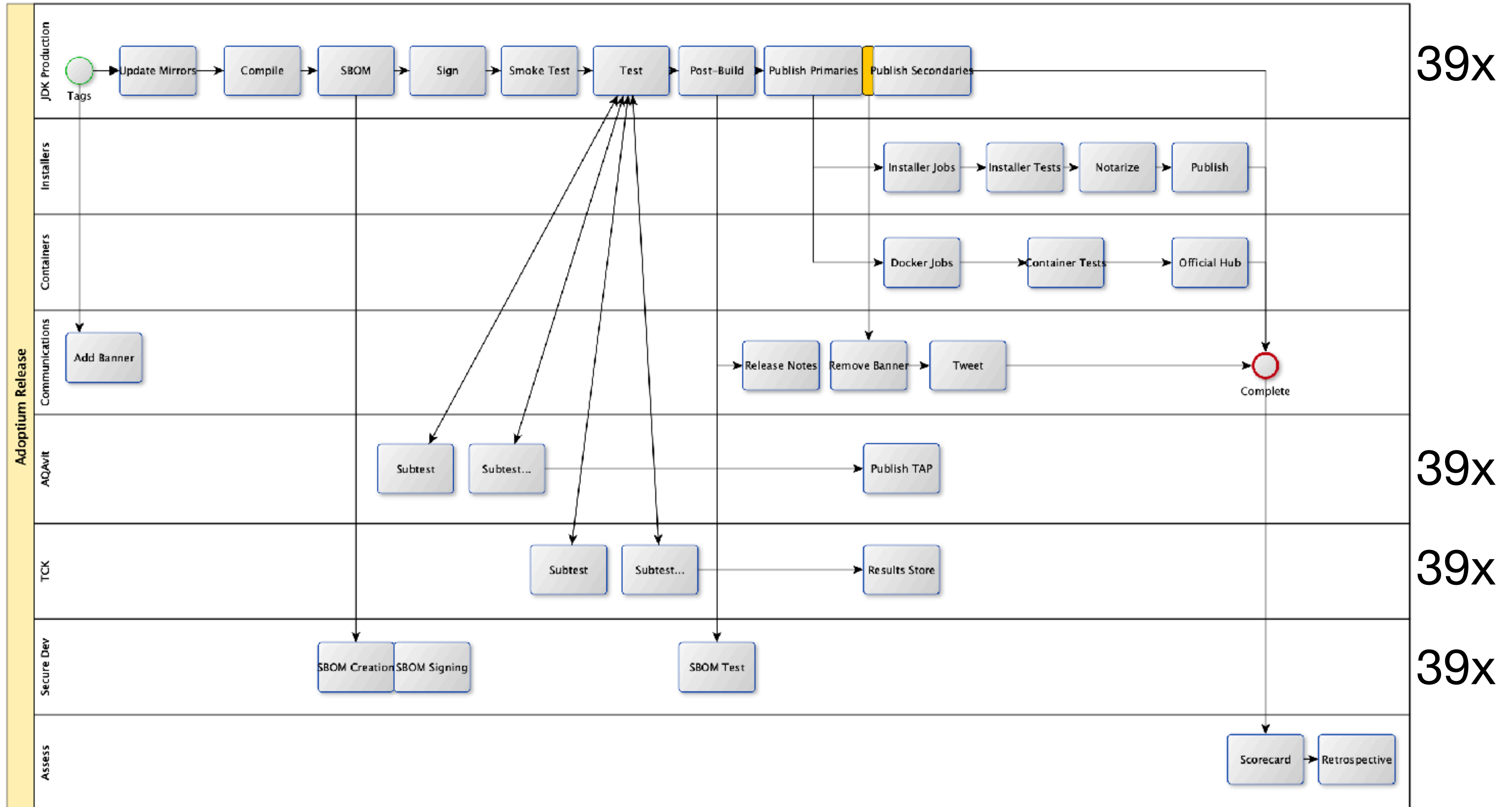# 30 000 foot view of Adoptium Release Activities

Nov 2023
Shelley Lambert

Big Picture

September Release

- JDK21, 7 products

- Delayed due to lack of TCK materials (new legal agreement, OCTLA v4, was required and needed to be arranged). Outside of our control.

