



Complete Deployment Guide

This guide covers deploying your multi-brand content platform to various hosting providers with full functionality including content automation, API integrations, and brand switching.



Pre-Deployment Setup

1. Environment Configuration

Create your environment file:

```
# .env.production
# Core Settings
NEXT_PUBLIC_BRAND_TYPE=luxury-guide
NEXT_PUBLIC_SITE_URL=https://yourdomain.com
NEXTAUTH_URL=https://yourdomain.com
NEXTAUTH_SECRET=your-super-secret-key

# Database
DATABASE_URL=postgresql://username:password@host:port/database

# AI Content Generation
ABACUSAI_API_KEY=your-abacusai-key
OPENAI_API_KEY=your-openai-key

# Google Services
GOOGLE_ANALYTICS_ID=G-XXXXXXXXXX
GOOGLE_SEARCH_CONSOLE_KEY={"type": "service_account" ...}
GOOGLE_TAG_MANAGER_ID=GTM-XXXXXXX

# Email & Notifications
SMTP_HOST=smtp.gmail.com
SMTP_PORT=587
SMTP_USERNAME=your-email@gmail.com
SMTP_PASSWORD=your-app-password

# Social Media (Optional)
INSTAGRAM_ACCESS_TOKEN=your-instagram-token
TIKTOK_ACCESS_TOKEN=your-tiktok-token

# AWS S3 (Optional)
AWS_ACCESS_KEY_ID=your-aws-key
AWS_SECRET_ACCESS_KEY=your-aws-secret
AWS_BUCKET_NAME=your-bucket-name

# Security
CRON_SECRET=your-cron-secret-for-automation
```

2. Database Setup

Option A: Neon (Recommended)

```
# 1. Create account at neon.tech
# 2. Create new project
# 3. Copy connection string
DATABASE_URL=postgresql://username:password@ep-xxx.us-east-1.aws.neon.tech/neondb
```

Option B: Railway

```
# 1. Create account at railway.app
# 2. Add PostgreSQL service
# 3. Copy DATABASE_URL from variables
```

Option C: Supabase

```
# 1. Create project at supabase.com
# 2. Get connection string from Settings > Database
DATABASE_URL=postgresql://postgres:password@db.xxx.supabase.co:5432/postgres
```

3. Build Preparation

```
# Install dependencies
yarn install

# Generate Prisma client
yarn prisma generate

# Run database migrations
yarn prisma migrate deploy

# Build the application
yarn build

# Test production build locally
yarn start
```



Platform-Specific Deployment

Vercel (Recommended)

Automatic Deployment

1. Connect Repository:

- Go to vercel.com
- Import your GitHub repository
- Select project

2. Configure Environment:

```
bash
# In Vercel dashboard > Settings > Environment Variables
# Add all variables from .env.production
```

3. Database Integration:

- Add Neon integration from Vercel marketplace
- Or manually add DATABASE_URL

4. Custom Domain:

- Add domain in Project Settings > Domains
- Configure DNS with your provider

5. Deploy:

```
bash
# Automatic deployment on git push
git push origin main
```

Manual Deployment

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

# Login and deploy
vercel login
vercel --prod

# Set environment variables
vercel env add NEXT_PUBLIC_BRAND_TYPE
vercel env add DATABASE_URL
# ... add all environment variables

# Redeploy with environment
vercel --prod
```

Vercel Cron Jobs

Add `vercel.json` :

```
{
  "crons": [
    {
      "path": "/api/cron/auto-generate",
      "schedule": "0 */2 * * *"
    }
  ]
}
```

Netlify**1. Build Settings:**

```
``bash
# Build command
yarn build

# Publish directory
out

# Add to netlify.toml
[build]
command = "yarn build"
publish = "out"
```

```
[[redirects]]
from = "/*"
to = "/index.html"
status = 200
...
```

1. Environment Variables:

- Go to Site Settings > Environment Variables
- Add all required variables

2. Functions (for cron jobs):

```
```javascript
// netlify/functions/auto-generate.js
const { schedule } = require('@netlify/functions')

const handler = schedule('0 /2 * * ', async (event) => {
// Call your auto-generation endpoint
const response = await fetch(`${process.env.URL}/api/cron/auto-generate`, {
method: 'POST',
headers: {
'Authorization': `Bearer ${process.env.CRON_SECRET}`
}
})

return { statusCode: 200, body: JSON.stringify({ success: true }) }

})

module.exports.handler = handler
...`
```

```
return { statusCode: 200, body: JSON.stringify({ success: true }) }
```

## Railway

### 1. Deploy from GitHub:

- Connect GitHub repository
- Select project to deploy

### 2. Environment Variables:

```
bash
In Railway dashboard > Variables
Add all environment variables
```

### 3. Database:

```
bash
Add PostgreSQL plugin
Copy DATABASE_URL to variables
```

### 4. Custom Domain:

```
bash
In Settings > Domains
Add your custom domain
```

## DigitalOcean App Platform

### 1. Create App:

```
```yaml
# .do/app.yaml
name: yalla-london
services:
- name: web
  source_dir: /
  github:
    repo: yourusername/yalla-london
    branch: main
  run_command: yarn start
  build_command: yarn build
  environment_slug: node-js
  instance_count: 1
  instance_size_slug: basic-xxs
  routes:
    - path: /
      envs:
        - key: NEXT_PUBLIC_BRAND_TYPE
          value: luxury-guide
        - key: DATABASE_URL
          value: ${database.DATABASE_URL}
      databases:
        - engine: PG
          name: database
          num_nodes: 1
          size: basic-xs
          version: "13"
```
```

