1. Backend: DynamoDB, API Gateway, Lambda function, SNS

☰ Lambda > Functions > backend-image-uploader ⓘ ⊘

✅ Successfully updated the function **backend-image-uploader**. ✕

⎧ API Gateway ⎫ + Add destination ⧉ arn:aws:lambda:us-east-1:103619411293:function.backend-image-uploader
└─────────────────┘ Function URL Info
+ Add trigger -

Code | Test | Monitor | Configuration | Aliases | Versions

Code source Info

Upload from ▾ ⊽

← → 🔍 backend-image-uploader

```
EXPLORER                    ···    JS index.mjs ✕

∨ BACKEND-IMAGE-UPLOADER           JS index.mjs > ...
  JS index.mjs                 1   import { DynamoDBClient, PutItemCommand } from "@aws-sdk/client-dynamodb";
                               2   import { PutObjectCommand, S3Client } from "@aws-sdk/client-s3";
                               3   import { PublishCommand, SNSClient } from "@aws-sdk/client-sns";
                               4   import { getSignedUrl } from "@aws-sdk/s3-request-presigner";
                               5
                               6   const REGION = "us-east-1";
                               7   const s3 = new S3Client({ region: REGION });
                               8   const sns = new SNSClient({ region: REGION });
                               9   const dynamoDB = new DynamoDBClient({ region: REGION });
                              10
∨ DEPLOY [UNDEPLOYED CHANGES] 11   const SNS_TOPIC_ARN = "arn:aws:sns:us-east-1:103619411293:image-uploader-updates";
 ⚠ You have undeployed changes.12   const DYNAMODB_TABLE_NAME = "ImageUploads";
                              13   const BUCKET_NAME = "saurab.ghimire.cloud.computing.image-uploader";
   Deploy (⇧⌘U)               14   export const handler = async (event) => {
                              15     try {
   Test (⇧⌘I)                 16       const { filename, contentType, email } = JSON.parse(event.body);
```

☰ Amazon SNS > Topics > image-uploader-updates ⓘ ⎘ ⊘

Amazon SNS ‹

Dashboard
Topics
Subscriptions

▾ Mobile
Push notifications
Text messaging (SMS)

ⓘ **New Feature** ✕
Amazon SNS now supports High Throughput FIFO topics. Learn more ↗

image-uploader-updates

Edit | Delete | Publish message

Details

Name
image-uploader-updates

Display name
-

ARN
arn:aws:sns:us-east-1:103619411293:image-uploader-updates

Topic owner
103619411293

Type
Standard

‹ | **Subscriptions** | Access policy | Data protection policy | Delivery policy (HTTP/S) | Delivery status logging | Encryption | Tag › ›

Subscriptions (1)   Edit | Delete | Request confirmation | Confirm subscription | **Create subscription**

🔍 Search   ‹ 1 › ⚙

	ID ▲	Endpoint ▽	Status ▽	Protocol ▽
○	8f5f0260-ba30-4c4f-b217-bededc...	sourrab@gmail.com	✅ Confirmed	EMAIL

2. Frontend: S3 for React, CloudFront, S3 for images

☰ Amazon S3 > Buckets > saurab.ghimire.cloud.computing.workshop3.frontend ⓘ ⊡ ⊘

Amazon S3 ‹

General purpose buckets
Directory buckets
Table buckets
Access Grants
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings

Feature spotlight 11

▶ AWS Marketplace for S3

saurab.ghimire.cloud.computing.workshop3.frontend ⓘ Info

Objects | Metadata | Properties | Permissions | Metrics | Management | Access Points

Objects (8)

🔄 | 📋 Copy S3 URI | 📋 Copy URL | ⬇ Download | Open ⧉ | Delete | Actions ▾ | Create folder | ⬆ Upload

Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory ⧉ to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more ⧉

