

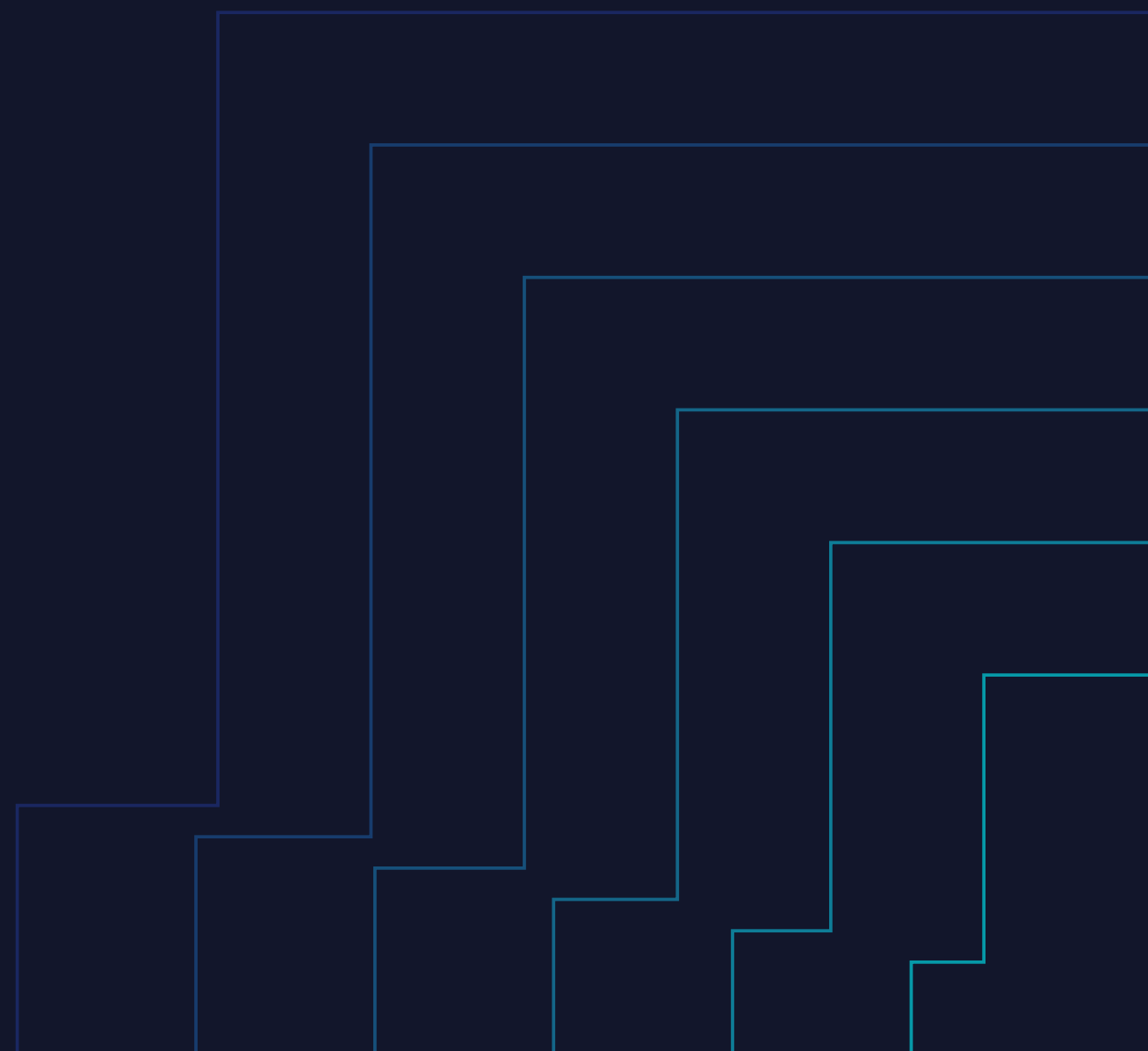


Releasing a Linux based OS

An overview of Flatcar release cycle

FOSDEM 2024 – Brussels, Belgium

4th February 2024



Hello 🙌



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Flatcar



Containers



Automatic updates



Immutable

Inside the box

```
core@localhost ~ $ touch /usr/foo
touch: cannot touch '/usr/foo': Read-only file system
core@localhost ~ $ sudo !!
sudo touch /usr/foo
touch: cannot touch '/usr/foo': Read-only file system
core@localhost ~ $ apt
-bash: apt: command not found
core@localhost ~ $ emerge
-bash: emerge: command not found
core@localhost ~ $ yum
-bash: yum: command not found
core@localhost ~ $ dnf
-bash: dnf: command not found
core@localhost ~ $ pacman
-bash: pacman: command not found
```

