



Distill Deep Dive +Koji

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About

- 8 Years with the Hat
 - In Rel-Eng the whole time
 - Project, Process, and Policy
- Violent Hobbies:
 - Drums
 - Paintball
 - Various video games



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Koji Tagging

Tags group **builds** together. We do this by **product stream** internally.

- rhel-7.3
- rhel-6.9
- satellite-5.8-rhel-6
- satellite-5.8-rhel-5
- ceph-2.2-rhel-7

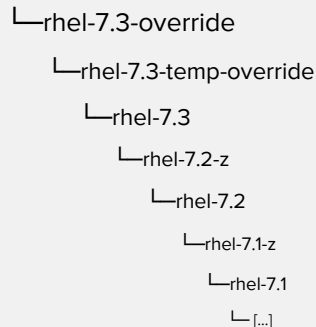
Koji Tag Inheritance

Each product stream has **inheritance hierarchies** to distinguish between untested, tested, and released builds.

Automated jobs keep the tags in sync with other services.

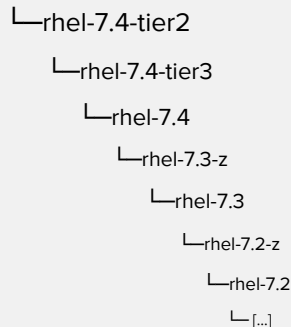
Standard

rhel-7.3-build



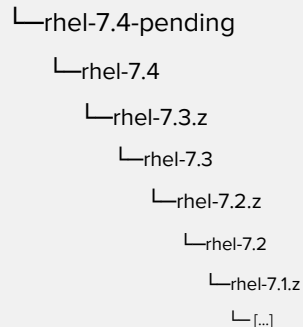
CI

rhel-7.4-tier1



Composition

rhel-7.4-compose



Distill

Distill is internal only and the precursor to **Pungi**, which is an open source project. Pungi is used in Fedora today.

Product composes are completed in phases.

- **pkgset** - figure out what to include
- **buildinstall** - create boot.iso and other media
- **gather** - copy RPMs and extra files to the results directories
- **createrepo** - turn the directories into yum repositories
- **producting** - create the installation media (ISOs)
- **container, liveimg** - create appliances and containers
- **test** - sanity testing of the results

Composing

A product compose using Distill or Pungi is driven by a configuration file that describes:

- **architectures** to include
- which Koji tags to consider (*-pending or *-compose)
- product name, version, and other metadata
- whether to construct images, containers, and other content types
- where to write the results and how to announce them
- where to pull other files like EULAs, Licenses, etc

Managing Composes

We compose products based on a variety of triggers, events, and requests. Keeping them organized is a team-wide job.

- Which is latest?
- Which is the last good?
- What is new and fresh in the latest compose?

All composes have a metadata file that contains a lot of identifying information and details about itself on the filesystem.

Among that information is the compose **type** which we use to express composes meant for CI, Milestones, or some other purpose.

Pungi

Have a look at Pungi:

- <https://pagure.io/pungi>

RFEs, Bugs, and other requests should go to **Pagure**, Fedora's GitHub-like project site.

- <https://pagure.io/pungi/issues>
- You'll need a FAS account



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