🔍 Find objects by prefix   ‹ 1 › ⚙️

	Name ▲	Type ▽	Last modified ▽	Size ▽	Storage class ▽
☐	📄 asset-manifest.json	json	April 16, 2025, 11:50:28 (UTC-05:00)	517.0 B	Standard
☐	📄 favicon.ico	ico	April 16, 2025, 11:50:28 (UTC-05:00)	3.8 KB	Standard
☐	📄 index.html	html	April 16, 2025, 11:50:28 (UTC-05:00)	644.0 B	Standard
☐	📄 logo192.png	png	April 16, 2025, 11:50:28 (UTC-05:00)	5.2 KB	Standard
☐	📄 logo512.png	png	April 16, 2025, 11:50:29 (UTC-05:00)	9.4 KB	Standard
☐	📄 manifest.json	json	April 16, 2025, 11:50:29 (UTC-05:00)	492.0 B	Standard
☐	📄 robots.txt	txt	April 16, 2025, 11:50:29 (UTC-05:00)	67.0 B	Standard

---

☰ CloudFront > Distributions > E36UQVQK0FDBC ⊡ ⊘

CloudFront ‹

Distributions
Policies
Functions
Static IPs
VPC origins
What's new

Telemetry
Monitoring
Alarms
Logs

Reports & analytics
Cache statistics
Popular objects
Top referrers
Usage
Viewers

Security
Origin access

E36UQVQK0FDBC

[View metrics]

General | Security | Origins | Behaviors | Error pages | Invalidations | Tags | Logging

Details

Distribution domain name
📋 d2fno43fyi8dlz.cloudfront.net

ARN
📋 arn:aws:cloudfront::103619411293:distribution/E3 6UQVQK0FDBC

Last modified
April 16, 2025 at 3:51:19 PM UTC

Settings   [Edit]

Description
-

Price class
Use all edge locations (best performance)

Supported HTTP versions
HTTP/2, HTTP/1.1, HTTP/1.0
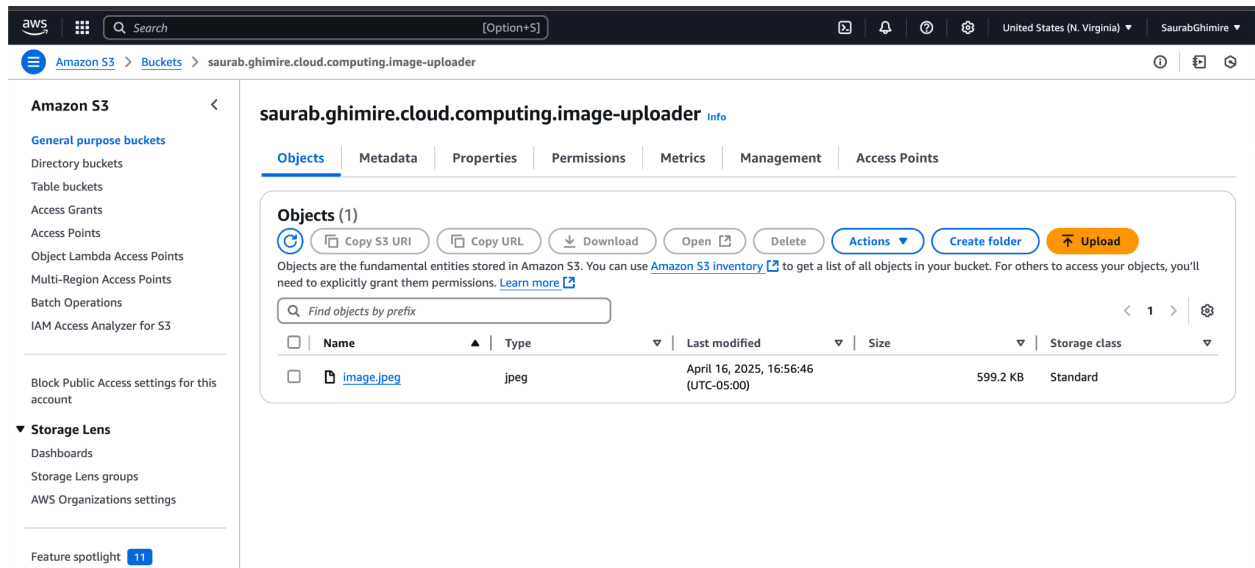
Alternate domain names
-

Standard logging
Off

Cookie logging
Off

Default root object
index.html

Continuous deployment Info

3. Deployed website: Show the live website with working image upload functionality.