- First time ever running JDK21 TCK

- Sept 19 tag available

- Oct 9, TCK received

- Oct 10-12, binaries published

▼ September 2023

Due to delays in getting TCK material (required legal work to gain access to OCTLAv4), we only received access to JDK21 material on October 9th. Adding a column below, to account for that delay in terms of "elements outside of our control" towards achieving our release targets.

Release activity	Score (% within target)	Days Over Target	Days Under Target	Notes
jdk-21-ga	On-Time 6(86%) Late: 1(14%) **Adjusted**	1	13	TCK access received Oct 9th due to new OCTLAv4 agreement

Tag	Tagged Date	Commit Date	Days
jdk-21-ga	Wed Aug 9 20:19:41 UTC 2023	Tue Sep 19 19:41:37 UTC 2023	-40
jdk-21+35_adopt	Thu Aug 10 16:08:14 UTC 2023	Thu Aug 10 16:08:14 UTC 2023	0

Platform	OS	Released	Target/Actual(days)	On-time	Days to release adjusted 10-09-2023 TCK access	RTAG
x64	linux	10-10-2023	2/22	No	1	jdk-21+35_adopt
aarch64	linux	10-10-2023	2/22	No	1	jdk-21+35_adopt
x64	alpine-linux	10-10-2023	7/22	No	1	jdk-21+35_adopt
x64	mac	10-11-2023	2/23	No	2	jdk-21+35_adopt
x64	windows	10-11-2023	2/23	No	2	jdk-21+35_adopt
aarch64	alpine-linux	10-11-2023	7/23	No	2	jdk-21+35_adopt
aarch64	mac	10-12-2023	2/24	No	3	jdk-21+35_adopt

On-Time 0(0%) Late: 7(100%)
On-Time 6(86%) Late: 1(14%) Adjusted to TCK access

October Release

- 39 products

- Snowball effect of late Sept release eating into prep time for Oct + release fatigue

- Temurin-Compliance short-staffed

- Signing service failures

- Windows and Mac rebuilds required (lesson: new triagers should be given more guidance/ oversight)

- Rebuilds are expensive

▼ October 2023

OCTLAv4 delays in getting TCK material for JDK21 (received October 9th, so completing September release during release prep week for October).

Release activity	Score (% within target)	Days Over Target	Days Under Target	Notes
jdk8u392	On-Time 4(40%) Late: 6(60%)	19	7	
jdk-11.0.21	On-Time 7(70%) Late: 3(30%)	7	17	
jdk-17.0.9	On-Time 7(64%) Late: 4(36%)	13	11	Win64 and Win32 rebuilds required
jdk-21.0.1	On-Time 3(38%) Late: 5(62%)	19	5	Win64 rebuild required

x64	mac	10-24-2023	2/5	No	jdk-21.0.1+12_adopt

Platform	OS	Released	Target/Actual(days)	On-time	RTAG
x64	windows	10-27-2023	2/9	No	jdk-21.0.1+12_adopt

Platform	OS	Released	Target/Actual(days)	On-time	RTAG
x64	windows	10-27-2023	2/9	No	jdk-17.0.9+9_adopt
x32	windows	10-27-2023	7/9	No	jdk-17.0.9+9_adopt