SSH on Flatcar instance

Maintaining the system



<https://github.com/flatcar/Flatcar/issues?q=is%3Aissue+is%3Aopen+label%3Aadvisory>

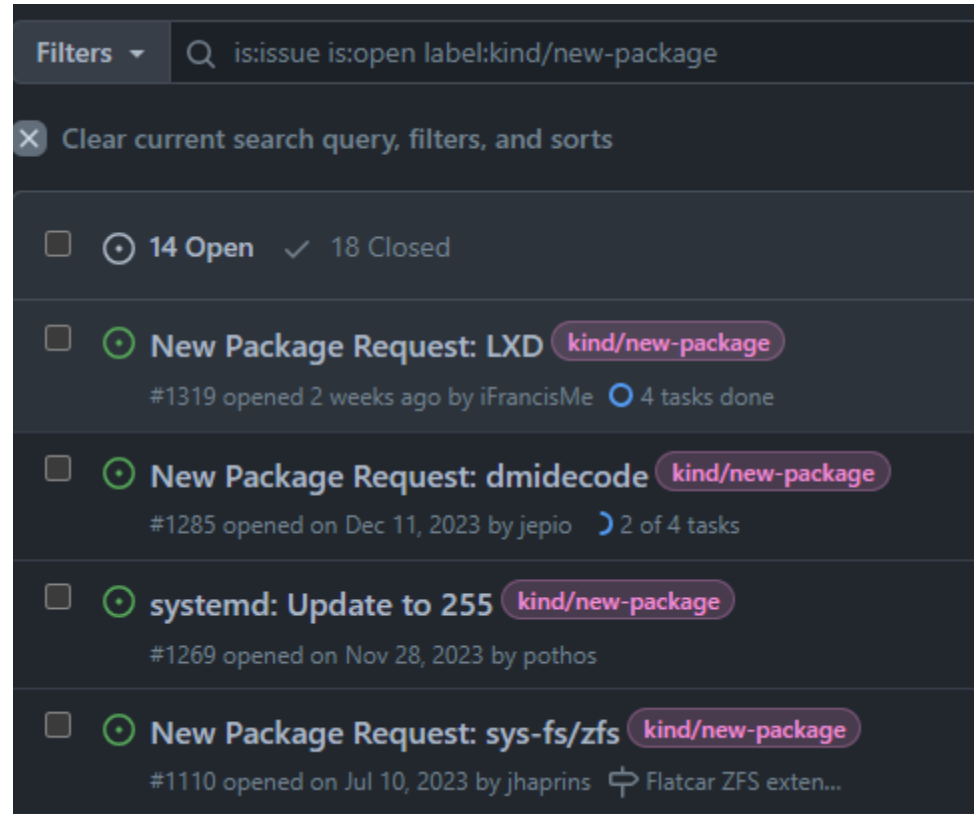
Filters ▾

✕ Clear current search query, filters, and sorts

16 Open ✓ 57 Closed

- update: runc** advisory cvss/HIGH security
#1338 opened 1 hour ago by t-lo
- update: docker** advisory cvss/MEDIUM security
#1337 opened 2 hours ago by t-lo
- update: sys-apps/coreutils** advisory security
#1325 opened 2 weeks ago by tormath1
- update: net-libs/gnutls** advisory cvss/MEDIUM security
#1322 opened 2 weeks ago by tormath1
- update: dev-libs/openssl** advisory cvss/LOW security
#1320 opened 2 weeks ago by tormath1

Maintaining the system



The screenshot shows a GitHub search interface with the following elements:

- Filters:** A dropdown menu is open, showing a search query: `is:issue is:open label:kind/new-package`.
- Clear Search:** A button with an 'X' icon and the text "Clear current search query, filters, and sorts".
- Summary:** A row showing "14 Open" (with a green circle icon) and "18 Closed" (with a checkmark icon).
- Issue List:** A list of four issues, each with a checkbox, a green circle icon, a title, a label, and additional details:
 - Issue 1:** "New Package Request: LXD" with label "kind/new-package". Details: "#1319 opened 2 weeks ago by iFrancisMe 4 tasks done".
 - Issue 2:** "New Package Request: dmidecode" with label "kind/new-package". Details: "#1285 opened on Dec 11, 2023 by jepio 2 of 4 tasks".
 - Issue 3:** "systemd: Update to 255" with label "kind/new-package". Details: "#1269 opened on Nov 28, 2023 by pothos".
 - Issue 4:** "New Package Request: sys-fs/zfs" with label "kind/new-package". Details: "#1110 opened on Jul 10, 2023 by jhaprins Flatcar ZFS exten...".

