

# Ozone Release Guideline

This document describe the process to release apache Hadoop Ozone. The process is not yet scripted and the documentation is **work in progress**

## Pre-Requisite

Release manager should have a gpg key setup to sign the artifacts. For more details refer below link.

<https://www.apache.org/dev/new-committers-guide.html#set-up-security-and-gpg-keys>

## Pre-Vote

### Set up environment variables

#### Export Vars

```
export VERSION=0.4.0-alpha

export RELEASE_DIR=~/.ozone-release/ (ozone-release needs to be created)

export CODESIGNINGKEY=your_gpg_key_id
```

### Reset the git repository

#### Reset the Git Repo

```
git reset --hard

git clean -dfx
```

### Update the versions

Use below command or use IDE to replace "0.4.0-SNAPSHOT" to "0.4.0-alpha".

#### Update the Versions (Linux)

```
find . -name pom.xml -type f | xargs sed -i 's/0.4.0-SNAPSHOT/0.4.0-alpha/g'
```

#### Update the Versions (Mac)

```
find . -name pom.xml -type f -print0 | xargs -0 sed -i '' 's/0.4.0-SNAPSHOT/0.4.0-alpha/g'
```

### Commit the changes

#### Commit the version changes

```
git commit -am "commit updated ozone version"
```

### Tag the repository

#### Tag the Release

```
git tag -s ozone-$VERSION-RC0
```

## Create the release artifacts

- Run rat check

### Run RAT Check

```
./hadoop-ozone/dev-support/checks/rat.sh
```

- Clean the Repo of all Rat output

### Reset the Git Repo

```
git reset --hard  
git clean -dfx
```

- Build the Release Tarballs.

### Run RAT Check

```
mvn clean install -Dmaven.javadoc.skip=true -DskipTests -DskipShade -Psign,dist,src,hdds,hdds-src -Dtar -Dpgp.  
keyname=${CODESIGNINGKEY}
```

- Now that we have build the release artifacts, we will copy them to the release directory.

### Copy to Release Directory

```
cp hadoop-dist/target/hadoop-ozone-*-src-with-hdds.tar.gz $RELEASE_DIR/hadoop-ozone-$VERSION-src.tar.gz  
cp hadoop-ozone/dist/target/ozone-$VERSION.tar.gz $RELEASE_DIR/hadoop-ozone-$VERSION.tar.gz  
cd $RELEASE_DIR
```

## Calculate the checksum and sign the artifacts

```
for i in $(ls -l *.tar.gz); do gpg -u ${CODESIGNINGKEY} --armor --output "${i}.asc" --detach-sig "${i}"; done  
for i in $(ls -l *.tar.gz); do sha512sum ${i} > ${i}.sha512; done  
for i in $(ls -l *.tar.gz); do gpg --print-mds ${i} > ${i}.mds; done
```

## Upload the artifacts to somewhere

- Upload everything from the \$RELEASE\_DIR to your apache home with sftp

### FTP to the apache server

```
sftp home.apache.org
```

- Create a directory called "public\_html" if it does not exist.

### Create public\_html

```
mkdir public_html
```

- Create the Release Directory

### Create the Release Directory under public\_html

```
mkdir public_html/ozone-0.4.0-alpha-rc0/
```

- Change directory into the new release directory

### Move into the release directory

```
cd public_html/ozone-0.4.0-alpha-rc0
```

- Upload the release artifacts to this release directory

### Upload Release Artifacts

```
mput *
```

- Check the results using your browser by connecting to <https://home.apache.org/~<apacheName>/ozone-0.4.0-alpha-rc0/>

## Upload the artifacts to the apache nexus

Double check if your apache credentials are added to your local `~/.m2/settings.xml`

```
<settings>
  <server>
    <id>apache.snapshots.https</id>
    <username>your_apache_id</username>
    <password>your_apache_password</password>
  </server>
  <!-- To stage a release of some part of Maven -->
  <server>
    <id>apache.releases.https</id>
    <username>your_apache_id</username>
    <password>your_apache_password</password>
  </server>
</settings>
```

Do a maven deploy from the ozone and hdds projects

### Upload Release Artifacts

```
cd hadoop-ozone
mvn deploy
cd ../hadoop-hdds
mvn deploy
```

Go to the <https://repository.apache.org> and **close** the newly created hadoop repository (select the latest one which contains the hadoop in the name)

