



CentOS Stream: stable and continuous

Aleksandra Fedorova
CI Engineer at Red Hat
Working on CI for Fedora, RHEL and CentOS Stream

Matrix: @bookwar:fedora.im
IRC: bookwar at Libera chat
Twitter: @bookwar_info

Before



It is not that simple!

After

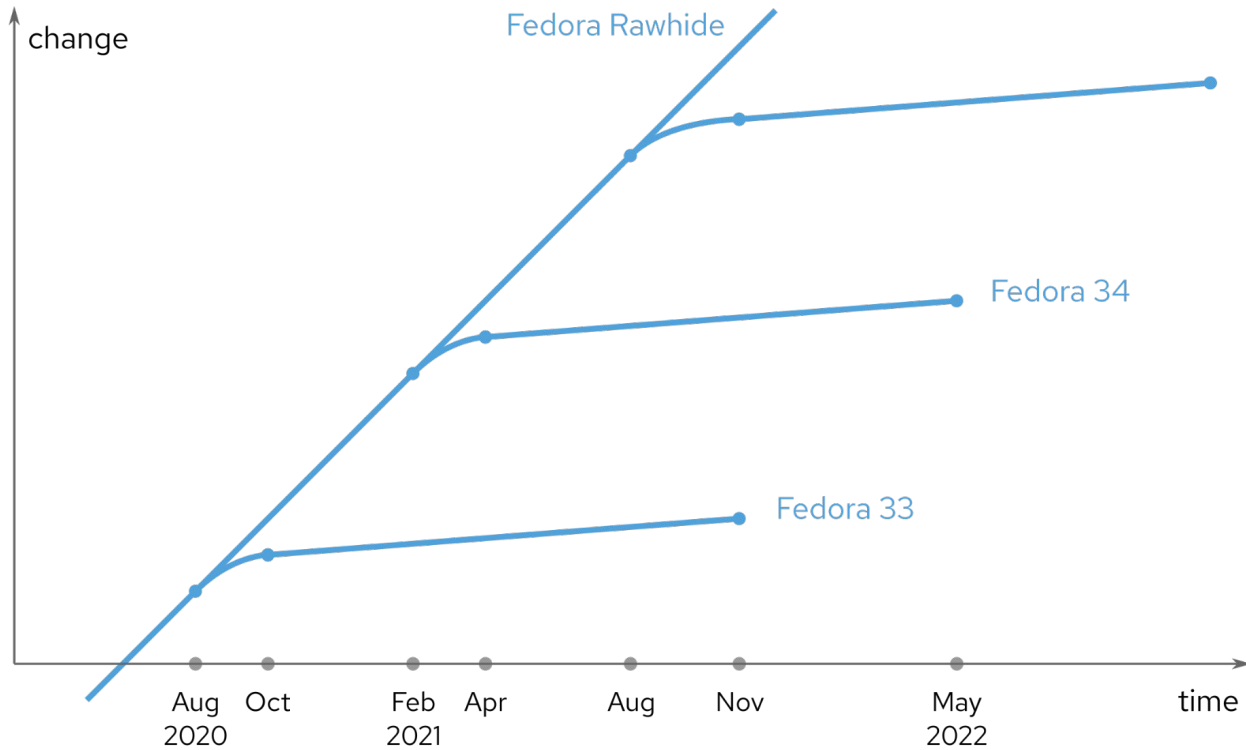




**Linux distribution is not a box,
it is a line**

channel, flow,.. stream

Or several lines

