

CentOS Stream

- preview of RHEL
- solid base for CentOS SIGs

Adam Samalik

Principal Software Engineer, Red Hat CentOS Stream Engineering Lead

Fedora

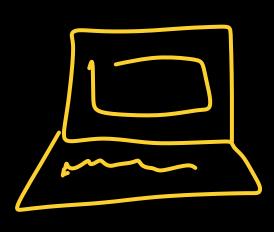


Fedora ELN Fedora Server

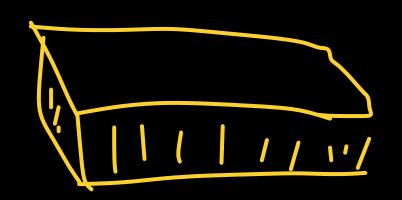


Fedora Silverblue

Fedora CoreOS



Fedora

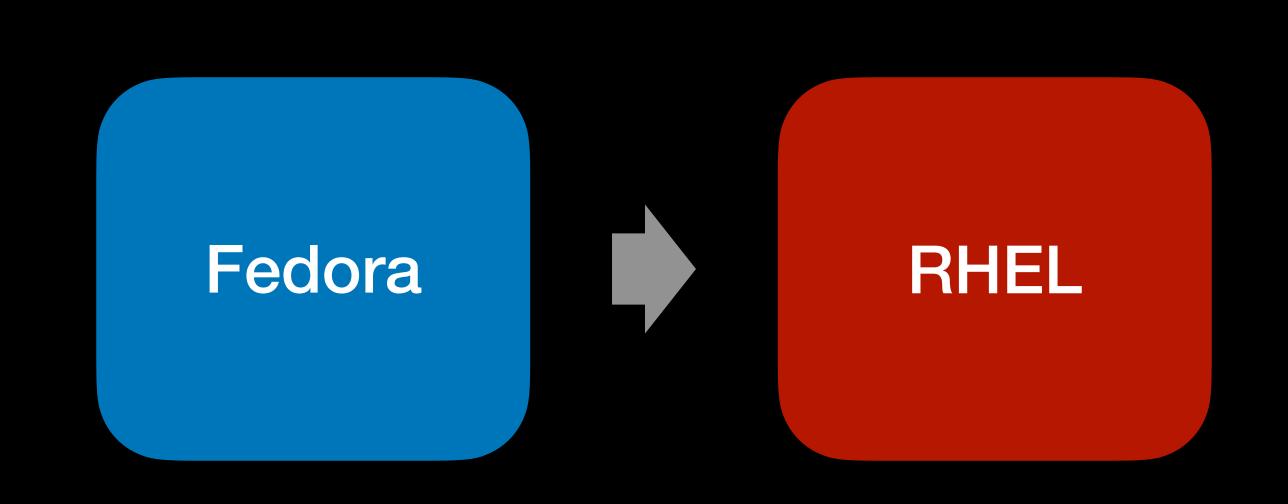


Fedora Kinoite

Fedora IoT Fedora Workstation



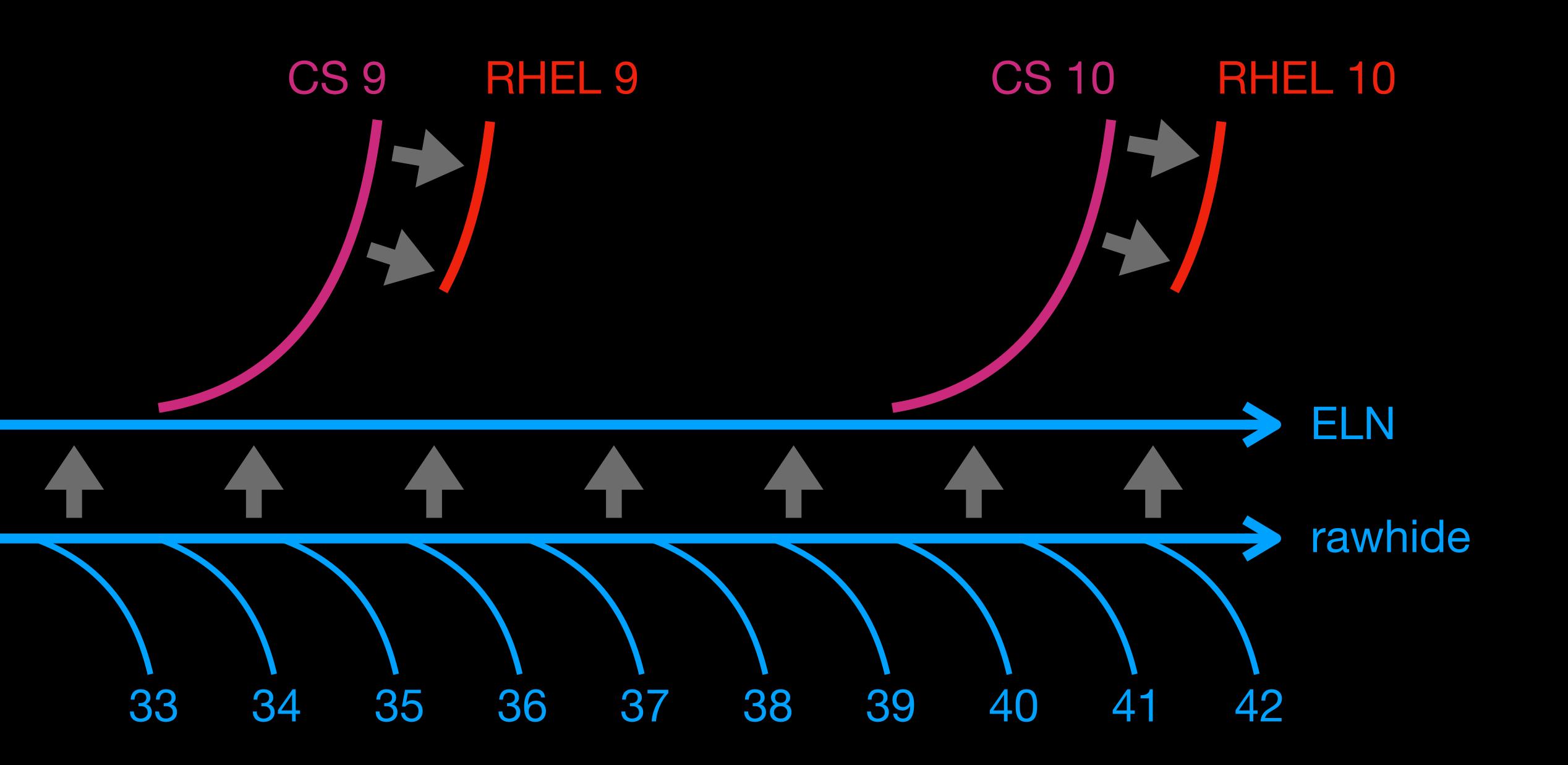
