

# LLM-SRE Website: End-to-End Dev → Prod Journey

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January 2026

## 1. Objective

This document records the complete technical journey of building, debugging, and stabilizing the LLM-SRE website—from the initial dev.snrcts.com deployment to the final CI/CD-driven implementation on dev.aimlsre.com.

## 2. Initial Architecture (dev.snrcts.com)

- React + Vite SPA hosted on S3
- CloudFront with OAC
- API Gateway HTTP API routed via /api/\*
- Lambda backend for agent APIs
- Terraform for full IaC

## 3. Major Issues & Fixes

- 403 errors on JS/CSS due to SPA rewrite → fixed by /assets/\* behavior
- Removed 403 → index.html error mapping
- GoDaddy forwarding caused 301/405 → removed

## 4. Migration to aimlsre.com

- Registered domain via Route 53
- Issued ACM certs in us-east-1
- Created dev.aimlsre.com subdomain

## 5. Final Architecture (dev.aimlsre.com)

- S3 bucket: s3-llm-sre-dev-aimlsre
- CloudFront + OAC
- API Gateway + Lambda
- Terraform remote state: S3 + DynamoDB
- GitHub Actions CI/CD with OIDC

Terraform Backend Configuration:

```
backend "s3" {
  bucket = "llm-sre-terraform-state-830330555687"
  key = "llm-sre/aimlsre/dev/site/terraform.tfstate"
  region = "us-east-1"
  dynamodb_table = "llm-sre-terraform-locks"
}
```

## 6. CI/CD Validation

- GET / → 200
- GET /assets/index-\*.js → 200 JS
- GET /api/agents → JSON

## 7. Key Learnings

- Always separate static assets in CloudFront
- Avoid registrar-level forwarding for AWS sites
- Use OIDC for GitHub → AWS auth