket which contains Index.html and error.html
- Add the ACM Certificate



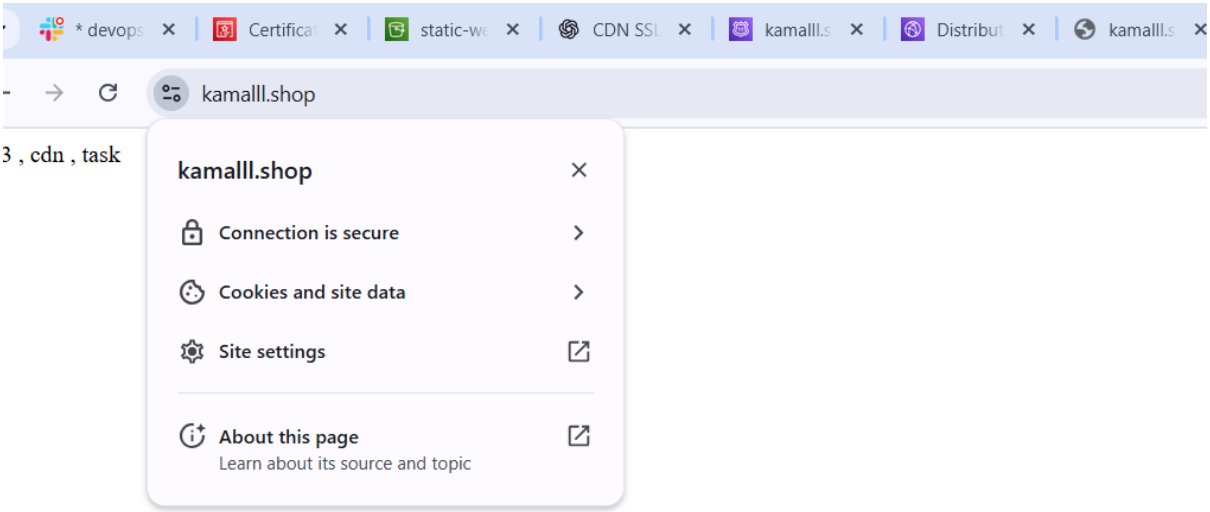
- After successfully created , wait until it get deployed



- Once deployed ,
- Copy distributiuon domain name ,
- Navigate to R53
- Selected hostezone add records
- FOR ALIAS WE NEED TO ADD 2 RECORDS
- Create record -1 > name empty > type A > ON ALIAS
- > SELECT ALIAS TO CLOUDfront distribution
- CHOOSEDISTRIBUTION ALSO
- DONE



- - `kamalll.shop` → main/root domain (FOR ALIAS)
- - `www.kamalll.shop` → the www version (FOR ALIAS)
- Now go to , distribution , and open DISTRIBUTIONS
- SELECT INVALIDATIONS AND GIVE PATH AS (/*)
- CHECK POLICY OF BUCKET IS PUBLIC S3
- S3 BUCKET BUCKET SHOULD CONTIAN INDEX.HTML AND ERROR.HTML FILES



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- Connection is secure