



KubeCon



CloudNativeCon

Europe 2023



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Europe 2023

Kubernetes Release Team The Whys & Hows, Ways & Means!

*Priyanka Saggu, SUSE
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Who Are We?

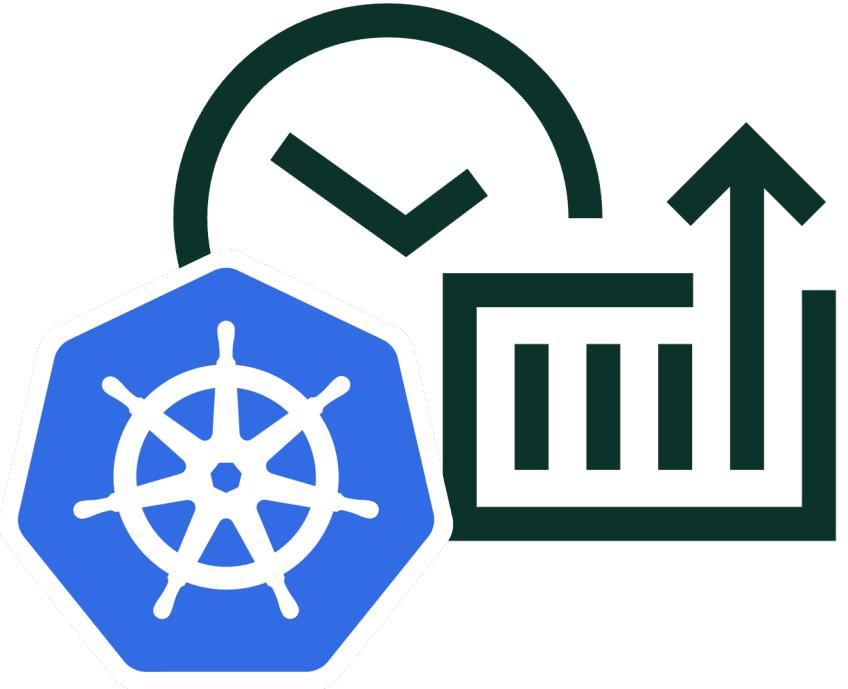
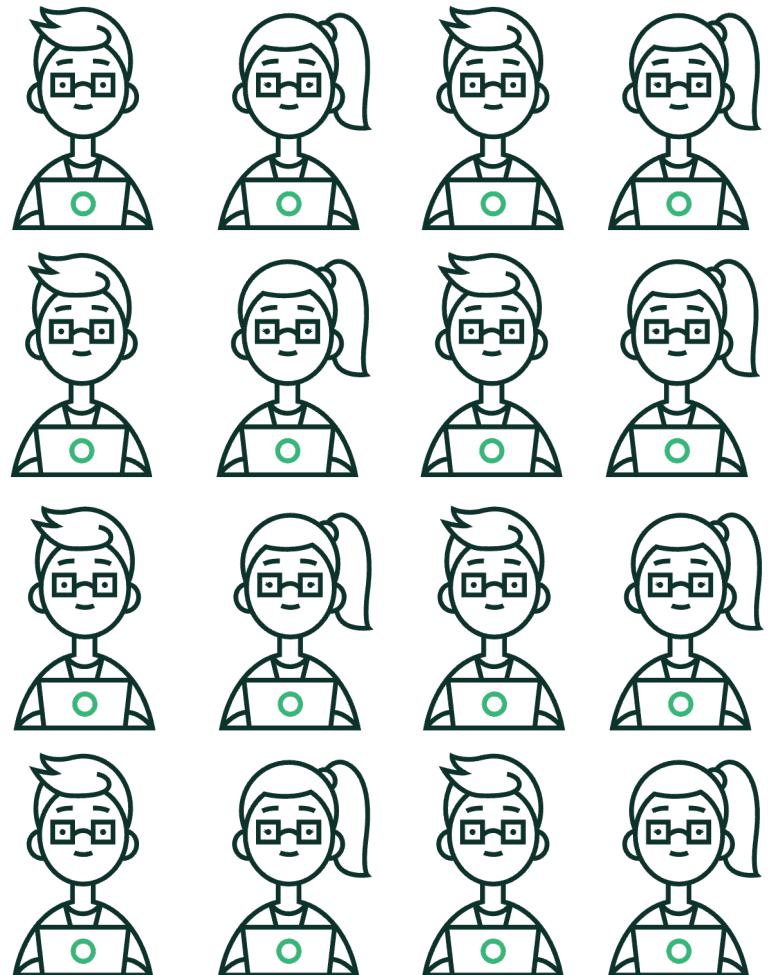