New packages requests on GitHub

Office hours

t-lo 3 weeks ago Maintainer edited ...

- Jitsi: <https://meet.flatcar.org/OfficeHours>
- Youtube live stream / recording: **tbd** (Link will be updated to the live stream when the meeting starts)
 - All recordings: <https://www.youtube.com/@FlatcarLinux/live>
- Community Calls calendar (all future calls): [Google Calendar](#)
 - iCal version: [ical](#)

Welcome

- Brief intro/check-in of the new participants joining the call. Please introduce yourself and share what brings you here today.

Agenda items

- News and happenings in and around Flatcar
- ...tbd...

Release Planning

- <https://github.com/orgs/flatcar/projects/7/views/8>

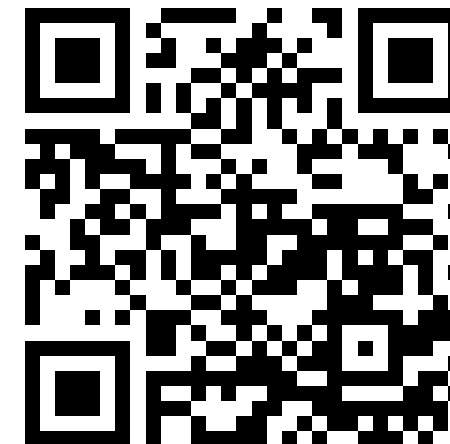
Administrative tasks after meeting concluded

- Create a new Github discussion for the next Flatcar Office Hours: <https://github.com/flatcar/Flatcar/discussions/new?category=flatcar-office-hours>
- Close this discussion as "Resolved".