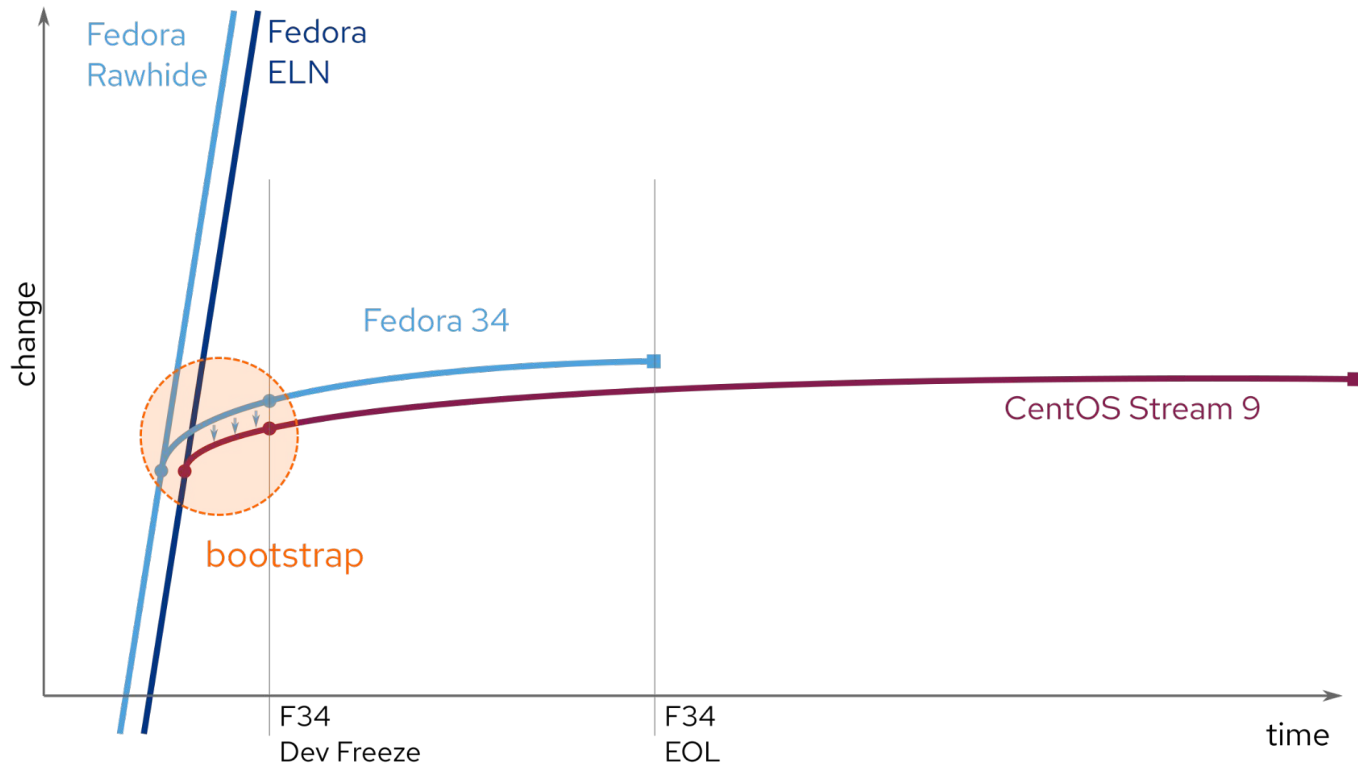




Bootstrap

Story of CentOS Stream and Fedora

Bootstrap from Fedora (ELN)





Q: Does CentOS Stream replace Fedora?

No.

CentOS Stream development **starts** where Fedora development **stops**

Q: Is CentOS Stream a Fedora LTS?

No.

During bootstrap many changes applied to build flags, rpm macro and content, which makes CentOS Stream separate distribution.

