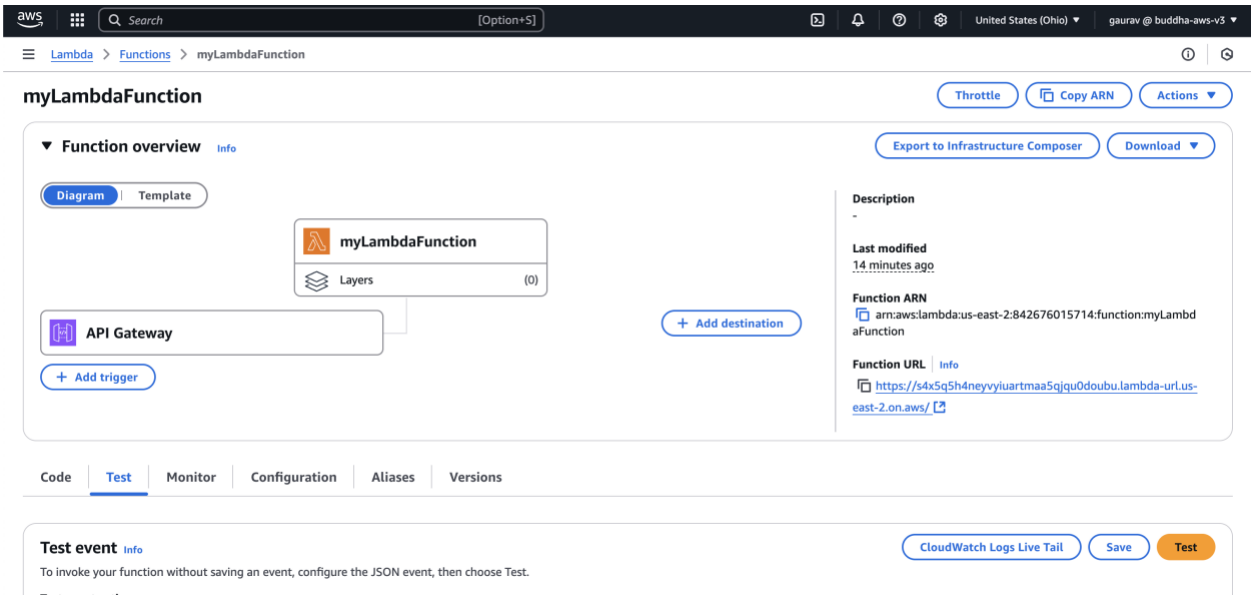
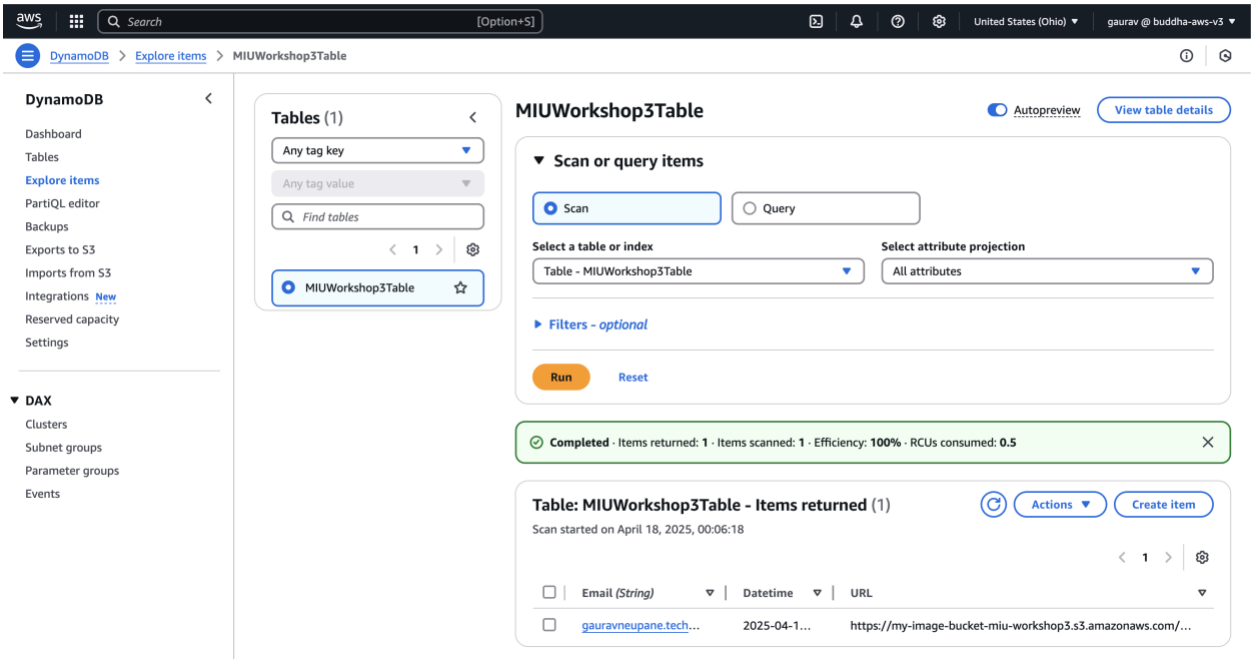
