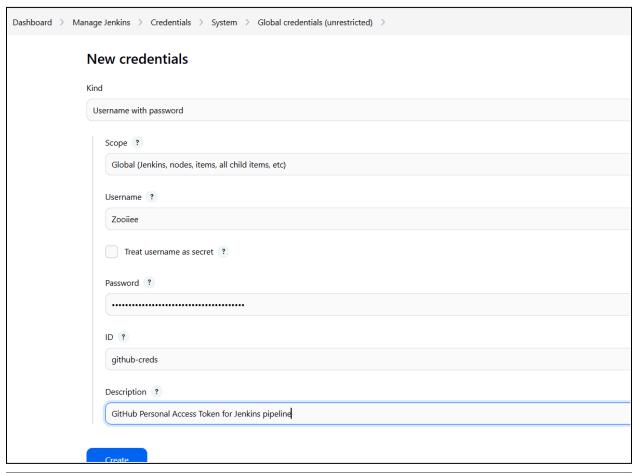
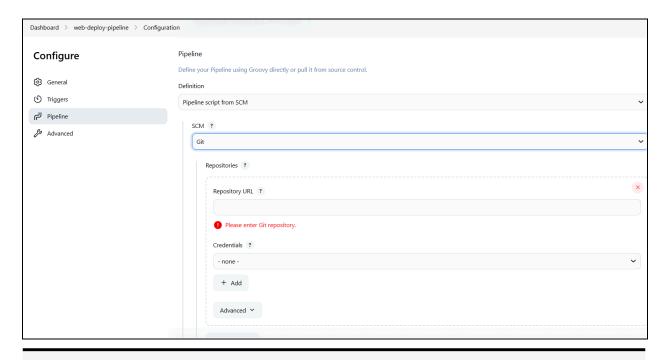
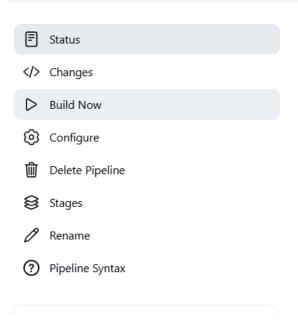
# 8. Demonstrate Continuous Integration and development using Jenkins





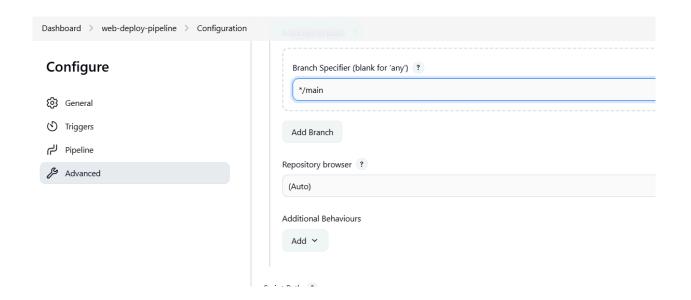


Dashboard > web-deploy-pipeline >



web-deploy-pipeline

**Permalinks** 



# 2. Create Your GitHub Repo

Example structure:

```
pgsql
CopyEdit
simple-web-app/
├─ index.html
├─ Jenkinsfile
```

# Sample index.html:

```
html
CopyEdit
<!DOCTYPE html>
<html>
    <head><title>CI/CD Test</title></head>
    <body><h1>Hello from Jenkins CI/CD!</h1></body>
</html>
```

### Sample Jenkinsfile:

```
pipeline {
    agent any
    stages {
        stage('Clone') {
            steps {
                git url:
'https://github.com/Zooiiee/simple-web-app.git', branch:
'main', credentialsId: 'github-creds'
        }
        stage('Build') {
            steps {
                echo 'Static site - no build step needed.'
            }
        }
        stage('Deploy') {
            steps {
                echo 'Deploying to Jenkins workspace
folder...'
                sh 'mkdir -p deploy'
                sh 'cp index.html deploy/index.html'
            }
        }
    }
}
```

Replace path (C:\inetpub\wwwroot) with your server root (XAMPP or Python folder if needed).

# 🗱 3. Configure Jenkins

### a. Install Required Plugins

Go to: Manage Jenkins → Plugins Install:

- Git Plugin
- GitHub Integration Plugin
- Pipeline Plugin

### b. Add GitHub Credentials

- 1. Generate a GitHub Personal Access Token
- 2. Go to Manage Jenkins → Credentials → Global
- 3. Add:
  - Kind: Username & Password
  - o **Username**: your GitHub username
  - Password: the token
  - **ID**: github-creds (must match the Jenkinsfile)

# 🧪 4. Create a Pipeline Job

### 1. New Item $\rightarrow$ Pipeline

2. Name: web-deploy-pipeline

3. Choose: Pipeline

### 4. Scroll to Pipeline section

o Definition: Pipeline script from SCM

o SCM: Git

o Repo URL:

```
https://github.com/YOUR_USERNAME/simple-web-app.gi
t
```

o Credentials: Select your GitHub creds

Script Path: Jenkinsfile

Click Save.

# 🚀 5. Run the Pipeline

- Click Build Now
- Jenkins will:
  - 1. Clone your GitHub repo
  - 2. Copy the index.html to your local server folder

3. Show "Hello from Jenkins CI/CD!" at http://localhost

4.

# **✓** Here's how to correctly copy the file from your host:

Then from PowerShell on your host (Windows), run:

powershell

docker cp

jenkins-container:/var/jenkins\_home/workspace/web-deploy-pipeline/deploy/index.html .

This will copy the index.html file from inside the Jenkins container to your **current folder on your host**.

# 

powershell CopyEdit python -m http.server 8081

Then visit <a href="http://localhost:8081">http://localhost:8081</a> in your browser to see your deployed page.