Priyanka Saggur
 @_psaggu



Rey Lejano
 @reylejano

Release Team



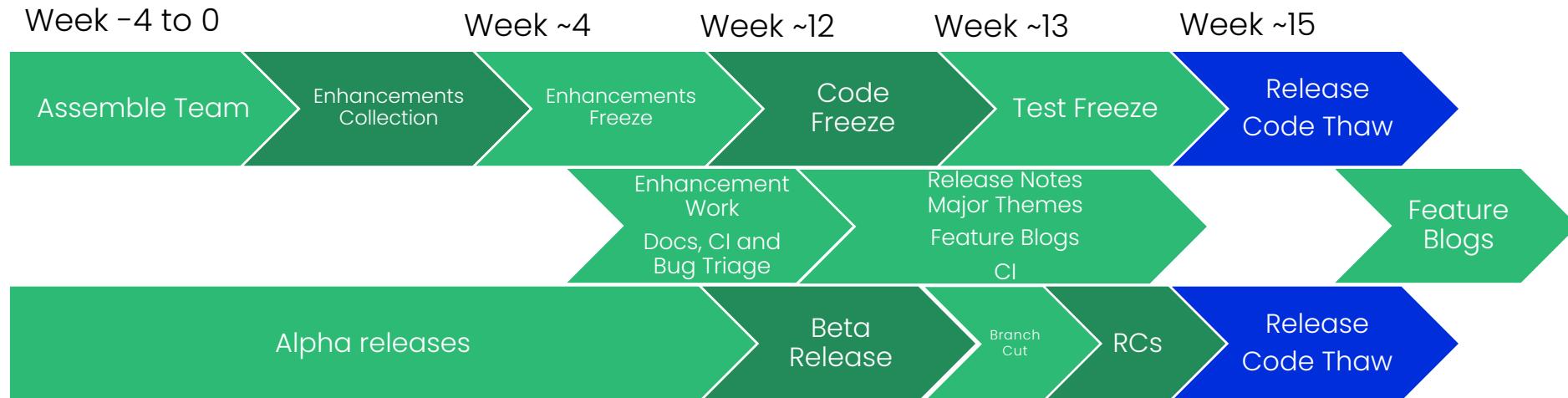
Grows the community



Release Cycle

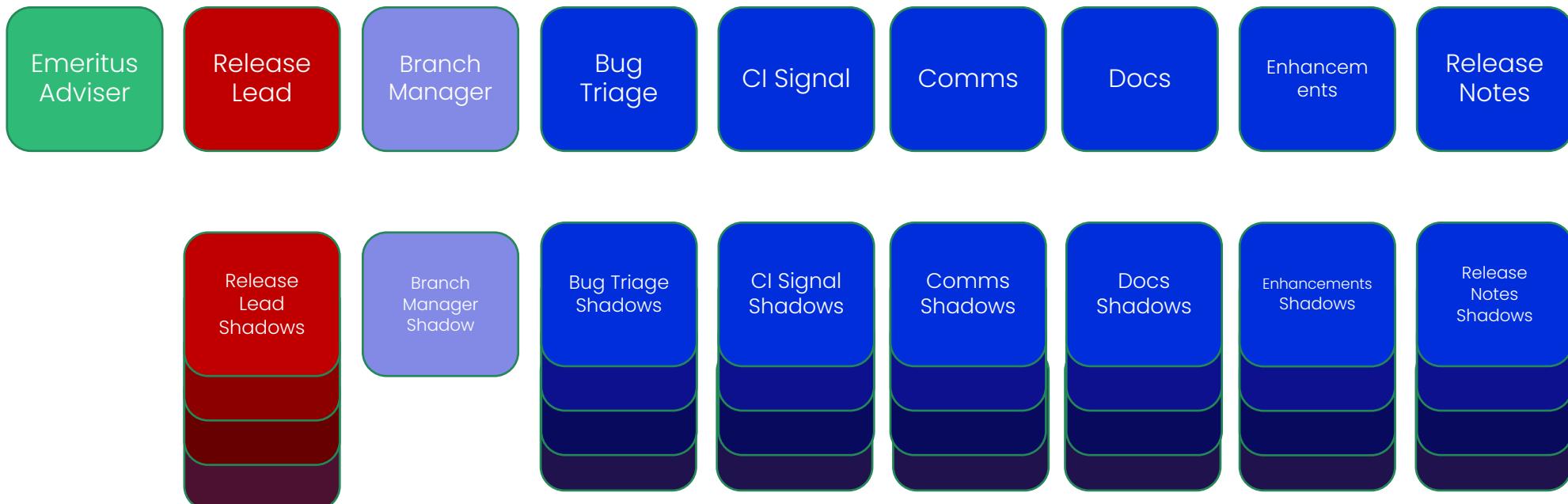
3 release a year

- ~15 week cycle
- 2 week break between cycles
- delays can change the release cycle and also impact following releases for the year



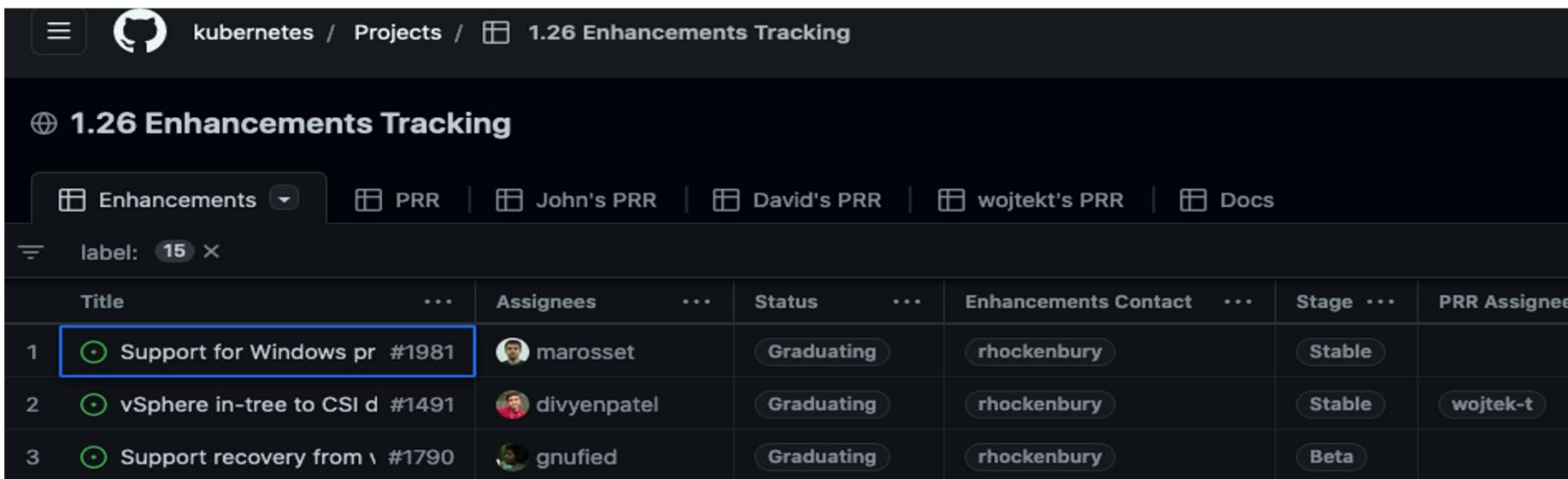
Release Team

- Made up of ~35-40 community members
- 9 roles
- Most roles have ~4 shadows



Enhancements

- Track Enhancements for a release
- SIG leads opt-in KEPs into a release cycle during the Enhancements collection/opt-in period
- KEPs have a tracking issue in kubernetes/enhancements
- Issue used to track the progress of the KEP as it's introduced as Alpha, graduates to Beta, graduates to GA



The screenshot shows a GitHub repository interface for the 'kubernetes' project, specifically the '1.26 Enhancements Tracking' issue list. The interface includes a header with navigation links for 'Enhancements', 'PRR', 'John's PRR', 'David's PRR', 'wojtekt's PRR', and 'Docs'. A search bar is labeled 'label: 15'. The main table lists three enhancement issues:

