

# Maven Release Plugin

It is used to create release of software. It goes through series of industry steps and make sure that we do not have snapshot dependencies and all.

It packages repetitive tasks for us.

If we release a jar in production then auditors gonna see what we put into that.

We then go to source control management (scm) and pull what we actually what release we put into that artefact.

We will tag the source code of what version we are putting.

Maven pre-release goal of release plugin check for :

No snapshots present other than our own artifacts.

Update out pom to that release version

Generate tag of scm of that version.

Increment the version and add snapshot.

Commit the changes to local source control.

Source Tree is a tool of Atlassian. In git we have to remove tag manually for release rollback. Source tree is handy tool for git. It is a gui tool.

Release:prepare create temporary files such as release.properties file and backups of pom which is removed by release clean plugin.

Update pom versions can be used if versions are not updated automatically in multi-module project.

Mvn release:update-versions -DautoVersionSubmodules=true

This parameter helps in keeping the submodule at same version as its parent.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
```

```
  <groupId>org.pratik</groupId>
  <artifactId>mvn-release-plugin</artifactId>
  <version>1.0</version>
  <packaging>jar</packaging>
```

```
  <name>mvn-release-plugin</name>
  <url>https://maven.apache.org</url>
```

```
  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <junit.version>5.10.2</junit.version>
  </properties>
```

```
<dependencies>
  <dependency>
    <groupId>org.junit.jupiter</groupId>
    <artifactId>junit-jupiter-api</artifactId>
    <version>${junit.version}</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>org.junit.jupiter</groupId>
    <artifactId>junit-jupiter-engine</artifactId>
    <version>${junit.version}</version>
    <scope>test</scope>
  </dependency>
</dependencies>
<scm>
  <developerConnection>scm:git:https://github.com/pkumargrid/release-
plugin.git</developerConnection>
  <url>https://github.com/pkumargrid/release-plugin.git</url>
  <tag>mvn-release-plugin-1.0</tag>
</scm>
<build>
  <extensions>
    <extension>
      <groupId>io.packagecloud.maven.wagon</groupId>
      <artifactId>maven-packagecloud-wagon</artifactId>
      <version>0.0.6</version>
    </extension>
  </extensions>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>3.1.2</version>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-release-plugin</artifactId>
      <version>3.0.1</version>
    </plugin>
  </plugins>
</build>

<distributionManagement>
  <repository>
    <id>packagecloud.release</id>
    <url>packagecloud+https://packagecloud.io/orgpratik/releaseplugin</url>
```

```
</repository>
<snapshotRepository>
  <id>packagecloud.snapshot</id>
  <url>packagecloud+https://packagecloud.io/orgpratik/snapshotplugin</url>
</snapshotRepository>
</distributionManagement>
</project>
```