

Detailed Process Description

Release Process

The release cycle for release 8u<n> starts its initial stage in the [jdk8u-dev](#) repository as soon as the previous release enters its second stage and is confined to the [jdk8u](#) repository. The starting point is tagged with `jdk8u<n>-b00`. Once the previous release has happened, `jdk8u-dev` begins a cycle of being tagged on a weekly basis - when new changesets have been pushed - and the latest tag is promoted from [jdk8u-dev](#) to [jdk8u](#). The tags have the format of `jdk8u<n>-b<build>`, where `<n>` is the placeholder for the update release and `<build>` is the monotonically increasing double digit 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 [jdk8u](#), 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 [jdk8u](#) changes being integrated back to [jdk8u-dev](#). At the end of the month prior to the release month, a complete freeze will be announced for [jdk8u](#), 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 [jdk8u](#) and the final tags `jdk8u<n>-b<build>` and `jdk8u<n>-ga` will be set. To complete the process, [jdk8u](#) changes are integrated back into [jdk8u-dev](#).

Release Engineers Checklist

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 <code>jdk8u-dev</code> to <code>jdk8u</code> : 1. On <code>jdk8u-dev</code> repository: <pre>git pull git tag -a jdk8u<n>-b<build></pre> 2. On <code>jdk8u</code> repository: <pre>git pull <jdk8u-dev repository location> ... after successful testing ... git push</pre>
Rampdown	Announce (short) freeze of <code>jdk8u-dev</code> for preparation of release 8u<release after n> on the mailing list
	Set status of <code>jdk8u-dev</code> to "closed" and <code>jdk8u</code> to "accepting fixes for 8u<n>" in Wiki
	Tag <code>jdk8u-dev</code> with <code>jdk8u<release after n>-b00</code> : <pre>git pull git tag -a jdk8u<release after n>-b00 git push</pre>
	Request new JBS version <code>openjdk8u<release after n></code> and change of <code>hgupdater</code> settings for <code>jdk8u-dev</code> codeline to honor new version on push
	Update JBS filter https://bugs.openjdk.java.net/issues/?filter=39501 that shows eligible critical fixes Add version <code>openjdk8u<n></code> to <code>fixVersion</code>
	Await confirmation for <code>hgupdater</code> change, then update Wiki to set status of <code>jdk8u-dev</code> to "accepting changes for 8u<release after n>", announce opening of <code>jdk8u-dev</code> for new release on mailing list
	Update https://bugs.openjdk.java.net/issues/?filter=39500 that shows eligible fixes for pushing Add version <code>openjdk8u<release after n></code> to <code>fixVersion</code>

Weekly During Rampdown	<p>Tag jdk8u and merge back to jdk8u-dev:</p> <p>1. On jdk8u:</p> <pre>git pull -u git tag -a jdk8u<n>-b<build> ... after successful testing ... git push</pre> <p>2. On jdk8u-dev:</p> <pre>git pull git pull <jdk8u repository location> <resolve any merge issues> git commit -m "Merge" ... after successful build ... git push</pre>
Freeze	<p>Announce freeze of jdk8u for preparation of release 8u<n> on the mailing list.</p> <p>No more changes will be added to the public tree before release day.</p> <p>Security changes will be prepared in private.</p>
	Set status of jdk8u to "closed" on the Wiki
<p>Release day, once security changes and jdk8u<n>-ga tag have been pushed</p>	<p>Sync ga tag back to jdk8u-dev:</p> <p>1. On jdk8u:</p> <pre>git pull</pre> <p>2. On jdk8u-dev:</p> <pre>git pull git pull <jdk8u repository location> <resolve any merge issues> git commit -m "Merge" ... after successful build ... git push</pre>
	Request new hgupdater setting for jdk8u codeline to honor version openjdk8u<release after n> on push