[CI] - Release an artifact

Project Standalone Release

This page explains how a project can release independently.

Preparing your project for release

A project can produce a staging repository by using one of the following methods against the {project-name}-maven-stage-{stream} job:

- Leave a comment stage-release against any patch for the stream to build
- Click Build with Parameters in Jenkins Web UI for the job

This job performs the following duties:

- 1. Removes -SNAPSHOT from all pom files
- 2. Produces a taglist.log, project.patch, and project.bundle files
- 3. Runs a mvn clean deploy to a local staging repo
- 4. Pushes the staging repo to a Nexus staging repo https://nexus.<project-name>.org/content/repositories/<REPO_ID> (REPO_ID is saved to staging-repo.txt on the log server)
- 5. Archives taglist.log, project.patch, and project.bundle files to log server

The files taglist.log and project.bundle can be used later at release time to reproduce a byte exact commit of what was built by the Jenkins job. This can be used to tag the release at release time.

Releasing your project

Once testing against the staging repo has been completed and project has determined that the staged repo is ready for release. A release can the be performed as follows:

- 1. Ask helpdesk to promote the staging repo
- 2. Download taglist log and project bundle files. They can be found in the "patches" directory of the related jenkins release job logs.
- 3. Read taglist.log and checkout the commit hash listed
- 4. Merge the project.bundle patches
- 5. Git tag the release
- 6. Push release tag to Gerrit

Steps 3-6 as bash: You will need a working GPG config to sign the release Git tag ("-s" option)

```
PATCH_DIR=/tmp/patches
PROJECT=odlparent
VERSION=1.2.3
git checkout $(awk '{print $NF}' "$PATCH_DIR/taglist.log")
git fetch "$PATCH_DIR/$PROJECT.bundle"
git merge --ff-only FETCH_HEAD
git tag -asm "$PROJECT $VERSION" "v$VERSION"
git push origin "v$VERSION"
```

Once complete the Git tag should be available in Gerrit and the Artifacts should appear in the Nexus opendaylight.release repo.



Related articles

- Creating Branches for Projects with Upcoming Releases
- [Gerrit GitHub] Update repo committer rights
- [CI Jenkins] Update Jenkins jobs
- [Artifactory] Sync Bintray to JCenter/Maven-Central
- [Artifactory] Sync Artifacts from Bintray to Maven Central