

1. The very first thing we need to do is set up the maven integration plugins and activate them.

The screenshot shows the Jenkins 'Manage Jenkins' interface. On the left sidebar, 'Manage Jenkins' is selected. The main content area has a header 'Manage Jenkins' with a notification for Jenkins 2.361.3. Below this, there are two sections: 'System Configuration' and 'Security'. In 'System Configuration', 'Manage Plugins' is highlighted with a red notification icon. In the 'Security' section, 'Manage Credentials' is highlighted. The left sidebar also shows 'Build Queue' (No builds in the queue) and 'Build Executor Status' (2 idle).

2. We would need to verify that it is up and running.

The screenshot shows the Jenkins 'Plugin Manager' page. The 'Installed' tab is selected. A search bar contains 'maven integration'. Below the search bar, the 'Maven Integration plugin 3.20' is listed with a description: 'This plugin provides a deep integration between Jenkins and Maven. It adds support for automatic triggers between projects depending on SNAPSHOTS as well as the automated configuration of various Jenkins publishers such as Junit.' The 'Enabled' toggle switch is turned on.

3. We are going to select the “+” icon in order to add a new maven project, and select a name for the project.

The screenshot shows the Jenkins 'Enter an item name' dialog. The 'Maven project' option is selected. The 'Execute_Calculator' name is entered in the text field. The dialog lists several project types: Freestyle project, Maven project, Pipeline, Multi-configuration project, Folder, Multibranch Pipeline, and Organization Folder. The 'OK' button is visible at the bottom.

4. We are going to set up the steps we need to achieve.

↑ Back to Dashboard

📄 Status

</> Changes

📁 Workspace

▶ Build Now

⚙️ Configure

🗑️ Delete Maven project

📄 Modules

✎ Rename

Maven project Execute Calculator

1. Crear un job que haga lo siguiente (maven):

- 1.1. Descargue el proyecto de la rama master
- 1.2. Compile el proyecto
- 1.3. Genere el archivo .jar del proyecto

[Edit description](#)

[Disable Project](#)

Test Result Trend

● Passed ● Skipped ● Failed

2

1

#1

Latest Test Result (no failures)

Permalinks

- [Last build \(#1\), 41 min ago](#)
- [Last stable build \(#1\), 41 min ago](#)
- [Last successful build \(#1\), 41 min ago](#)
- [Last completed build \(#1\), 41 min ago](#)

Build History [trend](#) ▼

5. We are going to type the commands in order to save the job by clicking in apply then save.

Configuration

- ⚙️ General
- 🔗 Source Code Management
- 🕒 Build Triggers
- 🌐 Build Environment
- 📋 Build Steps
- 🔧 Post-build Actions

Build Steps

Execute Windows batch command ?

Command

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

```
cd C:\ProgramData\jenkins\workspace\MyJarCalculator\src
java -jar MyJarCalculator.jar
```

[Advanced...](#)

[Add build step](#) ▼

Post-build Actions

[Add post-build action](#) ▼

[Save](#)

[Apply](#)

6. After that we are going to click on the number next to the green tick and it is going to take you to the (console output).

✎ [Rename](#)

Build History [trend](#) ▼

🔍 Filter builds...

✓ #1 Nov 4, 2022, 11:15 PM

📡 [Atom feed for all](#) 📡 [Atom feed for failures](#)

◀ ↑ ▶

7. On this part we are going to verify if the test went through, and we are going to verify that the Test went through correctly.

```
-----  
T E S T S  
-----  
  
Running com.github.jitpack.AppTest  
Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.07 sec  
  
Results :  
  
Tests run: 2, Failures: 0, Errors: 0, Skipped: 0  
  
[JENKINS] Recording test results  
[INFO]  
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ maven-simple ---  
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-archiver/2.5/maven-archiver-2.5.pom  
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-archiver/2.5/maven-archiver-2.5.pom (4.5 kB at 27 kB/s)
```

```
[INFO] -----  
[INFO] BUILD SUCCESS  
[INFO] -----  
[INFO] Total time: 01:34 min  
[INFO] Finished at: 2022-11-04T23:32:07-05:00  
[INFO] -----  
Waiting for Jenkins to finish collecting data  
[JENKINS] Archiving C:\ProgramData\Jenkins\.jenkins\workspace\Execute Calculator\pom.xml to  
com.github.jitpack/maven-simple/0.2-SNAPSHOT/maven-simple-0.2-SNAPSHOT.pom  
[JENKINS] Archiving C:\ProgramData\Jenkins\.jenkins\workspace\Execute Calculator\target\maven-simple-0.2-  
SNAPSHOT.jar to com.github.jitpack/maven-simple/0.2-SNAPSHOT/maven-simple-0.2-SNAPSHOT.jar  
[JENKINS] Archiving C:\ProgramData\Jenkins\.jenkins\workspace\Execute Calculator\target\maven-simple-0.2-  
SNAPSHOT-sources.jar to com.github.jitpack/maven-simple/0.2-SNAPSHOT/maven-simple-0.2-SNAPSHOT-sources.jar  
[JENKINS] Archiving C:\ProgramData\Jenkins\.jenkins\workspace\Execute Calculator\target\maven-simple-0.2-  
SNAPSHOT-javadoc.jar to com.github.jitpack/maven-simple/0.2-SNAPSHOT/maven-simple-0.2-SNAPSHOT-javadoc.jar  
channel stopped  
Finished: SUCCESS
```

8. The last step is going back to the dashboard and verifying that it has the green check mark.

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

All

+

S	W	Name	Last Success	Last Failure	Last Duration
		Execute Calculator	35 min #1	N/A	1 min 51 sec
		Execute-Calculator	50 min #1	N/A	1.2 sec
		MyJarCalculator	58 min #5	N/A	5.4 sec