Fedora KDE

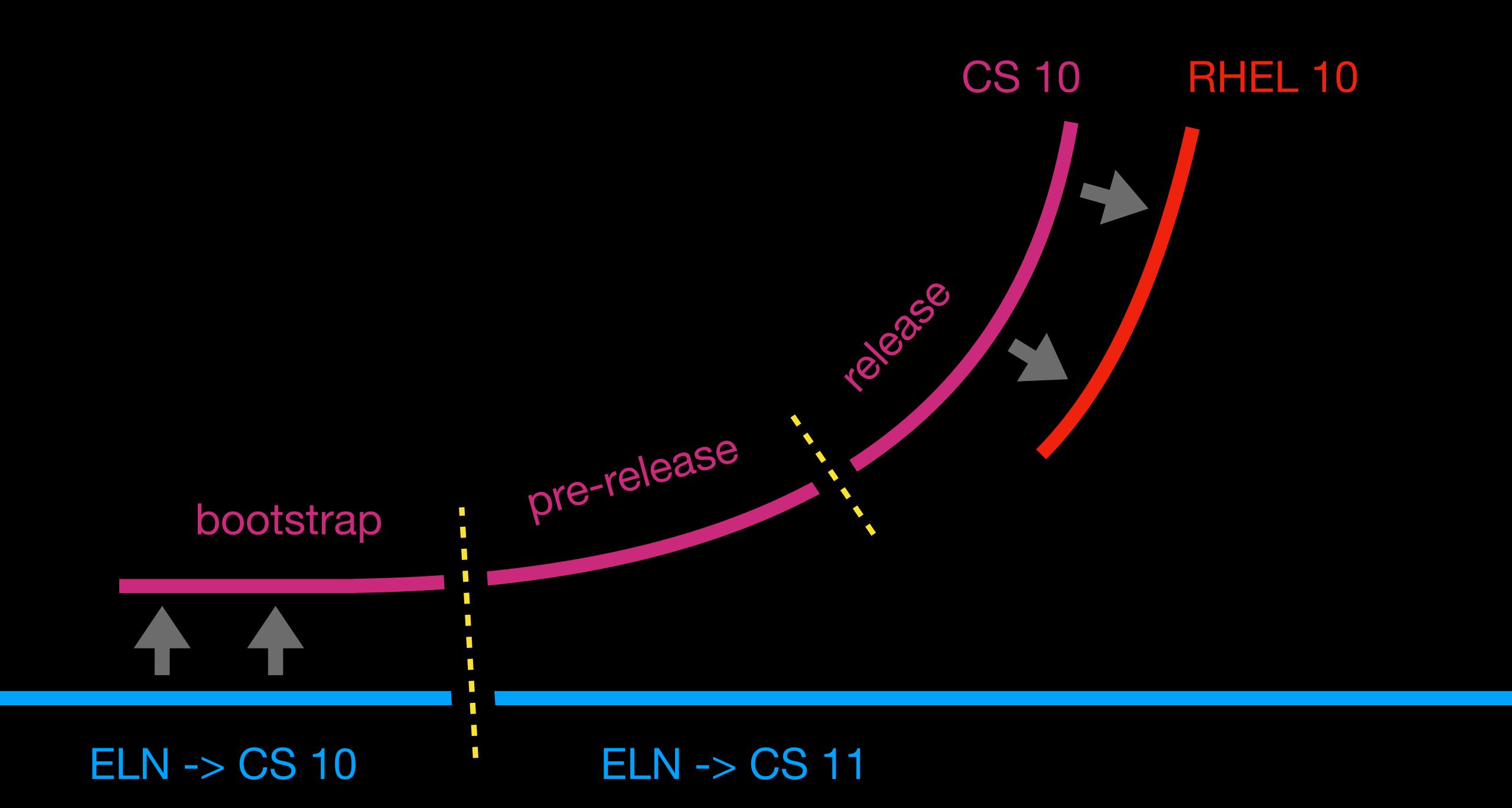


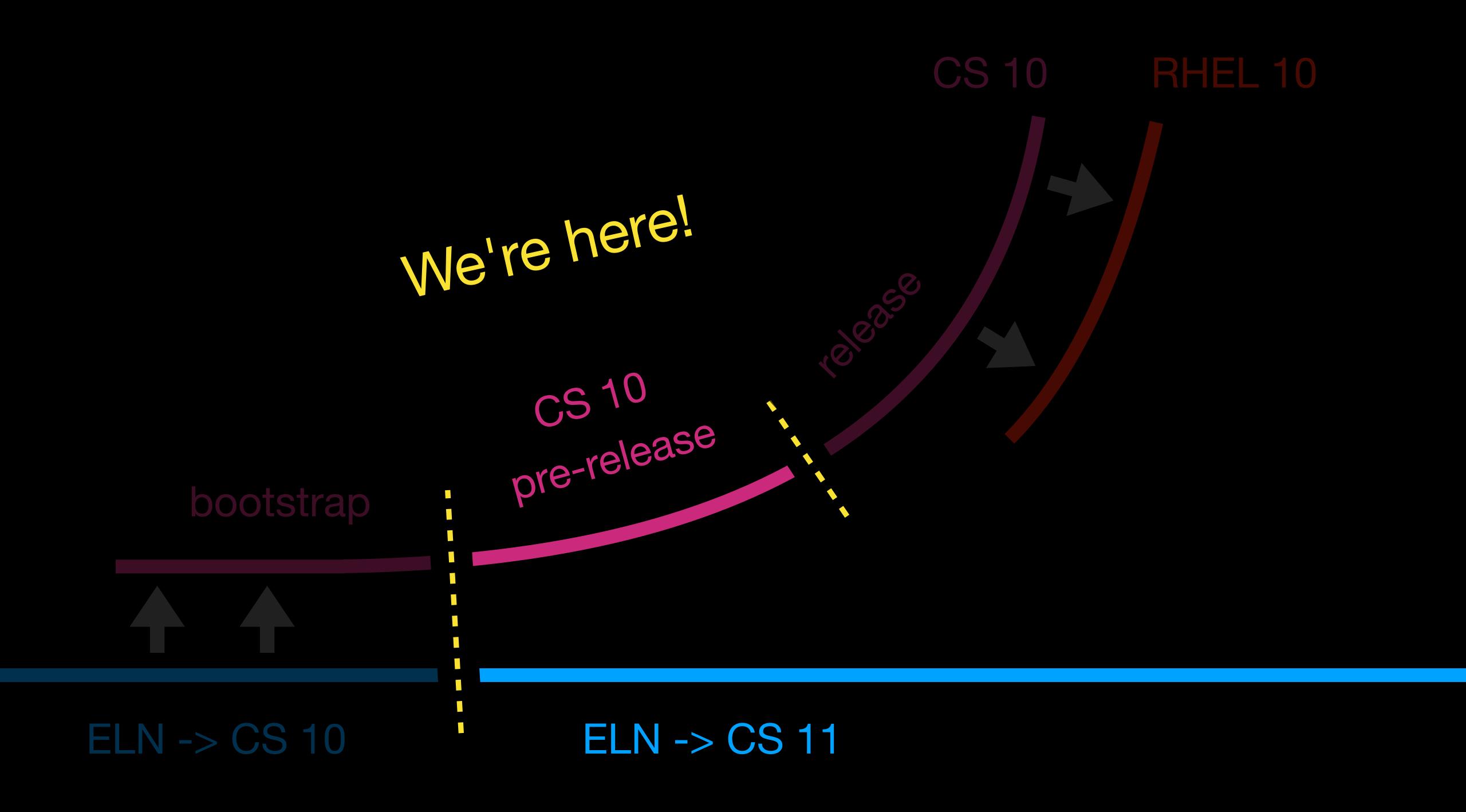


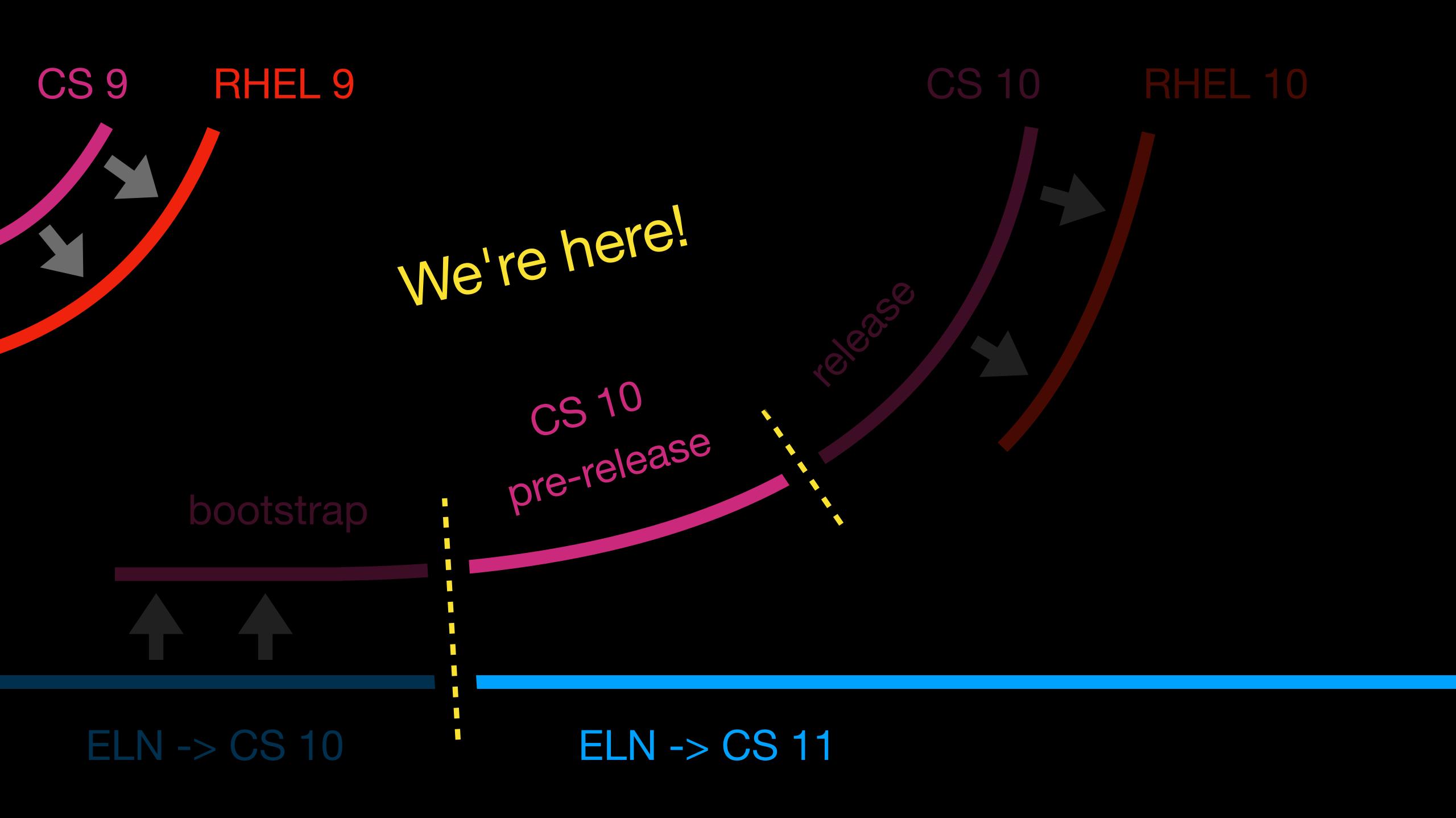
CentOS Stream

a Linux OS maintained by RHEL engineers



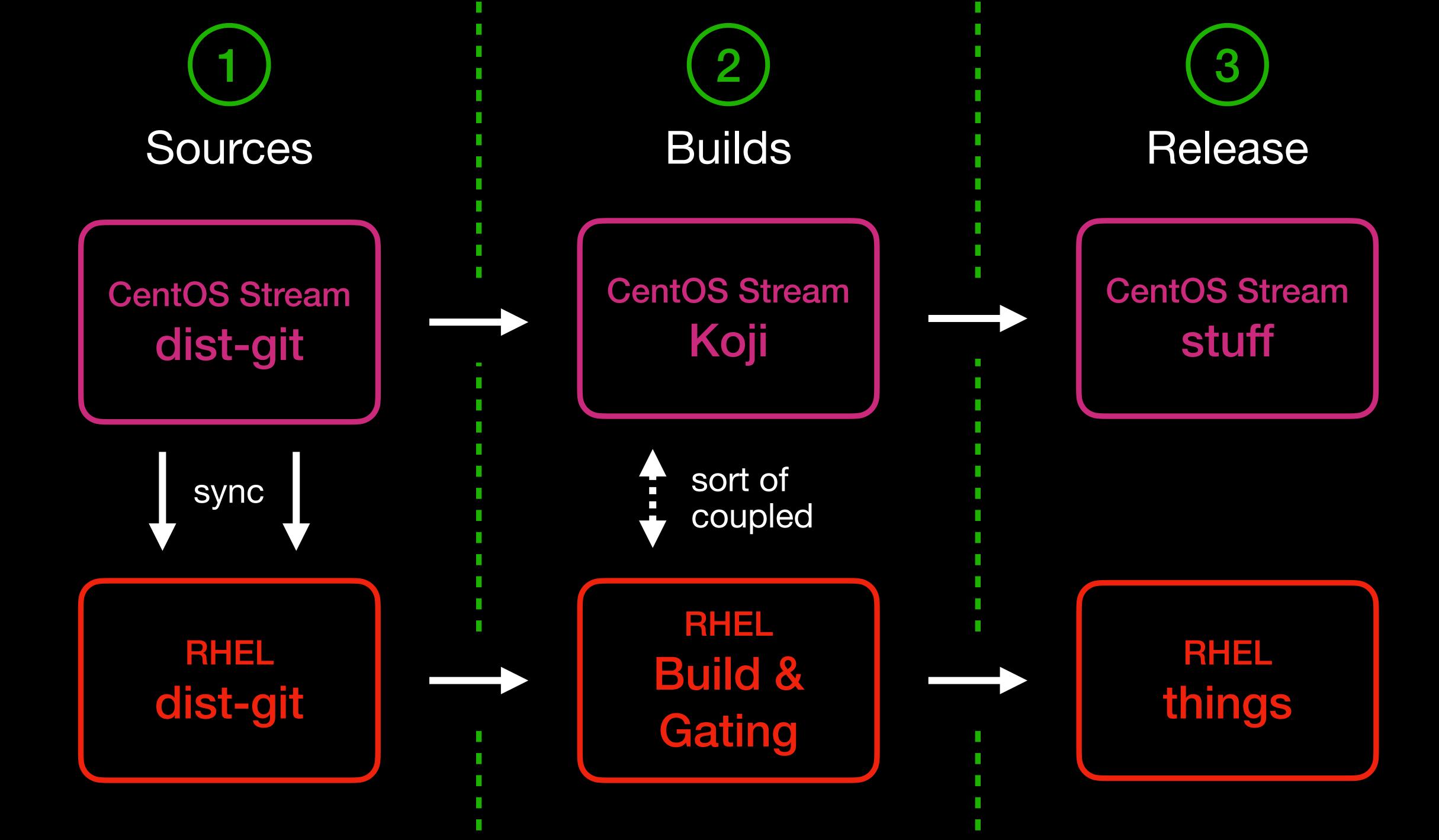








CentOS Stream Pipeline





issues.redhat.com the RHEL project

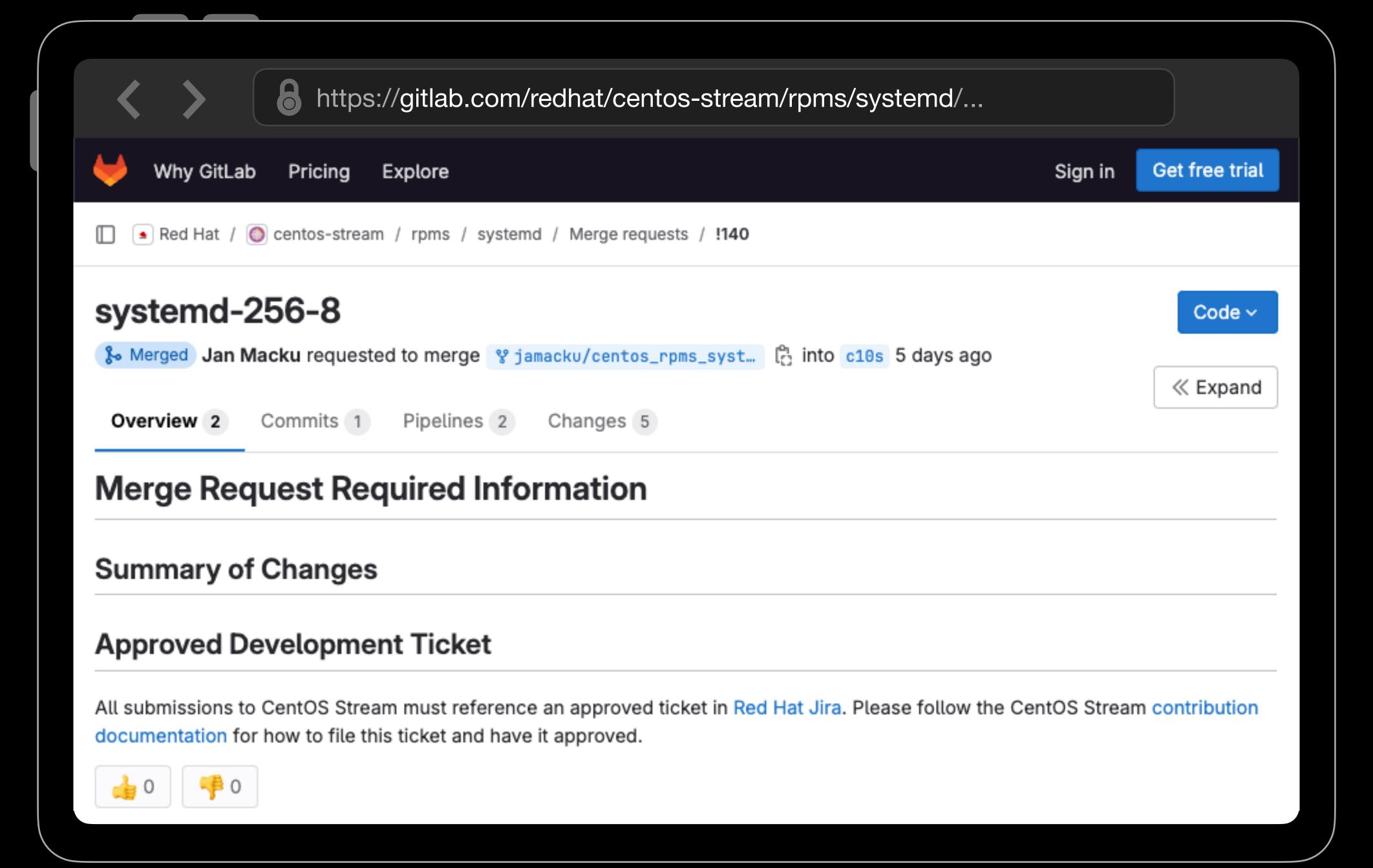
bug / change tracking communication with RHEL maintainers