Title	Assignees	Status	Enhancements Contact	Stage	PRR Assignee
1 Support for Windows pr #1981	marosset	Graduating	rhockenbury	Stable	
2 vSphere in-tree to CSI d #1491	divyenpatel	Graduating	rhockenbury	Stable	wojtek-t
3 Support recovery from \ #1790	gnufied	Graduating	rhockenbury	Beta	

CI Signal

- Monitor e2e test
- Find flakes on pre-submits that can block
- Triaging issues to the appropriate SIG
- Provide weekly reports to contributors

sig_release	sig-release-master-blocking	sig-release-master-informing	sig-release-1.27-blocking	sig-release-1.27-informing	sig-release-1.26-blocking	sig-release-1.26-informing	sig-release-1.25-blocking	sig-release-1.25-informing	sig-release-1.24-blocking	sig-release-1.24-informing	sig-release-1.23-blocking	sig-release-1.23-informing	sig-release-releng-blocking	sig-release-releng-informing	sig-release-releng-presubmits	sig-release-image-pushes	sig-release-publishing-bot	sig-release-release-notes-presubmits	sig-release-job-config-errors	sig-release-release-team-periodics	⚙️
Summary																					
build-master	build-master-fast	conformance-ga-only	gce-device-plugin-gpu-master	skew-cluster-latest-kubectl-stable1-gce	gce-cos-master-default	gce-cos-master-alpha-features	gci-gce-ingress	gce-cos-master-reboot	gce-cos-master-scalability-100	gce-ubuntu-master-containerd	Conformance - GCE - master - kubetest2	integration-master	kind-master-parallel	kind-ipv6-master-parallel	ci-node-e2e	ci-kubernetes-unit	verify-master	Last green run: 8d494c49d	Last update: 04-20 22:15 CEST	Tests last ran: 04-20 22:15 CEST	Last green run: 8d494c49d
✓ build-master-fast: PASSING																			Last update: 04-20 22:12 CEST	Tests last ran: 04-20 15:38 CEST	Last green run: bda7e8979
✓ conformance-ga-only: PASSING																			Last update: 04-20 22:12 CEST	Tests last ran: 04-20 21:30 CEST	Last green run: 8d494c49d
✓ gce-device-plugin-gpu-master: PASSING																			Last update: 04-20 22:13 CEST	Tests last ran: 04-20 19:41 CEST	Last green run: bda7e8979
✓ skew-cluster-latest-kubectl-stable1-gce: PASSING																			Last update: 04-20 22:19 CEST	Tests last ran: 04-20 22:19 CEST	Last green run: 8d494c49d
✓ gce-cos-master-default: PASSING																			Last update: 04-20 22:21 CEST	Tests last ran: 04-20 22:21 CEST	Last green run: 8d494c49d
✓ gce-cos-master-alpha-features: PASSING																			Last update: 04-20 22:10 CEST	Tests last ran: 04-20 21:09 CEST	Last green run: bda7e8979
⊖ gci-gce-ingress: FLAKY																			Last update: 04-20 22:11 CEST	Tests last ran: 04-20 21:09 CEST	Last green run: bda7e8979

Bug Triage

- Triage issues and pull requests targeted for a release
- Track potential and actual release-blocking issues

The image displays two side-by-side screenshots of GitHub search results, illustrating the process of triaging bugs and pull requests.

Top Screenshot (Issues):

