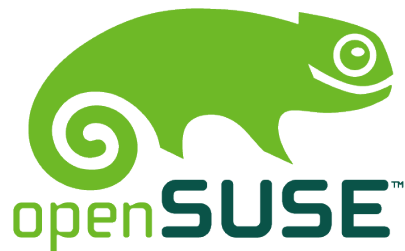


# openSUSE.org Build Service

## a short introduction

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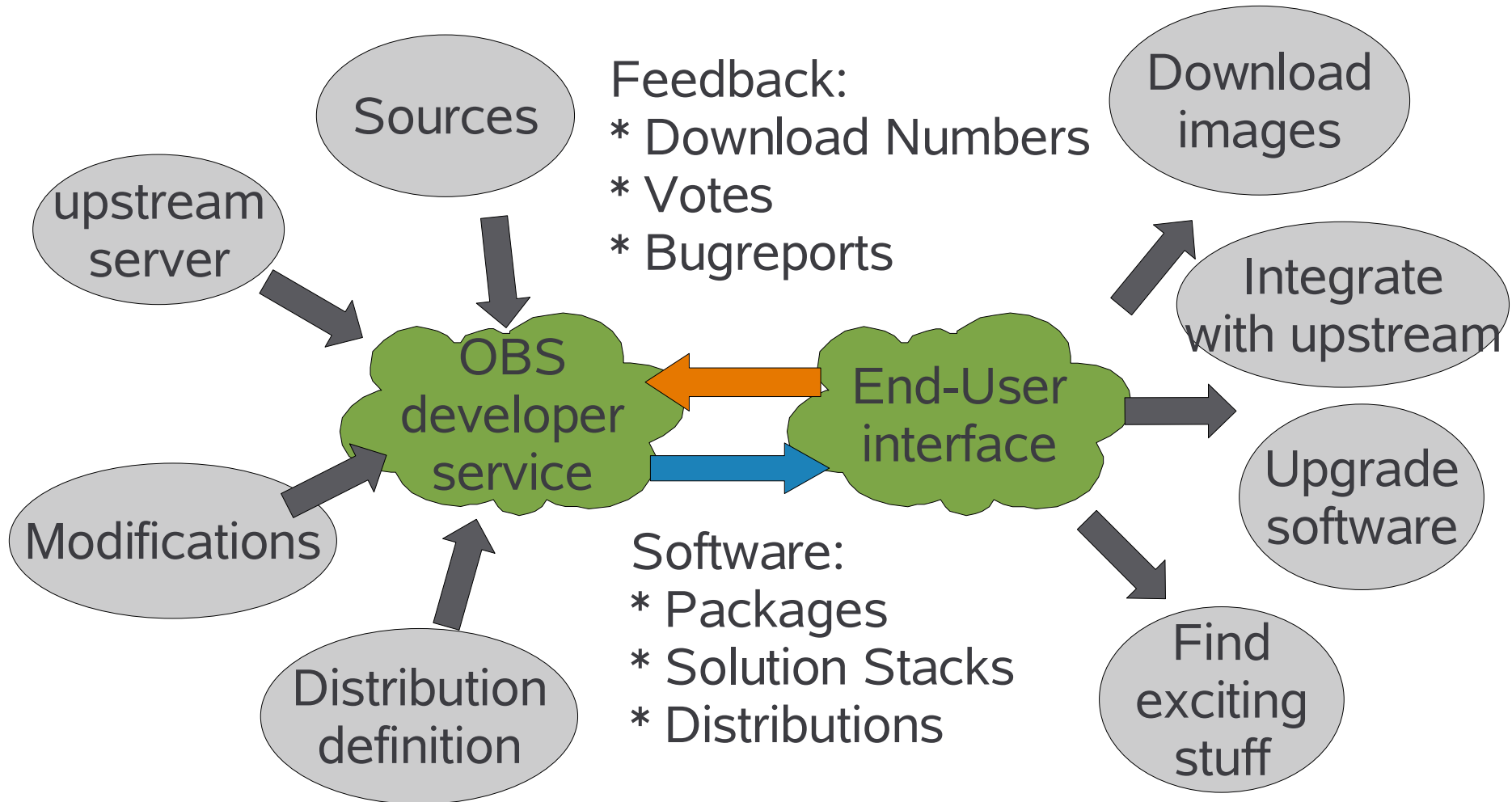


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# Goals of the Build Service

- 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 reproducible
- 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 !