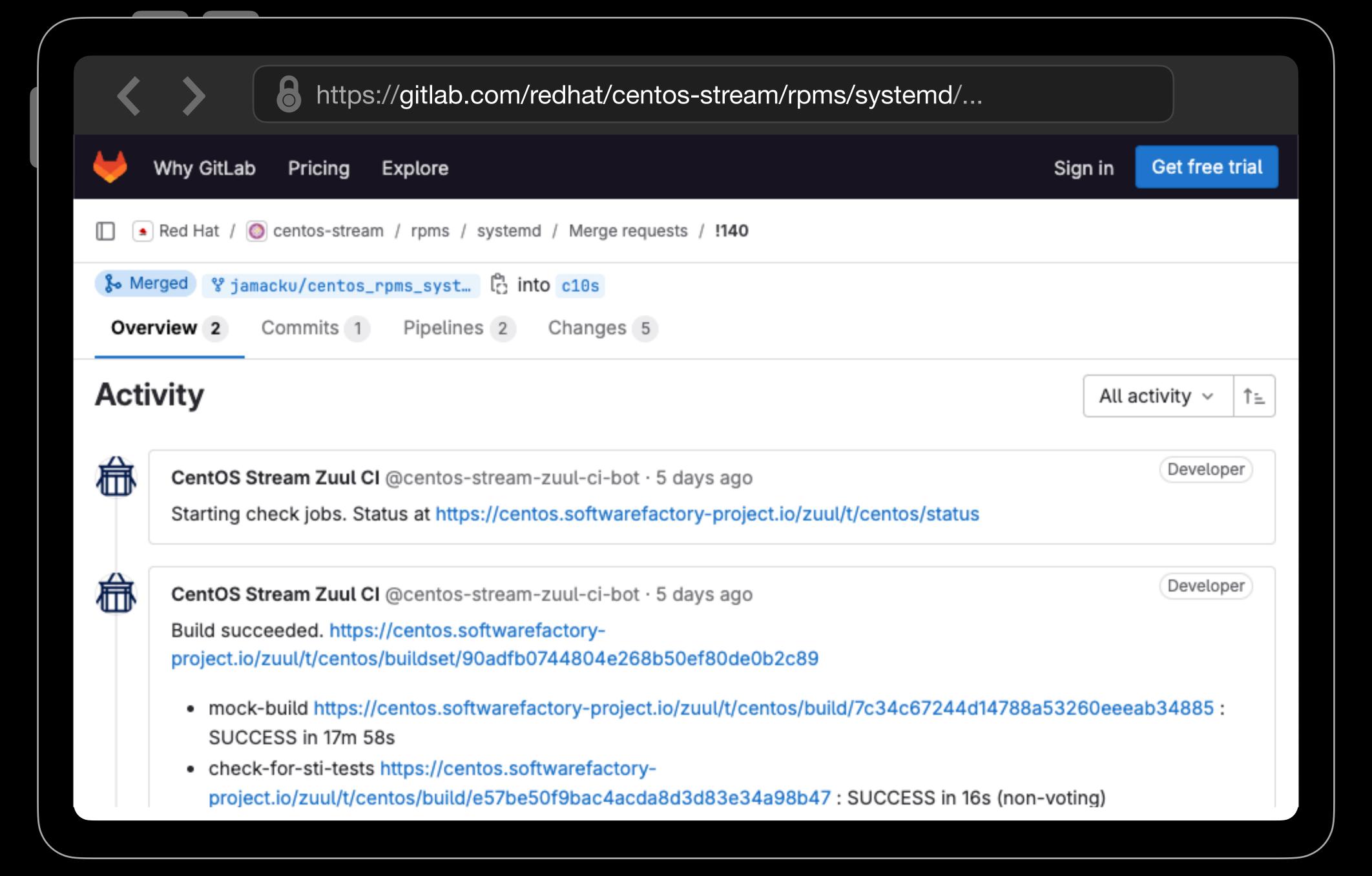


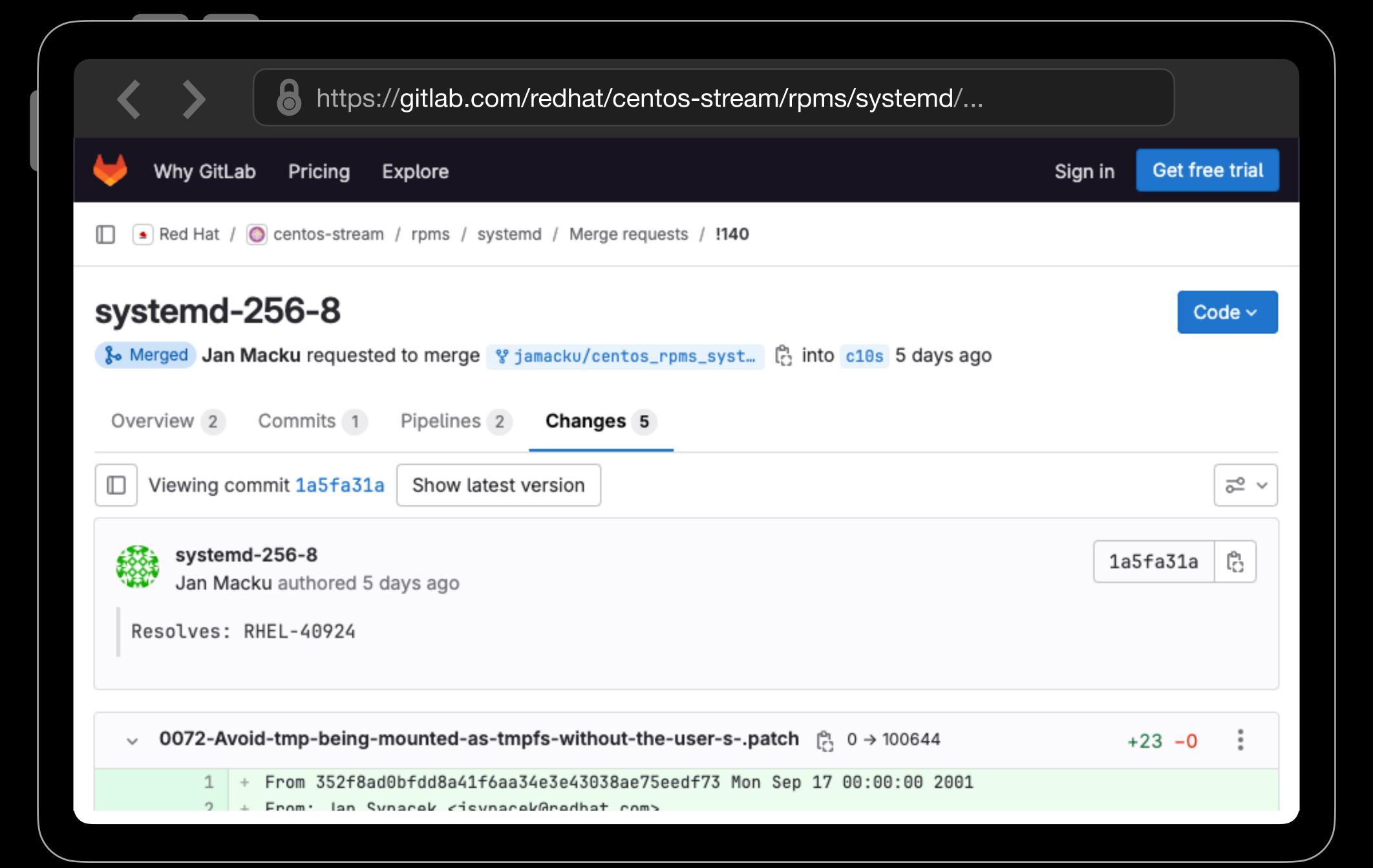
CentOS Stream Sources

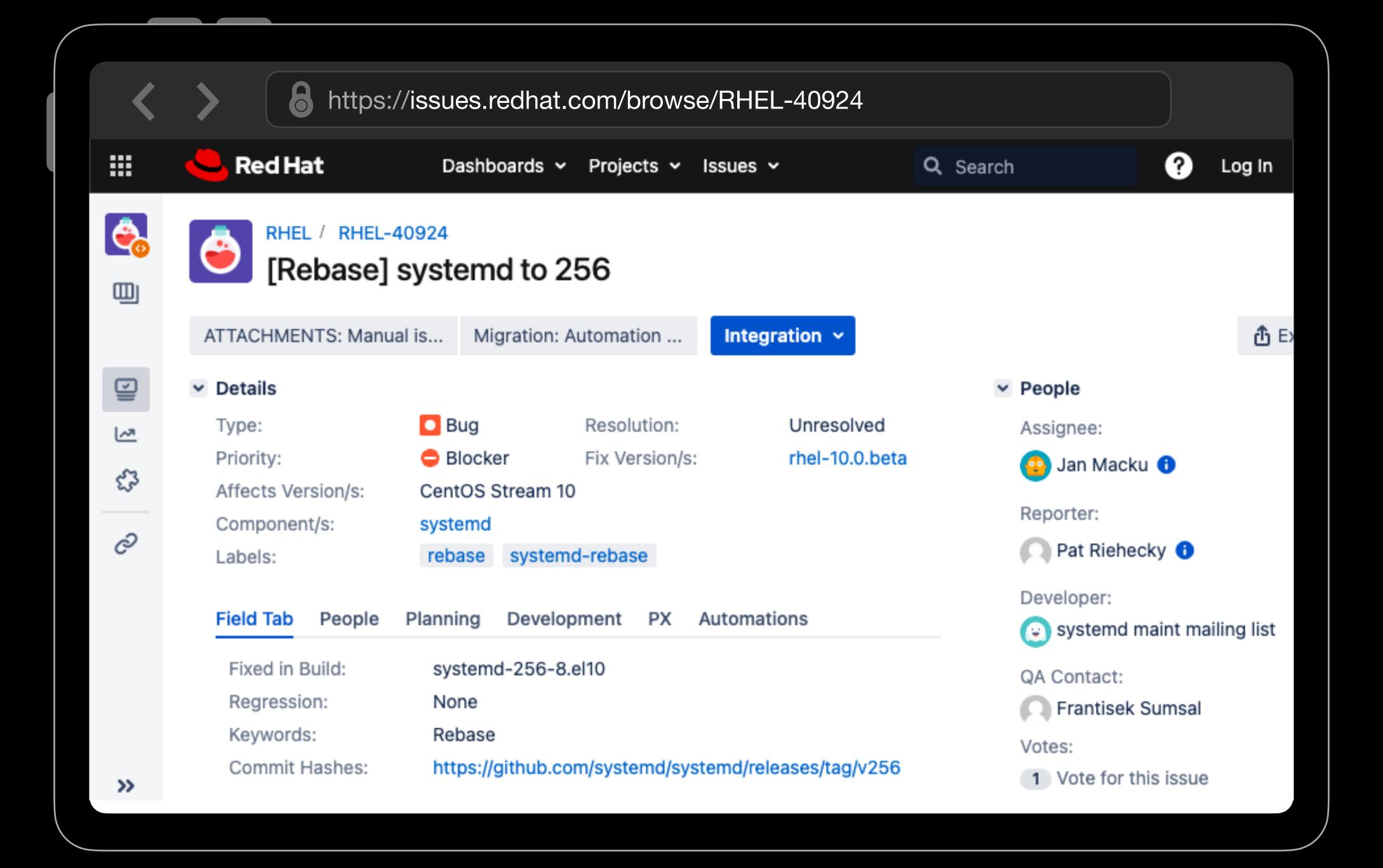


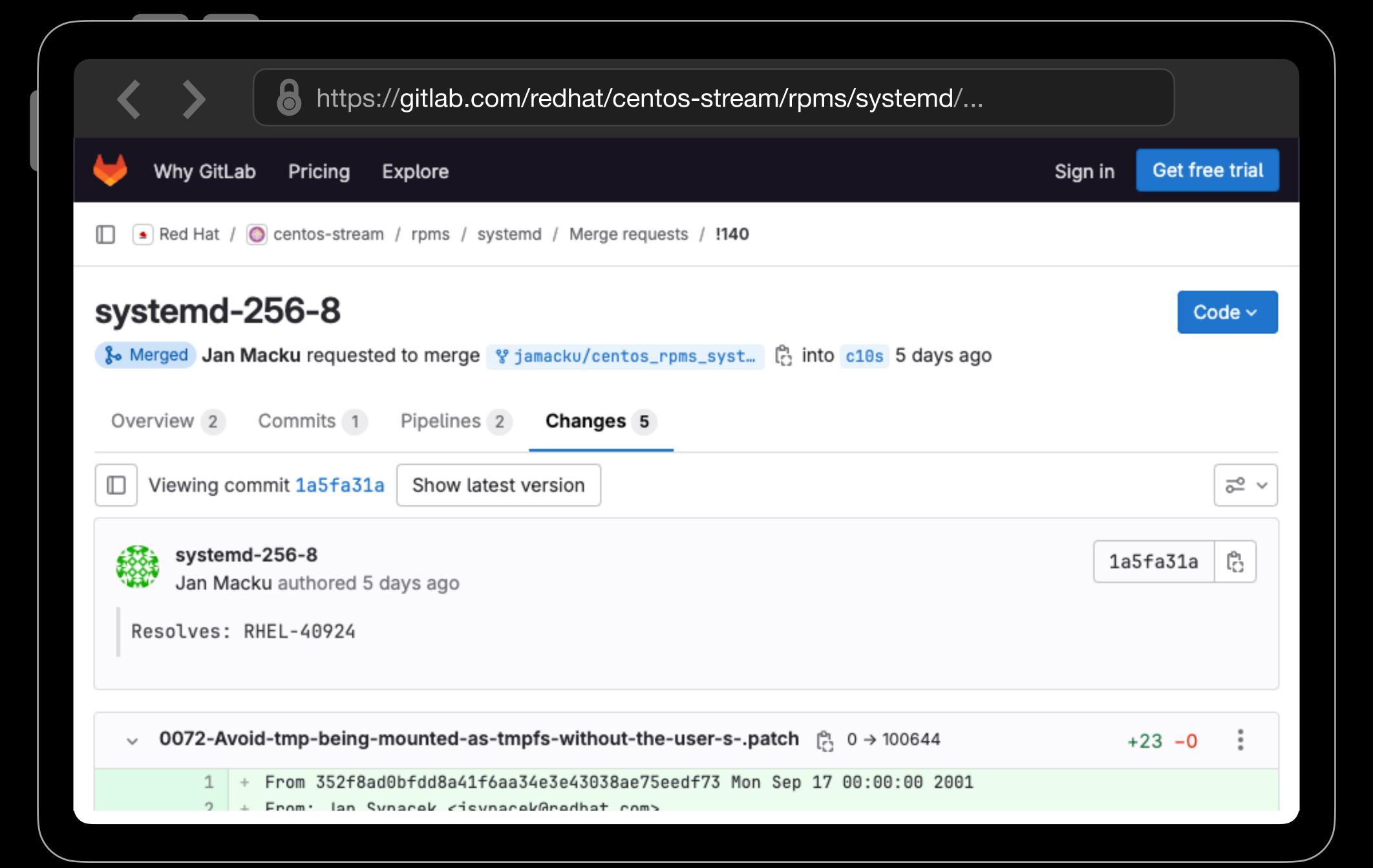
gitlab.com / redhat / centos-stream / rpms

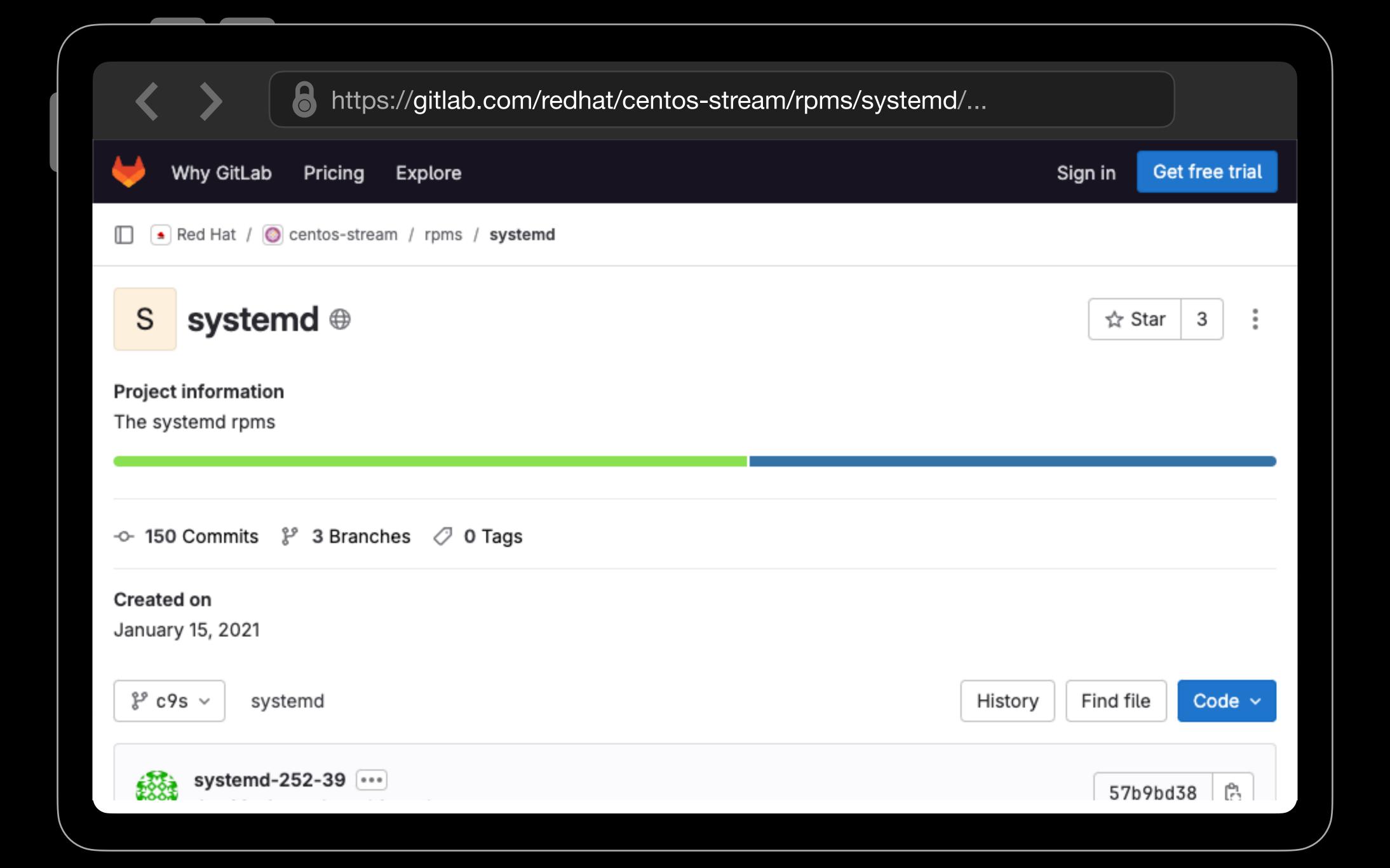












https://gitlab.com/redhat/centos-stream/rpms/systemd/... Get free trial Why GitLab Pricing Sign in Explore Red Hat / @ centos-stream / rpms / systemd spec: rebase rhel-net-naming-sysattr... 4 months ago sources split-files.py spec: move 'systemd-oomd.conf' to ... 5 months ago sysctl.conf.README 3 years ago RHEL 9.0.0 Alpha bootstrap systemd-container-coredu... systemd-252-33 3 months ago systemd-journal-gatewayd.... RHEL 9.0.0 Alpha bootstrap 3 years ago 3 years ago systemd-journal-remote.xml RHEL 9.0.0 Alpha bootstrap 3 years ago systemd-udev-trigger-no-r... RHEL 9.0.0 Alpha bootstrap

