openSUSE.org Build Service

a short introduction

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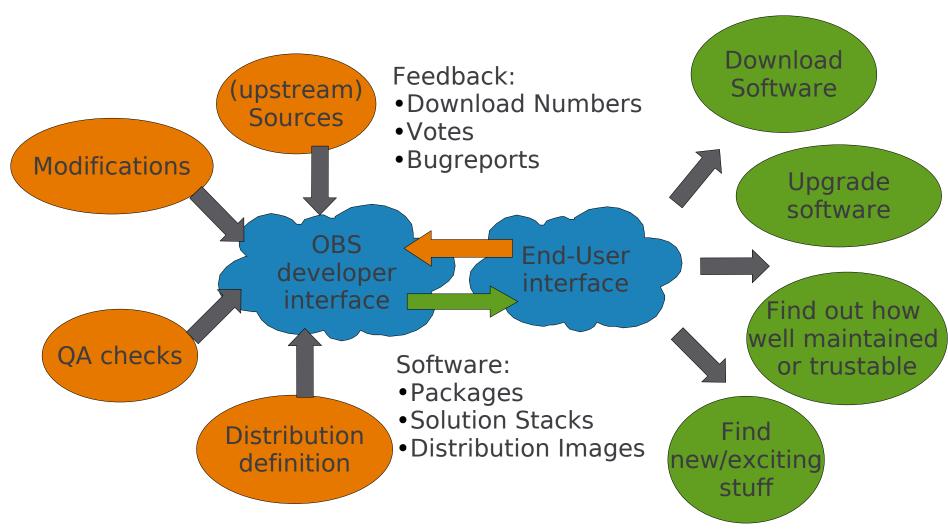


Goals of the Build Service

- Open the openSUSE distribution development itself
- · Make it simple to provide binary packages of software
- · Maintain sources once, offer packages for everybody
- Make the distribution creation transparent and reproducable
- · Support the "Release early, Release often" approach
- · Involve and connect the open source communities
- Make it easy and secure to install new software
- · Having fun with new software!

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What does it do?





What is the Build Service?

Server Infrastructure

- · The Build Service server hosts all sources
- · provides the build systems to create packages
- provides download and mirror infrastructure for packages
- · is the communication framework

A set of CLI tools:

- The tools are used for local operations on the workstation
- or for remote operations on the openSUSE server

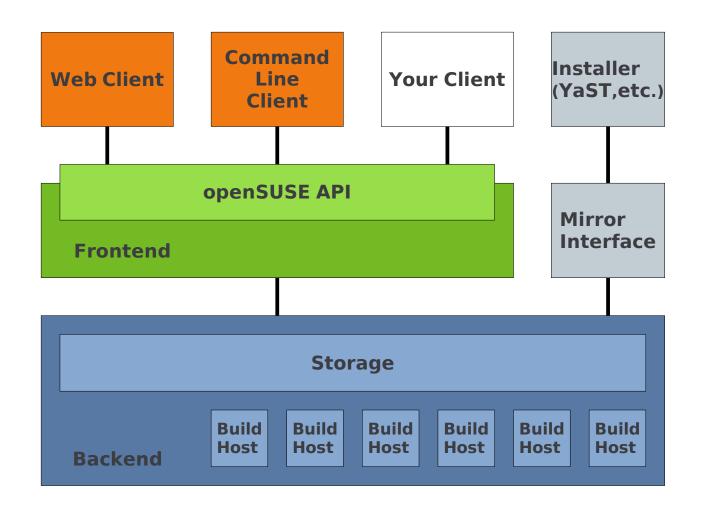
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The open design of the Build Service

- · Everyone is able to use the Build Service.
- The Build Service tools are open source.
- · The Build Service provides a public API.
- The Build Service is not limited to SUSE based distributions
- · Integration with existing web pages is possible.

Build Service Architecture

Components Overview



Project Modell



Project Model 1/2

A project is a workspace which can be created by any user. It may contain:

- · a list of users with write access to it
- · sources or a description how to download them
- link to existing sources to be built in a different environment
- changes for existing packages
- a list of build targets to build binary packages for

The result will be one or more package

© repositories.



Project Model 2/2

amaroK HEAD Project KDE 4 Project amaroK qt kdelibs kdebase kdepim oS 10.2 oS Factory Debian klik image? Current State / Next steps



Current State

- · Everybody can register at build.opensuse.org
- Package building for SUSE, Mandriva, Fedora, Debian, Ubuntu works
- End User can access software is possible via http://software.opensuse.org/search

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Current WIP

- Developer collaboration (enables Factory contribution)
 - Merge request and execution
 - Inter OBS instance communication
- · Improving GUI to become more userfriendly
- Supporting image building (installation iso, Live-CD, ...)
- Notifications
- General improvements



Possible tasks for this year

- · Complete the distribution build support
 - Maintanance handling
 - Hidden builds (needed for security fixes)
- · Decentral hosting of openSUSE Build Service
- Trust system to rate developers
- · LSB conform builds
- · QA and automated test case framework



Future Topics

- · Future ideas are collected at
- http://www.opensuse.org/Build_Service/Future_Id
- Template based package creating
- Translation framework



Resources

http://build.opensuse.org

A running instance of the Build Service.

Contains links to documentation and source.

opensuse-buildservice@opensuse.de

The mailing list for discussing the Build Service.

#opensuse-buildservice on freenode
Our IRC channel

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Join the Lizard Blizzard!



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