**Deploy the NestJS Application Using a CI/CD Pipeline**

1. **Create a GitHub Actions Workflow YAML**: Create a file named .github/workflows/ci-cd-pipeline.yml:
2. name: CI/CD Pipeline
3. on:
4. push:
5. branches:
6. - main
7. jobs:
8. lint:
9. runs-on: ubuntu-latest
10. steps:
11. - name: Checkout Code
12. uses: actions/checkout@v2
13. - name: Set up Node.js
14. uses: actions/setup-node@v2
15. with:
16. node-version: '16'
17. - name: Install Dependencies
18. run: npm install
19. - name: Run Linter
20. run: npm run lint
21. build:
22. runs-on: ubuntu-latest
23. needs: lint
24. steps:
25. - name: Checkout Code
26. uses: actions/checkout@v2
27. - name: Set up Node.js
28. uses: actions/setup-node@v2
29. with:
30. node-version: '16'
31. - name: Install Dependencies
32. run: npm install
33. - name: Run Build
34. run: npm run build
35. deploy:
36. runs-on: ubuntu-latest
37. needs: build
38. steps:
39. - name: Checkout Code
40. uses: actions/checkout@v2
41. - name: Deploy to Server
42. env:
43. SERVER\_IP: ${{ secrets.SERVER\_IP }}
44. USERNAME: ${{ secrets.USERNAME }}
45. PRIVATE\_KEY: ${{ secrets.PRIVATE\_KEY }}
46. DEPLOY\_PATH: ${{ secrets.DEPLOY\_PATH }}
47. run: |
48. echo "$PRIVATE\_KEY" > private\_key
49. chmod 600 private\_key
50. scp -i private\_key -r \* $USERNAME@$SERVER\_IP:$DEPLOY\_PATH
51. ssh -i private\_key $USERNAME@$SERVER\_IP "cd $DEPLOY\_PATH && npm install --production && npm run start:prod"

**Secure Environment Variables**

* **Sample** .env **File**:
* DB\_HOST=localhost
* DB\_PORT=5432
* DB\_USERNAME=db\_user
* DB\_PASSWORD