Log4j Scala API Release Process

Release Parameters

When preparing a release candidate, there are a few parameters either prompted for or needed to be updated manually. These include:

- Tag version: e.g., 12.3-rc4
- Release version: e.g., 12.3
- GPG key id: e.g., 1234567887654321
- Log4j Core dependency version (both the published dependency and documentation example)

Preparation

- 1. Verify the project builds cleanly via ./sbt "+test"
- 2. Verify the site builds cleanly via ./sbt makeSite
- 3. Verify the files pass the audit check via ./sbt auditCheck
- 4. Make sure you have a 4096-bit RSA PGP key for signing releases uploaded to a public PGP key repository (preferably http://keyserver.ubuntu.com) as well as located in the KEYS file.
- 5. Configure sbt with your pgp key by first exporting into the old format for use by sbt-pgp by running gpg --export-secret-keys --armor --output ~/.sbt/gpg/secring.asc and then edit the file ~/.sbt/gpg.sbt with the following:

```
gpg.sbt

useGpg := true
pgpSecretRing := Path.userHome / ".sbt" / "gpg" / "secring.asc"
usePgpKeyHex("1234567887654321")
```

6. Configure your Apache credentials by writing to ~/.sbt/1.0/global.sbt with something like:

```
global.sbt

credentials += Credentials("Sonatype Nexus Repository Manager", "repository.apache.org", "username",
    "password")
```

Releasing

- 1. Run ./sbt release and answer the version number prompts.
 - a. Important: the version number used here should be a release version like 12.3 due to script limitations. When prompted to push your local changes, say "No", and move the tag: git tag v12.3-rc3 'v12.3^{{}' && git tag -d v12.3 && git push --tags
 - b. Close the staging release repository afterwards by logging in to https://repository.apache.org/#stagingRepositories and finding the appropriate orgapachelogging-NNNN repository.
- $\hbox{2. Check out the created tag and run $\tt GPG_KEYID=mykeyid ./create-distributions.sh $\tt <release-version-number> } \\$
 - a. FIXME: binary distributions may not be signed by default; make sure to sign them! As a workaround, use the following bash script: cd target; for f in *.zip *.gz; do shasum -a 256 \$f >\$f.sha256; shasum -a 512 \$f >\$f.sha512; done
- 3. Commit those to https://dist.apache.org/repos/dist/dev/logging/log4j/scala for staging (removing previous release candidates as necessary).
- 4. Commit the site to github pages for previewing.
 - a. FIXME: this currently requires manually aggregating the API docs from each target/scala-2.xx/api/ directory into target/site/api/2.xx/. Can be done via: cd target/site/api; mv ../../scala-2.10/api 2.10 ...
- 5. Perform a release email and follow the usual release process as Log4j Core does.