

# ReleaseProcess

## Apache Tomcat Release Process

### Introduction

This is written primarily for Apache Tomcat release managers although it may also be of interest to anyone looking to validate and/or replicate the release process. This page uses Tomcat 7 as an example but the same process applies to later versions as well.

### Pre-requisites

- A git client installed and on your path
- Apache Ant installed and on your path (see BUILDING.txt in the root of the code repository for version requirements)
- The latest release of the minimum Java version that the Tomcat version runs on installed and on your path
- Windows OS (you can do it on Linux but it involves a lot more hassle)
- GnuPG installed
- A public key that is part of the Apache web of trust
- A reasonable internet connection (you will need to upload ~100MB)

### Preliminary checks

- Check that the version numbers have been incremented after the previous release, as expected. (e.g. <https://github.com/apache/tomcat/commit/9f1c4aae1ea29624aa70c10ca188083253f6f2d0#diff-d05193a10baf9408128c699650245e52>)
- Check that the changelog file mentions your login name as release manager for this release (e.g. "Tomcat 7.0.94 (markt)").
- Check whether the KEYS file differs from <https://dist.apache.org/repos/dist/release/tomcat/tomcat-7/KEYS> one. The latter one will be replaced after you do a release. Check that the KEYS file contains your public key.

### Create the tag

The aim is to create a copy of the current trunk but without the "-dev" appended to the end of the version number.

- Perform an git clone and switch to the correct branch
  - git clone <https://github.com/apache/tomcat> /c/releases/asf-tomcat
  - cd /c/releases/asf-tomcat
  - git checkout 7.0.x
  - git pull
- Edit build.properties and change the line `version.suffix=-dev` to `version.suffix=`
- Edit webapps/docs/changelog.xml and remove `rtxt="in development"` from the latest version
- Commit these changes
  - git commit -a -m "Tag 7.0.94"
  - git tag 7.0.94
  - git push origin 7.0.94
- Check the diff mailed to the dev list

I found it simplest to keep this clone for tagging to ensure no other edits found their way into the tag.

### Build the release

- mkdir /c/releases/TOMCAT\_7\_0\_94
- git archive 7.0.94 | tar -x -C /c/releases/TOMCAT\_7\_0\_94/

I'm using Git Bash for the above. Adjust as necessary for you choice of tools.

- Add a build.properties file with the following configuration (adjust paths for your environment)

```

execute.validate=true

execute.test.bio=true
execute.test.nio=true
execute.test.apr=true

test.haltonfailure=true

gpg.exec=C:/Program Files (x86)/GNU/GnuPG/gpg2.exe

base.path=C:/temp/libs

# Tomcat 7 currently requires both JDK 6 and JDK 7 to build a release
# JAVA_HOME system property used by Ant has to point to JDK 6 and this points to JDK 7
java.7.home=C:/Program Files (x86)/Java/jdk1.7.0_45

```

- ant release

#### Notes:

- GPG should be configured to use your Apache code signing key by default
- I always ensured `c:/temp/libs` was empty so that the build had to download all the dependencies

## Upload the release

Upload the contents of `TOMCAT_7_0_XX/output/release` to <https://dist.apache.org/repos/dist/dev/tomcat/tomcat-7/>

## Generate the Maven artifacts

See <https://github.com/apache/tomcat/blob/7.0.x/res/maven/README.txt> steps 1 to 3 (not step 4!)

## Call a vote

- E.g. <http://markmail.org/message/gymbwocspnwb2dfe>
- Increment the version number ready for the next tag (e.g. <http://svn.apache.org/viewvc?view=revision&revision=1500094>)

## If the vote passes

```
svn mv https://dist.apache.org/repos/dist/dev/tomcat/tomcat-7/v7.0.XX https://dist.apache.org/repos/dist/release/tomcat/tomcat-7/v7.0.XX
```

```
svn checkout --depth immediates https://dist.apache.org/repos/dist/release/tomcat/tomcat-7/
```

and update the `KEYS` file there to be the same as the one used for release. (The download page has links pointing to this file).

- Release the Maven artifacts (<https://github.com/apache/tomcat/blob/7.0.x/res/maven/README.txt> step 4)
- Wait for the mirrors to sync (upto 24 hours depending on what percentage of the mirrors you want to sync)
- Update the website (e.g. <http://svn.apache.org/viewvc?view=revision&revision=1500109>)  
Note: the index and oldnews pages are sorted by date. Thus the new announcement pops up to the top of the page.
- Update the docs (see <http://svn.apache.org/repos/asf/tomcat/site/trunk/README.txt>)
- Announce the release (e.g. <http://markmail.org/message/xyantb3ozzmucdjt>) to `users@t.a.o`, `cc dev@t.a.o`, `announce@t.a.o`, `announce@a.o`
- Update the release date in the changelog to the date the files were copied to the the release area in `yyyy-mm-dd` format.  
E.g. "released 2013-05-03" (for stable versions), "beta, 2007-02-08" (for betas).
- Add the version number in Bugzilla (<https://bz.apache.org/bugzilla/> Administration Products / versions)
- Drop the artifacts for the previous release from <https://dist.apache.org/repos/dist/release/tomcat/tomcat-7/>
- Add release data (version and date) to `reporter.apache.org` - <https://reporter.apache.org/addrelease.html?tomcat>

## If the vote does not pass

- Update the release date in the changelog to "not released"
- Drop the artifacts from <https://dist.apache.org/repos/dist/dev/tomcat/tomcat-7/>
- Drop the maven artifacts from the staged maven repository