### 2. Deploy:

```
bash
Push to GitHub, auto-deploys
git push origin main
```

## Self-Hosted (VPS)

### Prerequisites

```
Install Node.js 18+
curl -fsSL https://deb.nodesource.com/setup_18.x | sudo -E bash -
sudo apt-get install -y nodejs

Install PM2 for process management
npm install -g pm2

Install Nginx
sudo apt update
sudo apt install nginx

Install PostgreSQL
sudo apt install postgresql postgresql-contrib
```

### Deployment Steps

```
1. Clone repository
git clone https://github.com/yourusername/yalla-london.git
cd yalla-london

2. Install dependencies
yarn install

3. Set up environment
cp .env.example .env.production
Edit .env.production with your settings

4. Set up database
sudo -u postgres psql
CREATE DATABASE yallalondon;
CREATE USER yallalondon WITH PASSWORD 'yourpassword';
GRANT ALL PRIVILEGES ON DATABASE yallalondon TO yallalondon;
\q

5. Run migrations
yarn prisma migrate deploy

6. Build application
yarn build

7. Start with PM2
pm2 start ecosystem.config.js

8. Configure Nginx
sudo nano /etc/nginx/sites-available/yallalondon
```

## Nginx Configuration

```
server {
 listen 80;
 server_name yourdomain.com www.yourdomain.com;

 location / {
 proxy_pass http://localhost:3000;
 proxy_http_version 1.1;
 proxy_set_header Upgrade $http_upgrade;
 proxy_set_header Connection 'upgrade';
 proxy_set_header Host $host;
 proxy_set_header X-Real-IP $remote_addr;
 proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
 proxy_set_header X-Forwarded-Proto $scheme;
 proxy_cache_bypass $http_upgrade;
 }
}
```

## PM2 Configuration

```
// ecosystem.config.js
module.exports = {
 apps: [{
 name: 'yalla-london',
 script: 'yarn',
 args: 'start',
 cwd: '/path/to/yalla-london',
 env: {
 NODE_ENV: 'production'
 },
 instances: 'max',
 exec_mode: 'cluster'
 }]
}
```

## SSL Certificate

```
Install Certbot
sudo apt install certbot python3-certbot-nginx

Get SSL certificate
sudo certbot --nginx -d yourdomain.com -d www.yourdomain.com

Auto-renewal
sudo crontab -e
Add: 0 12 * * * /usr/bin/certbot renew --quiet
```

## Cron Jobs (Self-Hosted)

```
Edit crontab
crontab -e

Add content automation (every 2 hours)
0 */2 * * * curl -X POST -H "Authorization: Bearer your-cron-secret" https://yourdo-
main.com/api/cron/auto-generate

Add database cleanup (daily)
0 2 * * * curl -X POST -H "Authorization: Bearer your-cron-secret" https://yourdo-
main.com/api/cron/cleanup
```



## Post-Deployment Configuration

### 1. Admin Panel Setup

1. **Access admin panel:** `https://yourdomain.com/admin`
2. **Configure API keys** in Settings tab
3. **Test integrations** using the test buttons
4. **Set up content automation rules**

### 2. Content Generation

```
Test content generation
curl -X POST https://yourdomain.com/api/content/auto-generate \
-H "Content-Type: application/json" \
-d '{
 "type": "blog_post",
 "category": "london-guide",
 "language": "en"
}'

Test automation
curl -X POST https://yourdomain.com/api/cron/auto-generate \
-H "Authorization: Bearer your-cron-secret"
```

### 3. SEO Setup

1. **Google Search Console:**
  - Add property for your domain
  - Upload service account key in admin panel
  - Verify ownership
2. **Google Analytics:**
  - Create GA4 property
  - Add measurement ID to admin panel
3. **Submit Sitemap:**
  - `https://yourdomain.com/sitemap.xml`

### 4. Social Media Integration

1. **Instagram Business:**
  - Get access token from Facebook Developer Console
  - Add to admin panel settings



## 2. TikTok for Business:

- Apply for TikTok Marketing API
- Configure access token

## Multi-Brand Deployments

### Strategy 1: Separate Deployments

```
Brand 1: Yalla London
NEXT_PUBLIC_BRAND_TYPE=luxury-guide
NEXT_PUBLIC_SITE_URL=https://yallalondon.com

Brand 2: Dubai Fine Dining
NEXT_PUBLIC_BRAND_TYPE=restaurant-guide
NEXT_PUBLIC_SITE_URL=https://dubaifinedining.com

Brand 3: London Kids Guide
NEXT_PUBLIC_BRAND_TYPE=kids-retail
NEXT_PUBLIC_SITE_URL=https://londonkidsguide.com
```