pam: add a call to pam_namespace

RHEL 9.0.0 Alpha bootstrap

systemd-252-39

1 year ago

3 years ago

1 week ago

🕒 systemd-user

🕒 systemd.spec

systemd.rpmlintrc



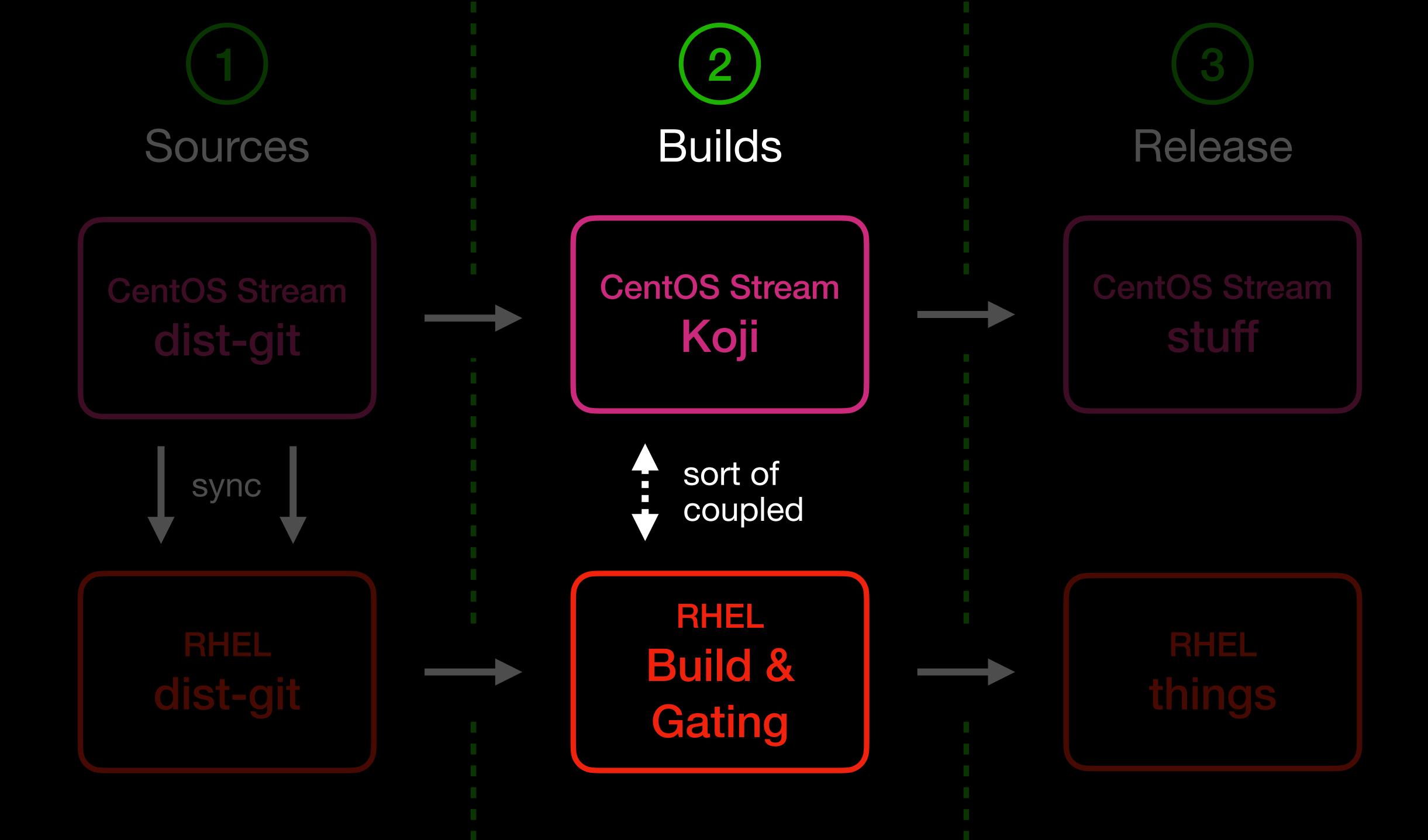


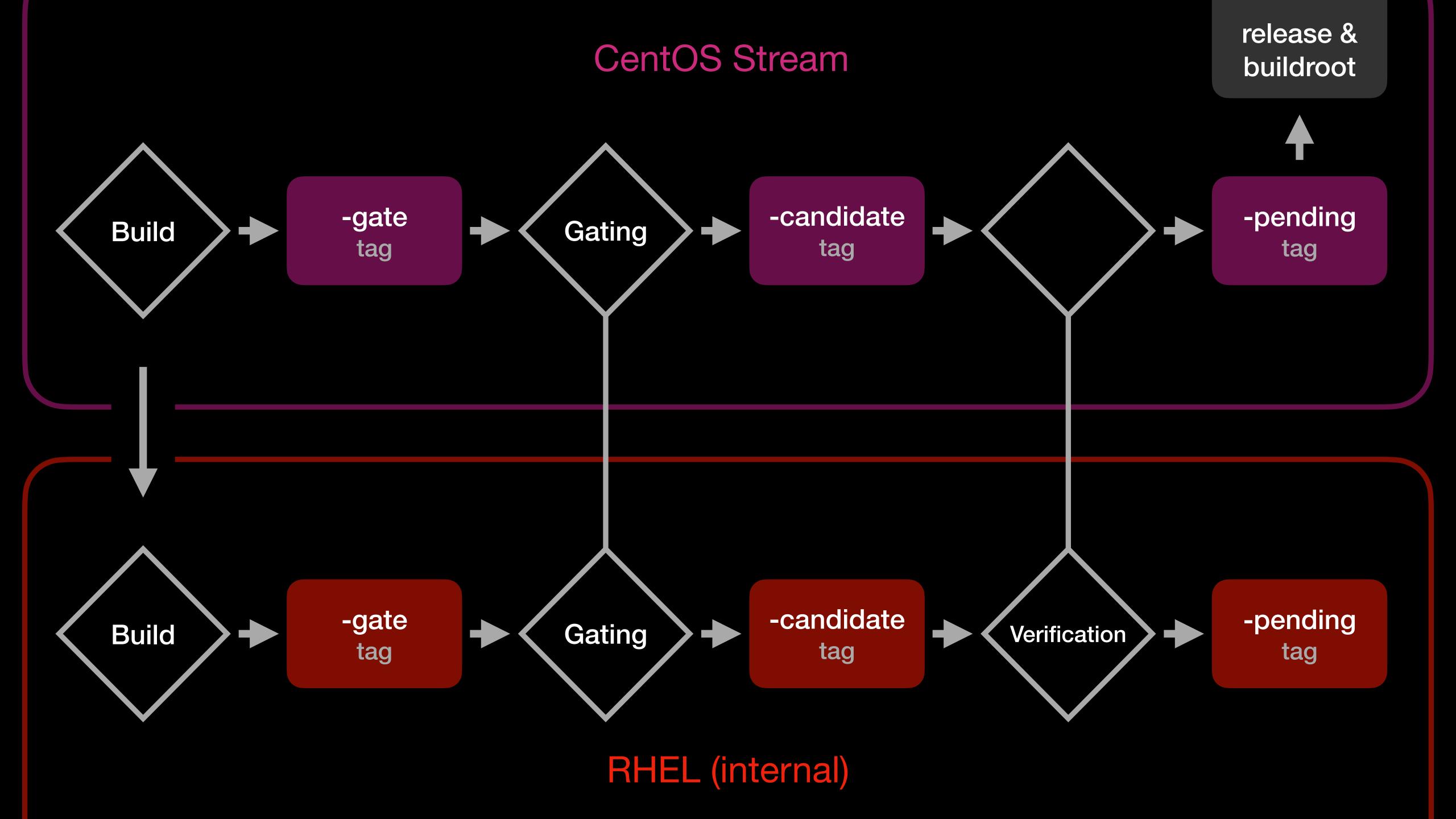


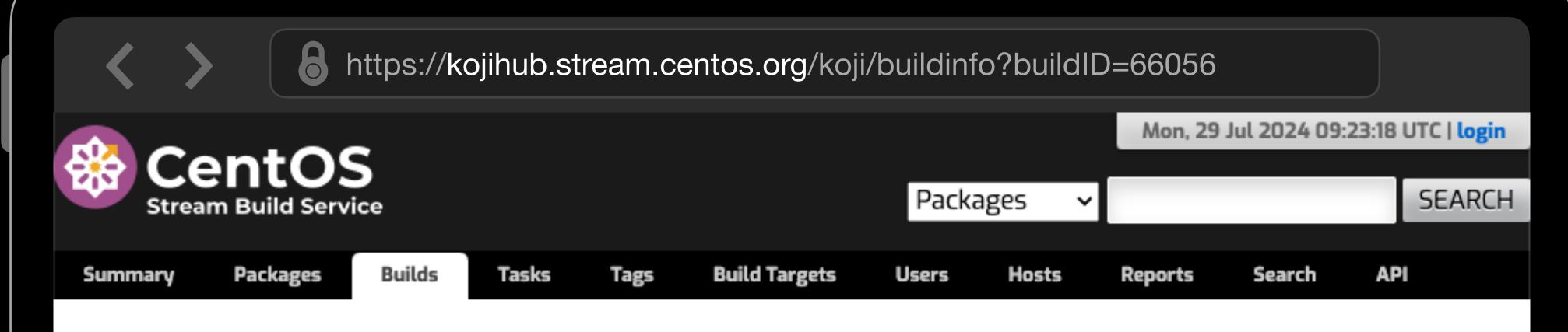
```
rpmlint-fedora-license-data-1.51-1.fc40.noarch
  rust-srpm-macros-26.3-1.fc40.noarch
  sdbus-cpp-1.4.0-2.fc40.x86 64
  shadow-utils-subid-2:4.15.1-3.fc40.x86 64
  shared-mime-info-2.3-5.fc40.x86 64
  systemd-255.10-1.fc40.x86 64
  systemd-container-255.10-1.fc40.x86 64
  systemd-networkd-255.10-1.fc40.x86 64
  systemd-pam-255.10-1.fc40.x86 64
  systemd-resolved-255.10-1.fc40.x86 64
  systemd-rpm-macros-255.10-1.fc40.noarch
  systemd-udev-255.10-1.fc40.x86 64
  unzip-6.0-63.fc40.x86 64
 usermode-1.114-9.fc40.x86 64
  util-linux-2.40.1-1.fc40.x86 64
  xkeyboard-config-2.41-1.fc40.noarch
  xxhash-libs-0.8.2-2.fc40.x86 64
  yajl-2.1.0-23.fc40.x86 64
  zig-srpm-macros-1-2.fc40.noarch
  zip-3.0-40.fc40.x86 64
Complete!
[root@199d0cc90e4a /]# mkdir directory-somewhere
[root@199d0cc90e4a /]# cd directory-somewhere/
[root@199d0cc90e4a directory-somewhere]# centpkg clone -a sys
temd
```

```
systemd-udev-255.10-1.fc40.x86 64
  unzip-6.0-63.fc40.x86 64
  usermode-1.114-9.fc40.x86 64
  util-linux-2.40.1-1.fc40.x86 64
  xkeyboard-config-2.41-1.fc40.noarch
  xxhash-libs-0.8.2-2.fc40.x86 64
  yaj1-2.1.0-23.fc40.x86 64
  zig-srpm-macros-1-2.fc40.noarch
  zip-3.0-40.fc40.x86 64
Complete!
[root@199d0cc90e4a /]# mkdir directory-somewhere
[root@199d0cc90e4a /]# cd directory-somewhere/
[root@199d0cc90e4a directory-somewhere]# centpkg clone -a sys
temd
Cloning into 'systemd' ...
remote: Enumerating objects: 9305, done.
remote: Counting objects: 100% (9169/9169), done.
remote: Compressing objects: 100% (5746/5746), done.
remote: Total 9305 (delta 3410), reused 9161 (delta 3402), pa
ck-reused 136 (from 1)
Receiving objects: 100% (9305/9305), 7.75 MiB | 65.05 MiB/s,
done.
Resolving deltas: 100% (3470/3470), done.
[root@199d0cc90e4a directory-somewhere]# cd systemd/
[root@199d0cc90e4a systemd]# centpkg srpm
```









Information for build systemd-256-8.el10

ID 66056

Package Name systemd

Version 256

Release 8.el10

Epoch

Draft False

Source git+https://gitlab.com/redhat/centos-stream/rpms/systemd.git#1a5fa31a19c0769033bcfcb284bbeca6e93ef861

