CentOS Stream: stable and continuous

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It is not that simple!
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

merge to GitLab
build in Stream Koji
test in the gate
publish to repository
Pipeline and quality gates

1. **CentOS Stream GitLab**
2. **MR checks** → **sources**
3. **build** → **-gate**
4. **?-package checks** → **-pending**
5. **compose** → **repository, images**
6. **?-compose checks** → **mirrors**
Where is RHEL

- CentOS Stream GitLab
  - MR checks
  - sources
  - build
  - build environment
  - -gate
  - package checks
  - -pending
  - compose
  - repository, images
  - ?compose checks
  - mirrors
  - owned by CentOS Project

is RHEL
is in sync with RHEL

CentOS Stream Koji

owned by CentOS Project
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

Fedora

bootstrap
happens once per major release

CentOS Stream

updates
each individual update is in sync

RHEL
Thank you!

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