

# **Module : 06**

## **Jenkins Exercise**

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### **Exercise 1: Freestyle Job - Windows File Transfer Automation**

**1. Objective:** Automate file transfer between two directories on a Windows machine.

**2. Steps:**

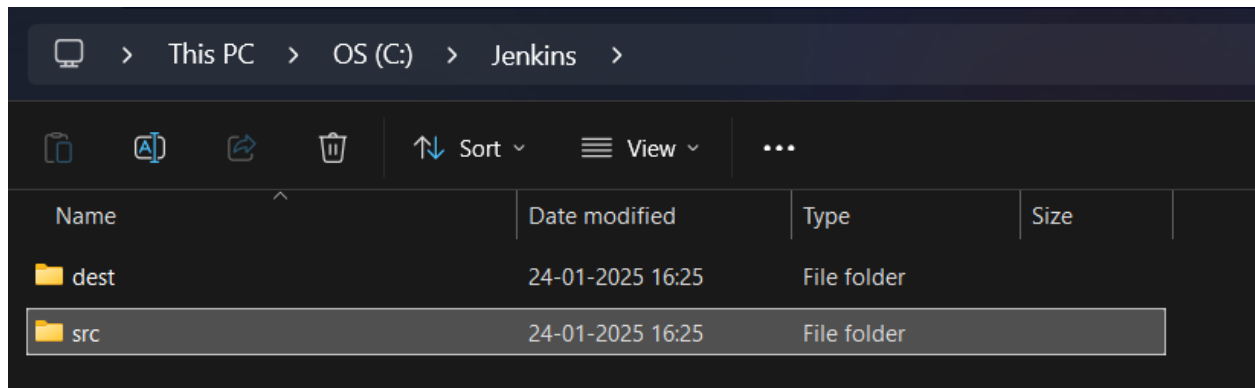
- o Create a Freestyle Job in Jenkins.
- o Configure the job to execute a Windows batch command:  
xcopy C:\source-directory C:\target-directory /E /I /H /Y
- o Add a post-build action to check the success of the transfer using a custom message.

**3. Task:** Test the job by placing some files in the source directory and verifying they are transferred to the target directory.

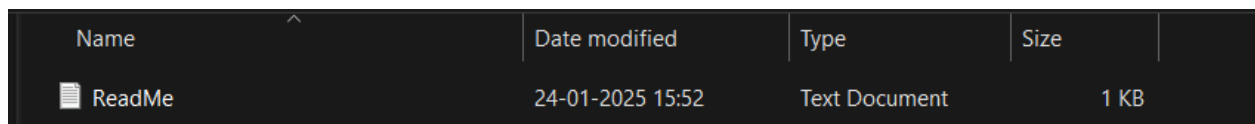
#### **Step 1: Prepare Directories**

1. Create the source and target directories on your Windows machine:
  - o Open File Explorer.

- Navigate to **C:\** or any preferred location.
- Create two folders:
  - **Source Directory:** **C:\Jenkins\src**
  - **Target Directory:** **C:\Jenkins\dest**



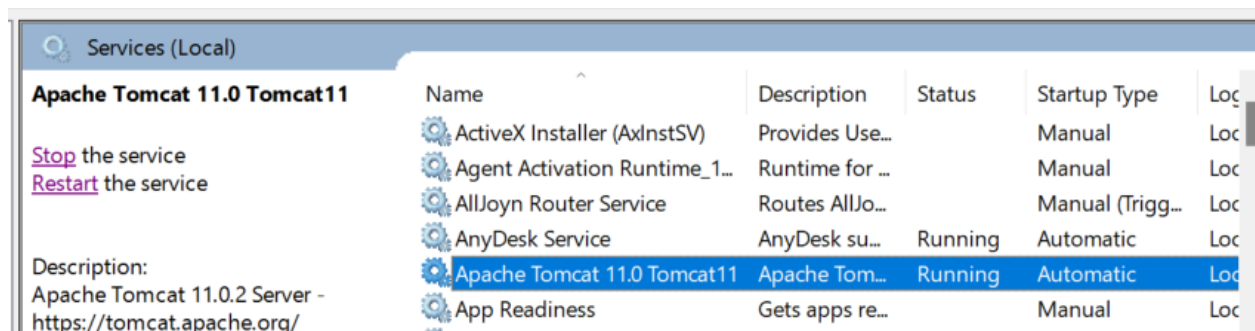
2. Add some test files to the **C:\Jenkins\src** for verification later.



