

# Deployment Report: Scalable Static Website

## Deployment Summary

### Objective

To deploy a static HTML website to an AWS S3 bucket and serve it globally using Cloudflare CDN with HTTPS. The deployment is fully automated using GitHub Actions CI/CD pipeline.

### Deployment Phases

#### Phase 1: Create and Push Static Website

- Created a responsive index.html page with a modern design.
- Initialized a GitHub repository: <https://github.com/AltrinJabist/your-repo>
- Pushed the code to the main branch.

#### Phase 2: Configure AWS S3

- Created an S3 bucket named altrin (must be globally unique).
- Enabled Static Website Hosting in S3.
- Set index.html as the default document.
- Configured bucket policy to allow public read access for web assets.

#### Phase 3: GitHub Actions CI/CD

- Used `jakejarvis/s3-sync-action@master` to auto-deploy to S3 on push to main.
- GitHub Secrets configured for AWS access:
  - `AWS_ACCESS_KEY_ID`
  - `AWS_SECRET_ACCESS_KEY`
- Sync options used:
  - `--acl public-read --delete`
- Deployment triggered and verified with successful GitHub Actions run.

#### Phase 4: Cloudflare + Custom Domain + SSL

- Domain `www.altrin.in` connected to Cloudflare.

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- Updated domain registrar to use Cloudflare nameservers.
- Configured Cloudflare DNS with CNAME pointing to:  
`altrin.s3-website-us-east-1.amazonaws.com`
- Enabled SSL (Flexible) and Always Use HTTPS in Cloudflare settings.
- Website is now globally accessible via:  
`https://www.altrin.in`

## Verification & Screenshot

- Website accessed successfully over HTTPS.
- Cloudflare's orange cloud active (CDN + Proxy).
- Attached screenshot of deployed website and CI workflow success.

## Caching and Versioning

- S3 Cache-Control headers will be configured next for performance.
- Versioning will be enabled in S3 for rollback support.

## Deliverables

- GitHub Actions Workflow (`.github/workflows/deploy.yml`)
- Public S3 Bucket with website content
- Live domain with HTTPS: `https://www.altrin.in`
- Deployment report (this document)
- Screenshot of deployed site + CI success (attach manually)