Summary System and Service Manager

systemd is a system and service manager that runs as PID 1 and starts the rest of the system. It provides aggressive parallel capabilities, uses socket and D-Bus activation for starting services, offers on-demand starting of daemons, keeps track of parallel Linux control groups, maintains mount and automount points, and implements an elaborate transactional dependency-base control logic. Systemd supports SysV and LSB init scripts and works as a replacement for sysvinit. Other parts of this package logging daemon, utilities to control basic system configuration like the hostname, data, locale, maintain a list of logged-in





https://kojihub.stream.centos.org/koji/buildinfo?buildID=66056

control logic. systemd supports SysV and LSB init scripts and works as a replacement for sysvinit. Other parts of this package logging daemon, utilities to control basic system configuration like the hostname, date, locale, maintain a list of logged-in accounts, runtime directories and settings, and a logging daemons.

```
Built by jamacku
          complete
   Volume
           koji02
           Tue, 23 Jul 2024 13:09:26 UTC
Completed
           Tue, 23 Jul 2024 13:14:30 UTC
           build (c10s-candidate, /redhat/centos-stream/rpms/systemd.git:1a5fa31a19c0769033bcfcb284bbeca6e93ef861)
            {'custom_user_metadata': {'rhel-target': 'latest'}, 'source': {'original_url': 'git+https://gitlab.com/redhat/centos-
    Extra
            stream/rpms/systemd.git#1a5fa31a19c0769033bcfcb284bbeca6e93ef861'}}
     Tags
            c10s-candidate
            c10s-gate
            c10s-pending
            c10s-pending-signed
    RPMs
                 src
                     systemd-256-8.el10.src.rpm (info) (download)
            aarch64
                     systemd-256-8.el10.aarch64.rpm (info) (download)
```



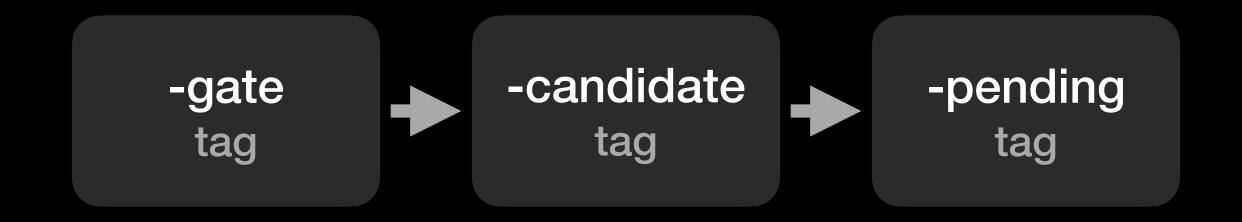
CentOS Stream

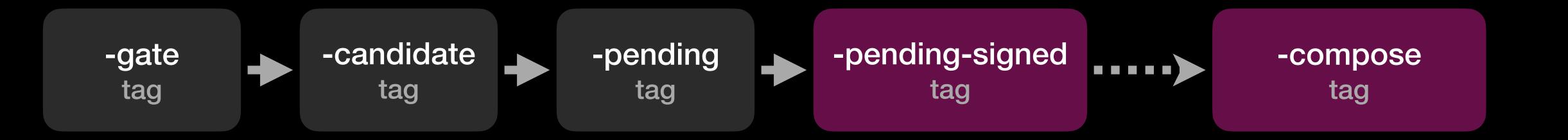
Release

Rapos + images

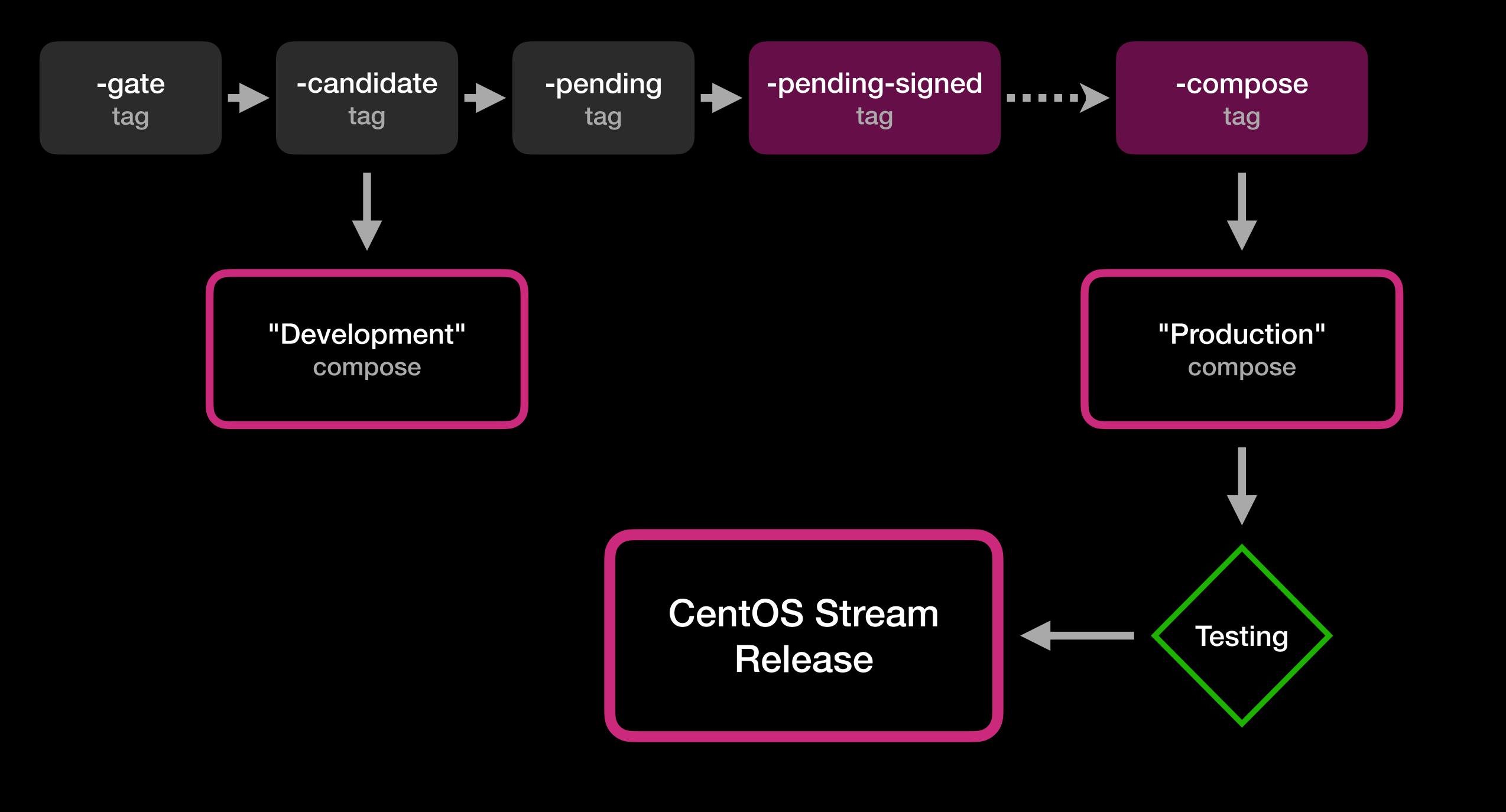
el.

- 1) Composes
- 2) Testing
- 3) Release to mirrors etc.









CentOS Stream Release

BaseOS AppStream repository

-devel packages, etc.

CRB
repository

add-ons

HighAvailability repository

NFV repository

ResilientStorage repository

RT repository

SAP repository

SAPHANA repository

DVD iso image

netinstall iso image

container image

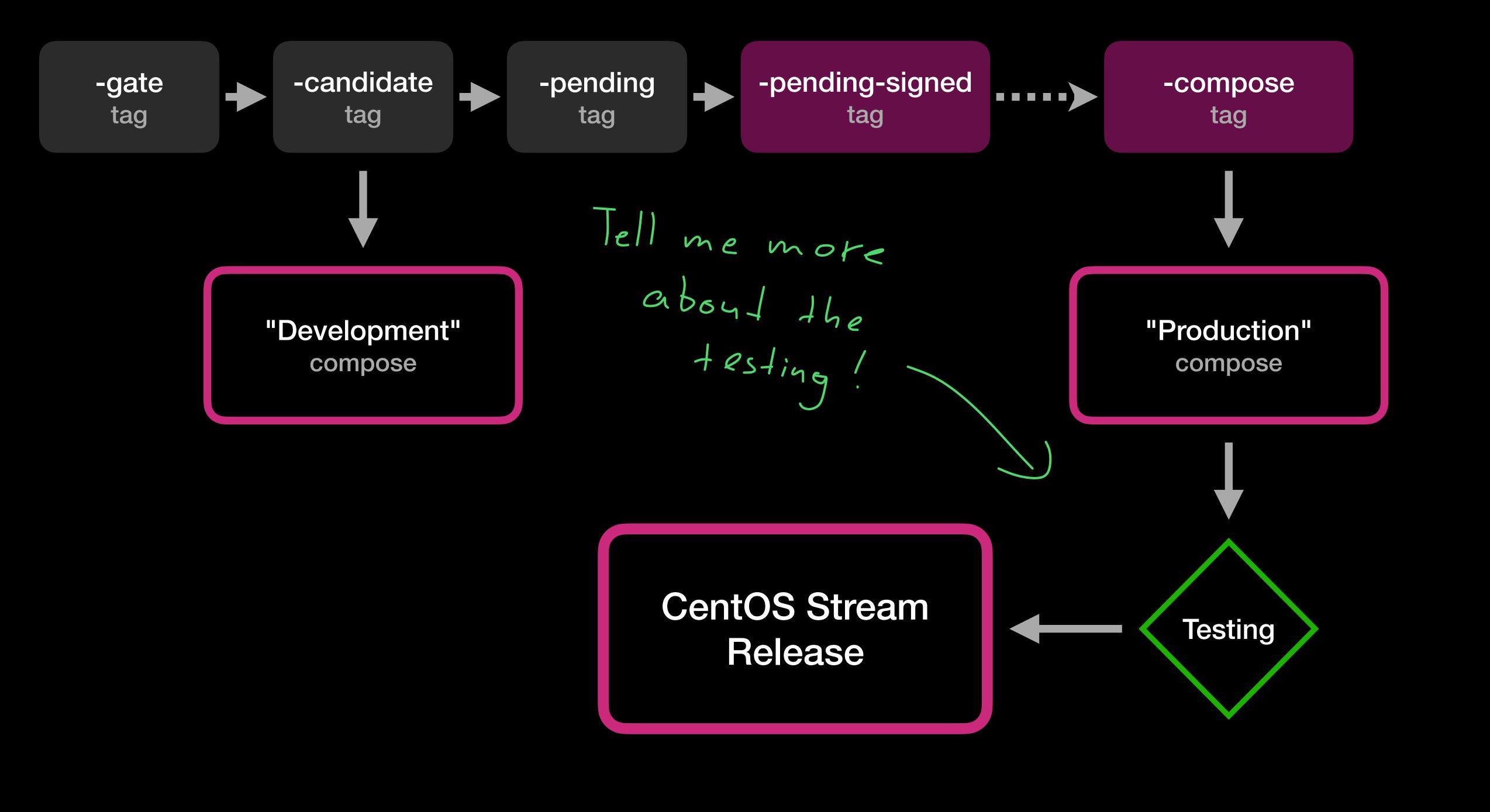
AWS image

qcow2 image

CentOS Stream Release

-devel packages, etc. Most of the content **AppStream** BaseOS CRB repository repository repository add-ons HighAvailability NFV ResilientStorage RT SAP SAPHANA repository repository repository repository repository repository netinstall iso **DVD** iso container AWS qcow2 image image image image image

More images? -> Alternative Images SIG





CentOS Integration SIG



8

https://testing.stream.centos.org



Q Search (%+K)

?

log in

Dashboard >



Build History

Tests the latest CentOS Stream 9 production compose: https://composes.stream.centos.org/production/

Build Queue



No builds in the queue.

Using the t_functional test suite:

https://github.com/CentOS/sig-core-t_functional

All c10s - compose

c9s - compose

Build Executor Status ~
1 Idle
2 Idle
3 Idle
4 Idle
5 Idle

s w	Name ↓	Last Success	Last Failure	Last Duration	Built On
⊘ ~	CentOS_9- stream _aarch64 _kvm	5 hr 48 min #205	5 days 19 hr #201	33 min	Jenkins
⊗ 흤	CentOS_9- stream_all	20 days #169	5 hr 48 min #183	33 min	Jenkins



8

 \sim

https://testing.stream.centos.org



Q Search (%+K)

?

log in

Dashboard > c10s - compose >



Build History

This is running the TMT tests maintained by the Integration SIG: https://gitlab.com/CentOS/Integration/compose-tests

Build Queue

No builds in the queue.

Learn how to contribute and/or join the SIG: https://sigs.centos.org/integration/

All c10s - compose

c9s - compose

Build Executor Status ∨
1 Idle
2 Idle
3 Idle
4 Idle
5 Idle

s	w	Name ↓	Last Success	Last Failure	Last Duration	Built On
×	Ç	CentOS _10- stream _aarch64 _kvm	20 days #24	5 days 5 hr #34	32 min	Jenkins
⊗	€	CentOS _10- stream	2 mo 6 days	5 days 5 hr #32	9 min 10 sec	Jenkins



https://testing.stream.centos.org

Dashboard > c10s - compose >

1 Idle
2 Idle
3 Idle
4 Idle
5 Idle
6 Idle
7 Idle
8 Idle
9 Idle
10 Idle
11 Idle
12 Idle
13 Idle

× Ç	CentOS _10- stream _aarch64 _kvm	20 days #24	5 days 5 hr #34	32 min	Jenkins
× 🔑	CentOS _10- stream _all	2 mo 6 days	5 days 5 hr #32	9 min 10 sec	Jenkins
× Ç	CentOS _10- stream _ppc64le _kvm	2 mo 2 days #6	5 days 5 hr #37	6 min 56 sec	Jenkins
× Ç	CentOS _10- stream _x86_64 _kvm	2 mo 2 days #6	5 days 5 hr #35	5 min 54 sec	Jenkins
× 🔐	CentOS _10- stream _x86_64 _metal	2 mo 6 days	5 days 5 hr #35	7 min 20 sec	Jenkins





https://sig.centos.org/integration



CentOS Integration SIG





CentOS Integration SIG

Overview

Introduction

Purpose of the SIG

Goals

Deliverables

First work items

How to join

Questions

Architecture

Compose Tests

Overview

Introduction

Integration is verifying that products and services built on top of RHEL or CentOS Stream will continue to work on CentOS Stream and the next release of RHEL and will not break on package updates.

As RHEL content becomes available only after the release, RHEL-based services traditionally use a catching-up integration pattern: people have to adjust their products and services to work on new RHEL after the update is shipped. Adjusting the services takes time, eating into the supported RHEL lifecycle period. It also reduces the options for how we can deal with breaking changes.

CentOS Stream provides a way to enable forward-looking integration: you can do the integration early during the development before the change is shipped to the CentOS Stream or RHEL repositories. This allows us to prevent or at least prepare better for any breaking changes, which might be shipped via CentOS Stream or RHEL updates.

Purpose of the SIG

Provide a shared space to develop and maintain tooling and knowledge base on collaborative gating and testing of CentOS Stream updates before they are published to CentOS mirrors. This includes both - package-level and compose-level integration.

GOALS

- · Document existing integration workflows used by other SIGs.
- · Identify common issues.