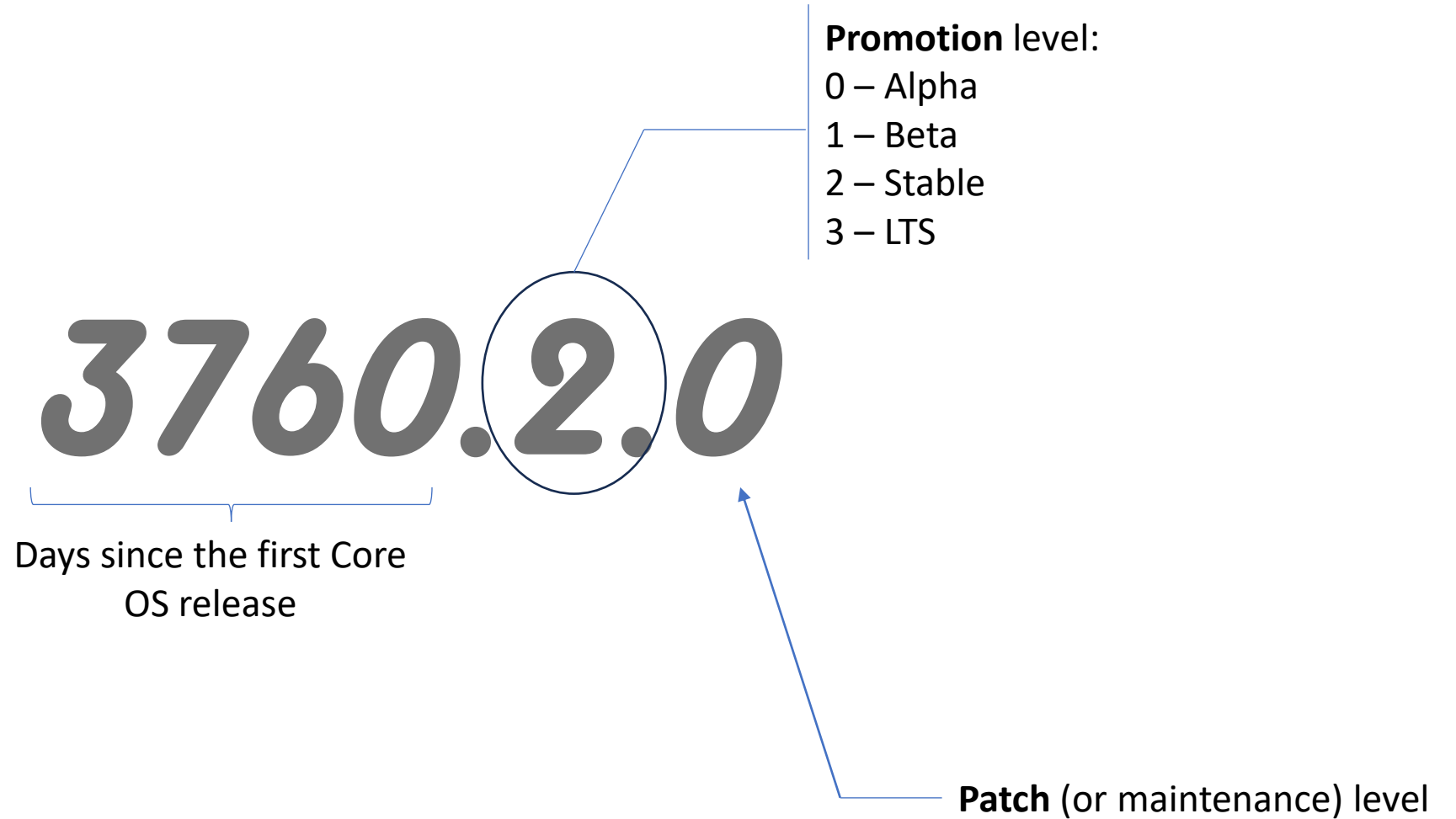
↑ 1 😊



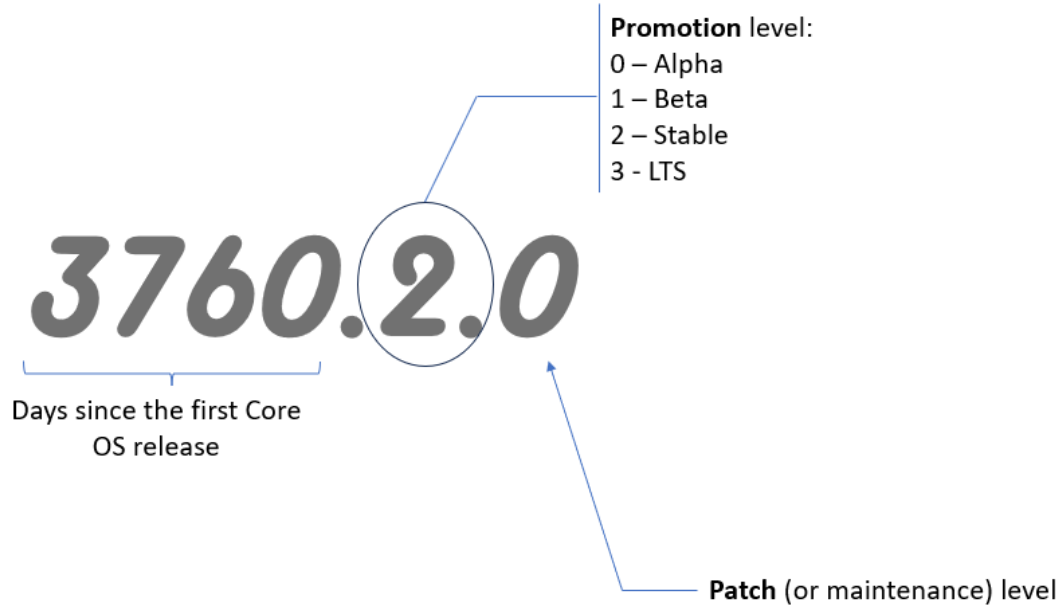
Next is 13th of Feb.



(Demystifying the Flatcar version number)