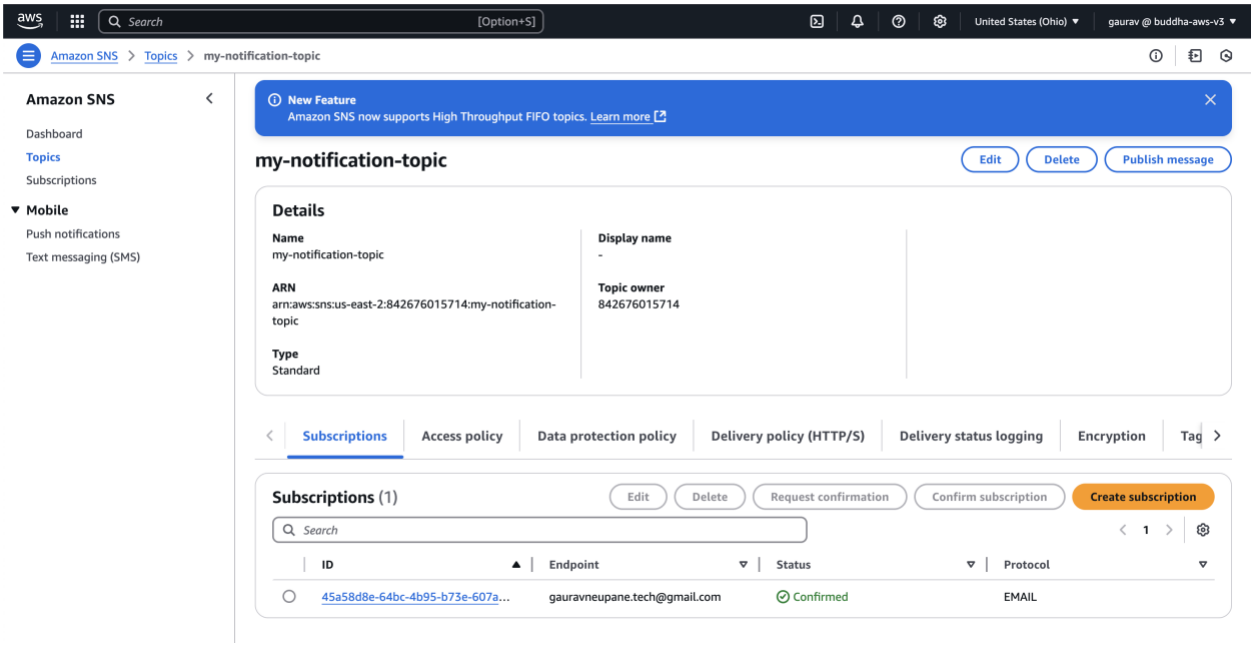
AWS Lambda



