

Playwright Integration with Jenkins

How to Run a Local Playwright Project in Jenkins:

Step 1: Login to Jenkins

Open your Jenkins instance in a browser and log in using your credentials.

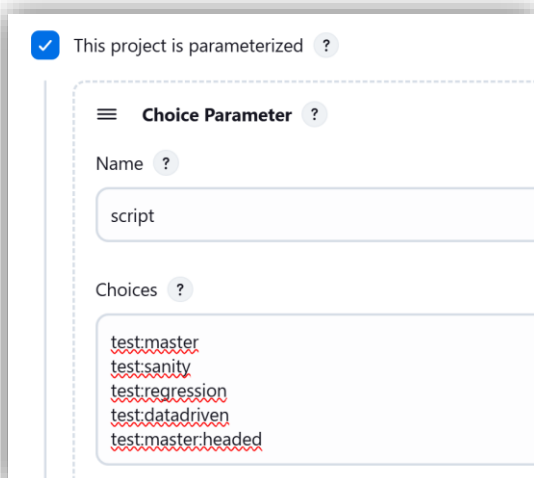
Step 2: Create a New Jenkins Job

- Click on **"New Item"**.
- Enter a name for your job.
- Select **"Freestyle project"**.
- Click **OK** to proceed.

Step 3: Configure the Job

Enable Parameters

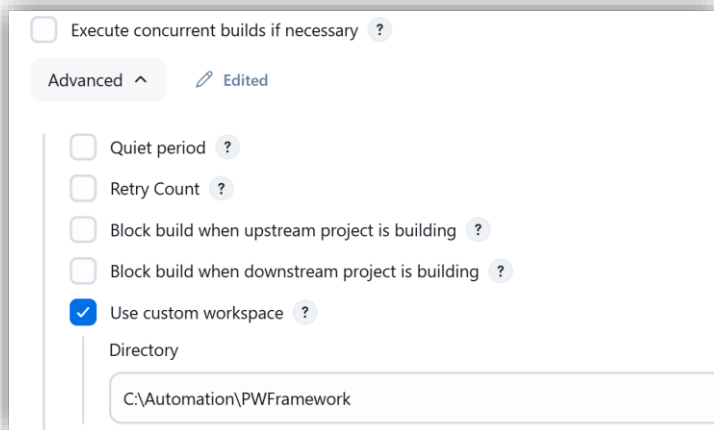
- Check the box **"This project is parameterized"**.
- Click **Add Parameter** → **Choice Parameter**.
 - **Name:** script
 - **Choices:**
 - test:master
 - test:sanity
 - test:regression
 - test:master:headed



The screenshot shows the Jenkins job configuration interface. At the top, the checkbox 'This project is parameterized' is checked. Below it, a 'Choice Parameter' is configured with the name 'script'. The choices listed are: test:master, test:sanity, test:regression, test:datadriven, and test:master:headed.

Set Custom Workspace

- Check **“Use custom workspace”**.
- Enter the full path to your local Playwright project directory.

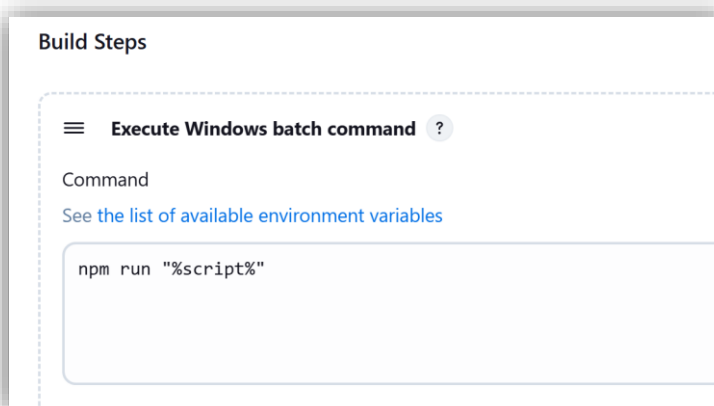


Add Build Step

- Click on **“Add build step”** → **“Execute Windows batch command”** (if on Windows).
 - **Command:**
 - `npm run "%script%"`

Note: If you're on **Mac/Linux**, select **“Execute shell”** and use:

`npm run "$script"`



Step 4: Post-build Actions (Allure Reports)

- Scroll to **“Post-build Actions”**.
- Select **“Allure Report”**.
- In **“Results path”**, enter:
 - allure-results

Post-build Actions

≡ Allure Report

☐ Disabled

Results:

Paths to Allure results directories relative from workspace.
E.g. **target/allure-results**.

Path

allure-results

Step 5: Save the Configuration

- Click **Apply** and then **Save** the job.

How to Run Github Playwright project in Jenkins

Step 1: Login to Jenkins

Open your Jenkins instance in a browser and log in using your credentials.

Step 2: Create a New Jenkins Job

- Click on **"New Item"**.
- Enter a name for your job.
- Select **"Freestyle project"**.
- Click **OK** to proceed.

