ReleaseCreation

This page is a brain dump of the various items needed for a release.

DRAFT

Requirements

- a Java JDK in according with target JDK (Java 8 for JMeter 5.0+)
- a recent Gradle release (but if you use gradlew utility, the good gradle version will be installed during the build)
- subversion (svn) client installed (version 1.9+); the command-line utility svnmucc is needed (it should be included in the svn client installation (svn-tools dir), but please check)
- a git client installed (2.+)
- a text editor
- hostname must resolve to ip address (not loopback)
- Internet access

Preparation

For GPG signing, the Release Manager need to have his GPG key on his machine.

To check the key (for example):

```
$ gpg --list-secret-keys --keyid-format LONG
[...]
sec   rsa4096/AC214CAA0612B399 2010-08-14 [SC]
      C4923F9ABFB2F1A06F08E88BAC214CAA0612B399
uid                 [ultimate] Milamber (ASF) <milamber@a.o>
uid                 [ultimate] Milamber (Milamberspace) <milamberspace@xxxxx.com>
ssb#  rsa4096/88A342BB4B10546A 2010-08-14 [E]

Optionally, you can add the user signing key in Git configuration for the JMeter repository, this allow to sign
each commit.

Go to the Git clone directory of JMeter project:
$ cd ~/GitRepos/JMeter/jmeter

Execute this git command to configure the user signing key, please change the key ID with your own key id:
$ git config user.signingkey AC214CAA0612B399
```

- request Bugzilla version update (on INFRA or if you are JMeter committer, ask for sufficient Bugzilla karma to do this yourself)
- ensure changes.xml is up to date. If necessary, commit after update.
- ensure unit tests pass
- do not update the version in build.xml yet; master branch should remain a SNAPSHOT
- check out Git master branch into a clean workspace (or run a git clone if jmeter git tree is not on your machine)

```
$ cd ~/GitRepos/JMeter/jmeter

$ git pull
Already up to date.
```

- Update version to targeted version in gradle.properties

```
 vi gradle.properties
```

- update the version / year for NOTICE (year)
  - ./NOTICE:
    - section: *Copyright 1998-2019 The Apache Software Foundation*
- update xdocs/download_jmeter.xml to the new version
  - section: <!ENTITY release '5.0'>
- Add modifications, commit and push to remote location

```
git add NOTICE xdocs/download_jmeter.xml
git commit -m "prepare new version 5.X.X"
git push
```

Generate Release

- Clean the working space before

```
$ ./gradlew :src:dist:clean
```

- To do a new release candidate, run theses commands:

```
$ ./gradlew prepareVote -Prc=1 -Pasf -PuseGpgCmd --info --stacktrace
```

- Change -Prc=X with according the RC number
- Use -Pasf to use the ASF GitBox repository (indeed of GitHub)
- use -PuseGpgCmd to allow the signing of archives
- (if you work on a Linux machine, during the build, the GPG agent will ask your passphras for you GPG key.)

On success, a template for VOTE email are display with relevant informations

Checks to do before sending vote email

- review RAT report
- See ReleaseChecking for information on what to check
- Test ALL links in the vote message (use browser in incognito mode)

Vote on release

- send round [VOTE] e-mail to dev

  Subject: [VOTE] Release JMeter X.X.X RCx
- Wait for any feedback (at least 72 hours); address any issues raised, if necessary by creating another release tag (rc)
- If at least 3 PMC votes, then continue

After VOTE success

- send round [VOTE] [RESULT] e-mail to same mailing lists
- Publish the RC tag to the release tag

```
$ ./gradlew publishDist -Prc=1 -Pasf -PuseGpgCmd
```

Update main distribution files

- Checkout the top-level of the live dist project on your computer:

```
mkdir ~/JMETER_releases/jmeter_5_4_2
cd ~JMETER_releases/jmeter_5_4_2
svn co --depth files  https://dist.apache.org/repos/dist/release/jmeter/ dist-jmeter
```

- Edit HEADER.html to modify with new version number
- If necessary, add your GPG public key to KEYS
- If necessary, update the META file with your GPG key id (if you act as the release manager for the first time. Please visit https://checker.apache.org/doc/README.html)
    - The META file needs to be signed by the PMC Chair of project with this command:

```
gpg -u emailOfPmcChairJMeter@apache.org --armor --output META.asc --detach-sig META
```

- To verify the good signature, use this command:

```
$ gpg --verify META.asc META

gpg: Signature made mar. 12 sept. 2017 18:05:19 WEST
gpg:                using RSA key C4923F9ABFB2F1A06F08E88BAC214CAA0612B399
gpg:                issuer "milamber@apache.org"
gpg: Good signature from "Milamber (ASF) <milamber@apache.org>" [ultimate]
gpg:                 aka "Milamber (Milamberspace) <milamberspace@gmail.com>" [ultimate]
```

- Commit with svn

```
svn commit -m "JMeter 5.4.2 release - Prepare update site" dist-jmeter
```

Maven Release

- Go to Apache Repository
- Section **Staging Repositories**
  - Check the RC box, add click on Release button (see: Release a staging repository)
  - Comment: "JMeter 5.0 release"
- Maven Central will catch up the new release in next sync (check: ga)

Wait for the update of central maven

- **wait a day** or so Maven Central update.

Update Doap file

- Get latest Doap file from Git master branch

```
$ cd ~/GitRepos/JMeter/jmeter
$ git pull
$ vi doap_JMeter.rdf
```

- update doap_JMeter.rdf to add the new release
- and commit

```
$ git add doap_JMeter.rdf
$ git commit -m "Add the 5.4.2 release"
```

Update the JMeter web site

Clone (or pull) the git repo for JMeter web site:

```
Optionally:
cd ~/GitRepos/JMeter
$ git clone https://gitbox.apache.org/repos/asf/jmeter-site.git
Or
$ cd ~/GitRepos/JMeter/jmeter-site/
$ git pull
```

Copy new web site files from jmeter git source directory to the site directory

Change the path segment above as appropriate!

```
$ cp -a site/* ~/GitRepos/JMeter/jmeter-site/
```

Add changes in stage git

```
$ git add .
```

Get lastest version Doap file and add to git too:

```
$ wget "https://gitbox.apache.org/repos/asf?p=jmeter.git;a=blob_plain;f=doap_JMeter.rdf;hb=HEAD" -O doap_JMeter.
rdf
$ git add doap_JMeter.rdf
```

Commit and push:

```
$ git commit -m "Update website for the new release Apache JMeter 5.4.2"
$ git push
```

The !GitPubSub system will update the live site within a few seconds.

Announce

Make sure: JMeter website is update.

- update Wiki version details

- send [ANNOUNCE] e-mail to user@jmeter.a.o, dev@jmeter.a.o

    - See ReleaseAnnounceEmailTemplate
    - Double check all URL in email announce!
- also copy to announce AT ao (has to be sent from an ao e-mail address)
- N.B. to track bounces and unsubscribes, it may be a good idea to use a separate mail to Announce

Update reporter.apache.org

Add release data (version and date) to reporter.apache.org - https://reporter.apache.org/addrelease.html?jmeter

Tidy up

- a few days after the release has been announced, remove any superseded releases from the binaries and source directories under https://dist.
  apache.org/repos/dist/release/jmeter/ using the following command:

```
ant release_delete -Djmeter.old.version=4.0 -DrepoType=live [-Dasf.ldap.password=secret [-Dasf.ldap.
usermame=user] ]
```