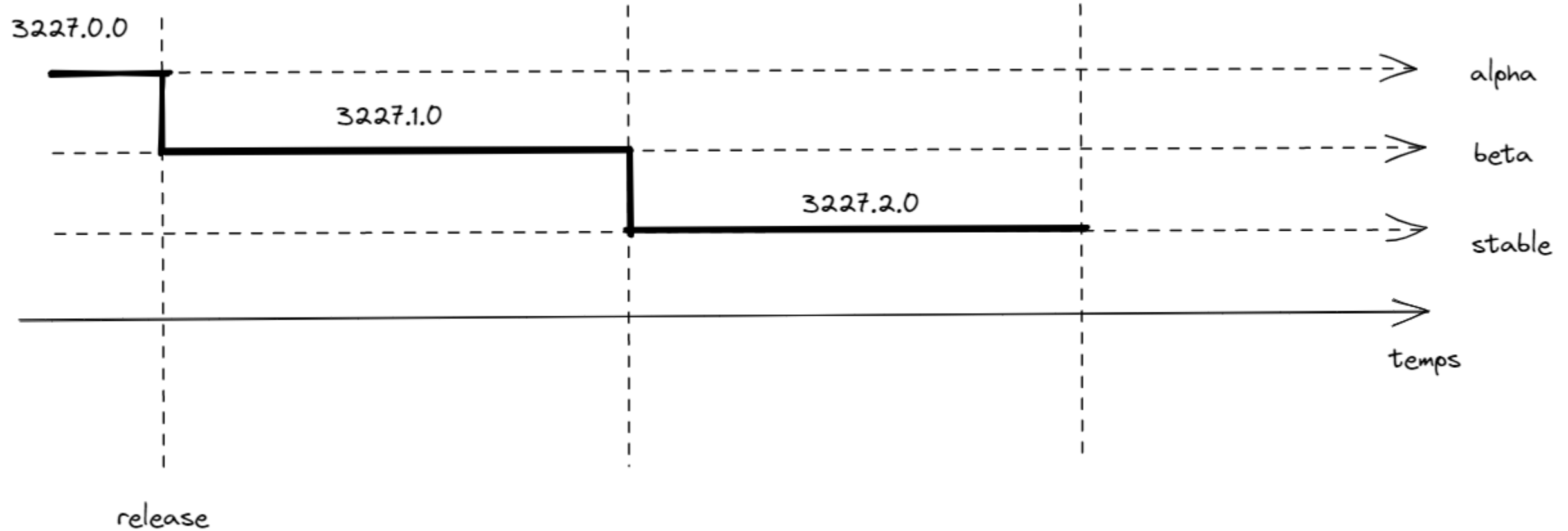


(Demystifying the Flatcar version number)

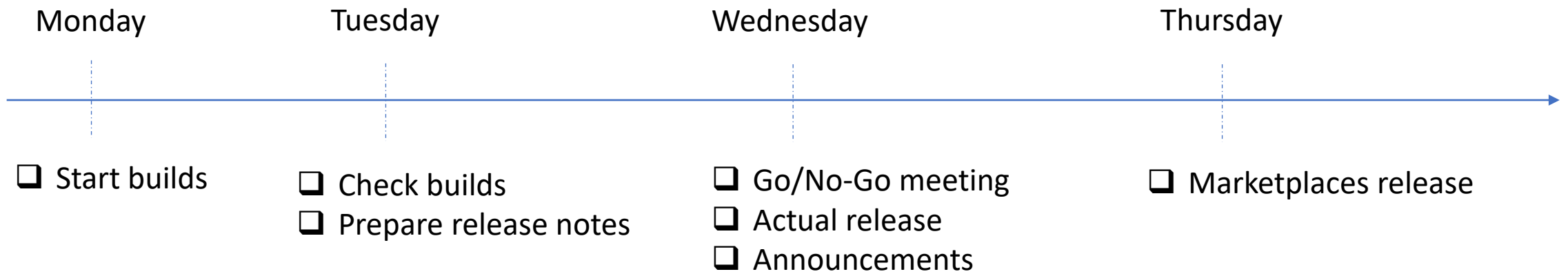


- 3760.2.0: New major stable
- 3602.1.6: New maintenance (or patch) beta
- 3850.0.0: ?
- 3033.3.18: ?

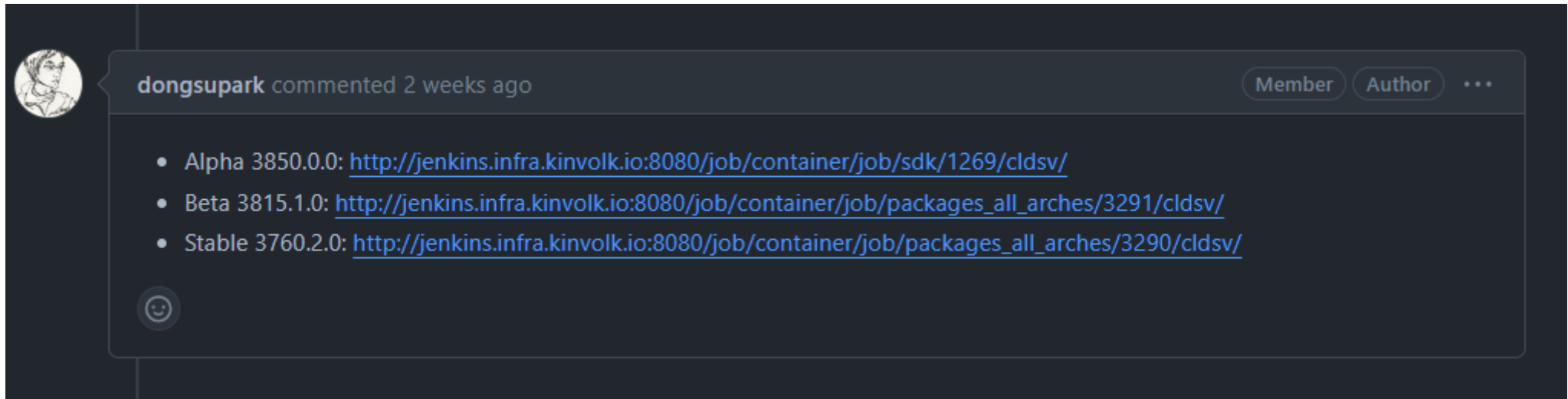
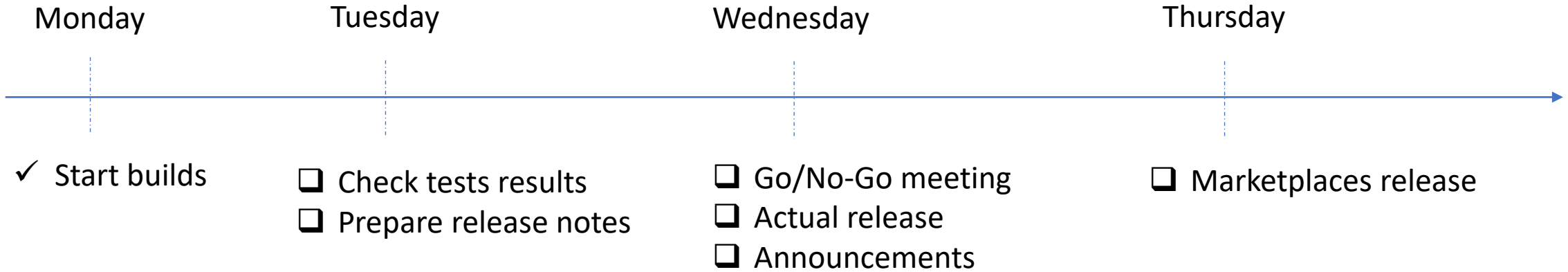
Release cycle



