

Maven Ant Plugin v.1.10

Project Documentation

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1.1 About

Maven Ant Plug-in

This plugin generates a vanilla ant build.xml file that so that user's that haven't installed Maven can still build. Though it is always highly recommended that you install Maven :-)

For more information on the functionality provided by this plugin, please see the [Goals](#) document.

For more information on how to customise the functionality provided by this plugin, please see the [properties](#) document.

For more information on the ant script generated, please see the [ant script settings](#) document.

1.2 Plugin goals

Goals

Goal	Available	Description
ant	since 1.0	This is the default goal of the plugin and simply attains the <code>ant:generate-build</code> goal.
ant:generate-build	since 1.0	<p>Generates an <code>ant</code> build file in the current directory which has targets to</p> <ul style="list-style-type: none"> • Compile the java source code • Create a jar from the compiled java code • Create a distribution • Run unit tests • Generate JavaDoc • Download all required jar files • Download and install Maven <p>The generated file is located at <code>\${maven.ant.generate.dir}/\${maven.ant.generate.sc}</code> If the file already exists the plugin ask to the user if he wants to overwrite it (except if the property <code>maven.ant.generate.force</code> is setted to true).</p>
ant:execute	since 1.10	<p>Execute the <code>ant</code> build file located at <code>\${maven.ant.execute.dir}/\${maven.ant.execute.script}</code>. Be careful, in this case ant uses the classpath given by maven, thus you can have a different behaviour if you use this task instead of the real ant application.</p>

1.3 Plugin properties

Maven Ant Plugin Settings

These settings allow you to customize the ant script generated with this plugin.

Property name	Description	Available	Optional?	Default value
maven.ant.generate.script	The filename to use. Defaults to "build.xml". This file is expected to be a filename relative to the "maven.ant.generate.dir" property given.	since 1.10	Yes	"build.xml"
maven.ant.generate.dir	The directory where to generate the Ant script. Defaults to the current project's basedir.	since 1.10	Yes	\${basedir}
maven.ant.generate.force	If the ant script file already exists the plugin ask you if you want to replace it. Setting this property to true, will force the plugin to overwrite this file without to ask the question.	since 1.10	Yes	false
maven.ant.excludeTests	Holds a comma separated list of source file patterns that will be excluded in the generated Ant build, e.g. <pre>maven.ant.excludeTests=**/*Test.java,**/*Suite.java</pre>	since 1.2	Yes	<empty>
maven.ant.compatibility	Sets the compatibility for the generated script. Valid values are 1.5 or 1.6. With Ant >= 1.6 the user can define a user/password for proxy settings.	since 1.2	Yes	1.6
maven.ant.use.properties	The maven plugin for ant adds two lines at the top of the generated buildfile : <pre><property file="build.properties" /> <property file="\${user.home}/build.properties" /></pre> If you experience that your own properties are clashing with the ones used in the generated buildfile you can set this property to "false" to remove these 2 lines from the generated buildfile. Valid values are "true" or "false".	since 1.9	Yes	true

Property name	Description	Available	Optional?	Default value
maven.ant.use.multirepo	Defines if you want to generate a script which will download dependencies from all your repositories. If false, the script will only download them from the first one (ibiblio by default).	since 1.10	Yes	true
maven.ant.execute.script	The buildfile to use. Defaults to <code>\${maven.ant.generate.script}</code> . This file is expected to be a filename relative to the "maven.ant.execute.dir" property given.	since 1.10	Yes	<code>\${maven.ant.generate.script}</code>
maven.ant.execute.dir	The directory to use as a basedir for the Ant project. Defaults to <code>\${maven.ant.generate.dir}</code> . This will override the basedir setting of the called project.	since 1.10	Yes	<code>\${maven.ant.generate.dir}</code>
maven.ant.execute.target	The target of the Ant project that should be executed. Defaults to the project's default target.	since 1.10	Yes	<code><empty></code>
maven.ant.generatebuild.file	!! REMOVED !! Sets the name of the ant buildfile to create. Use "maven.ant.generate.script" and "maven.ant.generate.dir" instead.	since 1.0, removed in 1.10.	Yes	<code>\${basedir}/build.xml</code>

Backward compatibility

In the version 1.10 of the ant plugin we removed the usage of the property "maven.ant.generatebuild.file" to replace it by the properties "maven.ant.generate.dir" and "maven.ant.generate.script".