Step 3: Configure the Job

Enable Parameters

- Check the box **"This project is parameterized"**.
- Click **Add Parameter** → **Choice Parameter**.
 - **Name:** script
 - **Choices:**
 - test:master
 - test:sanity
 - test:regression
 - test:master:headed

☒ This project is parameterized ?

Choice Parameter ?

Name ?

script

Choices ?

test:master
test:sanity
test:regression
test:datadriven
test:master:headed

Set GitHub Repository URL

- Go to 'Source Code Management' section.
- Check "Git".
- Provide GitHub repository URL.

Source Code Management

☐ None

☒ Git ?

Repositories ?

Repository URL ?

https://github.com/pavanoltraining/pwrepo.git

Add Build Steps

- Click on "Add build step" → "Execute Windows batch command" (if on Windows).
 - **Command:**
 - setup_env.bat
- **Note:** We need to create **seup_env.bat** file inside the project prior to run the tests. This file contains commands to setup environment to run playwright tests.
 - npm install
 - npm install -D allure-playwright
 - npm install -g allure-commandline --force

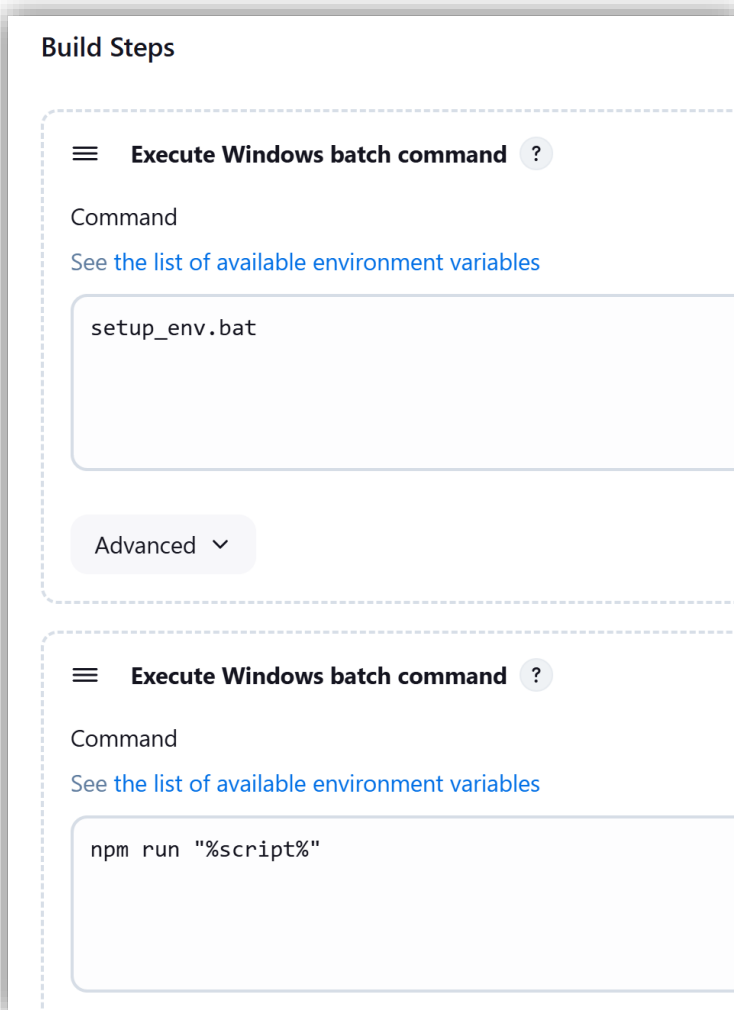
- npx playwright install

If you are using Mac then setup_env.sh file Should be created with the same commands.

- One more time Click on **“Add build step”** → **“Execute Windows batch command”** (if on Windows).
 - **Command:**
 - npm run "%script%"

Note: If you're on **Mac/Linux**, select **“Execute shell”** and use:

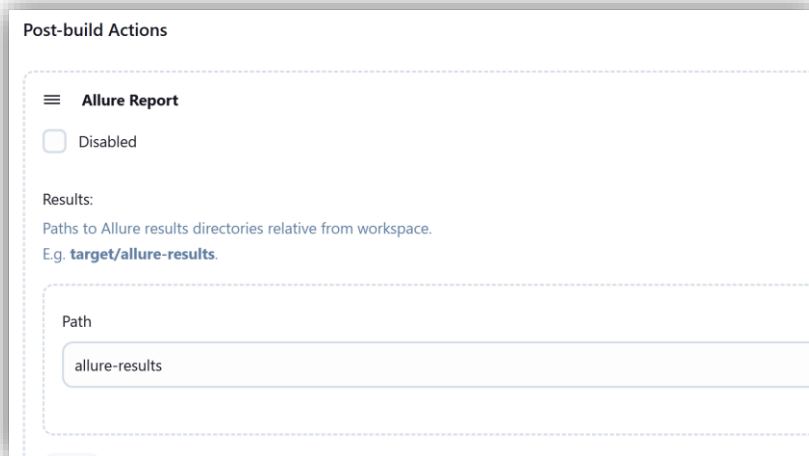
npm run "\$script"



Step 4: Post-build Actions (Allure Reports)

- Scroll to **“Post-build Actions”**.
- Select **“Allure Report”**.
- In **“Results path”**, enter:

- allure-results



The screenshot shows the 'Post-build Actions' section in Jenkins. Under the 'Allure Report' action, there is a 'Disabled' checkbox. Below it, the 'Results' section explains that paths are relative to the workspace and gives an example: 'target/allure-results'. At the bottom, there is a 'Path' input field containing the text 'allure-results'.