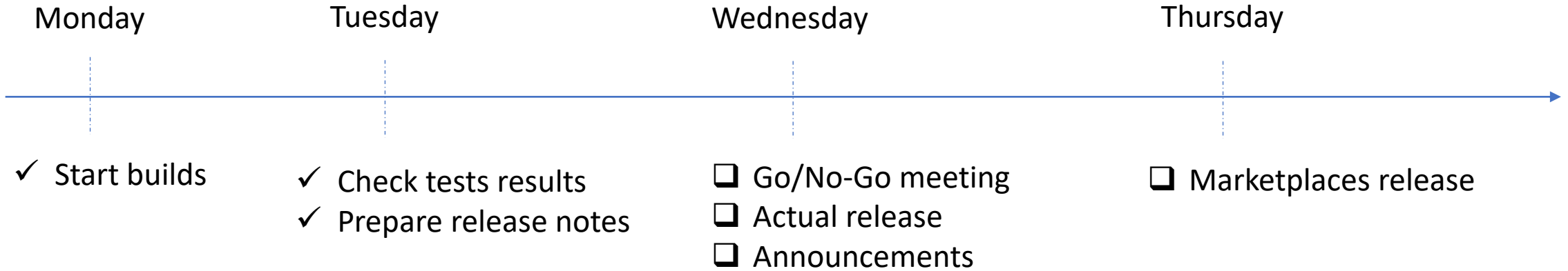
Release process



Release process



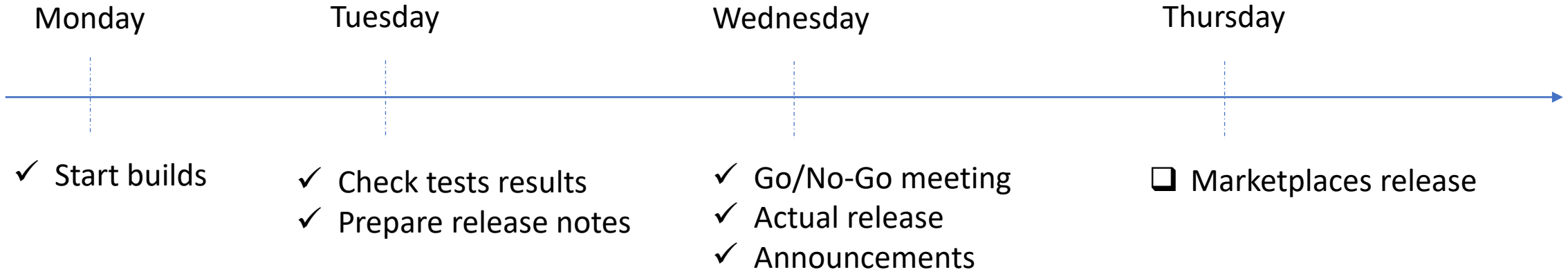
Release process



Stable 3760.2.0

- AMD64-usr
 - Platforms succeeded: all except digital ocean with calico test (turns out it's a flaky one)
 - Platforms failed: digital ocean with calico test (turns out it's a flaky one)
 - Platforms not tested: none
- ARM64-usr
 - Platforms succeeded: all
 - Platforms failed: none
 - Platforms not tested: equinix metal (not enough resources)