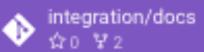


https://sig.centos.org/integration



CentOS Integration SIG





CentOS Integration SIG

Overview

Architecture

Compose Tests

Where to see the tests in action

How to run the compose tests locally

How to debug a specific test failure

How to contribute

Compose Tests

Thanks to the work done by Carlos Rodriguez-Fernandez the compose tests have been ported from the t_functional test wrapper to the tmt (Test Management Tool).

You can find new tests repository in the Integration SIG namespace on Gitlab.com:

https://gitlab.com/CentOS/Integration/compose-tests

Where to see the tests in action

For CentOS Stream 9 these tests run in the experimental Jenkins job:

https://testing.stream.centos.org/job/CentOS_9-stream_x86_64_kvm_Experimental%20-%20TMT%20test%20suite/

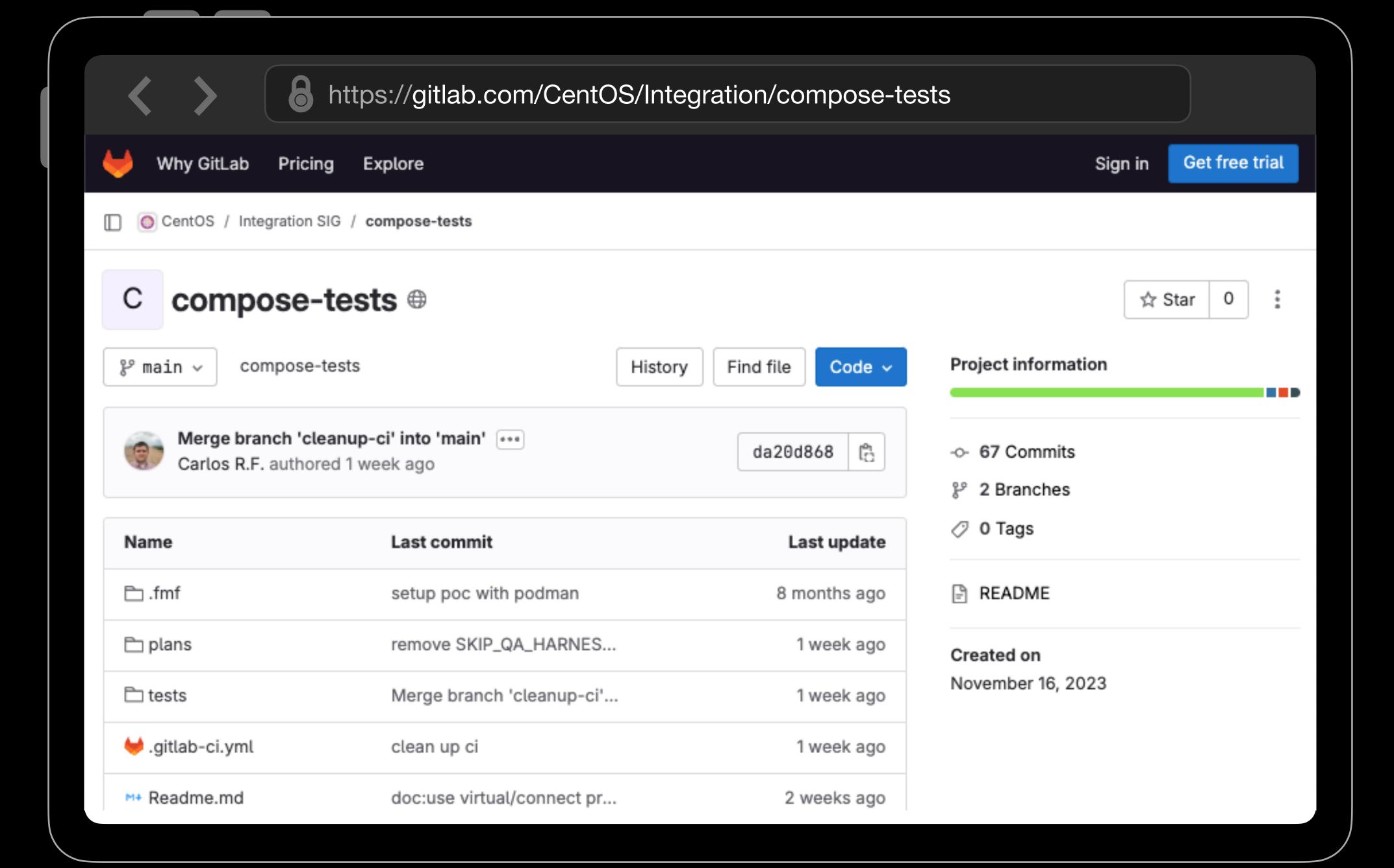
For CentOS Stream 10 we run the tests in the main Jenkins pipeline:

https://testing.stream.centos.org/job/CentOS_10-stream_all/

How to run the compose tests locally

Install the tmt tool and tmt plugin with libvirt support:

dnf install tmt tmt+provision-virtual





CentOS

SIGS (special interest groups)

CentOS Project

CentOS
Stream

Hyperscale
SIG

Artwork
SIG

SIG

Cloud
SIG

Automotive
SIG

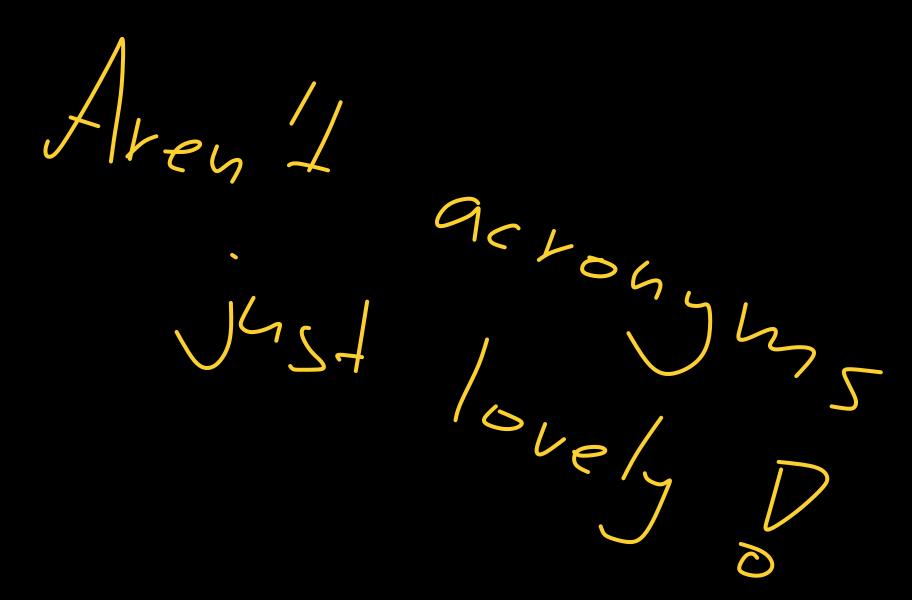
Kmods
SIG

CentOS Project

CentOS (the project) has two build systems:

1) CS Koji

2) CBS Koji



CentOS (the project) has two build systems:

- 1) CentOS Stream Koji
 - read-only outside Red Hat
- 2) Community Build System (Koji)
 - this is where CentOS SIGs build





https://www.centos.org/about/governance/sigs/



🕹 Download 🔞 About 🕆 🚢 Community 🕆 🗏 Documentation 🕆 🔘 Help

The CentOS SIGs

The Special Interest Groups (SIGs), are the teams responsible for their specific CentOS Project variants. Variants are specialized and focused rebuilds of CentOS to meet the needs and requirements of their corresponding communities and the technology associated with those communities.

SIGs are usually self-forming around a technology by a small community of enthusiasts and interested parties. In addition to the existing CentOS SIGs, it is expected that additional SIGs, as approved by the CentOS Board, will be created.

Each group will be responsible for its own variant in CentOS that is specifically targeted towards its community (e.g., The CentOS FooBar SIG creates a CentOS variant targeted to FooBar users and developers, the CentOS Hosting SIG builds a variant for web hosters, included in the CentOS distribution). The SIG is the deciding authority on what is required in their variant to satisfy the needs of their community, with the understanding that the Board has ultimate oversight as

Home / About / Governance / The CentOS SIGs

On this page:

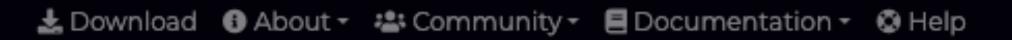
- CentOS Core SIG Responsibilities
- > Variant SIG Responsibilities
- > Functional SIG Responsibilities
- > SIG Governance
- > Community and SIGs
- Creating a new SIG



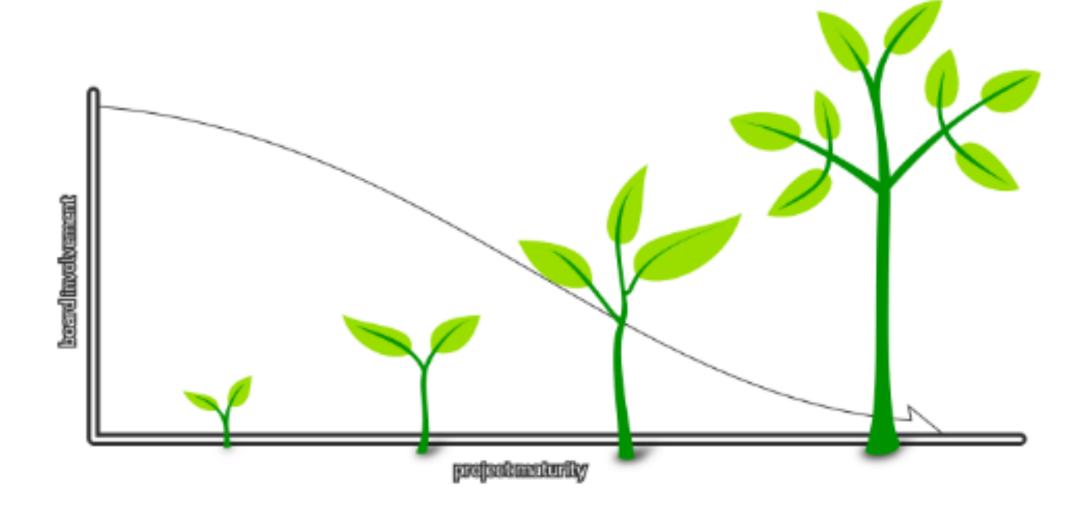


https://www.centos.org/about/governance/sigs/





SIG Governance



The SIGs themselves also have a merit path toward autonomy and accountability for Project aspects. The determination of merit level is reflected in the amount of oversight required by the Board and the SIGs ability to self-sign and release software builds. As merit increases, Board oversight goes down, with a transition spot in the middle where the SIG naturally obtains more autonomy, usually toward the end of the "Early" phase.

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On this page:

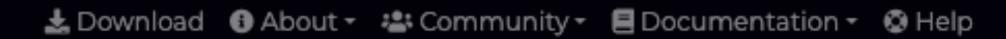
- CentOS Core SIG Responsibilities
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- > Community and SIGs
- > Creating a new SIG
- > Retiring a SIG





https://www.centos.org/about/governance/sigs/





Creating a new SIG

The process of creating a new SIG involves two major components: community building and the administrative side.

Bring your SIG proposal first to the centos-devel mailing list to find other likeminded people who wish to start the SIG with you. Also look around outside of the CentOS project for people who may want to distribute projects on CentOS

Once you have a core group that wants to make this happen, open a ticket on the board issue tracker with your proposed SIG, and someone there will walk you through the process.

For the current list of active SIGs, refer to http://wiki.centos.org/SpecialInterestGroup

Retiring a SIG

If a SIG misses two of their quarterly reports in a row: then the community manager should contact the members listed in the account system. More than a single attempt at contact should be made. If the SIC responds they can be

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CentOS Stream

Contributions

CentOS
Stream

Hyperscale
SIG

Artwork
SIG

SIG

Cloud
SIG

Automotive
SIG

Kmods
SIG

CentOS Project

CentOS
Stream

Hyperscale
SIG

Artwork
SIG

SIG

Alternative
Images
SIG

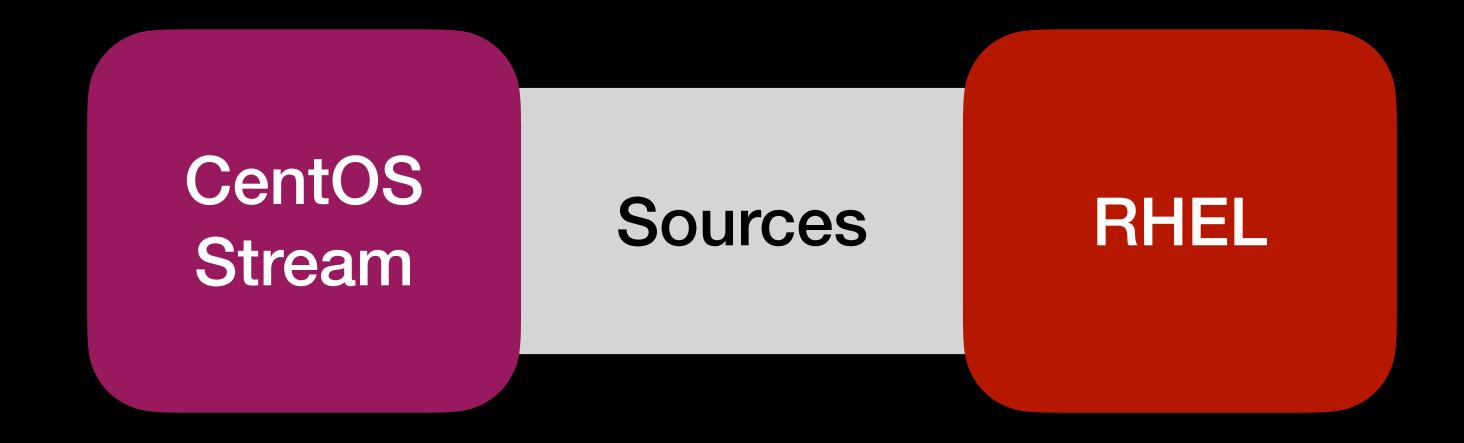
SIG

Automotive
SIG

Kmods
SIG

CentOS Project

CentOS Stream
Sources
RHEL



Application Compatibility Guide (ACG)



Products & Services > Knowledgebase > Red Hat Enterprise Linux 9: Application Compatibility Guide

Red Hat Enterprise Linux 9: Application Compatibility Guide

Updated May 25 2022 at 1:05 PM - English ▼

Red Hat Enterprise Linux 9: Application Compatibility Guide May 2022

Note: This article discusses application compatibility for Red Hat Enterprise Linux 9. For Red hat Enterprise Linux 8, please see the Red Hat Enterprise Linux 8: Application Compatibility GUIDE.