If you used this property (for example you had :

`maven.ant.generatebuild.file=myDir/myBuild.xml`) and you want to have a build which work with all the versions of this plugin you can set your properties like this :

```
maven.ant.generatebuild.file=${maven.ant.generate.dir}/${maven.ant.generate.script}
maven.ant.generate.dir=myDir
maven.ant.generate.script=myBuild.xml
```


1.4 Ant script settings

Information about the generated Ant build file

Properties

When you generate the build file with maven, if the property "`maven.ant.use.properties`" is setted to true (default behaviour), the build file will load successively the properties stored in files "`build.properties`" located in :

1. the project's root directory,
2. the user's home directory.

If this property is setted to false the generated build file doesn't load this properties, so it will help you to avoid conflicts.

The following properties are defined in the build files and thus can be overridden in the files described previously :

Property name	Description	Default value
<code>defaulttargetdir</code>	The directory where the generated files are stored	<code>\${basedir}/target</code>
<code>libdir</code>	The directory where are downloaded dependencies (default maven local repository). If you prefer you can use something like <code>\${basedir}/target/lib</code> .	<code>\${user.home}/.maven/repository</code>
<code>classesdir</code>	The directory where compiled classes are stored	<code>\${basedir}/target/classes</code>
<code>testclassesdir</code>	The directory where compiled classes for unit tests are stored (only if there are unit tests classes in your project)	<code>\${basedir}/target/test-classes</code>
<code>testreportdir</code>	The directory where tests reports are stored (only if there are unit tests classes in your project)	<code>\${basedir}/target/test-reports</code>
<code>distdir</code>	The directory where the distribution is created	<code>\${basedir}/dist</code>
<code>javadocdir</code>	The directory where is stored the javadoc	<code>\${basedir}/dist/docs/api</code>
<code>final.name</code>	The name used for the generated jar	<code>\${maven.final.name}</code>
<code>\${dep.artifactId}.jar</code>	A property is created for each project's dependency (for example : <code>activation.jar</code>). This property can be used to override the default url used to download the dependency (for example : <code>activation.jar=http://myhost/repository/sun/jars/activation-1.0.2.jar</code>).	
<code>proxy.host</code>	The proxy host used to download dependencies.	
<code>proxy.port</code>	The proxy port.	

Property name	Description	Default value
proxy.username	The username used to connect on proxy. (only if the ant file was generated with a 1.6 compatibility)	
proxy.password	The password used to connect on proxy. (only if the ant file was generated with a 1.6 compatibility)	

Targets


The main targets defined in the generated ant's buildfile are :

- **clean** : to delete generated directories (`${defaulttargetdir}` and `${distdir}`).
- **compile** : to compile the code.
- **test** : to run the test cases.
- **jar** : to create the jar.
- **javadoc** : to generate the project's javadoc.
- **dist** : to create the distribution. It contains the jar, the javadoc, licenses(LICENCE.*) and readme (README.*).





1.5 Changes



Release History

Version	Date	Description
1.10	2006-07-21	
1.9	2005-04-09	
1.8.1	2004-08-20	
1.8	2004-07-20	
1.7	2004-05-15	
1.6	2004-03-07	
1.5	2003-10-08	
1.4	2003-09-29	
1.3	Maven beta 9	
1.2	2003-02-12	
1.1	2002-09-15	
1.0	2002-08-04	








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Release 1.10 - 2006-07-21


Type	Changes	By
	Update dependencies to unify them between plugins. The following dependencies are updated : commons-jelly-tags-interaction v1.0 to v1.1	aheritier
	The plugin overwrote existing ant script files without warning. From now the plugin ask you if you want to replace it. You can also use the property <code>maven.ant.generate.force</code> to force the plugin to replace the current script. Fixes MPANT-19 .	aheritier
	The property <code>maven.ant.generatebuild.file</code> is replaced by properties <code>maven.ant.generate.dir</code> , <code>maven.ant.generate.script</code> . The generated script is <code>\${maven.ant.generate.dir}/\${maven.ant.generate.script}</code> .	aheritier
	The property <code>maven.ant.generatebuild.file</code> is removed.	aheritier

