

# Continuous Delivery through the Open Build Service

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# Who am I?

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- Professional technologist
- Contributor and [package maintainer in the Fedora Project](#)
- Contributor and [package maintainer in Mageia Linux](#)
- Contributor to RPM, DNF, and various related projects
- Diligent follower of the telecommunications industry
- Systems Engineer at Datto, Inc.

## Contact Points:

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# “Continuous Delivery...?”

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*“Continuous delivery (CD) is a software engineering approach in which teams produce software in short cycles, ensuring that the software can be reliably released at any time.”*

-- Wikipedia

# Why is continuous delivery important?

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- Continuous delivery makes it possible to ship software incrementally and regularly.
- It encourages “bite-sized” changes which are easily dissected.
- For critical systems, a continuous delivery model enables managing code churn much more easily.
- ***NOT THE SAME AS CONTINUOUS DEPLOYMENT!***

# Continuous delivery and Linux

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- Continually developing software to target Linux can be very hard!
- Linux as a platform can have a high degree of variance depending on the Linux distributions being targeted for the software.
  - In many cases, not everyone can even agree on what should be *in* a Linux distribution!
- So how do you solve that problem?!

Downloads Support Community Development

openSUSE Build Service Sign Up | Log In

## Welcome to openSUSE Build Service

The openSUSE Build Service is the public instance of the Open Build Service (OBS) used for development of the openSUSE distribution and to offer packages from same source for Fedora, Debian, Ubuntu, SUSE Linux Enterprise and other distributions..

Please find further details of this service on our [wiki](#) pages

This instance offers a special package search interface. Users of any distribution can search their for built packages for their distribution. For developers it is an efficient place to build up groups and work together through its project model.

[All Projects](#)
[Search](#)
[Status Monitor](#)

### System Status

The above graphs show the number of active build jobs last week, currently 625 of 726 build hosts are busy building packages. At the moment 44305 packages are waiting on the different architectures.

openSUSE Build Service hosts **43,590** projects, with **360,530** packages, in **66,644** repositories and is used by **44,185** confirmed developers.

**Locations**

- Projects
- Search
- Status Monitor

**Help**

- Open Build Service
- OBS Manuals
- openSUSEs OBS Portal
- Reporting a Bug

**Contact**

- Mailing List
- Forums
- Chat (IRC)
- Twitter

Open Build Service (OBS) is an openSUSE project.

**Sponsor**

Enterprise Linux you can rely on.

**Announcements**

**adrianSUSE** wrote about 2 months ago

We removed multiple bottle necks which made scheduling of home projects slow in the last weeks.

**adrianSUSE** wrote 2 months ago

The source and database servers got migrated

**adrianSUSE** wrote 3 months ago

binaries of SLE 12 SP1 got finally imported

**lrupp** wrote 3 months ago

Thanks to our Sponsor SUSE, we were able to add 20 completely new machines into the build worker pool. You can find them as "lamb-xx" on the status monitor.

**Latest Updates**

arangodb-3.0	now
qscintilla-qt5	now
openc1-headers	now
Cura	now
oinut-git	now
krdc-git	1 minute ago



# The Open Build Service

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- The Open Build Service (OBS) is a software solution developed by SUSE to build and manage the openSUSE and SUSE Linux Enterprise distributions.
- However, it was designed from the beginning to support a wide variety of Linux distributions.
- It can build packages, repositories, and images.
  - It can build packages and repositories for even Arch and Debian based systems!
- And yes, you can host your own!
  - The appliance install image is available at [openbuildservice.org](https://openbuildservice.org)

# How does the OBS enable CD?

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- The Open Build Service has several capabilities to be integrated with VCSes (such as Mercurial, Git, Subversion, etc.) that allow it to either pull code or receive code regularly to build.
- From there, it can be used to build the software for the target platforms. After builds, it can fire off events to trigger tests and/or reviews.
- Build failures can automatically trigger notifications to the appropriate people.



# Demonstration



# Links to resources

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- Open Build Service website: <http://openbuildservice.org/>
- openSUSE's OBS instance: <https://build.opensuse.org/>
- Open Build Service Reference Guide: <http://openbuildservice.org/help/manuals/obs-reference-guide/>



# The End

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Any Questions?

