

Experiment No. 4 - Jenkins with Git & WSL Integration

Step 1: Install Git

Open browser and go to <https://git-scm.com/downloads>

Download Git for Windows and install it.

Step 2: Enable WSL and Install Ubuntu

Open Command Prompt (cmd) as Administrator.

Run the command:

```
wsl --install
```

Ubuntu will be downloaded and installed.

You'll see: Distribution successfully installed.

Step 3: Check Windows Version

Press Windows + R, type winver, and press Enter.

Confirm Windows 11 is running.

Step 4: Configure Git Path in Jenkins

Open Jenkins in browser: <http://localhost:8080>

Go to: Manage Jenkins ' Tools ' Git

Add Git executable path:

```
C:\Program Files\Git\cmd\git.exe
```

Step 5: Create a GitHub Repository

Go to: <https://github.com>

Click on New Repository

Name it something like exp4_devops

Add a README file and click Create Repository.

Step 6: Configure Jenkins Job

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Go to Jenkins ' Create or open a Job ' Configure

Under Source Code Management, select Git

Enter Repository URL:

`https://github.com/YourUsername/exp4_devops.git`

Under Credentials, click Add and enter:

Username: Your GitHub username

Password: Your GitHub password (or personal access token)

Select the credentials from the dropdown.

Set:

Name: origin

Refspec: +refs/heads/main:refs/remotes/origin/main

(Use 'master' instead of 'main' if your repository uses 'master' as the default branch)

Step 7: Run Build Job

Save configuration.

Click on Build Now

Go to Console Output to check the progress.

If successful, you will see: Finished: SUCCESS

Step 8: Verify Workspace

Go to:

`C:\ProgramData\Jenkins\jenkins\workspace\samplebuildjob`

You'll see .git folder and repository files pulled from GitHub.