Terminology

The following are basic terms used in this document:

Application programming interface (API)

An API is a public interface implemented by a software program that enables it to interact with other software, including operating system components. The API is enforced at compile time and determines source compatibility, that is, whether application source code will compile similarly across different versions of the operating environment. It covers details such as:

- C and C++ headers for developer use
- Language syntax, but only where it applies to a published standard
- Public interface definitions
- Command line interfaces, but only where it applies to documented public interfaces

Application binary interface (ABI)

An ABI is a set of runtime conventions that interact with a compiled binary representation of a program. The ABI is enforced at runtime and it describes the low-



ABI conformance

A compiler conforms to an ABI if it generates code that follows all of the specifications enumerated by that ABI. A library conforms to an ABI if it is implemented according to that ABI. An application conforms to an ABI if it is built using tools that conform to that ABI and does not contain source code that changes behavior specified by the ABI or that otherwise bypasses the ABI.

Binary compatibility

Binary compatibility means application binaries that are compiled for a specific ABI, generally for a combination of RHEL and a particular hardware architecture, will load and run similarly across different versions of RHEL. Application binaries consist of executable files, Dynamic Shared Objects (DSO), source, bytecode for interpreted just-in-time compiled languages, and their required data files.

Core persistent system infrastructure

The core persistent system infrastructure refers to interfaces and externally available data structures that represent system state or provide a means of communicating with the system (for instance, system calls and header files).

Compatibility in a virtualized environment

Virtual environments emulate bare-metal environments such that unprivileged

Compatibility levels

All components and packages in Red Hat Enterprise Linux are classified under one of the following four compatibility levels:

Compatibility level 1

 APIs and ABIs are stable within the lifetime of a major release and ABIs are also stable across the next two major releases; the release that introduces a new or revised ABI, and the two following major releases (n, n+1, n+2). In the case of this document, release n starts with Red Hat Enterprise Linux 9. If a change to a library causes an incompatibility with existing binaries, a separate version of the library will be provided with the older ABI to run the application without modification.

Compatibility level 2

 APIs and ABIs are stable within the lifetime of a single major release. Compatibility level 2 application interfaces will not change from minor release to minor release and can be relied upon by the application to be stable for the duration of the major release. Compatibility level 2 is the default for packages in Red Hat Enterprise Linux
 Packages not identified as having another compatibility level may be considered compatibility level 2.

Compatibility exceptions

The following are exceptions to compatibility in RHEL.

SystemTap static probes

No assurances are made at this time that integrated SystemTap static probes will
continue to have the same probe name, probe location, or interpretation or number of
arguments. Since the probes are primarily designed for deep analysis and debugging,
the probes must be able to change as the underlying implementation changes.

Static linking with the C/C++ runtime

Static linking with the C/C runtime is not supported. This includes linking with any files
that are part of the `glibc-static` or `libstdc`-static packages. You may choose to link
statically, but the resulting application binaries may fail to operate if any package in the
installation is changed.

C/C++ application sanitizers

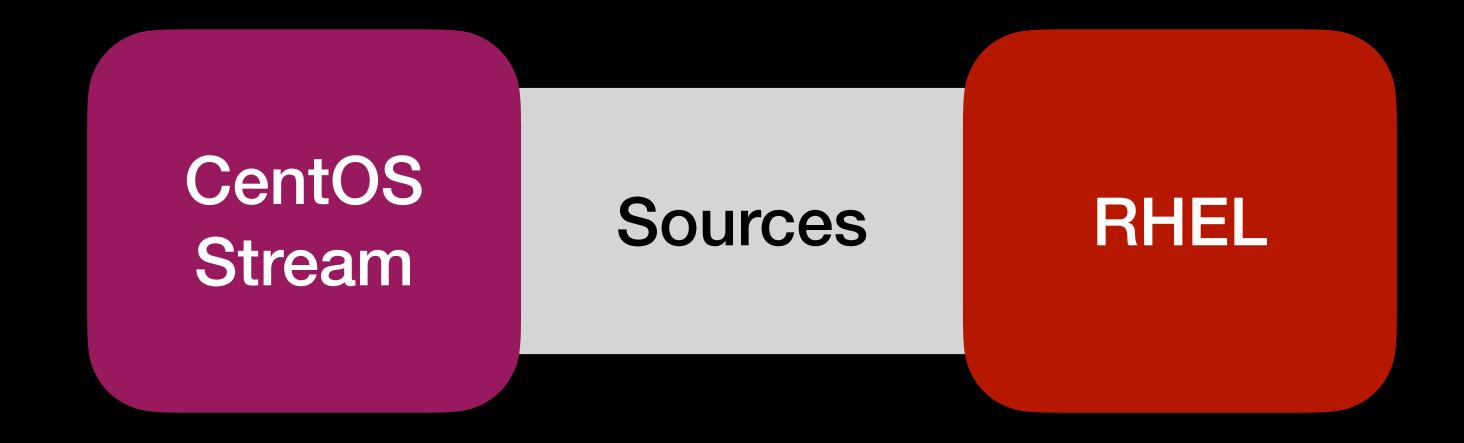
C/C++ applications built with the compiler option -fsanitize=[option] cannot participate in the API or ABI guarantees provided in this document. The sanitizer

< >

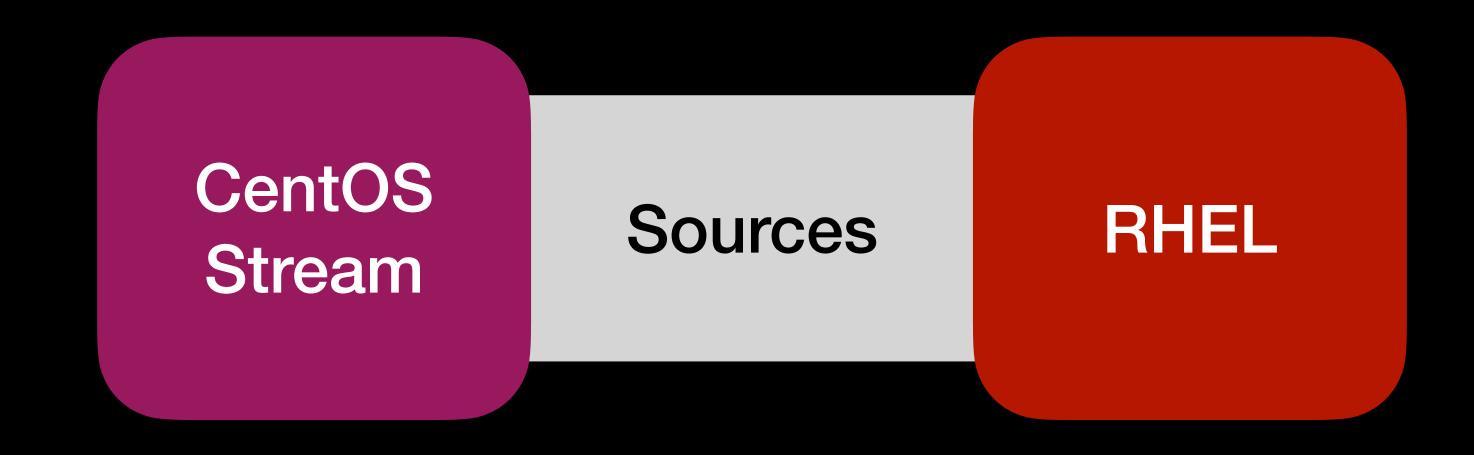
Guidelines for preserving binary compatibility

Red Hat recommends that application developers adopt the following principles in order to improve binary compatibility:

- Use only libraries and applications listed in the compatibility level that suits your application needs.
- Build applications using the published interfaces of a library. Non-published (internal)
 interfaces are subject to change at any time, which can cause instability in the
 dependent application if relied upon.
 - If the library provides a development package, you must install and use that
 development package, including any provided headers, for your own development.
 If the library does not provide a development package or does not provide a set of
 headers and shared object for linking, then the API and the ABI of that library is not
 covered by any compatibility guarantees.
 - You must link with all libraries that are required by your application. Failing to link against all required libraries is called "underlinking." An underlinked application cannot take advantage of ABI compatibility.

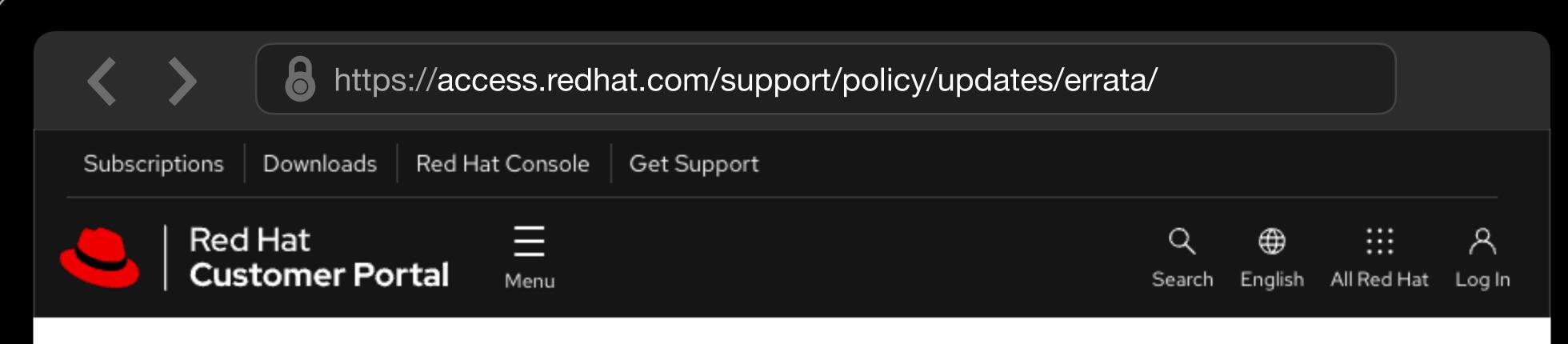


Application Compatibility Guide (ACG)



Application Compatibility Guide (ACG)

Red Hat Enterprise Linux Life Cycle



Support > Life-cycle & Update Policies > Red Hat Enterprise Linux

Red Hat Enterprise Linux Life Cycle

Overview

Details

Production Phases

- Full Support Phase
- Maintenance Support Phase
- Extended Life Phase

Red Hat Enterprise Linux 8 and 9 Life Cycle

- RHEL 8 Planning Guide
- RHEL 9 Planning Guide
- Red Hat Enterprise Linux Application Streams Life Cycle

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https://access.redhat.com/support/policy/updates/errata/

Red Hat Enterprise Linux Version 8 and 9

Red Hat understands the importance of life cycle planning for our customers, partners, ISVs, and the Red Hat Enterprise Linux ecosystem. With the introduction of Red Hat Enterprise Linux version 8, Red Hat simplified the RHEL product phases from four to three: Full Support, Maintenance Support, and Extended Life Phase. We are also providing information on anticipated release dates and minor releases that will offer extended support.

Red Hat Enterprise Linux Version 8 and 9 delivers a ten year life cycle in Full Support and
Maintenance Support Phases followed by an Extended Life Phase. In addition, Red Hat
Enterprise Linux 8 and 9 customers may purchase annual Add-on subscriptions called Extended
Life-cycle Support (ELS) to extend limited subscription services beyond the Maintenance
Support Phase.

Life Cycle Viii:

							Extended Life Cycle Support (ELS) Add-on					
Full Supp 5 years	oort				Maintena 5 years	nce Suppor	t			Extended	d Life Phase	
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13



Red Hat Enterprise Linux Life Cycle

Description	Full	Maintenance Support	Extended Life Phase ⁷	Extended Life Cycle Support (ELS) Add- On ⁸	Extended Update Support (EUS) Add-On ⁸ Enhanced Extended Update Support (Enhanced EUS) Add-On ⁸
Access to Previously Released Content through the Red Hat Customer Portal	Yes	Yes	Yes	Yes	Yes
Self-help through the	Yes	Yes	Yes	Yes	Yes

Technical Support ¹	Unlimited	Unlimited	Limited ⁹	Unlimited	Unlimited
Asynchronous Security Errata (RHSA) ¹⁰ ¹¹	Yes	Yes	No	Yes ⁸	Yes ⁸
Asynchronous Bug Fix Errata (RHBA) ² ¹¹	Yes	Yes	No	Yes	Yes
Minor Releases	Yes	No	No	No	No
Refreshed Hardware Enablement ³	Native	Using Virtualization	Using Virtualization	Using Virtualization	Using Virtualization
Software Enhancements ⁵	Yes ⁶	No	No	No	No
Updated Installation Images	Yes	Yes ¹⁴	No	No	No

Red Hat Enterprise Linux Production Phases

Full Support Phase^{iv}:

During the Full Support Phase, Red Hat defined Critical and Important Security errata advisories (RHSAs) and Urgent and Selected (at Red Hat discretion) High Priority Bug Fix errata advisories (RHBAs) will be released as they become available. Other errata advisories may be delivered as appropriate.

If available, new or improved hardware enablement and select enhanced software functionality may be provided at the discretion of Red Hat, generally in minor releases. Hardware enablement that does not require substantial software changes may be provided independent from minor releases at Red Hat's discretion.

Minor releases will also include available and qualified errata advisories (RHSAs, RHBAs, and RHEAs). Minor releases are cumulative and include the contents of previously released updates. The focus for minor releases during this phase lies on resolving defects of medium or higher priority.

Updated installation images will be provided for minor releases during the Full Support Phase.

Maintenance Support Phase:



Maintenance Support Phase :

During the Maintenance Support Phase for Red Hat Enterprise Linux Version 8 & 9 Red Hat defined Critical and Important^{ix} impact Security Advisories (RHSAs) and selected (at Red Hat discretion) Urgent Priority Bug Fix Advisories (RHBAs) will be released as they become available. Other errata advisories may be delivered as appropriate.

New functionality and new hardware enablement are not planned for availability in the Maintenance Support Phase.

Extended Life Phase:

During the Extended Life Phase, a Red Hat Enterprise Linux subscription provides continued access to previously released content on the Red Hat Customer Portal, as well as other content such as documentation and the Red Hat Knowledgebase. Advice for migrating to currently supported Red Hat Enterprise Linux versions may also be provided.