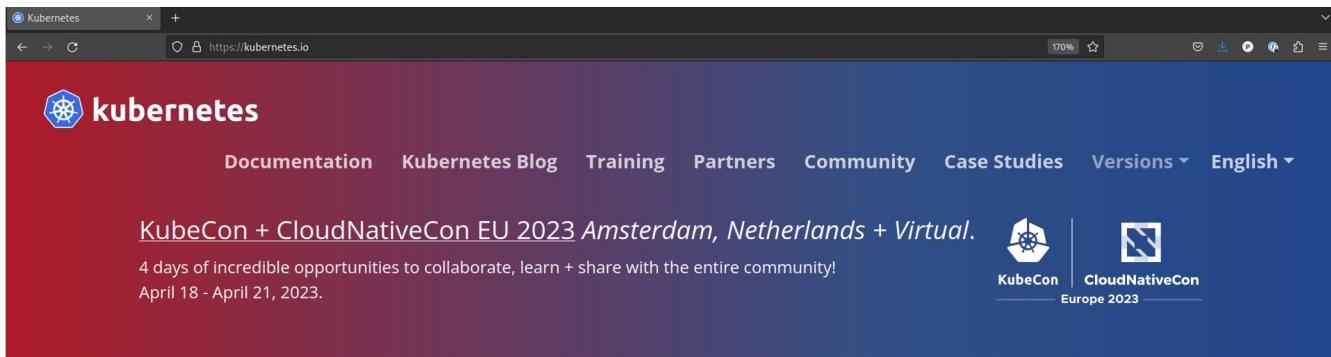
- Search Query:** is:issue milestone:v1.23 label:priority/critical-urgent is:closed
- Results:** 9 Closed issues
- Example Issue #106798:** [dockershim.sock in 1.23 only supports v1 of CRI and tools dependent on v1alpha2 will not work](#) (kind/bug, kind/regression, priority/critical-urgent, sig/node, triage/accepted). Closed by SergeyKanzhelev on Dec 3, 2021, merged into v1.23.
- Example Issue #106772:** [grpc field name in probes is not consistent between json and proto](#) (kind/bug, priority/critical-urgent, sig/node, triage/accepted). Closed by SergeyKanzhelev on Dec 2, 2021, merged into v1.23.

Bottom Screenshot (Pull Requests):

- Search Query:** is:pr milestone:v1.23 label:priority/critical-urgent is:closed
- Results:** 57 Closed pull requests
- Example PR #111804:** [Automated cherry pick of #111773: fix a memory leak problem when calling DryRunPreemption](#) (approved, cherry-pick-approved, cncf-cla: yes, kind/bug, lgtm, ok-to-test, priority/critical-urgent, release-note, sig/scheduling, size/XS, triage/accepted). Merged by amewayne 10 days ago, merged into v1.23.
- Example PR #111721:** [Automated cherry pick of #111721: Fix deleting UIDs tracking expectations](#) (approved, cherry-pick-approved, cncf-cla: yes, kind/bug, kind/regression, lgtm, priority/critical-urgent, release-note, sig/apps, size/S, triage/accepted). Merged by alculquicondor 13 days ago, approved, merged into v1.23.

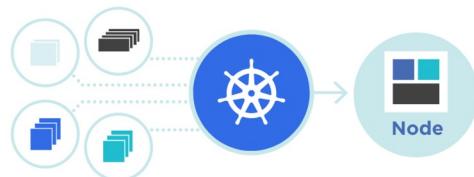
Documentation

- New and graduating features have appropriate documentation
- Generate API, kubeadm, kubectl reference docs



Kubernetes, also known as K8s, is an open-source system for automating deployment, scaling, and management of containerized applications.

It groups containers that make up an application into logical units for easy management and discovery. Kubernetes builds upon 15 years of experience of running production workloads at Google, combined with best-of-breed ideas and practices from the community.



[Kubernetes Documentation](#) / [Reference](#) / [Component tools](#) / [Feature Gates](#)

Feature Gates

This page contains an overview of the various feature gates an administrator can specify on different Kubernetes components.

See [feature stages](#) for an explanation of the stages for a feature.

[Kubernetes Documentation](#) / [Reference](#) / [API Overview](#) / [Deprecated API Migration Guide](#)

Deprecated API Migration Guide

As the Kubernetes API evolves, APIs are periodically reorganized or upgraded. When APIs evolve, the old API is deprecated and eventually removed. This page contains information you need to know when migrating from deprecated API versions to newer and more stable API versions.

