fedora

Building Fedora Layered Container Images



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About me



Fedora

Barely active Fedora package maintainer

Red Hat

OSBS and related container image build tooling



What are Layered Images?



		some httpd module (e.g., mod_psgi)
	httpd	httpd
Fedora Base Image	Fedora Base Image	Fedora Base Image

Motivation

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Docker Hub new rate limits

- Did that break your CI too?
- We could just move to some other registry (e.g., quay.io)

Fedora mass rebuilds*

Efortless dependency updates every 6 months!

Automatic rebuilds*

CVE? No problem! Rebuild all images with that CVE

Not possible for Docker Hub images yet

Who is tracking dependencies? We definitely are!

^{*} Features in place but not active in Fedora

registry.fedoraproject.org



f33 unquilified search registries

["registry.fedoraproject.org", "registry.access.redhat.com", "registry.centos.org", "docker.io"]

rawhide unquilified search registries

["registry.fedoraproject.org", "registry.access.redhat.com", "docker.io", "quay.io"]



What can I ship in Fedora Layered Images?

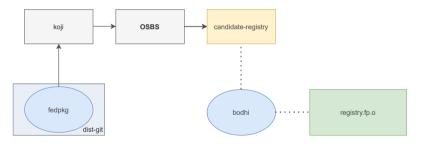


- ► RPM packages
- Configurations
- Documentation
- Modules
- Flatpaks

How can I ship Fedora Layered Images?

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- Similar process as for RPM packages
- Package Review Process





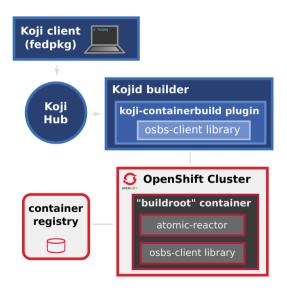
OSBS - OpenShift Build Service



- set of tools to build and release layered container images
- github.com/containerbuildsystem
- osbs.readthedocs.io



OSBS









DEMO

pagure.io/ContainerSIG/container-sig/issues



Tooling/processes need improvements

- Automated version labels?
- ► DISTTAG?
- Koji package separation from RPMs
- Container Review Process





Questions? athoscr@fedoraproject.org

Useful links

docs.fedoraproject.org/en-US/containers/guidelines/guidelines pagure.io/ContainerSIG/container-sig/issues osbs.readthedocs.io