The Apache Software Foundation  
http://www.apache.org/

Nexus Repository Manager 2.14.12-02

Sonatype™

Welcome | Repositories | Central Statistics | Staging Repositories

Refresh Close promote Release Drop

| Repository                                              | Profile           | Status | Updated              | Desc...   | IQ Policy Violation |
|---------------------------------------------------------|-------------------|--------|----------------------|-----------|---------------------|
| orgapachebeam-1069                                      | org.apache.beam   | closed | 2019-May-22 18:22:51 | Beam...   | No IQ Server d      |
| orgapachecarbondata-1050                                | org.apache.car... | closed | 2019-May-17 12:16:21 | apac...   | No IQ Server d      |
| <input checked="" type="checkbox"/> orgapachedubbo-1022 | org.apache.dubbo  | open   | 2019-May-29 11:49:58 | Implic... | No IQ Server d      |
| orgapacheignite-1438                                    | org.apache.ignite | closed | 2019-May-16 20:58:41 | Repo...   | No IQ Server d      |
| orgapacheignite-1462                                    | org.apache.ignite | closed | 2019-May-18 19:34:35 | IGNI...   | No IQ Server d      |
| orgapachemesos-1251                                     | org.apache.mes... | closed | 2019-Apr-15 20:07:56 | Implic... | No IQ Server d      |
| orgapachemesos-1252                                     | org.apache.mes... | closed | 2019-Apr-18 14:33:28 | Implic... | No IQ Server d      |
| orgapachemxnet-1074                                     | org.apache.mxnet  | closed | 2019-May-22 23:30:14 | Implic... | No IQ Server d      |
| orgapachemxnet-1075                                     | org.apache.mxnet  | closed | 2019-May-22 23:52:08 | Implic... | No IQ Server d      |
| orgapachemxnet-1076                                     | org.apache.mxnet  | closed | 2019-May-23 00:04:23 | Implic... | No IQ Server d      |
| orgapachemxnet-1080                                     | org.apache.mxnet  | closed | 2019-May-26 17:05:08 | clojur... | No IQ Server d      |
| orgapachemxnet-1081                                     | org.apache.mxnet  | closed | 2019-May-26 17:18:15 | clojur... | No IQ Server d      |
| orgapachemxnet-1082                                     | org.apache.mxnet  | closed | 2019-May-26 17:25:35 | clojur... | No IQ Server d      |

orgapachedubbo-1022

Summary | Activity | Content

**Repository** orgapachedubbo-1022 (org.apache.dubbo)  
**Created** Wednesday, May 29, 2019 11:49:57 CEST (GMT+0200)  
**Updated** Wednesday, May 29, 2019 11:49:58 CEST (GMT+0200)  
**Activity** <div class="nx-staging-repository-SummaryView-activity"><span class="nx-staging-repository-SummaryView-activity-icon"></span><span class="nx-staging-repository-SummaryView-activity-message">Last operation completed successfully</span></div>  
**Owner** victory (42.120.74.103)  
**User-Agent** Apache-Maven/3.6.0 (Java 1.8.0\_181; Mac OS X 10.14.5)

Description

 open

## Push the tag to github

### Push the tag

```
git push origin ozone-0.4.0-alpha-RC0
```

Note: You can push the tag as is and merge it to the branch in case of a successful vote.

## Send the voting mail to below mailing list

1. Hadoop Common <common-dev@hadoop.apache.org>
2. Hdfs-dev <hdfs-dev@hadoop.apache.org>
3. yarn-dev@hadoop.apache.org <yarn-dev@hadoop.apache.org>
4. mapreduce-dev@hadoop.apache.org <mapreduce-dev@hadoop.apache.org>

## Vote

## After-Vote

## Publish the artifacts

You should commit the artifacts to the SVN repository. If you are not a PMC member you can commit it to the dev zone first and ask a PMC for the final move:

Checkout the svn folder: <https://dist.apache.org/repos/dist/dev/hadoop>

And commit the artifacts to a new directory.

PMC members can move it to the final location:

```
svn mv https://dist.apache.org/repos/dist/dev/hadoop/ozone-0.3.0-alpha https://dist.apache.org/repos/dist/release/hadoop/ozone/ozone-0.3.0-alpha
```

To publish the artifacts to the central maven, login to the <https://repository.apache.org>, select your **staging** repository and **Release** it.

## Write a haiku

Check the tag from the [Ozone Road Map](#) page (it's a national park).

Find a photo which is under the CC license.

Write a haiku to the photo with Future font.

Save it to add it to the announcement page.

## Update the ozone and hadoop sites

This is documented here: [How to generate and push ASF web site after HADOOP-14163](#)

The same repository contains both the hadoop and the ozone sub-site.

In short:

1. You need a new page like `ozone/src/release/0.3.0-alpha.md`
2. You put the photo with the haiku to `ozone/static/releases/`
3. Regenerate the site: `cd ozone && hugo`
4. Create a shorter announcement to the hadoop site, such as `src/news/2018-11-22-ozone-0.3.0-alpha.md`
5. Execute hugo on the root dir of the repository
6. Go to the content subfolder, start a webserver (I use Caddy without a config but `python -m http` also works) and check the result

You also need to upload the docs folder. It should be copied from the binary artifact to `content/ozone/docs/...`

Please also update the `content/ozone/current` symbolic link

At the end: commit and push everything (including the changes under `./content`)

## Add the final git tag and push it

```
git checkout ozone-0.3.0-alpha-RC1
```

```
git tag -s ozone-0.3.0-alpha -m "HDDS-602. Ozone 0.3.0-alpha release"
```

```
git push ozone-0.3.0-alpha
```

## Change the development version on the branch

1. Usually I push the release tags as is and merge them back to the version branch later:

```
git checkout ozone-0.3
```

```
git merge apache/ozone-0.3
```

```
git merge ozone-0.3.0-alpha
```

2. Restore the apache hadoop version and bump the ozone version:

```
find -name pom.xml -type f | xargs -n 1 sed -i 's/ozone-0.3.0-alpha/3.3.0-SNAPSHOT/g'
```

```
find -name pom.xml -type f | xargs -n 1 sed -i 's/0.3.0-alpha/0.3.1-SNAPSHOT/g'
```

3. Do a build and push the branch

## Write an announcement mail to the hadoop mailing lists

Include general + user + all the dev mailing list