Simple GitHub Actions Deployment Setup

This document explains how to set up the simplified GitHub Actions workflow for automated deployment of the RBarros application.

Overview

The GitHub Actions workflow uses a simple deployment strategy that:

- ✓ Connects to your server via SSH
- Pulls the latest code from your repository
- Passes GitHub secrets as environment variables
- Rebuilds and restarts Docker containers
- Uses basic username/password authentication

Simple and straightforward - no .env files needed, secrets managed in GitHub!

Prerequisites

- 1. Production Server: A Linux server with Docker and Docker Compose installed
- 2. **SSH Access**: Username/password access to your production server
- 3. **GitHub Repository**: Admin access to set up secrets

Required GitHub Secrets

Go to your GitHub repository → Settings → Secrets and variables → Actions → New repository secret

Server Connection Secrets

- SERVER_HOST: Your production server IP address or domain
- SERVER_USERNAME: SSH username (e.g., ubuntu, root, or your user)
- SERVER_PASSWORD: SSH password
- SERVER_PORT: SSH port (optional, defaults to 22)

Database Secrets

- DB_HOST: Database host (database for Docker Compose setup)
- DB_USER: Database username
- DB_PASSWORD: Database password
- DB_NAME: Database name (e.g., rbarrosassurance)
- MYSQL_ROOT_PASSWORD: MySQL root password

Application Secrets

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- SECRET_KEY: JWT secret key for authentication
- SECRET_KEY_REFRESH_TOKEN: JWT refresh token secret
- SENDGRID_API_KEY: SendGrid API key for email services

• WEBHOOK_SECRET: Webhook secret for secure communications

Frontend Configuration

• VUE_APP_API_URL: Frontend API URL (e.g., https://yourdomain.com/api)

Production Server Setup

1. Install Docker & Docker Compose

```
# Ubuntu/Debian
sudo apt update
sudo apt install docker.io docker-compose-plugin

# Start Docker service
sudo systemctl enable docker
sudo systemctl start docker

# Add user to docker group (optional)
sudo usermod -aG docker $USER
newgrp docker
```

2. Clone Your Repository (One Time Only)

```
# Clone your repository to the server
cd ~
git clone --recurse-submodules https://github.com/yourusername/rbarros-
deployment.git
cd rbarros-deployment
```

3. Configure Firewall (Optional)

```
# Allow SSH
sudo ufw allow 22

# Allow HTTP/HTTPS (if using nginx)
sudo ufw allow 80
sudo ufw allow 443

# Enable firewall
sudo ufw enable
```

How It Works

When you push code to the main branch, GitHub Actions will:

- 1. Connect to Server: SSH into your production server
- 2. Pass Secrets: All GitHub secrets are passed as environment variables
- 3. Update Code: Run git pull --recurse-submodules origin main to get latest changes
- 4. **Restart Services**: Stop and rebuild Docker containers with new code and secrets
- 5. **Confirm Success**: Show deployment complete message

No .env file needed - all secrets are passed directly from GitHub!

Manual Operations

Check Status

```
cd ~/rbarros-deployment
docker-compose -f docker-compose.prod.yml ps
```

View Logs

```
docker-compose -f docker-compose.prod.yml logs -f
```

Manual Deploy (with secrets)

```
cd ~/rbarros-deployment
git pull --recurse-submodules origin main

# You'll need to set environment variables manually for manual deploy
export NODE_ENV=production
export DB_HOST=your_db_host
export DB_USER=your_db_user
# ... set all other variables ...

docker-compose -f docker-compose.prod.yml down
docker-compose -f docker-compose.prod.yml up -d --build
```


SSH Connection Issues

- Verify server IP, username, and password in GitHub secrets
- Check if SSH service is running: sudo systemctl status ssh
- Test connection manually: ssh username@server-ip

Git Pull Issues

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Make sure repository is accessible from server

- Check if you need to set up SSH keys for Git access
- · Verify the repository URL is correct
- Ensure submodules are properly initialized

Docker Issues

- Check if Docker is running: sudo systemctl status docker
- · Verify docker-compose.prod.yml file exists and uses environment variables
- Check container logs for errors: docker-compose -f docker-compose.prod.yml logs

Environment Variable Issues

- Ensure all required GitHub secrets are set
- Check that docker-compose.prod.yml references environment variables correctly
- Verify secrets are being passed with the envs: parameter in workflow

What Gets Deployed

The workflow assumes you have:

- A docker-compose.prod.yml file that uses environment variables (not .env file)
- All necessary secrets configured in GitHub repository settings
- Docker containers configured to run your application with passed environment variables

That's it! Simple, straightforward deployment with secrets managed securely in GitHub!