

# Patches

## How to apply a PATCH

Depending on the origin of a patch, the best way to apply it is slightly different.

**Important:** All patches require a corresponding issue filed in [JIRA](#) before it can be added to the source repository.

**Important:** When applying a patch (or pull-request) it is your responsibility to check that all requirements for contributions to the ASF are met. This includes especially that a patch has to be submitted to JIRA or one of the projects mailing lists.

### Patch from JIRA

Applying a patch attached to an issue in JIRA is quite straight forward:

1. Download the patch and apply it to the source:  
`git apply MARMOTTA-123.patch`
2. Examine the changes introduced by the patch. Make sure the code compiles and does what it claims in the issue. Check that
  - a. all LICENSE headers are in place (maybe you want to run `mvn apache-rat:check`),
  - b. all newly introduced dependencies are covered in the N&L files (remember that some dependencies are bundled and shipped with the binary release packages!)Add you changes to the commit: `git add <file>`
3. If the changes comply with both, your personal and the projects quality standards, add the author of the patch as a *contributor* in the parent-pom. Add the parent pom to the commit: `git add parent/pom.xml`
4. Commit all changes. Make sure to include
  - a. the author of the patch,
  - b. the issue numberto the commit message: `git commit -m "MARMOTTA-123: applied patch by John Doe" -m "Submitted by: John Doe <john.doe.at.null.org>" --signoff --edit -S`  
The merge commit will be signed with your GPG-Key.

### Pull-Request from Github

Pull requests from via [github](#) should be included slightly different that "plain patches" to keep the original authorship of the changes.

Also pull requests on github require a corresponding issue in JIRA **with a patch attached**. The patch can be downloaded directly from github by adding a *.patch* extension to the pull-request url. The patch has to be attached by the author.

Use the following steps to apply a pull-requests from github.

1. Add the forked github repository the pull-requests origins from:  
`git remote add <github-user> https://github.com/<github-user>/marmotta.git` you can also restrict the remote to a specific branch:  
`git remote add -t <remote-branch> <github-user> https://github.com/<github-user>/marmotta.git`
2. Fetch the changes  
`git fetch <github-user>`
3. Merge in the changes telling where the change comes from and [tell github to close the pull request](#):  
`git merge --no-commit --no-ff --log -m "MARMOTTA-123: Merged patch from <github-user> on github, closes #1234" -m "Obtained from: <github-user> <https://github.com/<github-user>/>" <github-user>/<remote-branch>`
4. Examine the changes introduced by the patch. Make sure the code compiles and does what it claims in the pull request. Check that
  - a. all LICENSE headers are in place (maybe you want to run `mvn apache-rat:check`),
  - b. all newly introduced dependencies are covered in the N&L files (remember that some dependencies are bundled and shipped with the binary release packages!)Add all changes to the merge-commit: `git add <file>`
5. If the changes comply with both, your personal and the projects quality standards, add the author of the pull-request as a *contributor* in the parent-pom. Add the change in the parent-pom to the merge-commit: `git add parent/pom.xml`
6. Commit the merge  
`git commit --signoff -S` The merge commit will be signed with your GPG-Key.