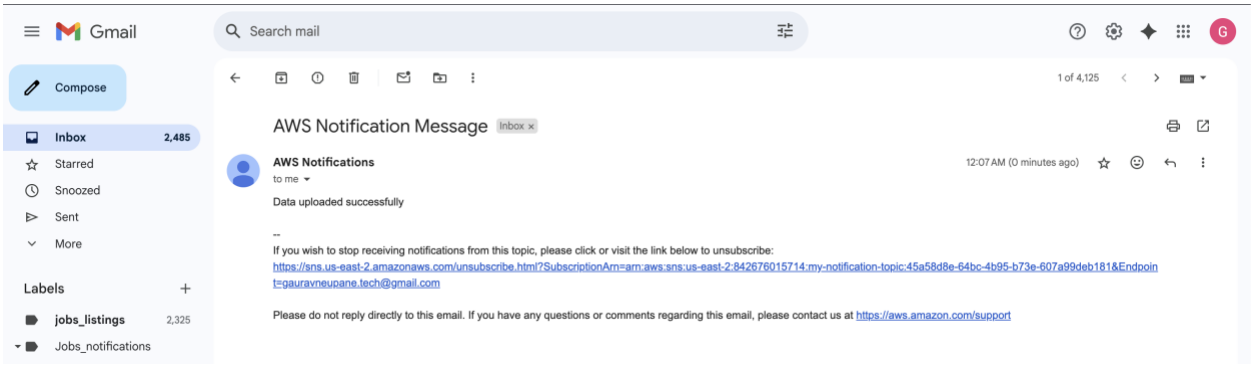
DynamoDB table with data uploaded by Lambda



