In the Cloud with Kiwi openSUSE Conference Sweetening heterogeneous Linux deployments # oSC24 @openSUSE project@lists.opensuse.org

Introductions

David Duncan

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- Sr. Manager, Partner Solutions Architect
 - Sr. Member of the Fedora Cloud WG
 - Contributor and package maintainer in Fedora
 - Chair of Fedora Cloud WG
 - Member of CentOS Hyperscale SIG
 - Member of CentOS Alternative Images SIG

Neal Gompa

- Open Source Advocate
- Contributor and package maintainer in Fedora and CentOS
- Member of Fedora Engineering Steering Committee (FESCo)
- Chair of Fedora Asahi and KDE SIGs.
- Member of Fedora Workstation, Fedora Cloud, and Fedora Server WGs
- Co-chair of CentOS Hyperscale SIG
- Member of AlmaLinux Engineering Steering Committee (ALESCo)
- Member of CentOS Alternative Images SIG
- Member of KDE, e.V.
- Member of X.Org Foundation Board of Directors
- Co-host of the Sudo Show podcast
- Principal Consultant at Velocity Limitless

Kiwi



A flexible "appliance" image build tool from the openSUSE project

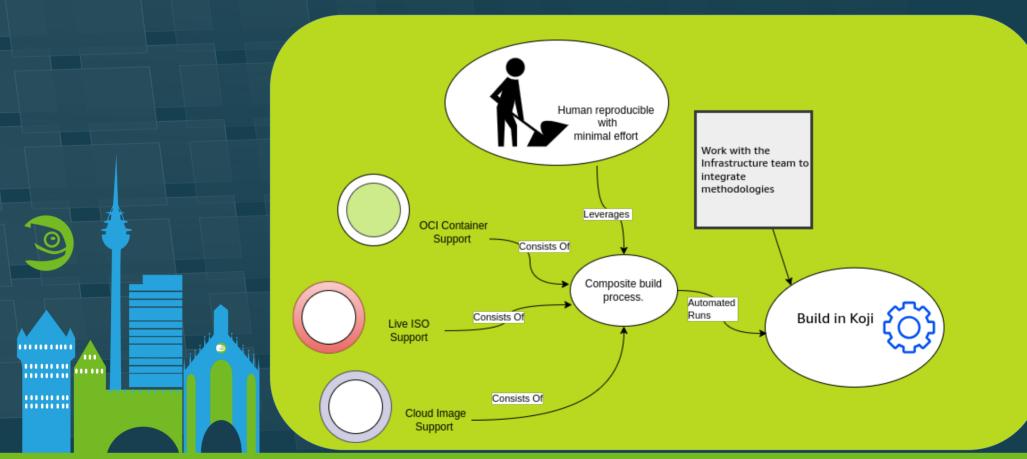
Straightforward and idiomatic XML/YAML/JSON descriptions with script hooks

Flexible

Builds almost any type of image Provides an API to construct custom image types

Automatically produced SBOM artifact logs Free and Open Source Software (GPLv3+) Actively developed and maintained Friendly developers

Why Kiwi?



Balanced Review

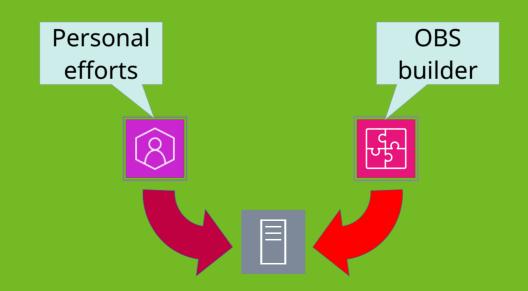
- Support for WSL
- Support for OCI Containers
- Repeatable builds
- Live Images
- Composable builds
- Ability to integrate with Other Editions and Spins
- Active Support in the Working Group

- Lack of API stability
- Lack of OCI Container build support.
- Missing support for ISOs
- Complicated to reproduce the build environment.