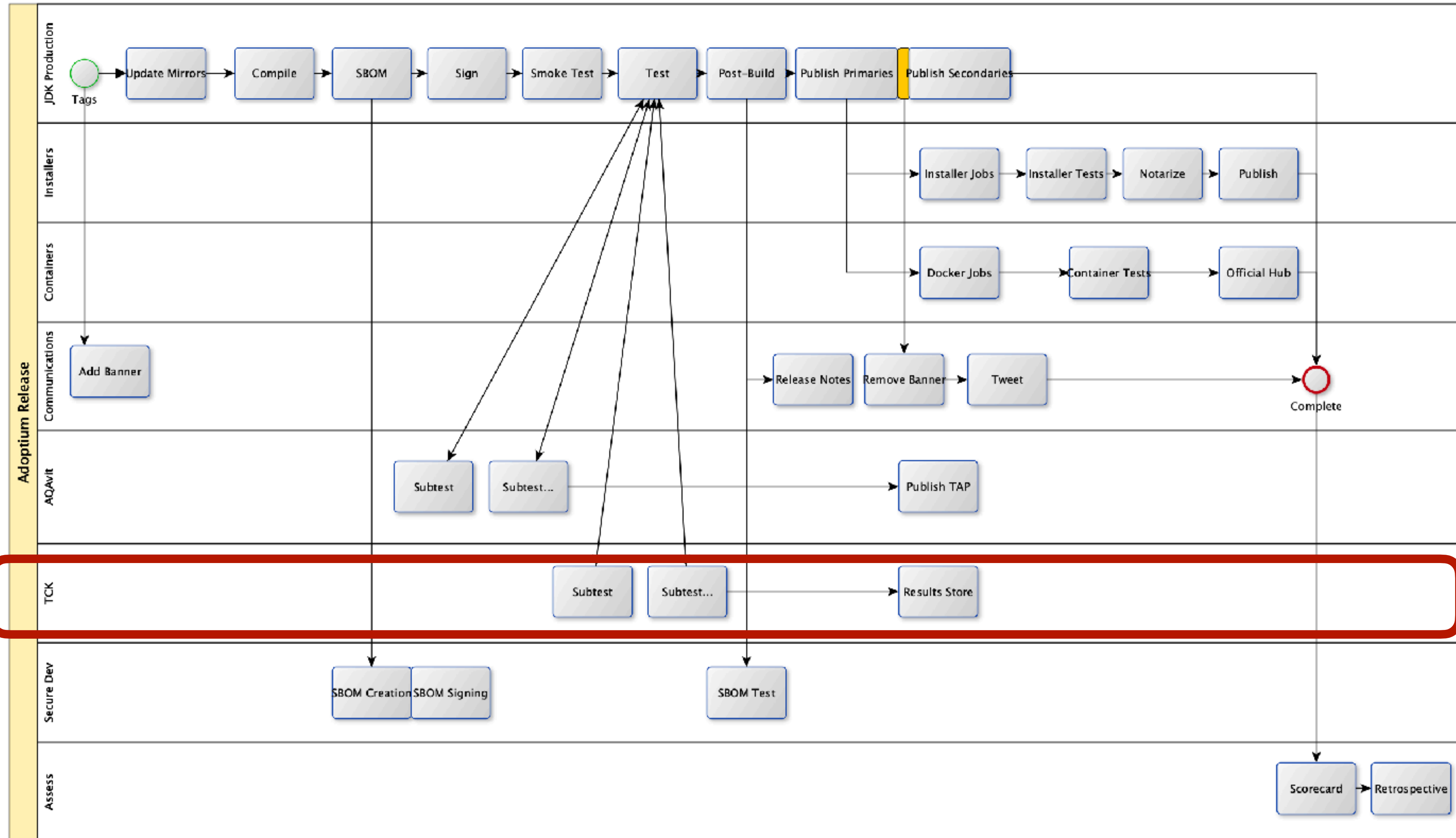| x64	mac	10-25-2023	2/7	No	jdk8u392-b08_adopt