CentOS Stream bootstrap

- Uses [Fedora ELN](#) as a starting point
- Consumes updates from Fedora branch until [Fedora Dev Freeze](#)

- Small [curated subset](#) of packages (~2500 in CentOS Stream vs ~20000 in Fedora)
- Trimmed dependency trees
- Build flags and options according to business requirements
- Several mass rebuilds during the bootstrap phase

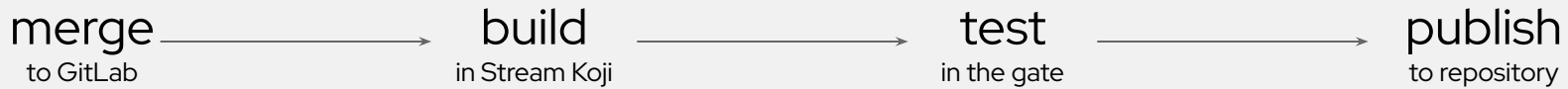
- Synchronously bootstraps RHEL



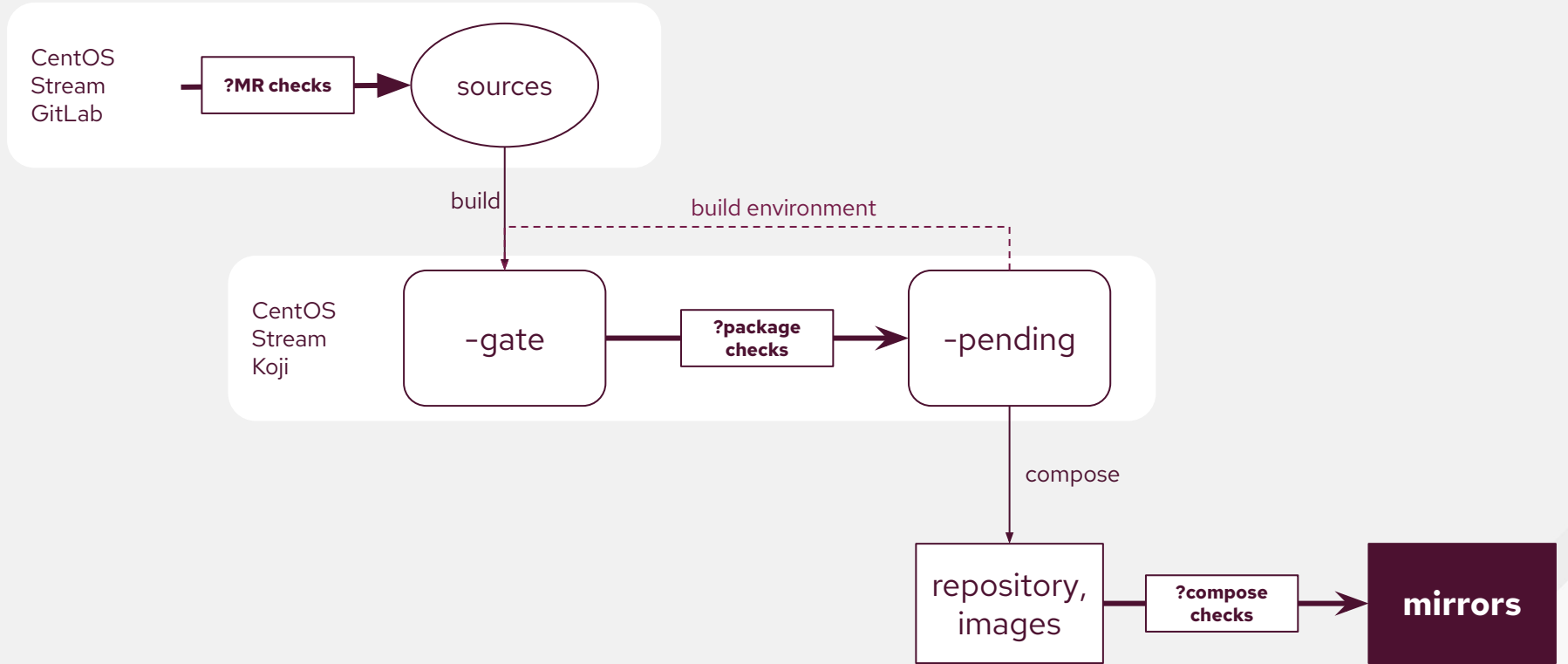
Updates

Story of CentOS Stream and RHEL

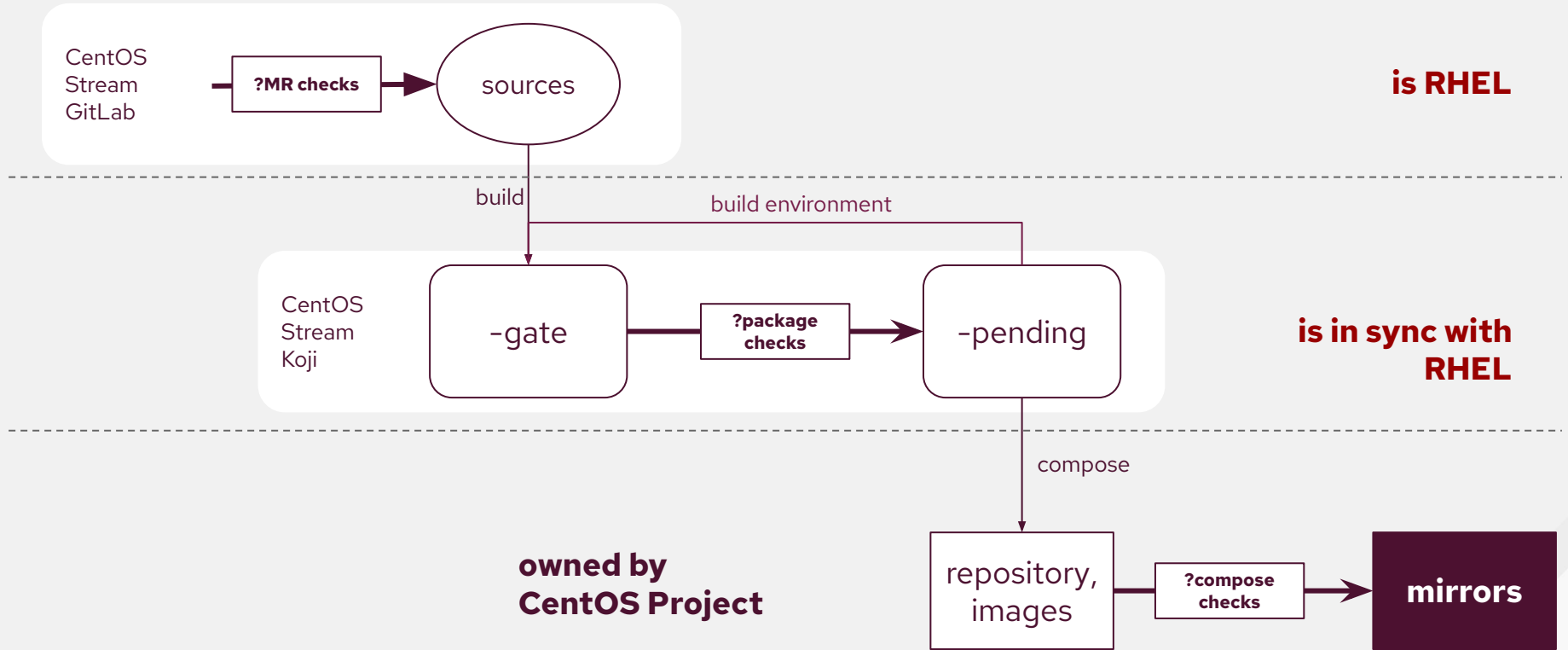