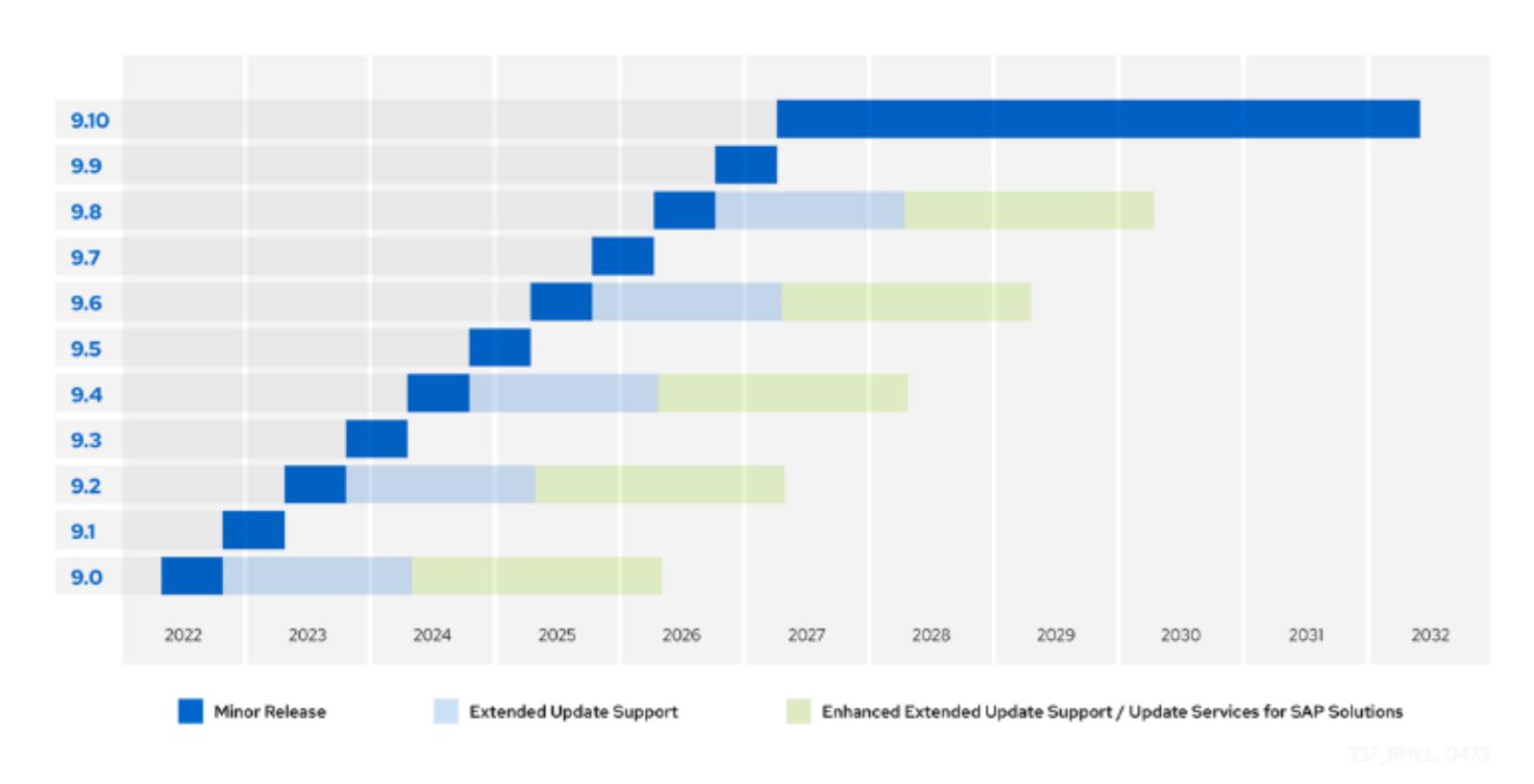
For versions of products in the Extended Life Phase, Red Hat will provide limited ongoing technical support. No bug fixes, security fixes, hardware enablement or root-cause analysis will be available during this phase, and support will be provided on existing installations only.

Red Hat reserves the right to terminate the ongoing support in the Extended Life Phase for a

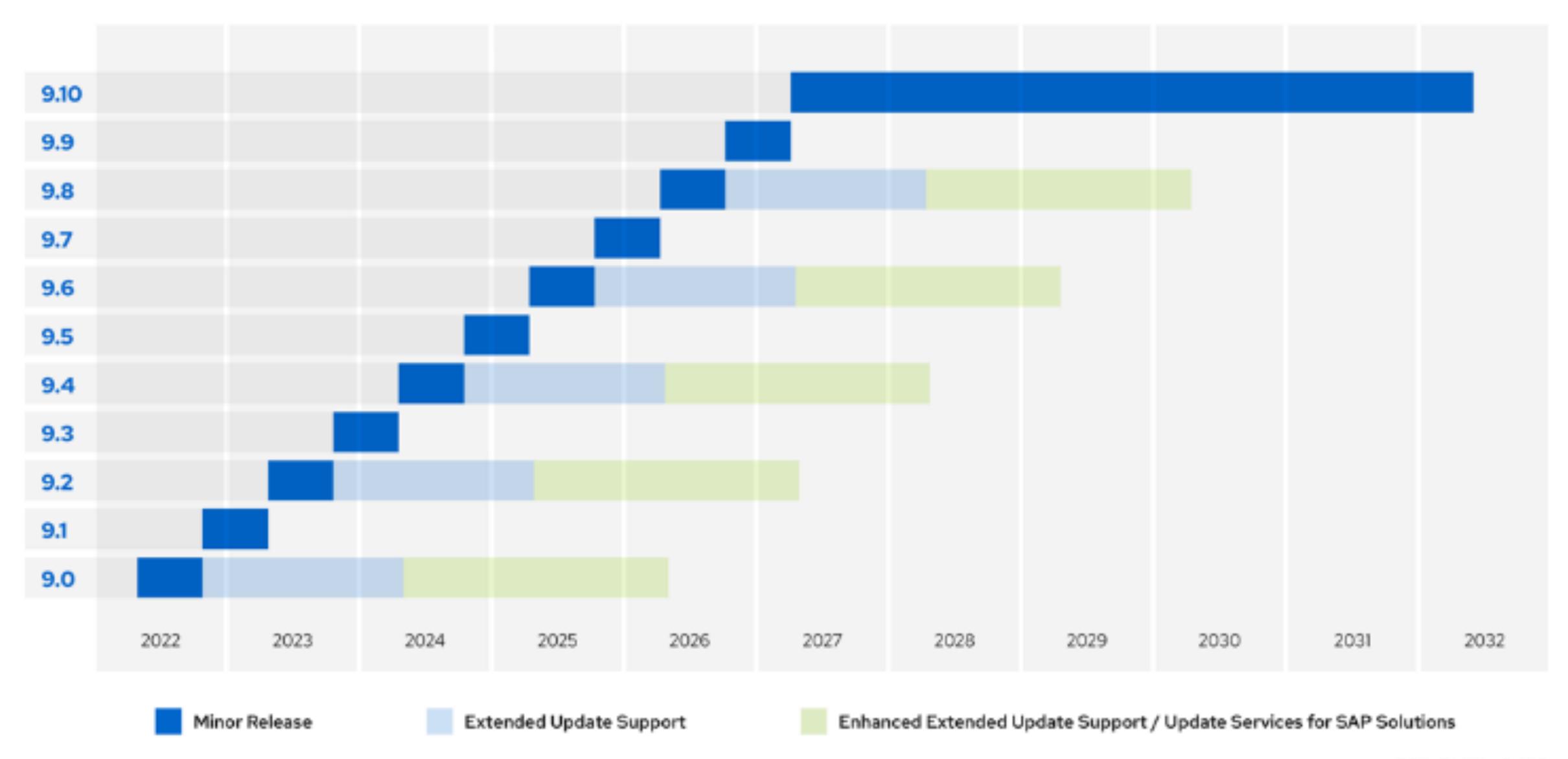




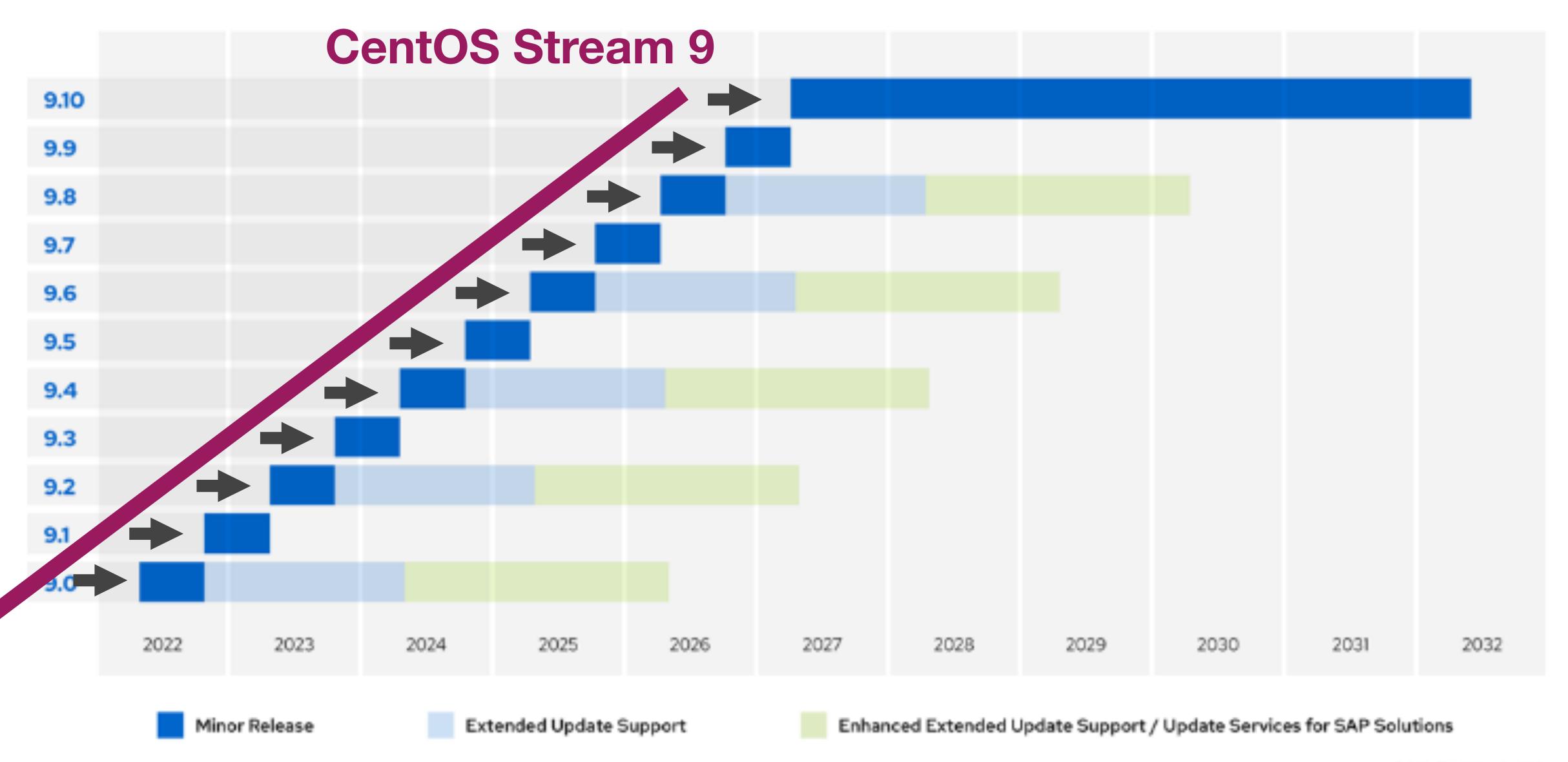
RHEL 9 Planning Guide^{viii}

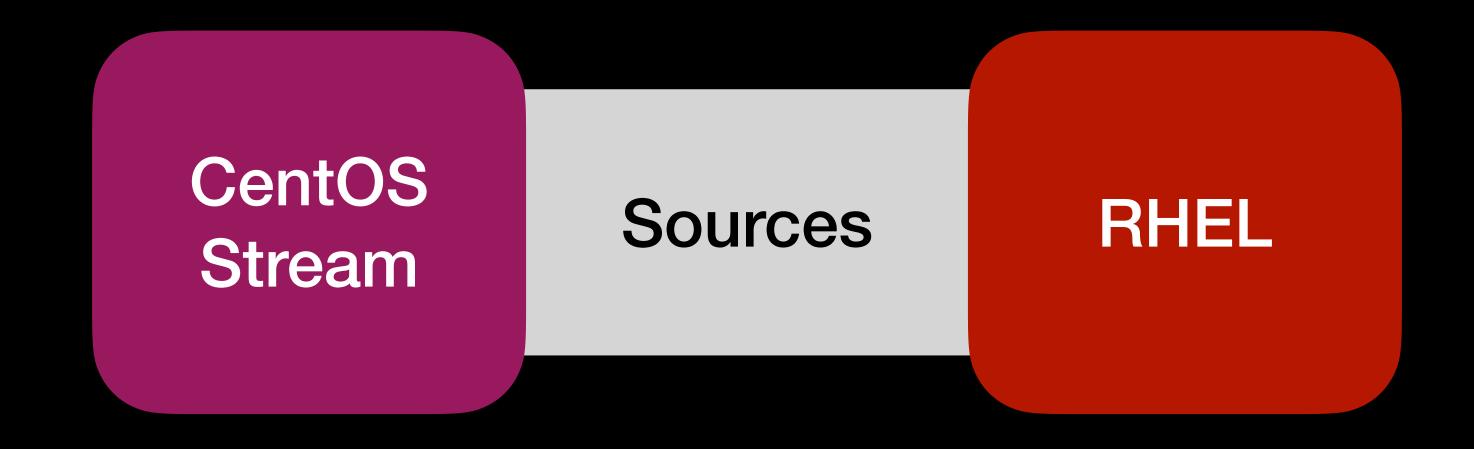


RHEL 9 Planning Guide^{viii}



RHEL 9 Planning Guide^{viii}





Application Compatibility Guide (ACG)

Red Hat Enterprise Linux Life Cycle

Steps:

- 1) Jira ticket talk to the maintainer first
- 2) Merge Request
- 3) Maintainer decides whether and when to merge



"stable" updates from upstream

backported features

ABI-incompatible updates

? docs, typos, man pages

more disruptive updates



It all starts in

Fedora

egsier to change Fedora Rawhide CentOS Stream / RHEL sources sources Fedora CentOS Fedora RHEL Rawhide ELN Stream Fedora RHEL build flags build flags ~23k SRPMs ~2,5k SRPMs

What about EPEL 7.



Fedora Project

Innovation in the OS itself

The latest & greatest

6 / 13 month lifecycle



CentOS Project

Innovation on top of the OS - SIGs!

OS maintained by RHEL engineers - CentOS Stream

3 / 5 -ish year lifecycle

CS is a preview of RHEL - use it in CI

Thank you!



CentOS Stream

- preview of RHEL
- solid base for CentOS SIGs

https://docs.centos.org/en-US/stream-contrib/quickstart/

https://issues.redhat.com ('RHEL' project)

https://gitlab.com/redhat/centos-stream/rpms

https://kojihub.stream.centos.org

https://composes.stream.centos.org

https://testing.stream.centos.org

https://mirrors.stream.centos.org

https://asamalik.fedorapeople.org/2024-flock/