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How we can Integrating Playwright with Jenkins

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[Integrating Playwright with Jenkins](#) streamlines automated end-to-end testing in your CI pipeline. Here's a concise guide:

1. Prerequisites

- **Jenkins:** Ensure it's installed and running.
- **Java:** Required for Jenkins.
- **Node.js:** Necessary for Playwright.

2. Jenkins Configuration

- **Install Plugins:** Add the **Pipeline** and **NodeJS** plugins via **Manage Jenkins > Manage Plugins**.
- **Configure Node.js:** In **Global Tool Configuration**, add Node.js with the desired version.

3. Prepare Your Playwright Project

- **Initialize Project:** Run `npm init -y` and `npm install playwright`.
- **Verify Setup:** Create a sample test file and execute it to ensure functionality.

4. Configure Jenkins Pipeline

- **Create Pipeline Job:** Set up a new Pipeline job in Jenkins.
- **Define Pipeline Steps:** Outline stages to install dependencies, run Playwright tests, and publish reports.

5. Automate Builds

- **Scheduled Builds:** In **Build Triggers**, select **Build periodically** and set a cron schedule.
- **Triggered Builds on Code Push:** Configure webhooks in your version control system to trigger Jenkins builds on code commits.

6. View Test Results

- **Generate HTML Reports:** Ensure Playwright is set to generate HTML reports in the `playwright-report` directory.
- **Access Reports in Jenkins:** After a build, view the **Playwright Test Report** in the Jenkins build details.

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