# 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 tools:

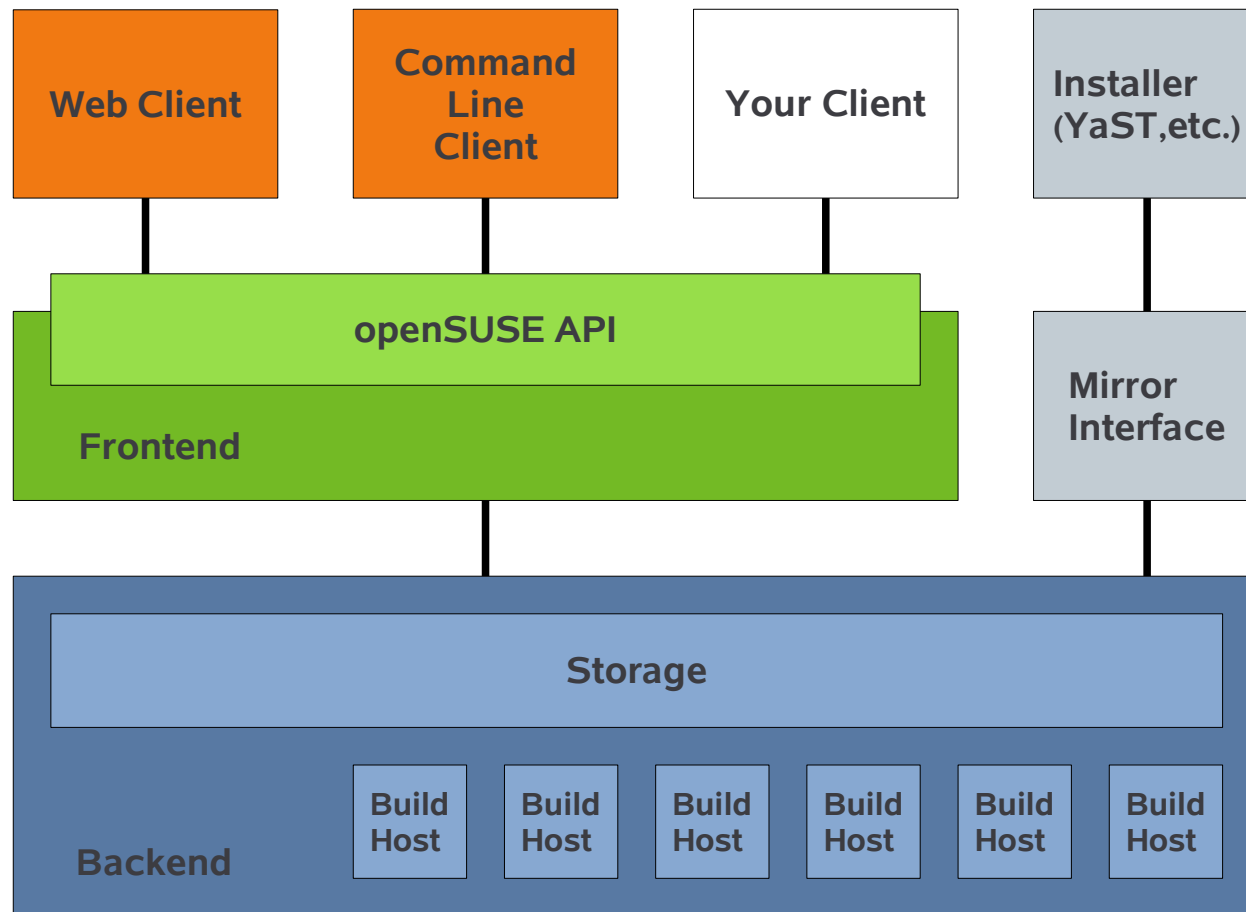
- The tools are used for local operations on the workstation
- or for remote operations on the openSUSE server.

