

# Revolution Trading Pros - Deployment Guide

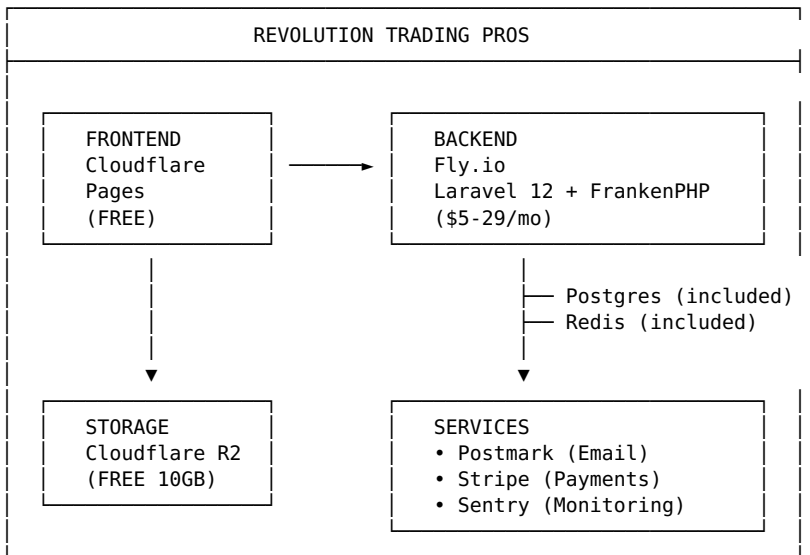
# Revolution Trading Pros - Deployment Guide

## December 2025 Stack Configuration

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### Architecture Overview



### Monthly Cost Estimate

Service	Free Tier	Starter	Growth
Fly.io	-	\$5/mo	\$29/mo
Postmark	100 emails	\$15/mo (10K)	\$50/mo (50K)
Stripe	-	2.9% + \$0.30/tx	2.9% + \$0.30/tx
Sentry	5K errors	\$26/mo	\$80/mo
Cloudflare Pages	FREE	FREE	FREE
Cloudflare R2	FREE (10GB)	\$0.015/GB	\$0.015/GB
TOTAL	~\$0	~\$46/mo	~\$159/mo

### 1. Fly.io - Backend Hosting

#### What It Does

Hosts your Laravel backend with FrankenPHP for sub-millisecond response times. Includes managed Postgres database and Redis cache.

## Sign Up

**URL:** <https://fly.io/app/sign-up>

## Pricing Tiers

Plan	Price	Resources	Best For
Hobby	\$5/mo	1 shared CPU, 256MB RAM, 1GB storage	Development/Testing
Launch	\$29/mo	1 dedicated CPU, 2GB RAM, 10GB storage	Production
Scale	\$79/mo	2 dedicated CPUs, 4GB RAM, 20GB storage	High Traffic

## Included with All Plans

- **Postgres Database** - Managed, automatic backups
- **Redis Cache** - For sessions, cache, queues
- **SSL Certificates** - Automatic HTTPS
- **Global Deployment** - 30+ regions
- **Volumes** - Persistent storage

## Setup Instructions

### Step 1: Install Fly CLI

```
# macOS
brew install flyctl

# Linux
curl -L https://fly.io/install.sh | sh

# Windows
powershell -Command "iwr https://fly.io/install.ps1 -useb | iex"
```

### Step 2: Login

```
fly auth login
```

### Step 3: Run Setup Script

```
cd backend
chmod +x scripts/fly-deploy.sh
./scripts/fly-deploy.sh setup
```

This creates: - Fly.io app - Postgres database (1GB free tier) - Redis instance (256MB) - Persistent volume for storage

### Step 4: Get Database URL

After setup, note these values:

```
fly postgres connect -a revolution-trading-pros-db
# Connection string will be shown
```

---

## 2. Postmark - Transactional Email

### What It Does

Sends transactional emails (password resets, notifications, receipts) with 99%+ deliverability.