Release process



yudocaa

Go/No-Go Meeting for Alpha 3850.0.0, Beta 3815.1.0, Stable 3760.2.0

Pre-view images are available in [https://bincache.flatcar-linux.net/images/amd64/\\$VERSION/](https://bincache.flatcar-linux.net/images/amd64/$VERSION/)
 Tracking issue: <https://github.com/flatcar/Flatcar/issues/1321>
 The Go/No-Go document is in our HackMD @flatcar namespace
 Link: https://hackmd.io/stjMbwGHQqyH8_PNPoCafQ?view

Please give your Go/No-Go vote with for Go, for No-Go, and for Wait.

dongsupark kailueke thilofm tormath1 knowak Jeremi Gabriel Samfira Adrian Vladu

Contributors & community feel free to put your suggestions, thoughts or comments on the document or here in the chat.

Release Flatcar Container Linux Alpha 3850.0.0, Beta 3815.1.0, Stable 3760.2.0 · Issue #1321 · flatcar/Flatcar - GitHub

The release of the following Flatcar Container Linux version is planning Jan 18th, 2024. Alpha 3850.0.0 Beta 3815.1.0 Stable 3760.2.0 1. Preparation Owner: @dongsupark A. Go/No-Go hackmd doc create...

Flatcar Container Linux Release - January 18, 2024 1/5 - HackMD

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6

Release available

<h2>Stable</h2> 3760.2.0 amd64 arm64 Release Date: Jan 18, 2024	<h2>Beta</h2> 3815.1.0 amd64 arm64 Release Date: Jan 18, 2024	<h2>Alpha</h2> 3850.0.0 amd64 arm64 Release Date: Jan 18, 2024	<h2>LTS</h2> 3510.3.1 amd64 arm64 Release Date: Jan 18, 2024
<p>The Stable channel is intended for use in production clusters. Versions of Flatcar Container Linux have been tested as they move through Alpha and Beta channels before being promoted to stable.</p>	<p>The Beta channel is where Flatcar Container Linux stability is solidified. We encourage including some beta machines in production clusters in order to catch any issues that may arise with your setup.</p>	<p>The Alpha channel follows frequent releases.</p>	<p>The LTS channel provides long-term support for production environments.</p>
<p>containerd - 1.7.7</p> <p>docker - 20.10.24</p> <p>ignition - 2.15.0</p> <p>kernel - 6.1.73</p> <p>systemd - 252</p>	<p>containerd - 1.7.10</p> <p>docker - 24.0.6</p> <p>ignition - 2.15.0</p> <p>kernel - 6.1.73</p> <p>systemd - 252</p>	<p>containerd - 1.7.10</p> <p>docker - 24.0.6</p> <p>ignition - 2.15.0</p> <p>kernel - 6.1.73</p> <p>systemd - 252</p>	<p>containerd - 1.7.10</p> <p>docker - 20.10.23</p> <p>ignition - 2.14.0</p> <p>kernel - 5.15.136</p> <p>systemd - 252</p>

yudocaa
18:41

Please welcome Flatcar releases of this month:

- Alpha 3850.0.0 (new major)
- Beta 3815.1.0 (new major)
- Stable 3760.2.0 (new major)

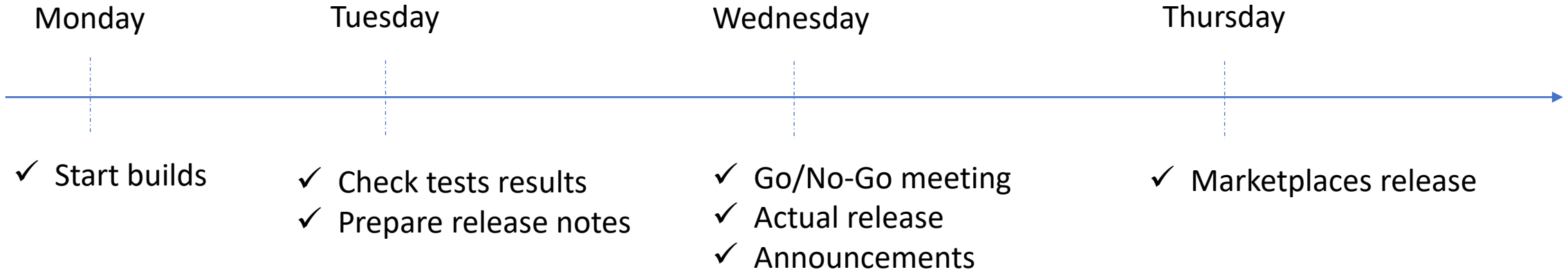
These releases include:

- Many package updates: Linux, GRUB, glibc
- CVE fixes & security patches: Linux, GRUB, glibc

Release notes at the usual spot: <https://www.flatcar.org/releases/>

Releases - Flatcar

Release process



Flatcar Container Linux (Stable)



Flatcar Container Linux (Stable)

By: [Kinvolk](#) Latest Version: 3760.2.0

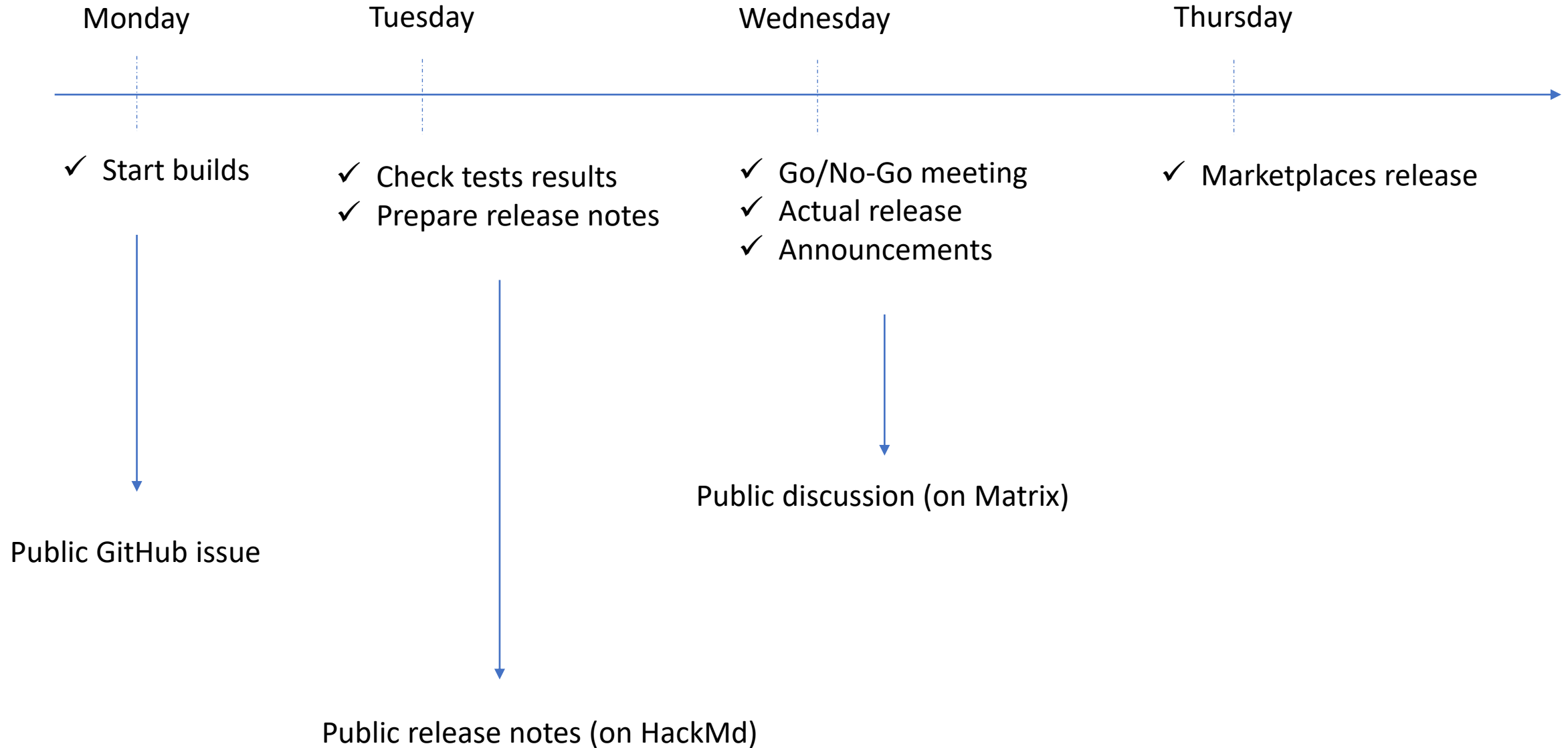
Flatcar Container Linux is a lightweight operating system optimized for running containers. Designed for use in modern distributed infrastructure, Flatcar is automatically updated with the

[Show more](#)

Linux/Unix ☆☆☆☆☆ 0 AWS reviews | 4 external reviews ⓘ

Free Tier

Public process





Thanks!

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