Laravel CI/CD Pipeline

Step 1: Generate SSH Key Pair on Your Server

```
ssh-keygen -t rsa -b 4096 -C "github@smtech24.com"
```

public key

```
cat ~/.ssh/id_rsa.pub
```

private key

```
cat ~/.ssh/id_rsa
```

Step 2: Add Deploy Key and Secrets to GitHub

public key set:

Go to

- GitHub repository→Settings → Deploy keys → Add deploy key
- Paste the **public key** and check "Allow write access."

private key set:

GitHub repository → Settings → Secrets and variables → Actions:

- `HOST` : Your server IP
- `USER` : Your server username (e.g., root)
- `SSH_KEY` : Your **private key** content

Test SSH Connection

```
ssh -T git@github.com
```

Step 3: Store the public key in the authorized_keys file on the VPS

First, check that the authorized_keys file is present or not:

```
ls -l ~/.ssh
```

If not present, then create it

```
mkdir -p ~/.ssh
touch ~/.ssh/authorized_keys
chmod 700 ~/.ssh
chmod 600 ~/.ssh/authorized_keys
```

Set the public key there

```
echo "your-ssh-public-key-here" >> ~/.ssh/authorized_keys
```

Step 4: Create .github/workflows/deploy.yml in your project

Create this .yml file and push to GitHub

```
name: Deploy to Server

on:
  push:
    branches: [ main ]

jobs:
  deploy:
    runs-on: ubuntu-latest

    steps:
    - name: Deploy to server
      uses: appleboy/ssh-action@v1.0.0
```

```yaml
with:
  host: ${{ secrets.HOST }}
  username: ${{ secrets.USER }}
  key: ${{ secrets.SSH_PRIVATE_KEY }}
  script: |
    echo "Starting deployment..."
    cd /var/www/orolajide-backend

    # Pull latest code
    git pull origin main

    # Install dependencies
    composer install --no-dev --optimize-autoloader --no-interaction

    # Laravel commands
    php artisan migrate --force
    php artisan config:cache
    php artisan route:cache
    php artisan view:cache

    # Fix permissions
    chown -R www-data:www-data storage bootstrap/cache
    chmod -R 775 storage bootstrap/cache

    echo "Deployment completed successfully!"

  debug: true
```