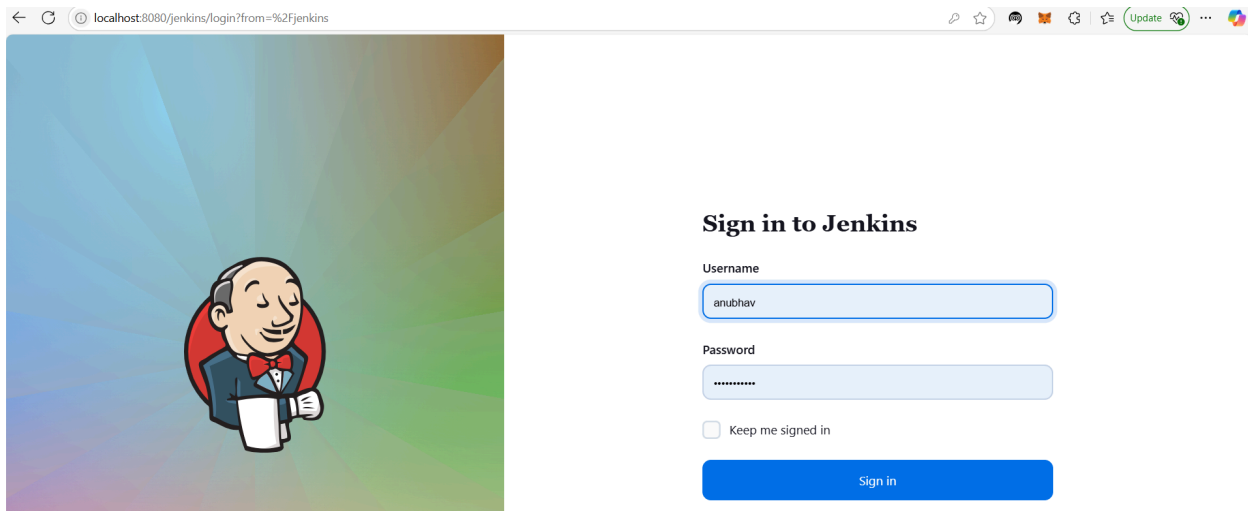
## Step 2: Create a Freestyle Job in Jenkins