Step 5: Save the Configuration

- Click **Apply** and then **Save** the job.

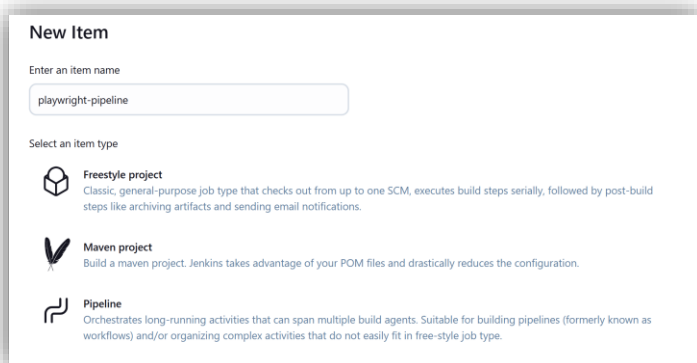
Run Github Playwright project in Jenkins with Pipeline

Step 1: Login to Jenkins

Open your Jenkins instance in a browser and log in using your credentials.

Step 2: Create a New Jenkins Job

- Click on **“New Item”**.
- Enter a name for your job.
- Select **“Pipeline project”**. (If you could not see this , then you need to install Pipeline plugin from manage Jenkins→plugins).
- Click **OK** to proceed.



The screenshot shows the 'New Item' dialog in Jenkins. The 'Enter an item name' field contains 'playwright-pipeline'. Under 'Select an item type', three options are listed: 'Freestyle project' (described as a classic general-purpose job type), 'Maven project' (described as building a maven project), and 'Pipeline' (described as orchestrating long-running activities and building pipelines). The 'Pipeline' option is selected.

Step 3: Configure the Job

Enable Parameters

- Check the box “This project is parameterized”.
- Click **Add Parameter** → **Choice Parameter**.
 - **Name:** script
 - **Choices:**
 - test:master
 - test:sanity
 - test:regression
 - test:master:headed

The screenshot shows a configuration interface for a project. At the top, there is a checked checkbox labeled "This project is parameterized" with a help icon. Below it, a section titled "Choice Parameter" is expanded. It contains a "Name" field with the value "script" and a "Choices" field with a list of options: "test:master", "test:sanity", "test:regression", "test:data-driven", and "test:master:headed". Each choice is underlined with a red dashed line.

Goto Pipeline section and add Pipeline script.

The screenshot shows the "Pipeline" configuration section. It has a title "Pipeline" and a description "Define your Pipeline using Groovy directly or pull it from source control." Below this is a "Definition" section with a dropdown menu set to "Pipeline script". Underneath is a "Script" field with a help icon, containing a Groovy script for a pipeline. The script defines a pipeline with two stages: "Checkout" and "Install Dependencies".

```
1 pipeline {  
2   agent any  
3  
4   stages {  
5     stage('Checkout') {  
6       steps {  
7         git 'https://github.com/pavanoltraining/pwrepo.git'  
8       }  
9     }  
10  
11    stage('Install Dependencies') {  
12      steps {  
13        bat 'npm install'  
14        bat 'npm install -D allure-playwright'  
15        bat 'npm install -g allure-commandline --force'  
16      }  
17    }  
18  }  
19 }
```

Pipeline Script:

```
pipeline {
  agent any

  stages {
    stage('Checkout') {
      steps {
        git 'https://github.com/pavanoltraining/pwrepo.git'
      }
    }

    stage('Install Dependencies') {
      steps {
        bat 'npm install'
        bat 'npm install -D allure-playwright'
        bat 'npm install -g allure-commandline --force'
      }
    }

    stage('Run Tests') {
      steps {
        bat 'npx playwright install'
        //bat 'npx playwright test --grep=@master'
        bat 'npm run "%script%"'
      }
    }

    stage('Generate Allure Report') {
      steps {
        bat 'allure generate ./allure-results --clean -o ./allure-report'
      }
    }
  }

  post {
    always {
      // Archive test results (if any)
      archiveArtifacts artifacts: 'test-results/**/*', allowEmptyArchive:
true

      // Publish Allure results (if plugin is installed)
      allure includeProperties: false,
        jdk: '',
        results: [[path: 'allure-results']]
    }
  }
}
```

Step 4: Save the Configuration

- Click **Apply** and then **Save** the job.