Contribution by package



Pipeline and quality gates

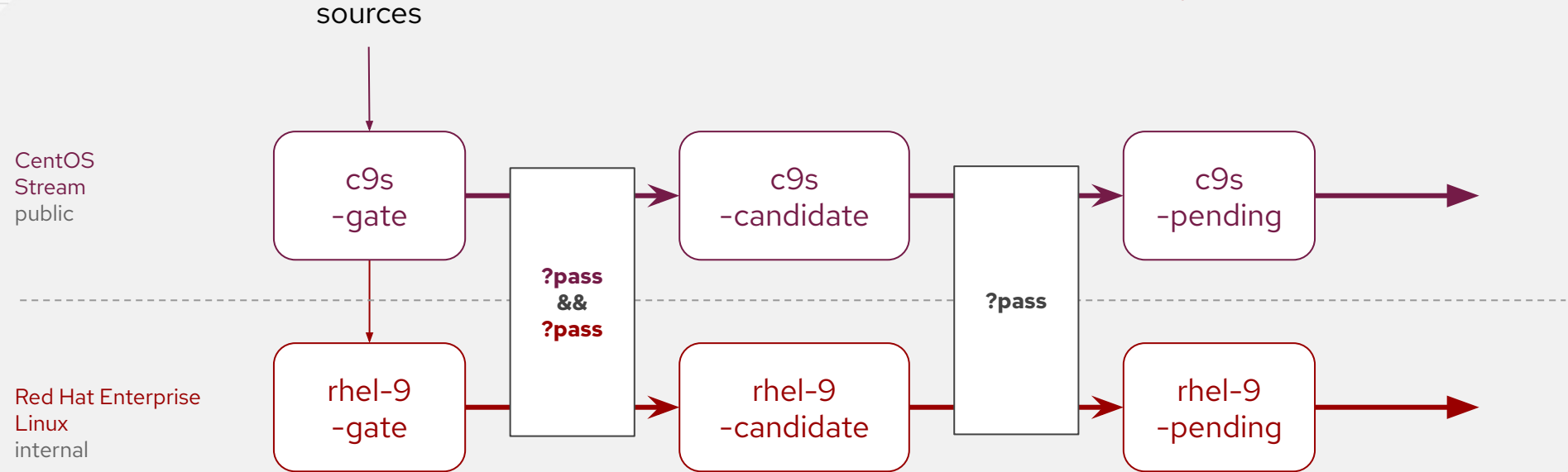


Where is RHEL



CentOS Stream builds in sync with RHEL

done by RHEL Dev and QE



Q: Is CentOS Stream like Debian Testing?

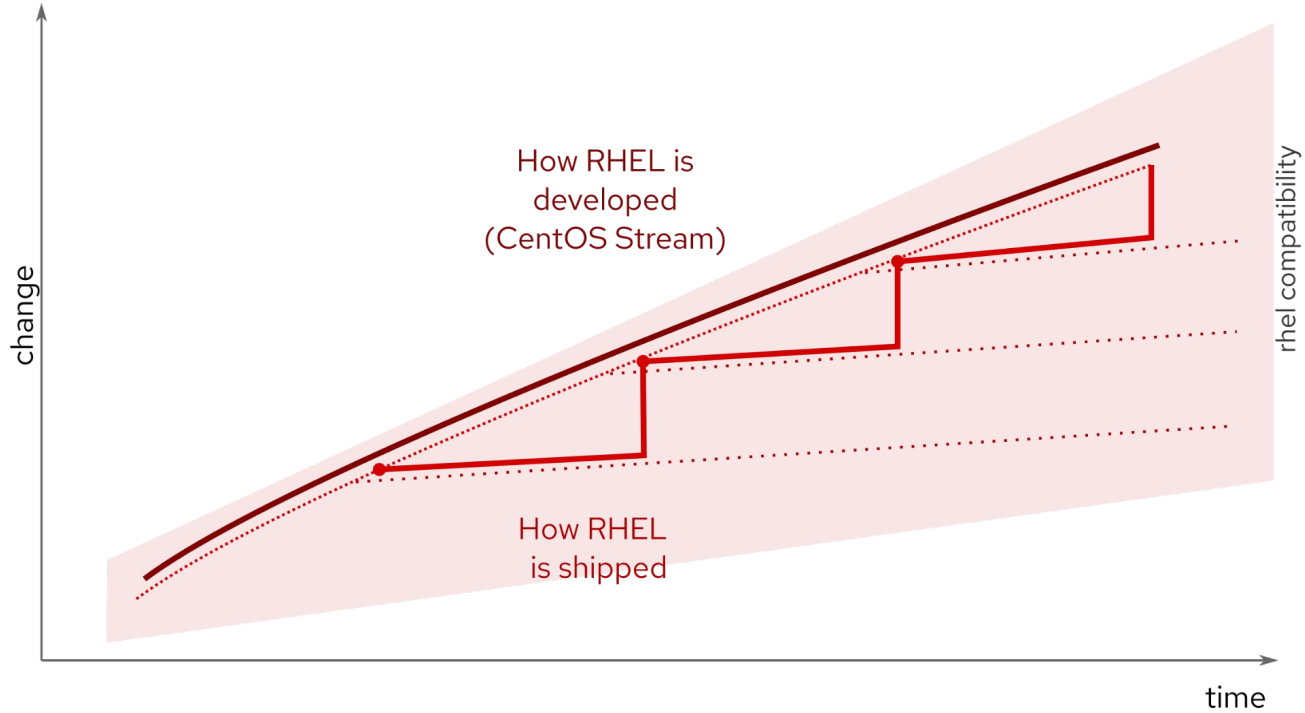
No.