## Sign Up

URL: <https://postmarkapp.com/sign-up>

## Pricing Tiers

Plan	Price	Emails/Month	Features
Free	\$0	100	Testing only, Postmark branding
Starter	\$15/mo	10,000	No branding, dedicated IP optional
Standard	\$50/mo	50,000	Priority support
Plus	\$115/mo	125,000	Dedicated IP included
Enterprise	Custom	Unlimited	SLA, dedicated support

## Setup Instructions

### Step 1: Create Account

1. Go to <https://postmarkapp.com/sign-up>
2. Verify your email address
3. Complete account setup

### Step 2: Create Server

1. Click "Create Server"
2. Name it: Revolution Trading Pros
3. Select "Live" for production (or "Test" for development)

### Step 3: Get API Token

1. Go to Server → API Tokens
2. Click "Create Token"
3. Copy the token (starts with xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxx)

### Step 4: Verify Sender Domain

1. Go to Sender Signatures → Add Domain
2. Add your domain: revolutiontradingpros.com
3. Add DNS records as shown:
  - DKIM record (TXT)
  - Return-Path record (CNAME)
4. Click "Verify"

### Step 5: Set Environment Variable

```
fly secrets set POSTMARK_TOKEN="your-token-here"
```

## Configuration (Already Done)

File: backend/config/mail.php

```
'default' => env('MAIL_MAILER', 'postmark'),
```

File: backend/config/services.php

```
'postmark' => [  
    'token' => env('POSTMARK_TOKEN'),  
],
```

---

## 3. Stripe - Payment Processing

### What It Does

Processes credit card payments, subscriptions, and invoicing for your trading platform.

## Sign Up

**URL:** <https://dashboard.stripe.com/register>

## Pricing

Type	Fee	Notes
<b>Card Payments</b>	2.9% + \$0.30	Per successful transaction
<b>International Cards</b>	+1.5%	Additional fee
<b>Currency Conversion</b>	+1%	If converting currencies
<b>Disputes</b>	\$15	Per chargeback (refunded if won)
<b>Payouts</b>	FREE	To your bank account

**No monthly fees. No setup fees. No minimums.**

## Setup Instructions

### Step 1: Create Account

1. Go to <https://dashboard.stripe.com/register>
2. Enter email and create password
3. Verify email address

### Step 2: Complete Business Profile

1. Go to Settings → Business Settings
2. Add:
  - Business name
  - Business address
  - Tax ID (EIN/SSN)
  - Bank account for payouts

### Step 3: Get API Keys

1. Go to Developers → API Keys
2. Copy these keys:

Key Type	Format	Usage
Publishable Key	pk_live_XXX	Frontend (public)
Secret Key	sk_live_XXX	Backend (secret)

**For Testing:** Use pk\_test\_XXX and sk\_test\_XXX keys first.

### Step 4: Create Webhook

1. Go to Developers → Webhooks
2. Click “Add endpoint”
3. URL: <https://revolution-trading-pros.fly.dev/api/webhooks/stripe>
4. Select events:
  - payment\_intent.succeeded
  - payment\_intent.payment\_failed
  - customer.subscription.created
  - customer.subscription.updated
  - customer.subscription.deleted
  - invoice.paid
  - invoice.payment\_failed
5. Click “Add endpoint”
6. Copy the Webhook Signing Secret (whsec\_XXX)

### Step 5: Set Environment Variables

```
fly secrets set \
  STRIPE_KEY="pk_live_XXXXXXXXXXXX" \
  STRIPE_SECRET="sk_live_XXXXXXXXXXXX" \
  STRIPE_WEBHOOK_SECRET="whsec_XXXXXXXXXXXX"
```

## Configuration (Already Done)

File: backend/config/services.php

```
'stripe' => [
    'key' => env('STRIPE_KEY'),
    'secret' => env('STRIPE_SECRET'),
    'webhook_secret' => env('STRIPE_WEBHOOK_SECRET'),
],
```

---

## 4. Sentry - Error Tracking

### What It Does

Captures errors, exceptions, and performance issues in real-time. Shows stack traces, user context, and trends.

### Sign Up

URL: <https://sentry.io/signup/>

### Pricing Tiers

Plan	Price	Errors/Month	Features
<b>Developer</b>	FREE	5,000	1 user, 30-day retention
<b>Team</b>	\$26/mo	50,000	Unlimited users, 90-day retention
<b>Business</b>	\$80/mo	100,000	SSO, custom retention
<b>Enterprise</b>	Custom	Unlimited	SLA, dedicated support

### Setup Instructions

#### Step 1: Create Account

1. Go to <https://sentry.io/signup/>
2. Sign up with email or GitHub
3. Verify email

#### Step 2: Create Project

1. Click "Create Project"
2. Select platform: **Laravel**
3. Name: revolution-trading-pros
4. Click "Create Project"

#### Step 3: Get DSN

1. Go to Settings → Projects → revolution-trading-pros
2. Click "Client Keys (DSN)"
3. Copy the DSN (format: `https://xxx@xxx.ingest.sentry.io/xxx`)

