

# Step-by-Step Guide: Jenkins Build Pipeline on Windows (with Git)

## Step 1: Prepare Jenkins on Windows

- Jenkins installed and running as a Windows service.
- Git installed and added to the system PATH.
- Jenkins user has proper permissions.
- Make sure Jenkins has internet access for pulling Git repos.

## Step 2: Create Freestyle Jobs with Git Integration

### Job 1:

1. Dashboard -> New Item -> Name: Job1 -> Freestyle project -> OK
2. Under 'Source Code Management' tab:
  - Select 'Git'
  - Repository URL: <https://github.com/your-user/your-repo.git>
  - Branch: \*/main
3. Build step -> Execute Windows batch command:

```
git --version  
  
echo Cloning repo in Job 1...
```
4. Post-build Actions -> Build other projects -> Job2
5. Save.

### Job 2:

1. Dashboard -> New Item -> Job2 -> Freestyle project -> OK
2. Under 'Source Code Management' tab:
  - Select 'Git'
  - Repository URL: <https://github.com/your-user/your-repo.git>

- Branch: \*/main

3. Build step -> Execute Windows batch command:

```
git status
```

```
echo Running Job 2...
```

4. Post-build Actions -> Build other projects -> Job3

5. Save.

Job 3:

1. Dashboard -> New Item -> Job3 -> Freestyle project -> OK

2. Under 'Source Code Management' tab:

- Select 'Git'

- Repository URL: <https://github.com/your-user/your-repo.git>

- Branch: \*/main

3. Build step -> Execute Windows batch command:

```
git log -1
```

```
echo Running Job 3...
```

4. Save.

Step 3: Install Build Pipeline Plugin

1. Manage Jenkins -> Manage Plugins

2. Available tab -> Search: Build Pipeline Plugin

3. Install and restart or install without restart.

Step 4: Create Build Pipeline View

1. Dashboard -> + New View

2. Name: MyPipelineView -> Select 'Build Pipeline View' -> OK

## Step 5: Configure Pipeline View

1. Set Initial Job: Job1
2. Set:
  - Builds to display: 5
  - Refresh frequency: 5
  - Enable manual trigger: checked
3. Apply -> OK

## Step 6: Run the Pipeline

1. Go to MyPipelineView
2. Click 'Run' under Job1
3. Observe Job1 -> Job2 -> Job3
4. All jobs should turn green on success.
5. Git output should show in console logs of each job.

## Final Notes:

- Ensure repo is public or provide credentials for private repos.
- Test each job individually before chaining.