Golf Scores

▼ Retrospective 'Golf Score' – Compare & Track Progress Across All Releases

Total days over target is the sum of days past the target it took to complete the entire release, the smaller the number, the better. *Total days under target* is the sum of the days we were early to release platforms and versions ahead of the target for the release, the bigger, the better. Combining the two, we can then create a succinct metric, 'Days Over minus Days Under' which, like a golf score where **the lower the number, the better we did.**
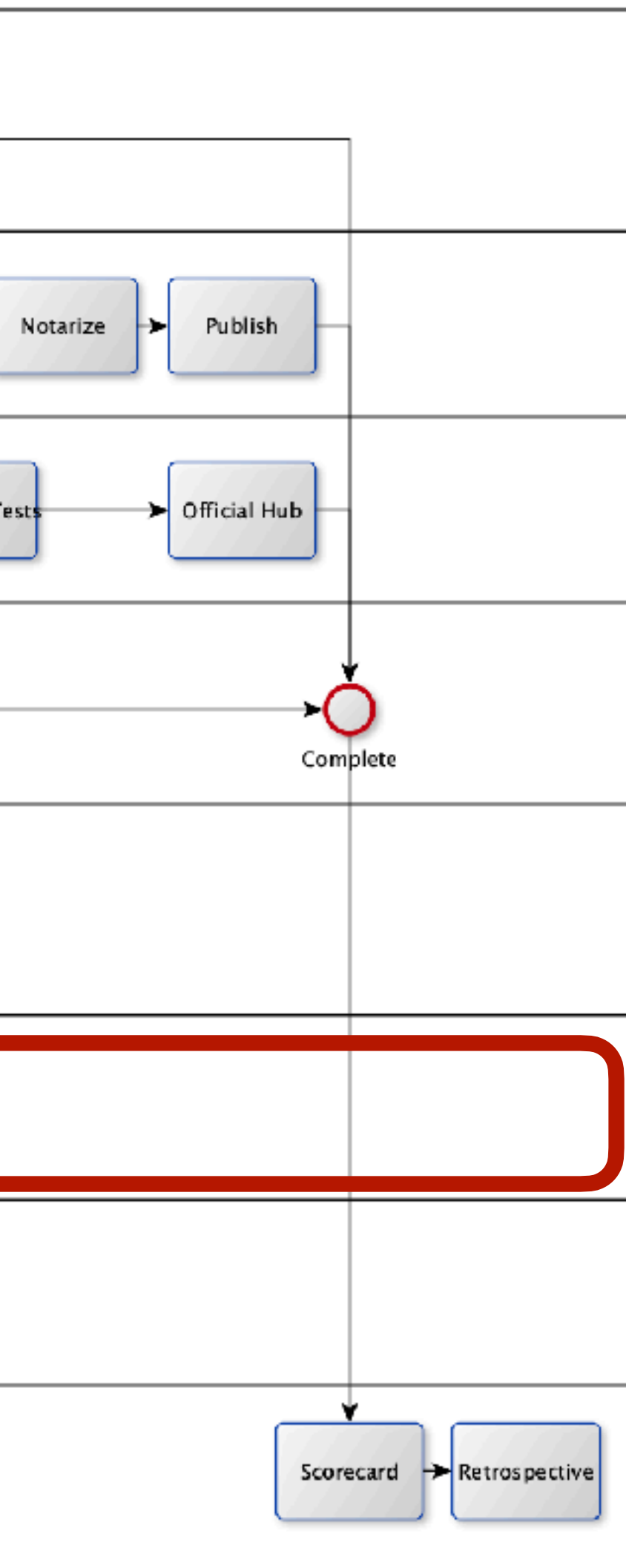
Release	Total Days Over Target	Total Days Under Target	Days Over minus Days Under
Oct 2023	58	40	18
Sep 2023 *OCTLAv4 adjustment	1	13	-12
Jul 2023	17	56	-39
Apr 2023	4	55	-51
Mar 2023	0	27	-27
Jan 2023	13	49	-36
Oct 2022	260	3	257