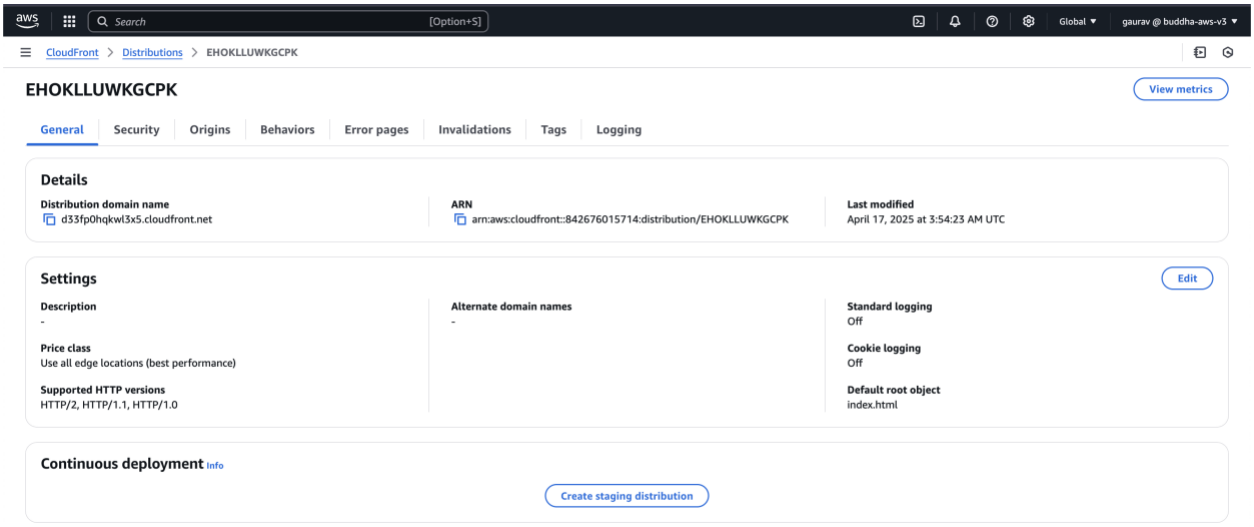
SNS topic for getting message



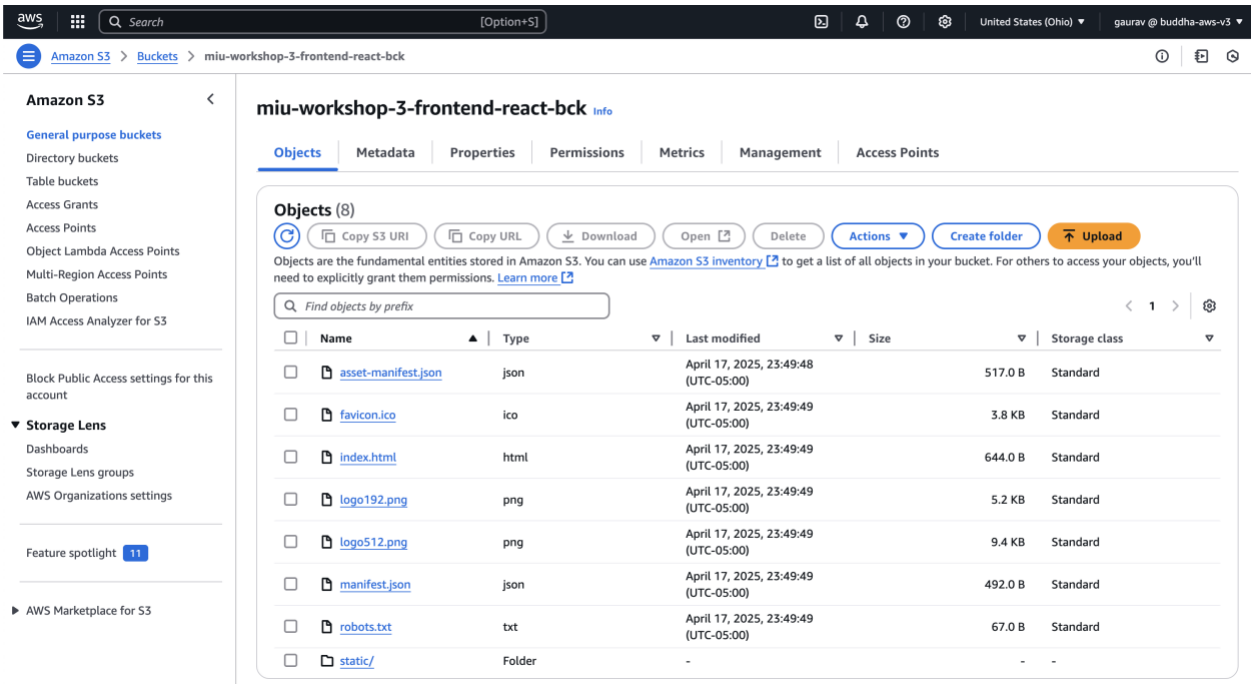
Got sns email by sending message through lambda



