# GitHub Actions Deployment Documentation

## 1. Using Repository Secrets

✅ Use Case:  
- Same server/secrets across all environments  
- Simple to manage  
- Best when you don’t need environment isolation

### Setup

1. In GitHub → Repository → Settings → Secrets and variables → Actions  
2. Create repository secrets like DO\_HOST, DO\_USER, DO\_SSH\_KEY, AWS\_ACCESS\_KEY\_ID, AWS\_SECRET\_ACCESS\_KEY, AWS\_REGION, IMGPROXY\_KEY, IMGPROXY\_SALT

### Workflow Example

```yaml  
name: Deploy Directus  
  
on:  
 push:  
 branches:  
 - main  
 workflow\_dispatch:  
 inputs:  
 environment:  
 description: "Select environment"  
 required: true  
 default: "dev"  
 type: choice  
 options: [dev, uat, prod]  
  
jobs:  
 deploy:  
 runs-on: ubuntu-latest  
 environment: ${{ github.event\_name == 'workflow\_dispatch' && github.event.inputs.environment || 'dev' }}  
  
 steps:  
 - name: Checkout repo  
 uses: actions/checkout@v3  
  
 - name: Deploy to Droplet via SSH  
 uses: appleboy/ssh-action@v1.0.3  
 with:  
 host: ${{ secrets.DO\_HOST }}  
 username: ${{ secrets.DO\_USER }}  
 key: ${{ secrets.DO\_SSH\_KEY }}  
 envs: AWS\_ACCESS\_KEY\_ID, AWS\_SECRET\_ACCESS\_KEY, AWS\_REGION, IMGPROXY\_KEY, IMGPROXY\_SALT  
 script: |  
 cd /home/test\_image-server  
 git reset --hard || git clone https://github.com/${{ github.repository }} .  
 git pull origin main  
 docker compose down  
 docker compose up -d  
 env:  
 AWS\_ACCESS\_KEY\_ID: ${{ secrets.AWS\_ACCESS\_KEY\_ID }}  
 AWS\_SECRET\_ACCESS\_KEY: ${{ secrets.AWS\_SECRET\_ACCESS\_KEY }}  
 AWS\_REGION: ${{ secrets.AWS\_REGION }}  
 IMGPROXY\_KEY: ${{ secrets.IMGPROXY\_KEY }}  
 IMGPROXY\_SALT: ${{ secrets.IMGPROXY\_SALT }}  
```

## 2. Using Environment-Based Secrets

✅ Use Case:  
- Different servers/secrets per environment (dev, uat, prod)  
- GitHub provides approval gates for sensitive envs  
- Recommended for production setups

### Setup

1. In GitHub → Repository → Settings → Environments  
2. Create environments: dev, uat, prod  
3. For each environment, add its own secrets (DO\_HOST, DO\_USER, DO\_SSH\_KEY, AWS\_ACCESS\_KEY\_ID, AWS\_SECRET\_ACCESS\_KEY, AWS\_REGION, IMGPROXY\_KEY, IMGPROXY\_SALT)

### Workflow Example

```yaml  
name: Deploy Directus  
  
on:  
 push:  
 branches:  
 - main  
 workflow\_dispatch:  
 inputs:  
 environment:  
 description: "Select environment"  
 required: true  
 default: "dev"  
 type: choice  
 options: [dev, uat, prod]  
  
jobs:  
 deploy:  
 runs-on: ubuntu-latest  
 environment: ${{ github.event\_name == 'workflow\_dispatch' && github.event.inputs.environment || 'dev' }}  
  
 steps:  
 - name: Checkout repo  
 uses: actions/checkout@v3  
  
 - name: Deploy to Droplet via SSH  
 uses: appleboy/ssh-action@v1.0.3  
 with:  
 host: ${{ secrets.DO\_HOST }}  
 username: ${{ secrets.DO\_USER }}  
 key: ${{ secrets.DO\_SSH\_KEY }}  
 envs: AWS\_ACCESS\_KEY\_ID, AWS\_SECRET\_ACCESS\_KEY, AWS\_REGION, IMGPROXY\_KEY, IMGPROXY\_SALT  
 script: |  
 cd /home/test\_image-server  
 git reset --hard || git clone https://github.com/${{ github.repository }} .  
 git pull origin main  
 docker compose down  
 docker compose up -d  
 env:  
 AWS\_ACCESS\_KEY\_ID: ${{ secrets.AWS\_ACCESS\_KEY\_ID }}  
 AWS\_SECRET\_ACCESS\_KEY: ${{ secrets.AWS\_SECRET\_ACCESS\_KEY }}  
 AWS\_REGION: ${{ secrets.AWS\_REGION }}  
 IMGPROXY\_KEY: ${{ secrets.IMGPROXY\_KEY }}  
 IMGPROXY\_SALT: ${{ secrets.IMGPROXY\_SALT }}  
```

## 3. Key Differences

| Feature | Repository Secrets | Environment Secrets |  
|-----------------------|-------------------|---------------------|  
| Granularity | Same for all jobs | Per environment |  
| Approval workflow | ❌ Not available | ✅ Available |  
| Security isolation | ❌ Shared | ✅ Isolated by env |  
| Best for | Simple projects | Multi-env setups |