

Detailed Process Description

Release Process

The release cycle for release 11.0.<n> starts its initial stage in the [jdk11u-dev](#) repository as soon as the previous release enters its second stage and is confined to the [jdk11u](#) repository. The starting point is tagged with `jdk11.0.<n>+0`. Once the previous release has happened, [jdk11u-dev](#) begins a cycle of being tagged on a weekly basis - when new changesets have been pushed - and the latest tag is promoted from [jdk11u-dev](#) to [jdk11u](#). The tags have the format of `jdk11.0.<n>+<build>`, where <n> is the placeholder for the update release and <build> is the monotonically increasing build number.

About 6 weeks before its release, or general availability (GA), an update release enters *Rampdown*. From that point onwards, the update release is stabilized by only accepting very select fixes in [jdk11u](#), such as regressions, high priority issues and test fixes. Tagging again takes place on a weekly basis - when changes have occurred - but this time, it occurs in the opposite direction, with [jdk11u](#) changes being integrated back to [jdk11u-dev](#). At the end of the month prior to the release month, a complete freeze will be announced for [jdk11u](#), allowing the maintainers of the security changes (currently Red Hat) to integrate these into the repository and perform final testing of the collected fixes in a secure, internal environment. On release day, the final batch of changes will be pushed to [jdk11u](#) and the final tags `jdk11.0.<n>+<build>` and `jdk11.0.<n>-ga` will be set. To complete the process, [jdk11u](#) changes are integrated back into [jdk11u-dev](#).

Release Engineers Checklist (TODO: Update for Git)

| When | What |
|-------------------------------------|---|
| Very early, e.g. 6 months before GA | Publish timeline on Wiki page |
| | Create release specific JBS filters, e.g. for monitoring backports to keep in sync with Oracle |
| Weekly During Initial Stage | Merge jdk11u-dev to jdk11u : 1. On jdk11u-dev repository: <pre>hg pull -u hg tag jdk-11.0.<n>+<build></pre> 2. On jdk11u repository: <pre>hg pull <jdk11u-dev repository location> ... after successful testing ... hg push ssh://<userid>@hg.openjdk.java.net/jdk-updates/jdk11u</pre> |
| Rampdown | Announce (short) freeze of jdk11u-dev for preparation of release 11.0.<n+1> on the mailing list |
| | Set status of jdk11u-dev to "closed" and jdk11u to "accepting fixes for 11.0.<n>" in Wiki |
| | Tag jdk11u-dev with <code>jdk11.0.<n+1>+0</code> : <pre>hg pull -u hg tag jdk-11.0.<n+1>+0 hg push ssh://<userid>@hg.openjdk.java.net/jdk-updates/jdk11u-dev</pre> |
| | Request new JBS version 11.0.<n+1> and change of hgupdater settings for jdk11u-dev codeline to honor new version on push |
| | Update JBS filter https://bugs.openjdk.java.net/issues/?filter=36558 that shows eligible critical fixes Add version 11.0.<n> to <code>fixVersion</code> |
| | Create patch to bump the version in jdk11u-dev to 11.0.<n+1>, look at JDK-8219710 for an example. |
| | Await confirmation for hgupdater change, then update Wiki to set status of jdk11u-dev to "accepting changes for 11.0.<n+1>", announce opening of jdk11u-dev for new release on mailing list |
| | Update https://bugs.openjdk.java.net/issues/?filter=36412 that shows eligible fixes for pushing Add version 11.0.<n+1> to <code>fixVersion</code> |

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|---|---|
| Weekly During Rampdown | <p>Tag jdk11u and merge back to jdk11u-dev:</p> <ol style="list-style-type: none"> 1. On jdk11u repository: <pre>hg pull -u hg tag jdk-11.0.<n>+ ... after successful testing ... hg push ssh://<userid>@hg.openjdk.java.net/jdk-updates/jdk11u</pre> 2. On jdk11u-dev repository: <pre>hg pull -u hg pull <jdk11u repository location> hg merge hg commit -m "Merge" ... after successful build ... hg push ssh://<userid>@hg.openjdk.java.net/jdk-updates/jdk11u-dev</pre> |
| Release day, once security changes and jdk-11.0.<n>-ga tag have been pushed | <p>Sync ga tag back to jdk11u-dev:</p> <ol style="list-style-type: none"> 1. On jdk11u repository: <pre>hg pull -u</pre> 2. On jdk11u-dev repository: <pre>hg pull -u hg pull <jdk11u repository location> hg merge hg commit -m "Merge" hg push ssh://<userid>@hg.openjdk.java.net/jdk-updates/jdk11u-dev</pre> |
| | Set status of jdk11u to "closed" |
| | Request new hgupdater setting for jdk11u codeline to honor version 11.0.<n+1> on push |