Cloud front for frontend URL



S3 for React build



S3 for uploading images

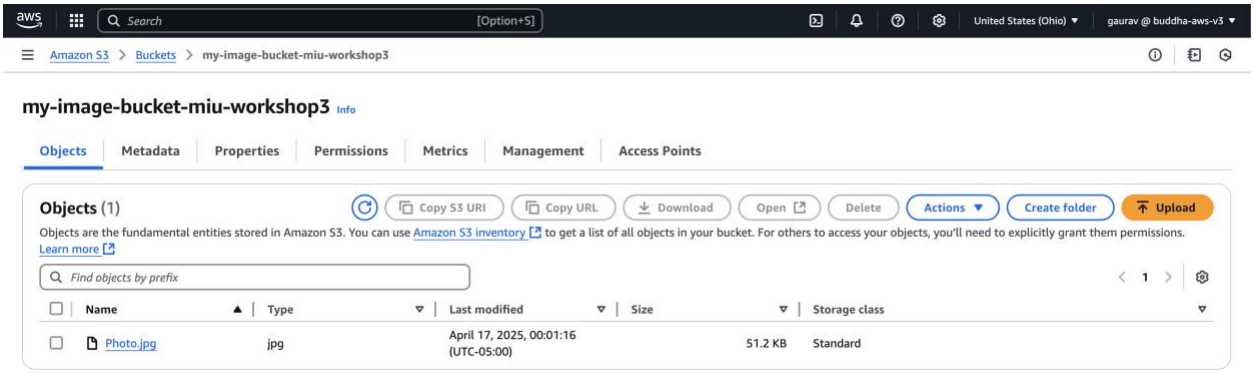
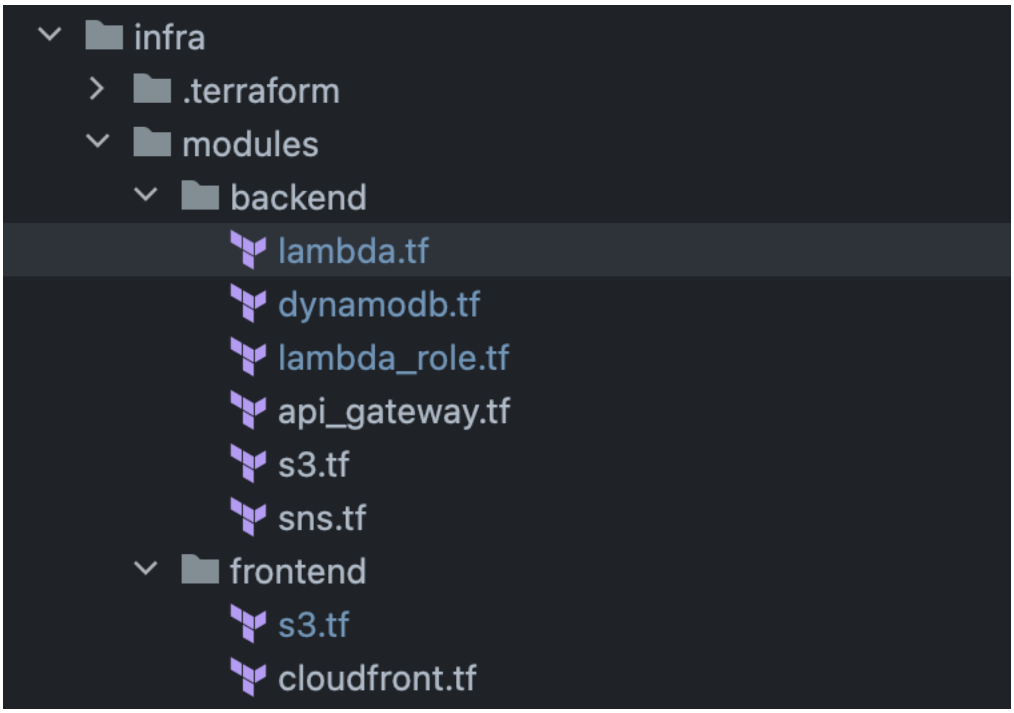


Image uploaded successfully.

Terraform files hosting backend and frontend using IAC.



Using Terraform to manage the cloud resources

```
terraform {
  required_providers {
    aws = {
      source  = "hashicorp/aws"
      version = "~> 5.0"
    }
  }
}

# Configure the AWS Provider
provider "aws" {
  region = "us-east-2"
}

module "backend"{
  source = "./modules/backend"
}

module "frontend"{
  source = "./modules/frontend"
}
```

CORS for S3

```
resource "aws_s3_bucket_cors_configuration" "miu_bucket_cors" {
  bucket = aws_s3_bucket.image_s3.id
  cors_rule {
    allowed_headers = ["*"]
    allowed_methods = ["PUT", "POST"]
    allowed_origins = ["*"]
    expose_headers  = ["ETag"]
    max_age_seconds = 3000
  }
  cors_rule {
    allowed_methods = ["GET"]
    allowed_origins = ["*"]
  }
}
```

CORS for AWS gateway

```
resource "aws_apigatewayv2_api" "lambda_api" {
  name          = "lambda-http-api"
  protocol_type = "HTTP"
  cors_configuration {
    allow_headers = ["Content-Type"]
    allow_methods = ["POST"]
    allow_origins = ["*"]
    expose_headers = []
    max_age = 3600
  }
}
```