

# Log4j Kotlin API Release Process

How to perform a release of the Log4j Kotlin API.

## Step-by-step guide

### Prerequisite Steps

1. Run `mvn clean verify` on the project to make sure it builds cleanly.
2. Make sure you have an up to date PGP key (at least 4096-bit RSA or stronger; use of ECDSA or EdDSA keys should be *in addition to* the RSA keys for broader compatibility) in the [Logging KEYS file](#) along with having it mirrored in a common public PGP key repository such as [Ubuntu Keyserver](#).
3. Configure your `git config user.signingKey, user.name, and user.email` values to match that key.
  - a. External guide: <https://docs.github.com/en/github/authenticating-to-github/managing-commit-signature-verification/telling-git-about-your-signing-key>
4. Ensure you have your credentials set up in `~/.m2/settings.xml` as described in [Log4j 2 Release Process](#).
  - a. TODO: insert information about using encrypted passwords.

### Release Steps

1. Edit `pom.xml` and change the `Log4jKotlinVersion` property to the new version `n.n.n`.
2. Update the `Log4jReleaseManager` and `Log4jReleaseKey` properties if necessary.
3. Generate the site locally and verify it looks alright.
  - a. `mvn site`
  - b. `cd target/site`
  - c. `python3 -m http.server`
  - d. Go to <http://localhost:8000>
4. Build, sign, tag, and publish a release candidate `n.n.n-rcn`. If your GPG key isn't on a hardware key, it should be password protected; you'll be prompted to enter the password to sign artifacts during the build.
  - a. `mvn -Papache-release -DskipTests -Darguments="DskipTests" release:prepare release:perform -DreleaseVersion=n.n.n -DdevelopmentVersion=n.n.n-SNAPSHOT -Dtag=log4j-api-kotlin-n.n.n-rcn`
5. Login to <https://repository.apache.org/> with your ASF credentials. Select "Staging Repositories", then find the newly created `orgapachelogging-*` staging repository and close it.
6. Checkout the release tag and stage the website into a working copy of the `asf-staging` branch of <https://github.com/apache/logging-log4j-site/tree/asf-staging> to `log4j-kotlin-n.n.n` and update the symlink of `kotlin` to point to it.
  - a. `mvn site && mvn site:stage -DstagingDirectory=$HOME/code/logging/site-java/log4j-kotlin-n.n.n`
  - b. Check result of deployment: <https://logging.staged.apache.org/log4j/kotlin/>
7. Copy the archives and signatures from `log4j-api-kotlin/target/` to <https://dist.apache.org/repos/dist/dev/logging/log4j/kotlin/>.
8. Run `for f in *.bz2 *.gz *.zip; do shasum -a 512 $f >$f.sha512; shasum -a 256 $f >$f.sha256; done` to generate hashsums.
9. Send a release vote email to [dev@logging.apache.org](mailto:dev@logging.apache.org) with links to everything.
10. If the release fails, drop the staging repository on `repository.a.o` and start over with a fresh release candidate number.
11. Otherwise, if the release passes, complete the release on the staging repository.
12. Create an immutable signed release tag.
  - a. `git tag -s rel/n.n.n 'log4j-api-kotlin-n.n.n-rcn^{ }' -m 'Release n.n.n of Log4j Kotlin API' && git push --tags`
13. Move the distribution artifacts to <https://dist.apache.org/repos/dist/release/logging/log4j/kotlin/> where a new version directory should be made.
  - a. `svn mkdir '^/release/logging/log4j/kotlin/n.n.n'`
  - b. `svn mv $(svn ls '^/dev/logging/log4j/kotlin' | xargs printf '^/dev/logging/log4j/kotlin/%s ') '^/release/logging/log4j/kotlin/n.n.n/'`
14. Login to <https://reporter.apache.org/> to record the release.
15. Wait 12-24 hours for mirrors to propagate.
16. Delete the **previous** version in <https://dist.apache.org/repos/dist/release/logging/log4j/kotlin/>.
  - a. `svn rm '^/release/logging/log4j/kotlin/n.n.n-1'`
17. Merge the `asf-staging` site branch into `asf-site`
  - a. `git checkout asf-site && git rebase asf-staging && git push origin asf-site`
18. Update any redirect to point to new version for latest (if applicable).
19. Send announcement email (from your `apache.org` email) to `dev@logging.apache.org`, `log4j-user@logging.apache.org`, and `announcements@apache.org`.

### Related articles

- [Log4j 2 Release Process](#)
- [Log4j Kotlin API Release Process](#)
- [Logging Parent POM Release Guide](#)
- [Log4j Scala API Release Process](#)