### 1. Open Jenkins:

- Start the Apache Tomcat Server from Services on your Windows

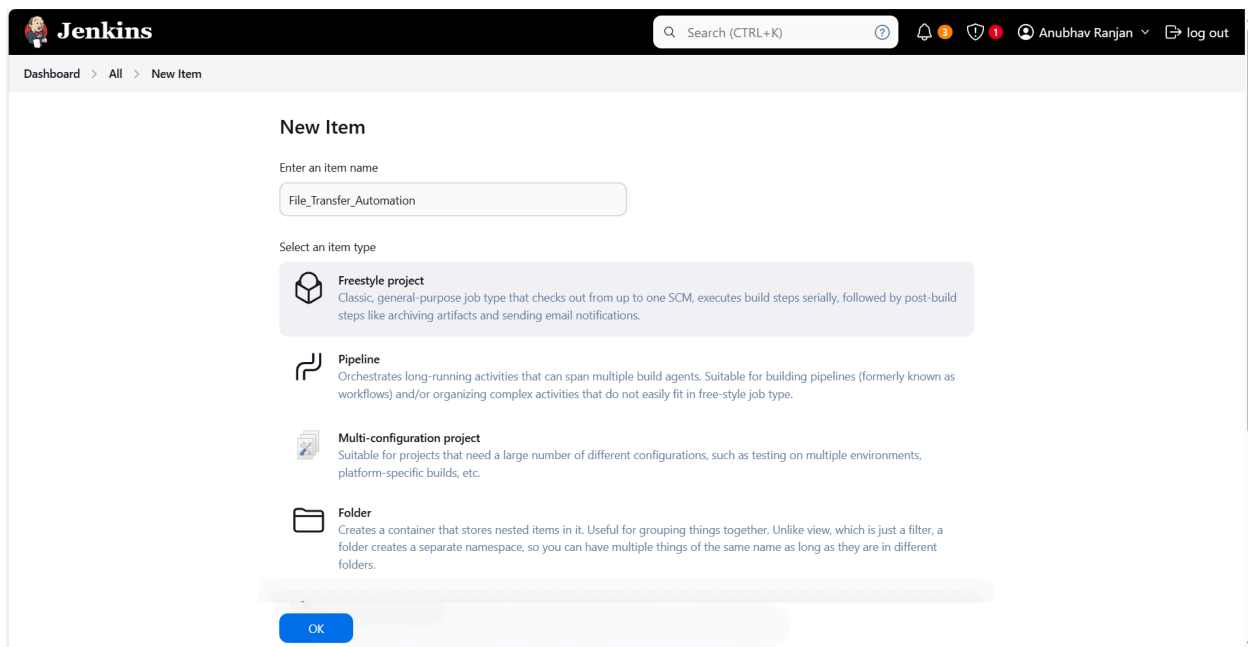


- Launch Jenkins in your browser (usually <http://localhost:8080/jenkins>).
- Log in with your credentials.



## 2. Create a New Freestyle Job:

- Click on “**New Item**” from the Jenkins dashboard.
- Enter a name for the job, i.e. [File\\_Transfer\\_Automation](#).
- Select “**Freestyle project**” and click **OK**.



### 3. Add a Description :

- On the job configuration page, add a brief description such as:  
This job automates file transfer between two directories using Windows batch commands.

Description

This job automates file transfer between two directories using Windows batch commands.

### Step 3: Configure the Build Command

#### 1. Scroll to the “Build” Section:

- Click “Add Build Step” → Select “Execute Windows batch command”.

Build Steps

Add build step ^

Filter

Execute Windows batch command

- #### 2. Enter the File Transfer Command:
- Copy and paste the following command into the text box:

```
xcopy C:\Jenkins\src C:\Jenkins\dest /E /I /H /Y
```

3. **Set a Custom Success Message (Optional):** Add a script at the end of the batch command for a success message

```
echo File transfer completed successfully!
```

#### ≡ Execute Windows batch command ?

Command

See [the list of available environment variables](#)

```
xcopy C:\Jenkins\src C:\Jenkins\dest /E /I /H /Y  
echo File transfer completed successfully!
```

4. **Save Your Job:**

- Scroll to the bottom and click “Save”.

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## Step 5: Run and Test the Job

1. **Run the Job:**

- Go to the job's dashboard.
- Click “Build Now” to execute the file transfer task.

2. **Verify the Output:**

- Check the Console Output in Jenkins for the success message:  

```
File transfer completed successfully!
```

## ✓ Console Output

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```
Started by user Anubhav Ranjan
Running as SYSTEM
Building in workspace D:\jenkins_New_Home\workspace\File_Transfer_Automation
[File_Transfer_Automation] $ cmd /c call "C:\Program Files\Apache Software Foundation\Tomcat 11.0\temp\jenkins7695419329763902533.bat"

D:\jenkins_New_Home\workspace\File_Transfer_Automation>xcopy C:\Jenkins\src C:\Jenkins\dest /E /I /H /Y
C:\Jenkins\src\ReadMe.txt
1 File(s) copied

D:\jenkins_New_Home\workspace\File_Transfer_Automation>echo File transfer completed successfully!
File transfer completed successfully!

D:\jenkins_New_Home\workspace\File_Transfer_Automation>exit 0
Finished: SUCCESS
```

- Open **C:\Jenkins\dest** to ensure all files from **C:\Jenkins\src** are copied.

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