The closest concept in Debian is probably

[Debian Stable Proposed Updates](#)

Though Debian doesn't have a similar package-level verification process for it.

What about minor releases?



See also https://www.youtube.com/watch?v=tf_EkU3x2G0

Q: Is CentOS Stream rolling like Gentoo?

No.

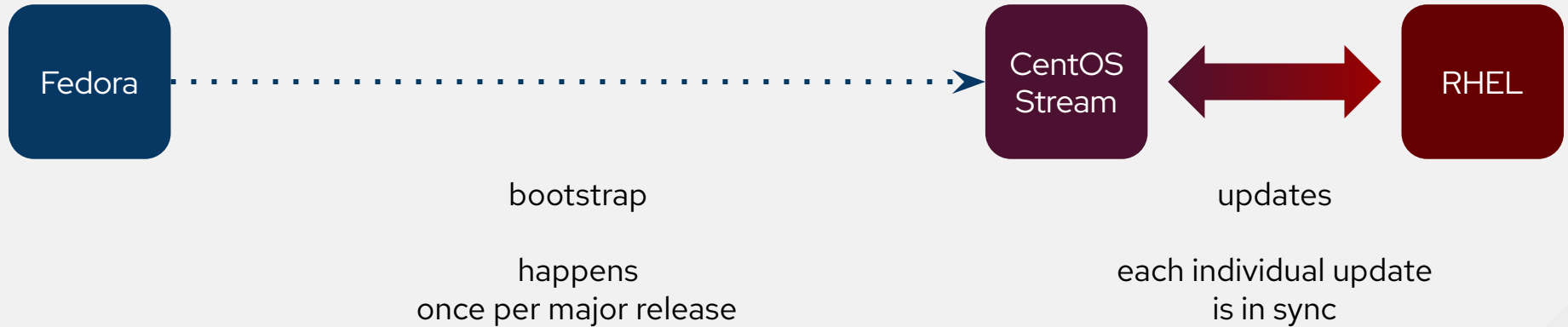
As soon as CentOS Stream is stabilized, it follows the [RHEL ABI compatibility](#) of the corresponding major version of RHEL.



What is CentOS Stream like then?

CentOS Stream is like CentOS, stable and continuous

Maybe slightly better boxes





Thank you!

Aleksandra Fedorova

afedorova@redhat.com

bookwar@fedoraproject.org

@**bookwar:fedora.im** on Matrix

bookwar on IRC

@**bookwar_info** on Twitter
