

Release Sign

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Steps to sign a release:

- As a release manager, I believe you should have created signing key by following Apache documentation (<https://www.apache.org/dev/openpgp.html#key-gen-generate-key>). In this example I am considering 0.6.0 is the release branch and current working directory is /home/user1.
- Prepare the release notes in [Release Folders](#)
- Clone release branch with command

```
# cd /home/user1
# git clone -b 0.6.0 --single-branch https://git-wip-us.apache.org/repos/asf/fineract.git apache-fineract-0.6.0-src
```

- Make sure build is happening and all integration tests are passed by following steps defined in [readme.md](#)
- Create a binary directory with release version under /home/user1/. In this example the directory name is apache-fineract-0.6.0-binary
- Build war file and copy into binary directory. Extract LICENSE, NOTICE, DISCLAIMER files from fineract-provider.war and place them in binary directory.
- Now create a tar file of binary directory with below command. This command will create apache-fineract-0.6.0-binary.tar.gz file in /home/user1 directory.

```
# cd /home/user1
# tar -zcvf apache-fineract-0.6.0-binary.tar.gz apache-fineract-0.6.0-binary
```

- Now move to apache-fineract-0.6.0-src and remove all git configuration directories/files. Remove bin, catalina.base_IS_UNDEFINED, build directories from fineract-provider directory
- Remove gradle wrapper jar file from apache-fineract-0.6.0/fineract-provider/gradle/wrapper
- Remove LICENSE_RELEASE, NOTICE_RELEASE files. Rename LICENSE_SOURCE TO LICENSE and NOTICE_SOURCE to NOTICE. Remove binary directory from licenses directory.
- Now create source tar file with below command. This command will create apache-fineract-0.6.0-src.tar.gz file in /home/user1 directory.

```
# cd /home/user1
# tar -zcvf apache-fineract-0.6.0-src.tar.gz apache-fineract-0.6.0-src
```

- Next step is to create detached signature, checksum with MD5 and SHA with the following commands

```
# cd /home/user1
# gpg --armor --output apache-fineract-0.6.0-src.tar.gz.asc --detach-sig apache-fineract-0.6.0-src.tar.gz
# gpg --print-md MD5 apache-fineract-0.6.0-src.tar.gz > apache-fineract-0.6.0-src.tar.gz.md5
# gpg --print-md SHA512 apache-fineract-0.6.0-src.tar.gz > apache-fineract-0.6.0-src.tar.gz.sha512
# gpg --armor --output apache-fineract-0.6.0-binary.tar.gz.asc --detach-sig apache-fineract-0.6.0-binary.tar.gz
# gpg --print-md MD5 apache-fineract-0.6.0-binary.tar.gz > apache-fineract-0.6.0-binary.tar.gz.md5
# gpg --print-md SHA512 apache-fineract-0.6.0-binary.tar.gz > apache-fineract-0.6.0-binary.tar.gz.sha512
```

- Finally create a directory with release name (0.6.0 in this example) in <https://dist.apache.org/repos/dist/dev/fineract> and add the following files in this new directory.
 - apache-fineract-0.6.0-binary.tar.gz.sha
 - apache-fineract-0.6.0-binary.tar.gz
 - apache-fineract-0.6.0-binary.tar.gz.asc
 - apache-fineract-0.6.0-binary.tar.gz.md5
 - apache-fineract-0.6.0-src.tar.gz.sha
 - apache-fineract-0.6.0-src.tar.gz
 - apache-fineract-0.6.0-src.tar.gz.asc
 - apache-fineract-0.6.0-src.tar.gz.md5
- Next step is to drop mail to dev@fineract.apache.org about release approval.
- Once release is approved then announce the release to the community.
- Update the website to point to the latest release.

Points to remember:

- Sign the release with apache mail id
- Send a mail for the release approval on dev@fineract.apache.org mailing list. Format of the email can be found at http://mail-archives.apache.org/mod_mbox/fineract-dev/201701.mbox/%3CCA0Se2ysBL1pS6YMSbSHS-BT1PPb29K-ZuGqYBd2igepQSFMM%2Bg%40mail.gmail.com%3E
- Once we get sufficient votes, close the vote by dropping an email to dev@fineract.apache.org mailing list. The format of the email can be found at http://mail-archives.apache.org/mod_mbox/fineract-dev/201701.mbox/%3CCA0Se2yuvdNRkt1cAbGQcEwdWVgTpanz7kS5fAQUsnsZZWrRhCw%40mail.gmail.com%3E
- Once release is approved, copy the release artifacts to <https://dist.apache.org/repos/dist/release/fineract/0.6.0> and then announce the release by dropping an email to announce@apache.org. The format of the email can be found at http://mail-archives.apache.org/mod_mbox/fineract-dev/201612.mbox/%3CCA0Se2yvu7J8Xs4eJAoi4uN888w0bDo-%3DND_J%2BD9VC6gRd8Gog%40mail.gmail.com%3E

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