TestNG Tests with Jenkins

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Agenda

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Why Jenkins?

- **Automation:** Jenkins is an open-source automation server that can be used to automate all sorts of tasks related to building, testing, and delivering or deploying software.

- **Integration:** Jenkins can be used to integrate various DevOps stages, including building, testing, and delivering software.

- **Extensible:** Jenkins can be extended via plugins to support building, deploying, and automating any project.

Jenkins Installation

Official Website: Jenkins

- Install Jenkins on Windows: https://www.jenkins.io/doc/book/installing/windows/
- Install Jenkins on macOS: https://www.jenkins.io/doc/book/installing/macos/
- http://127.0.0.1:8080/ (Default Jenkins URL)

Maven Plugin Installation in Jenkins

- Go to Jenkins Dashboard
- Click on Manage Jenkins
- Click on Plugins
- Click on Available plugins
- Search for Maven Integration plugin and install it
- Search for TestNG plugin and install it
- Search for GitHub integration plugin and install it

Configure Maven in Jenkins

- Go to Jenkins Dashboard

- Click on Manage Jenkins

- Click on Tools

- Go to Maven installations section

- Click on Add Maven

- Provide the name "M2_HOME" and select the Maven version

- Click on Save

Create a New Jenkins Job

- Go to Jenkins Dashboard
- Click on New Item
- Provide the item name
- Select the Maven project
- Click on OK
- Go to the Source Code Management section
- Select Git
- Provide the repository URL
- Provide the Branch Specifier
- Go to the Build section
- Provide the POM.xml path
- Provide the Goals and options (clean test)
- Click on Save

Maven Plugin Installation in POM.xml

```xml
<plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-surefire-plugin</artifactId>
    <configuration>
        <suiteXmlFiles>
            <suiteXmlFile>
                testng.xml
            </suiteXmlFile>
        </suiteXmlFiles>
    </configuration>
</plugin>
```

Thank you ❤️

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