Communications

- Curates the official Release blog, feature blogs.
- Coordinates release-related webinars, interviews, press releases



The screenshot shows a blog post titled "Kubernetes 1.23: The Next Frontier" published on Tuesday, December 07, 2021. The post is authored by the "Kubernetes 1.23 Release Team". The text of the post announces the release of Kubernetes 1.23, the last release of 2021. It highlights 47 enhancements, including 11 graduated to stable, 17 moving to beta, and 19 entering alpha, along with one deprecated feature. To the left of the main content is a sidebar with a search bar and a list of years: 2023, 2022, and 2021. The 2021 section contains links to "Kubernetes-in-Kubernetes and the WEDOS PXE bootable server farm" and "Using Admission Controllers to". On the right side of the post, there is a sidebar with various links: RSS Feed, Submit a Post, @Kubernetesio, on GitHub, #kubernetes-users, Stack Overflow, Forum, and Kubernetes.

Kubernetes 1.23: The Next Frontier

Tuesday, December 07, 2021

Authors: Kubernetes 1.23 Release Team

We're pleased to announce the release of Kubernetes 1.23, the last release of 2021!

This release consists of 47 enhancements: 11 enhancements have graduated to stable, 17 enhancements are moving to beta, and 19 enhancements are entering alpha. Also, 1 feature has been deprecated.

2023

2022

2021

Kubernetes-in-Kubernetes and the WEDOS PXE bootable server farm

Using Admission Controllers to

RSS Feed

Submit a Post

@Kubernetesio

on GitHub

#kubernetes-users

Stack Overflow

Forum

Kubernetes

Release Notes

- Generate and edit release notes
- Iterate on tool to scrape GitHub PRs to create release notes

The screenshot shows a web browser displaying the URL <https://relnotes.k8s.io/?releaseVersions=1.23.0>. On the left, there is a sidebar with checkboxes for filtering by category: feature, flake, regression, and releaseVersion. Under releaseVersion, '1.23.0' is checked. The main area lists three pull requests:

