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# Experiment 5: CI/CD Declarative Pipeline using Jenkins & XAMPP

Auto-deploy HTML files to XAMPP using a declarative pipeline

## What's Different from Experiment 4?

- We still:
  - Clone HTML files from GitHub
  - Deploy them to C:\xampp\htdocs\
- W But this time: we use a declarative pipeline (easier to maintain, modern syntax)



Requirement	Description
XAMPP running	Check http://localhost/
Repo with HTML files	https://github.com/TUMTUM-om/DEVOPS
Jenkins installed	V
Git & Jenkins Git plugin	✓

## Step-by-Step Setup



- 2. Click New Item
- **3.** Name it: DeployHTML\_Declarative
- **4.** Choose Pipeline
- 5. Click OK

#### Step 2: Paste Declarative Pipeline Script

Scroll to Pipeline → Definition: Pipeline script Paste this:

```
pipeline {
    agent any

stages {
        stage('Clone from GitHub') {
            steps {
                 git 'https://github.com/TUMTUM-om/DEVOPS.git'
            }
        }
        stage('Deploy to XAMPP') {
            steps {
                 bat 'xcopy /Y *.html C:\\xampp\\htdocs\\'
            }
        }
    }
}
```

Click Save

- Step 3: Build and Deploy
  - 1. Click Build Now
  - 2. View Console Output
    - You should see:

```
nginx

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

3. Visit in browser:

```
arduino

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

☑ It worked — your HTML was deployed using a clean, declarative Jenkins pipeline.

## Optional: Add Auto-Trigger Every 2 Minutes

To make Jenkins check for GitHub updates every 2 minutes, update your script like this:

```
pipeline {
    agent any

triggers {
    pollSCM('*/2 * * * * *')
    }

stages {
    stage('Clone from GitHub') {
        steps {
            git 'https://github.com/TUMTUM-om/DEVOPS.git'
            }
        }
        stage('Deploy to XAMPP') {
        steps {
            bat 'xcopy /Y *.html C:\\xampp\\htdocs\\'
            }
        }
    }
}
```

☑ Now Jenkins checks GitHub every 2 minutes — if any file changes, it redeploys!