# **Staging Deployment Guide**

# 1. Environment Setup

### **Vercel Project Setup**

```
# Install Vercel CLI
npm i -g vercel

# Link project
vercel link

# Set environment variables
vercel env add DATABASE_URL
vercel env add NEXTAUTH_SECRET
vercel env add AWS_BUCKET_NAME
vercel env add AWS_SECRET_ACCESS_KEY_ID
vercel env add AWS_SECRET_ACCESS_KEY
```

### **Required Environment Variables**

```
# Database (Neon.tech staging)
DATABASE_URL="postgresql://username:password@staging-db.neon.tech/yalla_london_staging"
# Authentication
NEXTAUTH_SECRET="your-staging-nextauth-secret-32-chars-min"
NEXTAUTH_URL="https://yalla-london-staging.vercel.app"
# AWS S3 Staging Bucket
AWS_BUCKET_NAME="yalla-london-staging"
AWS_FOLDER_PREFIX="staging/"
AWS_ACCESS_KEY_ID="AKIA..."
AWS_SECRET_ACCESS_KEY="..."
AWS_REGION="us-east-1"
# Feature Flags
FEATURE_SE0=1
FEATURE_EMBEDS=1
FEATURE_MEDIA=1
FEATURE_HOMEPAGE_BUILDER=1
# AI Content Generation
ABACUSAI_API_KEY="your-abacus-ai-key"
# Analytics (Optional)
NEXT_PUBLIC_GOOGLE_ANALYTICS_ID="G-STAGING123"
```

# 2. Database Setup

# **Create Staging Database**

- 1. Create Neon.tech staging project
- 2. Run migrations: yarn prisma migrate deploy

- 3. Generate client: yarn prisma generate
- 4. Seed data: yarn tsx scripts/seed-staging.ts

### **Backup Configuration**

```
# Test backup creation
curl -X POST https://staging-url/api/database/backups \
   -H "Content-Type: application/json" \
   -d '{"backupName": "staging-test", "backupType": "manual"}'
```

# 3. S3 Staging Bucket Setup

### IAM Policy (Least Privilege)

# 4. Deployment Commands

# **Deploy to Staging**

```
# Deploy with environment
vercel --prod --env DATABASE_URL=@database_url_staging

# Run post-deployment seed
vercel env ls
yarn tsx scripts/seed-staging.ts
```

#### **Validation Tests**

```
# Health check
curl https://yalla-london-staging.vercel.app/api/health

# Feature validation
curl https://yalla-london-staging.vercel.app/api/social-embeds
curl https://yalla-london-staging.vercel.app/api/media
curl https://yalla-london-staging.vercel.app/api/homepage-blocks
```

# 5. Expected Staging URLs

- Base: https://yalla-london-staging.vercel.app
- Admin: https://yalla-london-staging.vercel.app/admin
- API: https://yalla-london-staging.vercel.app/api/\*
- Blog: https://yalla-london-staging.vercel.app/blog
- Arabic: https://yalla-london-staging.vercel.app?lang=ar

### 6. Validation Checklist

#### Phase 3.2 - Social Embeds

- [ ] Admin can add Instagram/TikTok/YouTube/Facebook URLs
- [ ] Frontend shows CLS-safe embed cards
- [ ] Click loads official embed or modal
- [ ] GA4 events tracked (video play, embed open)
- [ ] VideoObject JSON-LD generated
- [ ] Usage analytics visible in admin

### Phase 3.3 - Media Library

- [ ] File upload to S3 works
- [ ] WebP/AVIF variants generated
- [ ] Metadata editing (alt, title, tags)
- [ ] "Set as Hero" updates homepage
- [ ] Usage map shows asset locations
- [ ] Responsive srcset in HTML

#### Phase 3.4 - Homepage Builder

- [ ] Drag-drop block reordering
- [ ] Live preview works
- [ ] Publish/rollback functionality
- [ ] EN/AR language switching
- [ ] Lighthouse scores ≥ 0.9

### Phase 3.5 - Database & Backups

- [ ] Manual backup creation
- [ ] Backup download from S3
- [ ] Database restore test
- [ ] Migration safety checks
- [ ] Daily backup scheduling

# 7. Phase 4 Readiness Verification

#### **Content Automation Hooks**

```
// Verify these APIs work in staging:
POST /api/social-embeds (programmatic embed creation)
POST /api/media/assign-automatically (AI image assignment)
POST /api/homepage-blocks/feed-content (automated content streams)
POST /api/content/schedule-batch (bulk content scheduling)
```

#### **Schema Validation**

```
-- Verify multi-tenant ready schema

SELECT column_name FROM information_schema.columns

WHERE table_name = 'BlogPost' AND column_name LIKE '%tenant%';

-- Verify automation queue support

SELECT table_name FROM information_schema.tables

WHERE table_name LIKE '%queue%';
```