https://github.com/adoptium/adoptium/wiki/Adoptium-Release-Scorecards

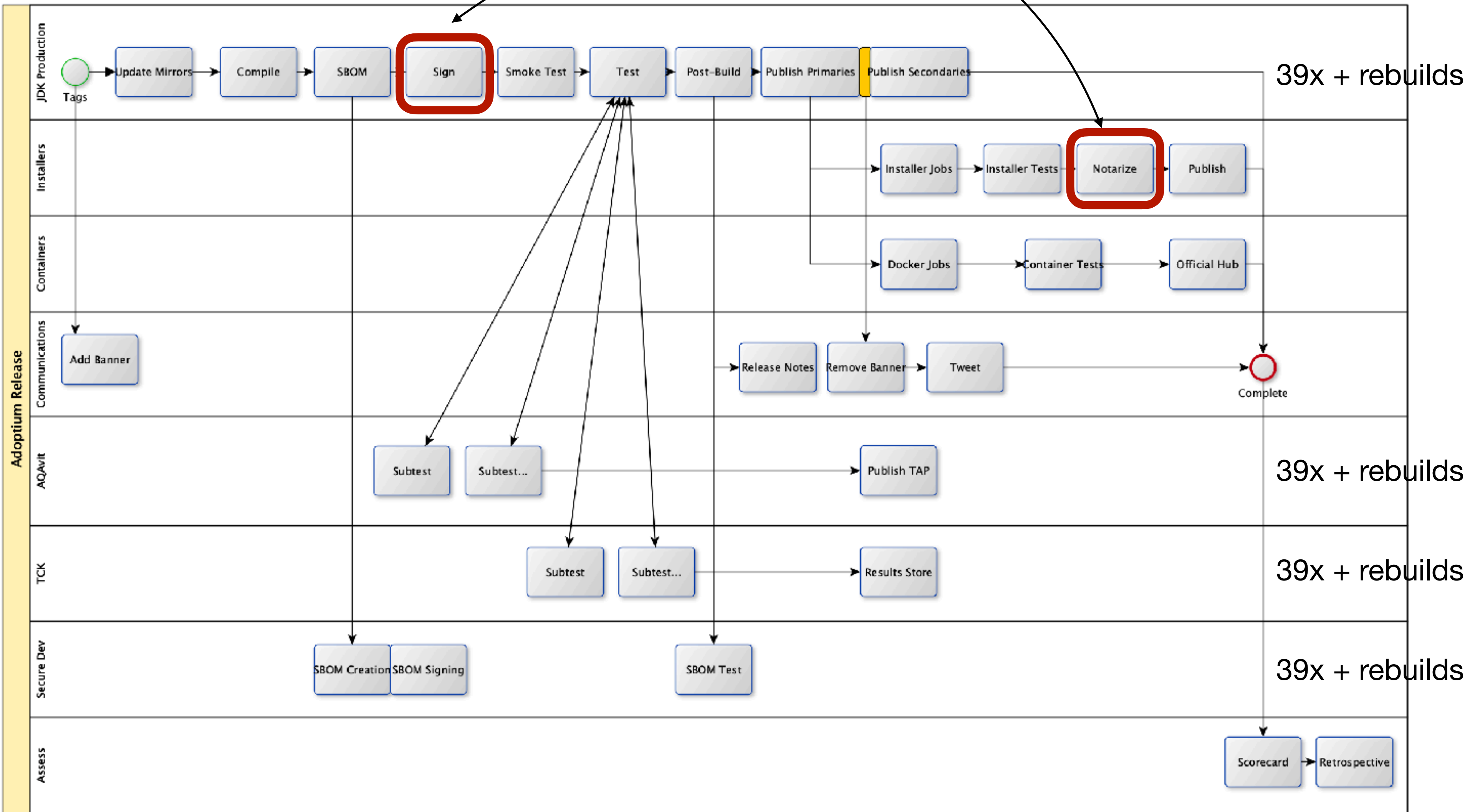# "Big picture" thinking

Summary

- **Truly amazing scorecards** given the challenges faced and overcome in Sept and Oct

- Continue to:

  - Assess and adjust based on metrics

  - Identify root problems

  - Prioritize fixes for "high impact" issues

  - Reduce complexity & length of the release checklist (more automation)

  - Stabilize infrastructure layer so less time spent on triage

  - Meet or exceed our targets (2 days for primaries, 7 days for secondaries)