# The open design of the Build Service

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

# Build Service Architecture

# Components Overview



# Project Modell



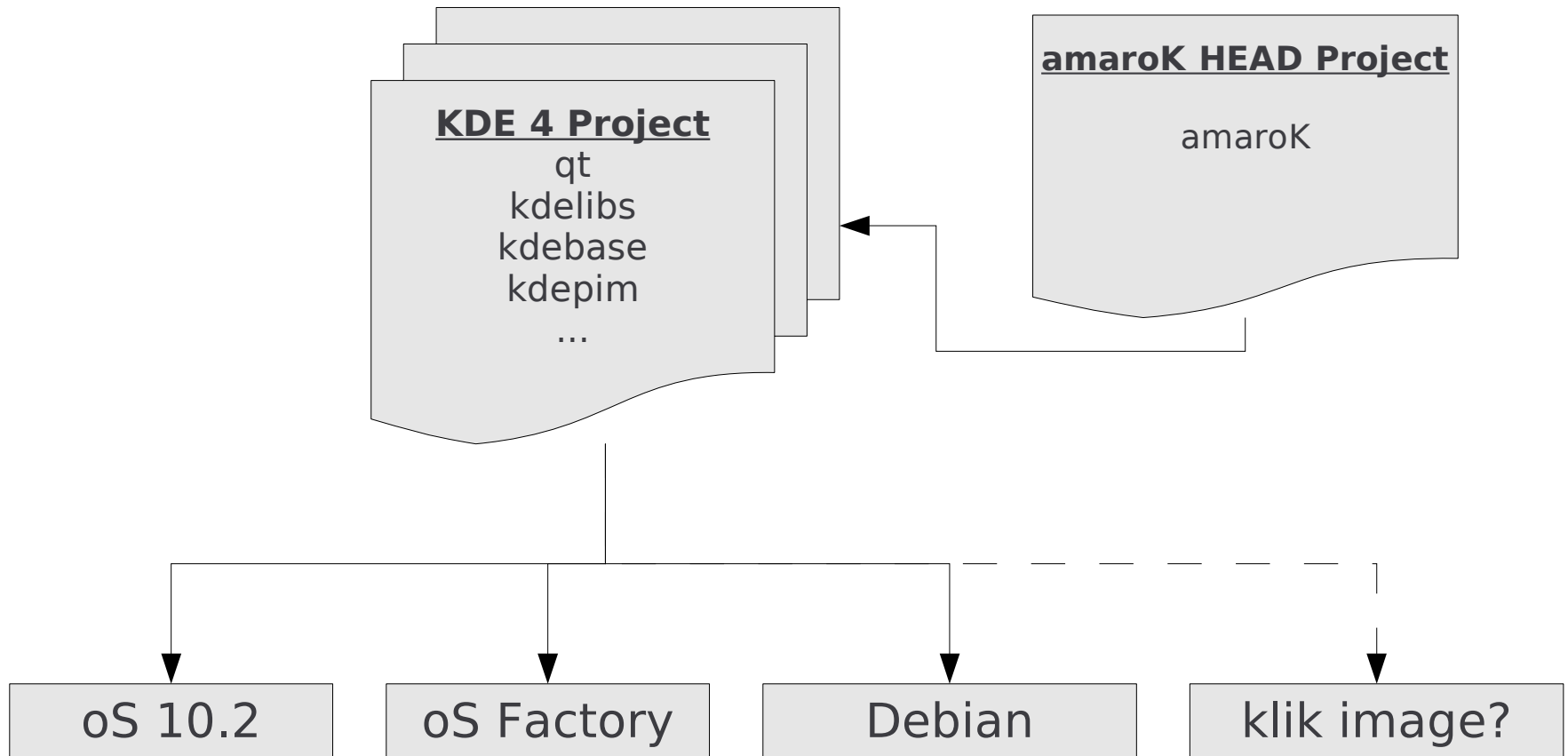
# Project Model 1/2

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



Current State / Next steps

# Current State

- Access to `build.opensuse.org` is granted after request
- Package building for SUSE, Mandriva, Fedora, Debian, Ubuntu works
- Public download of software is possible via `software.opensuse.org`

## Work In Progress:

- Improving GUI to become more userfriendly
- Being able to build complete distributions
- Supporting image building (installation iso, Live-CD, ...)

# Future Ideas

- Future ideas are collected at
- [http://www.opensuse.org/Build\\_Service/Future\\_Ideas](http://www.opensuse.org/Build_Service/Future_Ideas)
- Template based package creating
- Decentral hosting of openSUSE Build Service
- LSB conform builds
- Translation framework
- QA and automated test case framework

# Resources

[http://www.opensuse.org/Build\\_Service](http://www.opensuse.org/Build_Service)

Overview about the project and links for further informations and the source code.

<http://build.opensuse.org>

A running instance of the Build Service.

[opensuse-buildservice@opensuse.de](mailto:opensuse-buildservice@opensuse.de)

The mailing list for discussing the Build Service.

# Join the Lizard Blizzard!



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