#### Step 4: Set Environment Variable

```
fly secrets set SENTRY_LARAVEL_DSN="https://xxx@xxx.ingest.sentry.io/xxx"
```

#### Step 5: Configure Alerts (Optional)

1. Go to Alerts → Create Alert

2. Set up alerts for:
  - New errors
  - Error spike (>10 in 1 hour)
  - Performance degradation

## Configuration (Already Done)

File: backend/config/sentry.php

```
return [  
    'dsn' => env('SENTRY_LARAVEL_DSN'),  
    'traces_sample_rate' => 0.1,  
    'profiles_sample_rate' => 0.1,  
];
```

---

## 5. Already Configured Services

These services are already set up and working:

### Cloudflare Pages (Frontend)

- **URL:** <https://revolution-trading-pros.pages.dev>
- **Status:** Deployed and working
- **Cost:** FREE

### Cloudflare R2 (Storage)

- **URL:** <https://pub-a6d59af18a9645e6a7b38dca4d53f2af.r2.dev>
  - **Status:** Created and working
  - **Cost:** FREE (first 10GB)
- 

## 6. Deployment Steps

### Complete Deployment Checklist

- [ ] 1. Sign up for Fly.io
- [ ] 2. Sign up for Postmark
- [ ] 3. Sign up for Stripe
- [ ] 4. Sign up for Sentry
- [ ] 5. Install Fly CLI
- [ ] 6. Run setup script
- [ ] 7. Set all secrets
- [ ] 8. Deploy
- [ ] 9. Verify health endpoint
- [ ] 10. Test email sending
- [ ] 11. Test payment processing
- [ ] 12. Verify error tracking

### Step-by-Step Commands

```
# 1. Install Fly CLI  
curl -L https://fly.io/install.sh | sh  
  
# 2. Login to Fly.io  
fly auth login  
  
# 3. Navigate to backend  
cd backend  
  
# 4. Run setup (creates Postgres, Redis, volumes)  
./scripts/fly-deploy.sh setup  
  
# 5. Set all secrets at once  
fly secrets set \  
    APP_KEY="$(openssl rand -base64 32)" \  

```

```
POSTMARK_TOKEN="your-postmark-token" \
STRIPE_KEY="pk_live_xxx" \
STRIPE_SECRET="sk_live_xxx" \
STRIPE_WEBHOOK_SECRET="whsec_xxx" \
SENTRY_LARAVEL_DSN="https://xxx@xxx.ingest.sentry.io/xxx" \
CLOUDFLARE_R2_ACCESS_KEY_ID="your-r2-key" \
CLOUDFLARE_R2_SECRET_ACCESS_KEY="your-r2-secret" \
CLOUDFLARE_R2_ENDPOINT="https://YOUR_ACCOUNT_ID.r2.cloudflarestorage.com" \
CLOUDFLARE_R2_BUCKET="revolution-trading-media"
```

# 6. Deploy

```
./scripts/fly-deploy.sh deploy
```

# 7. Verify deployment

```
curl https://revolution-trading-pros.fly.dev/health
```

---

## 7. Environment Variables Reference

### Required Variables

Variable	Service	How to Get
APP_KEY	Laravel	<code>openssl rand -base64 32</code>
POSTMARK_TOKEN	Postmark Server	→ API Tokens
STRIPE_KEY	Stripe	Developers → API Keys
STRIPE_SECRET	Stripe	Developers → API Keys
STRIPE_WEBHOOK_SECRET	Stripe	Developers → Webhooks
SENTRY_LARAVEL_DSN	Sentry	Settings → Client Keys

### R2 Storage Variables (Already Have)

Variable	Value
CLOUDFLARE_R2_ACCESS_KEY_ID	From R2 dashboard
CLOUDFLARE_R2_SECRET_ACCESS_KEY	From R2 dashboard
CLOUDFLARE_R2_BUCKET	revolution-trading-media
CLOUDFLARE_R2_URL	<code>https://pub-a6d59af18a9645e6a7b38dca4d53f2af.r2.dev</code>

### Auto-Set by Fly.io

Variable	Description
DATABASE_URL	Postgres connection string
REDIS_URL	Redis connection string

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## Support Links

Service	Documentation	Support
Fly.io	<a href="https://fly.io/docs">https://fly.io/docs</a>	<a href="https://community.fly.io">https://community.fly.io</a>
Postmark	<a href="https://postmarkapp.com/developer">https://postmarkapp.com/developer</a>	<a href="mailto:support@postmarkapp.com">support@postmarkapp.com</a>
Stripe	<a href="https://stripe.com/docs">https://stripe.com/docs</a>	<a href="https://support.stripe.com">https://support.stripe.com</a>
Sentry	<a href="https://docs.sentry.io">https://docs.sentry.io</a>	<a href="https://sentry.io/support">https://sentry.io/support</a>

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