### Strategy 2: Branch-Based Deployment

```
Main branch: Default brand
git checkout main
Deploy to main domain

Brand branches
git checkout -b dubai-restaurants
Update .env with restaurant-guide brand
Deploy to subdomain or separate domain
```

### Strategy 3: Environment-Based

```
Vercel: Multiple environments
vercel env add NEXT_PUBLIC_BRAND_TYPE luxury-guide --environment production
vercel env add NEXT_PUBLIC_BRAND_TYPE restaurant-guide --environment preview

Deploy different brands to different aliases
vercel --prod --target production
vercel --prod --target preview
```

## Monitoring & Analytics

### Application Monitoring

```
Add monitoring tools
yarn add @vercel/analytics @vercel/speed-insights

Environment variables for monitoring
NEXT_PUBLIC_VERCEL_ANALYTICS=1
NEXT_PUBLIC_SPEED_INSIGHTS=1
```

## Error Tracking

```
Add Sentry
yarn add @sentry/nextjs

Configure in next.config.js
const { withSentryConfig } = require('@sentry/nextjs');

module.exports = withSentryConfig({
 // Next.js config
}, {
 // Sentry config
 silent: true,
 org: 'your-org',
 project: 'yalla-london'
});
```

## Performance Monitoring

```
Lighthouse CI
npm install -g @lhci/cli

Configure .lighthouserc.js
module.exports = {
 ci: {
 collect: {
 url: ['https://yourdomain.com'],
 startServerCommand: 'yarn start'
 },
 },
 assert: {
 assertions: {
 'categories:performance': ['warn', { minScore: 0.9 }],
 'categories:accessibility': ['error', { minScore: 0.9 }],
 'categories:seo': ['error', { minScore: 0.9 }]
 }
 }
};
```

## Security Configuration

### Content Security Policy

```
// next.config.js
const nextConfig = {
 async headers() {
 return [
 {
 source: '/(.*)',
 headers: [
 {
 key: 'Content-Security-Policy',
 value: `
 default-src 'self';
 script-src 'self' 'unsafe-eval' 'unsafe-inline' https://www.google-ana-
lytics.com;
 style-src 'self' 'unsafe-inline';
 img-src 'self' data: https:;
 font-src 'self' data:;
 connect-src 'self' https://api.openai.com https://apps.abacus.ai;
 .replace(/\s{2,}/g, ' ').trim()
 `
 }
]
 }
]
 }
}
```

### Rate Limiting

```
// middleware.ts
import { NextRequest, NextResponse } from 'next/server'
import { Ratelimit } from '@upstash/ratelimit'
import { Redis } from '@upstash/redis'

const ratelimit = new Ratelimit({
 redis: Redis.fromEnv(),
 limiter: Ratelimit.slidingWindow(10, '10 s'),
})

export async function middleware(request: NextRequest) {
 const ip = request.ip ?? '127.0.0.1'
 const { success } = await ratelimit.limit(ip)

 if (!success) {
 return NextResponse.json(
 { error: 'Too many requests' },
 { status: 429 }
)
 }

 return NextResponse.next()
}
```

## Troubleshooting

### Common Issues

#### 1. Build Fails:

```
bash
Clear cache and rebuild
rm -rf .next
yarn build
```

#### 2. Database Connection:

```
bash
Test connection
yarn prisma db push --accept-data-loss
```

#### 3. Environment Variables Not Loading:

```
```bash
# Check environment
echo $NEXT_PUBLIC_BRAND_TYPE
```

Verify in code

```
console.log(process.env.NEXT_PUBLIC_BRAND_TYPE)
```
```

#### 1. API Routes Failing:

```
bash
Check logs
vercel logs
Or PM2 logs for self-hosted
pm2 logs yalla-london
```

### Performance Issues

```
Analyze bundle size
yarn build --analyze

Check Core Web Vitals
yarn lighthouse https://yourdomain.com

Monitor API response times
curl -w "@curl-format.txt" -s -o /dev/null https://yourdomain.com/api/health
```

## Deployment Checklist

### Pre-Launch

- [ ] Environment variables configured
- [ ] Database migrations applied
- [ ] Build completes successfully
- [ ] All API integrations tested
- [ ] Brand configuration verified
- [ ] SSL certificate installed
- [ ] Custom domain configured

## Post-Launch

- ☐ Google Analytics tracking verified
- ☐ Search Console connected and verified
- ☐ Sitemap submitted
- ☐ Social media profiles linked
- ☐ Content generation working
- ☐ Automation rules configured
- ☐ Admin panel accessible
- ☐ Error monitoring active
- ☐ Performance metrics baseline established

## Ongoing Maintenance

- ☐ Regular database backups
- ☐ Security updates applied
- ☐ Performance monitoring
- ☐ Content quality review
- ☐ SEO performance tracking
- ☐ Social media engagement
- ☐ User feedback collection

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Your multi-brand content platform is now ready for deployment! 🎉