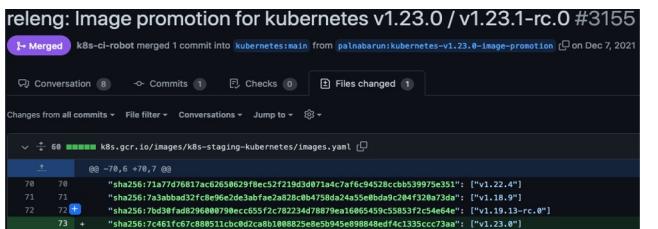
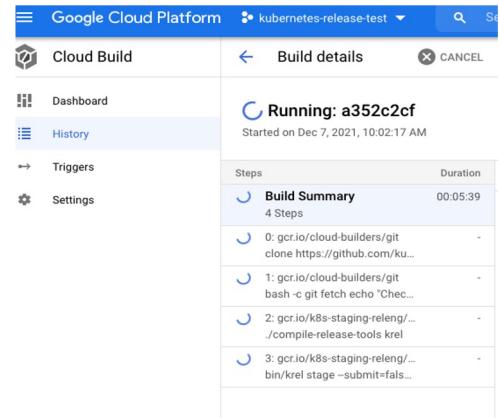
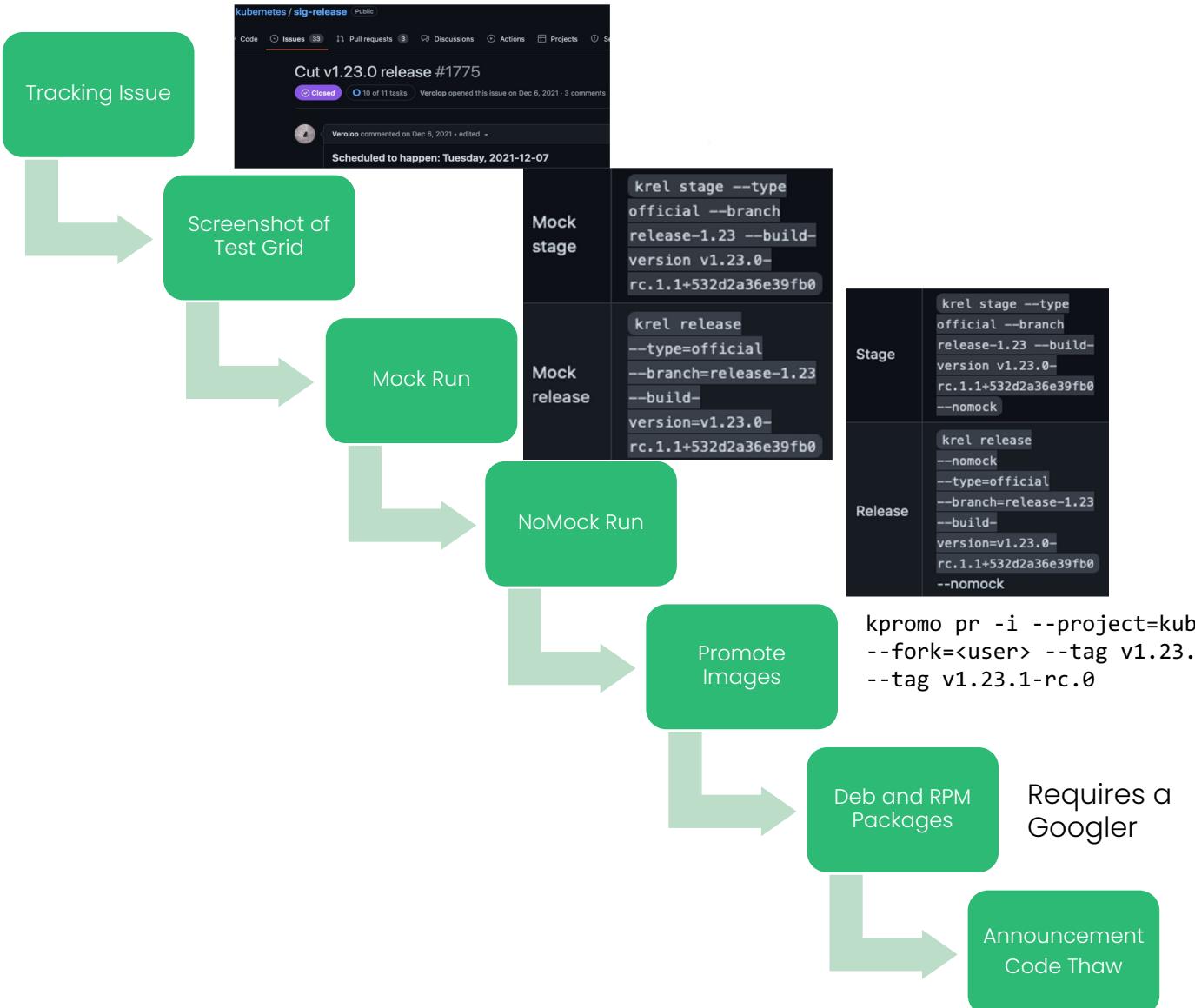
- #92433 by claudiubelu: The etcd container image now supports Windows. (#92433, @claudiubelu)
- #92853 by cosmo0920: Add mechanism to load simple sniffer class into fluentd-elasticsearch image (#92853, @cosmo0920)
- #92989 by WLun001: Add fish shell completion to kubectl. (#92989, @WLun001)

Each PR entry includes the author's name, the PR number, the user who opened it, and a set of labels indicating the type of change (e.g., release-eng, feature, windows, api-machinery, provider/gcp, cloud-provider, instrumentation, kubectl, feature, cli).

The screenshot shows a browser window displaying the Kubernetes CHANGELOG page at [kubernetes / CHANGELOG / CHANGELOG-1.23.md](#). The top navigation bar shows the dropdown is set to 'release-1.23'. The page header indicates it was updated by 'k8s-release-robot' for v1.23.17. Below the header, there are tabs for Preview, Code, and Blame, with 'Preview' selected. The content area lists the changes for v1.23.17:

- v1.23.17
 - Downloads for v1.23.17
 - Source Code
 - Client Binaries
 - Server Binaries
 - Node Binaries
 - Container Images
 - Changelog since v1.23.16
 - Changes by Kind
 - Feature
 - Bug or Regression
 - Dependencies
 - Added
 - Changed
 - Removed

Cutting the Release



Upcoming ~1.28 Release Cycle

Shadow Application Closes: Tue, May 2, 2023 (23:59 UTC)

- Release Team Shadow Notifications: **9th May 2023**
- Release Start date: **15th May 2023**
- Planned release date: **15th August 2023**
- Release Team Lead: **Grace Nguyen**
- Release Team Emeritus Adviser: **Leonardo Pahlke**

Scan to Apply





Scan the QR Code to leave feedback

Questions!