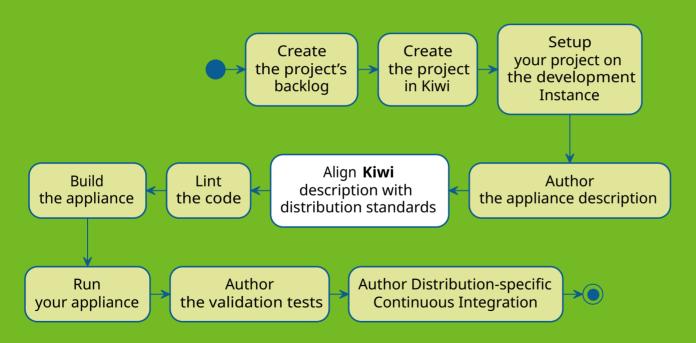
Solutions for builders and users alike

- Building usingCI
- Exploring as a User





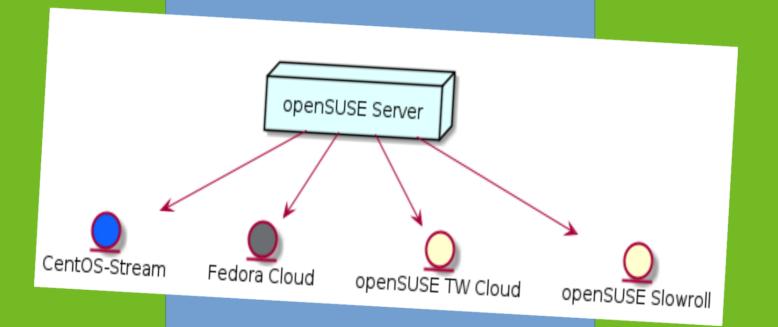
Process Review



https://pagure.io/fedora-kiwi-descriptions

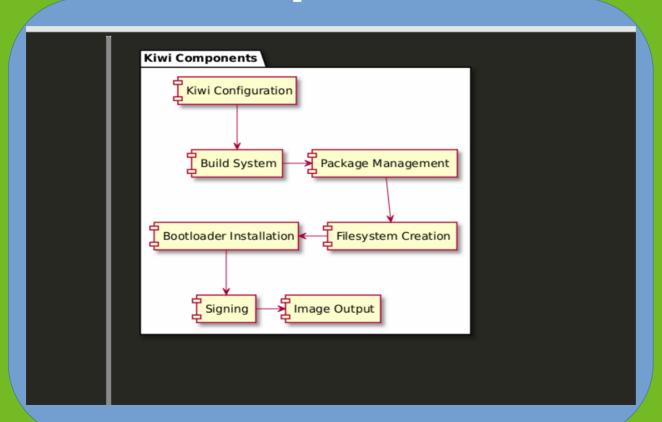


Build Multiple OS Types



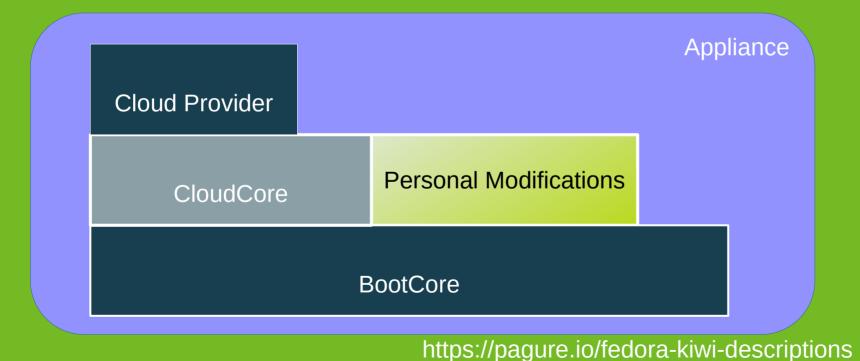


Component Review



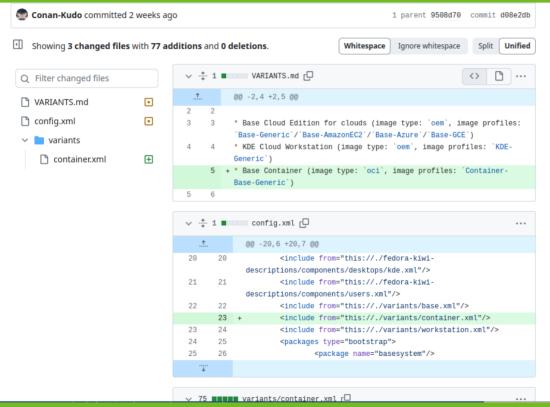


Under the Hood: Definitions



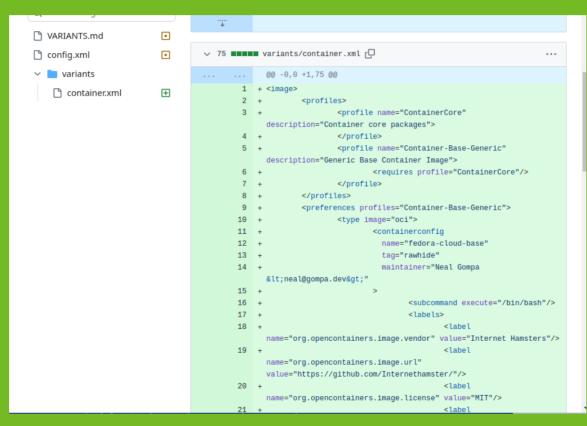


Under the Hood:



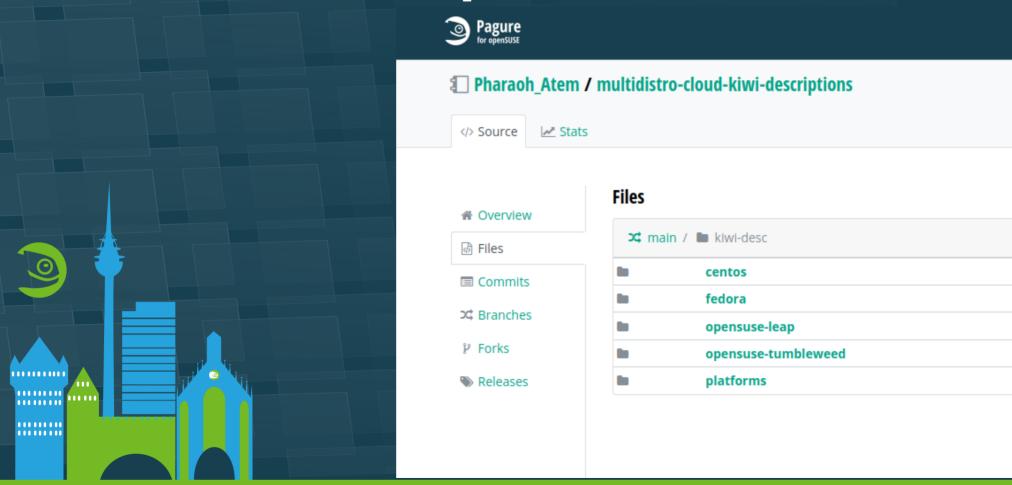


Under the Hood:





Unified Description



https://code.opensuse.org/Pharaoh_Atem/multidistro-cloud-kiwi-descriptions

