Deployment Step

Ruby on Rails App with Nginx in AWS using Terraform

Prerequisites

- AWS account
- Terrfaform
- Docker
- Git

Step 1: Fork & Clone the Repository

git clone https://github.com/mallowtechdev/DevOps-Interview-ROR-App.git

cd DevOps-Interview-ROR-App

Step 2: Build & Push Docker Image to AWS ECR

Create an ECR repo:

aws ecr create-repository --repository-name rails-app-rails-app

aws ecr create-repository --repository-name rails-app-nginx

Authenticate Docker to AWS:

aws ecr get-login-password --region ap-south-1 | docker login --username AWS --password-stdin 413745378153.dkr.ecr.ap-south-1.amazonaws.com

Build Docker Images:

docker build -t 413745378153.dkr.ecr.ap-south-1.amazonaws.com/rails-app-rails-app:latest

docker build -t 413745378153.dkr.ecr.ap-south-1.amazonaws.com/rails-app-nginx:v2

Push to ECR:

docker push 413745378153.dkr.ecr.ap-south-1.amazonaws.com/rails-app-rails-app:latest

docker push 413745378153.dkr.ecr.ap-south-1.amazonaws.com/rails-app-nginx:v2

Step 3: Deploy Infrastructure using Terraform

Create to infrastructure directory:

mkdir infrastructure

Go to infrastructure directory:

cd infrastructure

Initialize Terraform:

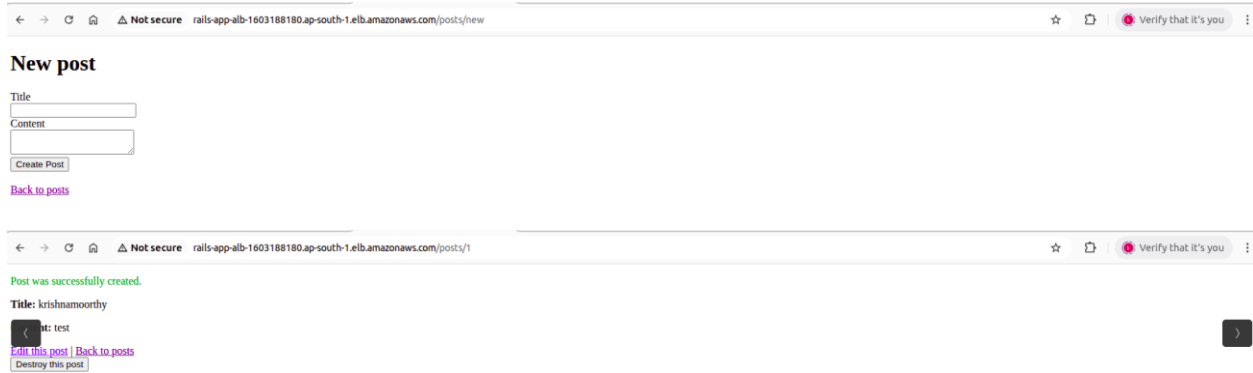terraform init

Plan Terraform Execution

terraform plan

Apply Infrastructure:

terraform apply –auto-approve

Access project via Browser

Create a New Post

Env file stored in S3 Bucket

Amazon S3

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

rails-app-ror Info

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

Objects (1)

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 | Show versions | < 1 >

	Name	▲	Type	▽	Last modified	▽	Size	▽	Storage class	▽
	rails_app.env		env		July 13, 2025, 13:23:40 (UTC+05:30)		283.0 B		Standard	

Amazon S3

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

rails_app.env Info

Copy S3 URI | Download | Open | Object actions ▼

Properties | Permissions | Versions

Object overview

Owner
707003e079401c9f649491f66ab1fe67564afdfdbb2ac51e57e3df95d36921b4

AWS Region
Asia Pacific (Mumbai) ap-south-1

Last modified
July 13, 2025, 13:23:40 (UTC+05:30)

S3 URI
s3://rails-app-ror/rails_app.env

Amazon Resource Name (ARN)
arn:aws:s3:::rails-app-ror/rails_app.env

Entity tag (Etag)
621d05655fe2449114fd8054f1e4dd6c

Diagram

Architecture Diagram