Type	Changes	By
	Add a new goal (ant:execute) to execute a build.xml file from maven. Fixes MPANT-25 .	aheritier
	Update dependencies to match ones in maven 1.1 core and to unify them between plugins. The following dependencies are updated : commons-jelly-tags-xml v1.0 to v1.1, commons-jelly-tags-interaction v1.0 to v1.1 Fixes MAVEN-1712 .	aheritier




Release 1.9 - 2005-04-09

Type	Changes	By
	Ant script looks for dependencies in several remote repositories. Fixes MPANT-24 .	aheritier
	Add License file to jar META-INF. Fixes MPANT-23 . Thanks to Phil Steitz.	aheritier
	"get-deps" target store downloads to the default local maven repository (<code>\${user.home}/.maven/repository</code>). Fixes MPANT-21 .	aheritier
	Allow URL substitutions in generated build.xml files. Fixes MPANT-20 . Thanks to Dennis Lundberg, Craig McClanahan.	aheritier
	Obey jar override and not attempt to download relative jars. Fixes MPANT-7 .	epugh
	Ant user can set proxy settings.	aheritier
	New property maven.ant.compatibility if you want a script compatible with ant 1.5 (actually for proxy settings).	aheritier






Release 1.8.1 - 2004-08-20

Type	Changes	By
	Use relative paths in test resources filesets. Fixes MPANT-16 .	carlos



Release 1.8 - 2004-07-20

Type	Changes	By
	Add ant's setproxy tag. Fixes MPANT-9 . Thanks to Jan Nielsen.	aheritier
	Use relative paths in directory properties. Fixes MPANT-16 . Thanks to Brent Worden .	carlos
	Compile tests and run them only if Junit is present in ANT (display a warning otherwise).	aheritier


Release 1.7 - 2004-05-15

Type	Changes	By
	Resources are correctly copied to the specified targetPath. Fixes MPANT-14 .	aheritier
	Corrects also NumberFormatException. <code>pom.build.unitTest.resources</code> is made up of several <code>resource</code> elements. Fixes MPANT-13 .	aheritier
	Remove NumberFormatException if <code>pom.build.unitTest.resources</code> doesn't exist. Fixes MPANT-12 .	aheritier
	Change plugin tests to use 'assert' tags Fixes MPANT-11 .	dion
	Replace use of 'target' directory with appropriate variables	brett




Release 1.6 - 2004-03-07

Type	Changes	By
	Use relative path for javadoc. Fixes MPANT-8 .	evenisse
	Check unit test source dir exists before making relative path	dion


Release 1.5 - 2003-10-08

Type	Changes	By
	Make relative paths output for various pom values. Fixes MPANT-2 .	dion



Release 1.4 - 2003-09-29




Type	Changes	By
	Added test project	dion
	Separate build.xml template from plugin.jelly	dion
	Allow dependencies other than 'jars' to be downloaded	dion

Release 1.3 - Maven beta 9



Type	Changes	By
	Use first remote repo the user has specified for gets	dion

Release 1.2 - 2003-02-12


Type	Changes	By
	Added the new maven.ant.excludedTests property	dion
	If a project has no test source, the test targets are empty.	dion

Type	Changes	By
	<p>Fixing a chicken-and-egg problem. The "test" and "compile-tests" tasks were putting target/\${final.name}.jar into the classpath.</p> <p>But... the "jar" target that creates that jarfile is dependent upon those two targets.</p> <p>So, there was no way for the first two to succeed since the jarfile couldn't be created. Now, the first two include target/classes in the classpath and all is well.</p>	jcej
	Added the maven.ant.generatebuild.file property and docs	jcej
	Added more documentation on properties and supported SCM systems	dion

Release 1.1 - 2002-09-15

Type	Changes	By
	Fix documentation	dion
	Generated ant build should execute the unit tests before generating a jar. Fixes MPANT-1 .	dion

Release 1.0 - 2002-08-04

Type	Changes	By
	Original release for Maven 1.0-beta6	jvanzyl