












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Experiment 4: CI/CD Scripted Pipeline using Jenkins & XAMPP

 Auto-deploy 3 HTML files from GitHub to your XAMPP server

Objective:

- Clone HTML files from GitHub
- Deploy them to XAMPP's `htdocs` folder
- Automate the process using a scripted Jenkins pipeline

✔ Prerequisites Checklist:

Requirement	Check
✔ Jenkins Installed	Already Done
✔ Git Installed	✔
✔ XAMPP Installed	✔
✔ Apache is running	Open <code>http://localhost/</code> to confirm
✔ Your GitHub Repo contains 3 HTML files	https://github.com/TUMTUM-om/DEVOPS
✔ Know XAMPP path	Usually: <code>C:\xampp\htdocs\</code>

🔧 Step-by-Step Guide

🔧 Step 1: Start Apache Server in XAMPP

- Open XAMPP Control Panel
- Click Start next to Apache
- Visit <http://localhost> in your browser — you should see the XAMPP homepage

✔ Apache is ready to serve your HTML files.

🧱 Step 2: Create a Pipeline Job in Jenkins

1. Open Jenkins → Click New Item
2. Name it: `DeployHTML_Scripted`
3. Select Pipeline
4. Click OK

📝 Step 3: Paste Scripted Pipeline Code

Scroll to Pipeline → Definition: Pipeline script and paste this:

```
groovy

node {
    stage('Clone HTML Files from GitHub') {
```

```
git 'https://github.com/TUMTUM-om/DEVOPS.git'
}

stage('Deploy to XAMPP') {
    bat 'xcopy /Y *.html C:\\xampp\\htdocs\\'
}
}
```

 `xcopy` is a Windows command:

- `/Y` = overwrite existing files without asking
- You may adjust path if your XAMPP is installed elsewhere

 Click Save

Step 4: Build and Test

1. Click Build Now
2. Go to Console Output
 - You should see something like:


```
bash

C:\...>xcopy /Y *.html C:\xampp\htdocs\
```

3. Now open:

```
arduino

http://localhost/file1.html
http://localhost/file2.html
http://localhost/file3.html
```

 Your HTML files are now automatically deployed to your server!

What You Just Did:

- CI: Jenkins pulled latest files from GitHub
- CD: Jenkins deployed them to your live web server (XAMPP)

To Auto-Deploy on Every GitHub Push:

You can now add:

```
groovy
```

```
triggers {  
  pollSCM('*/* * * *') // Optional: checks GitHub every 2 mins  
}
```

(Inside `pipeline {}` if you go for declarative in next experiment.)
