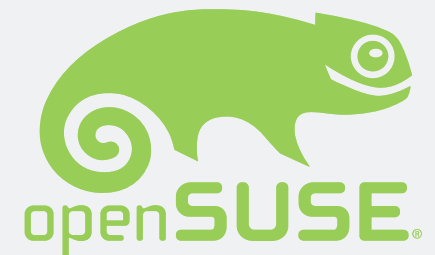




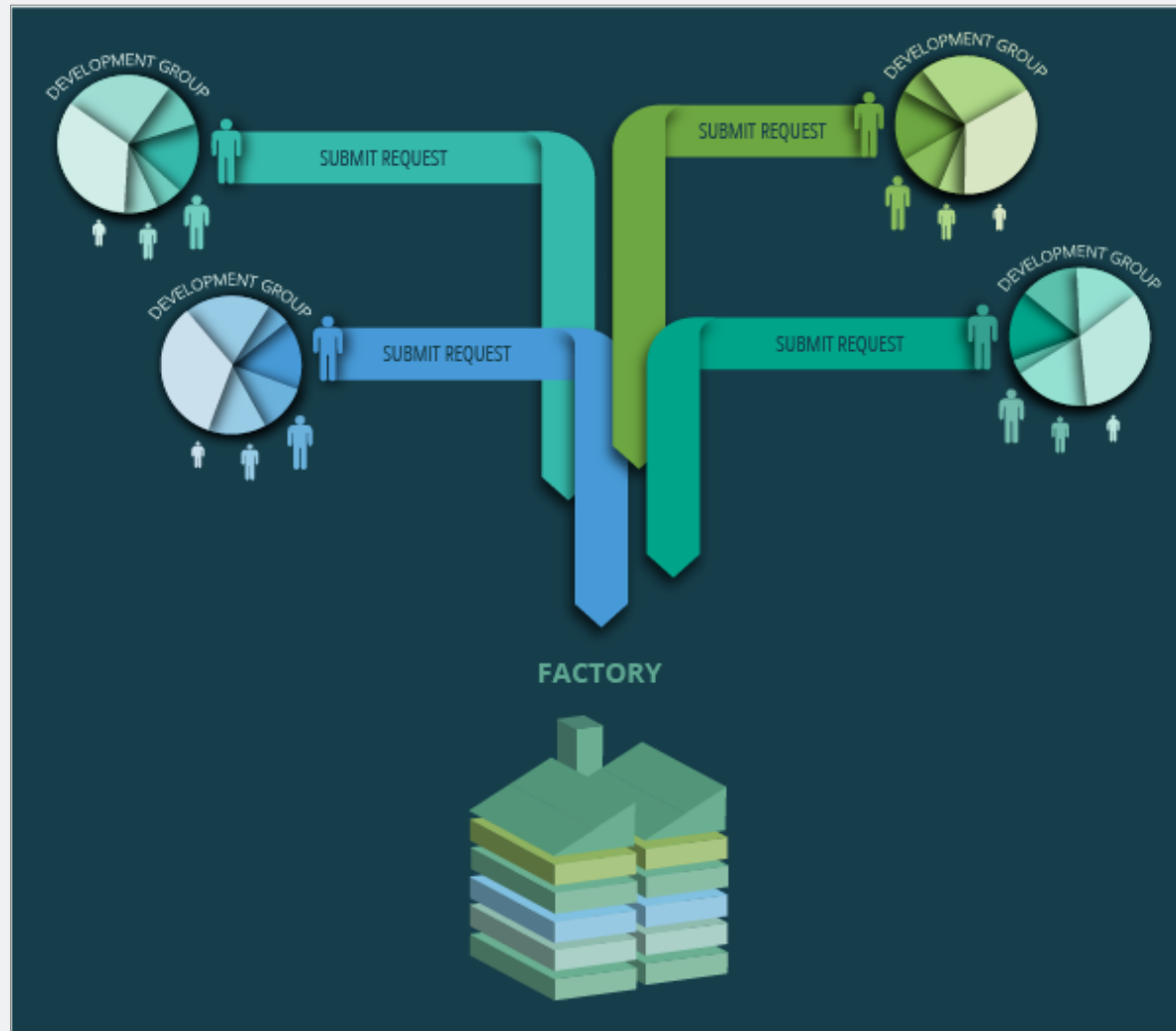
Staging Project in openSUSE

Max Lin

SUSE Labs

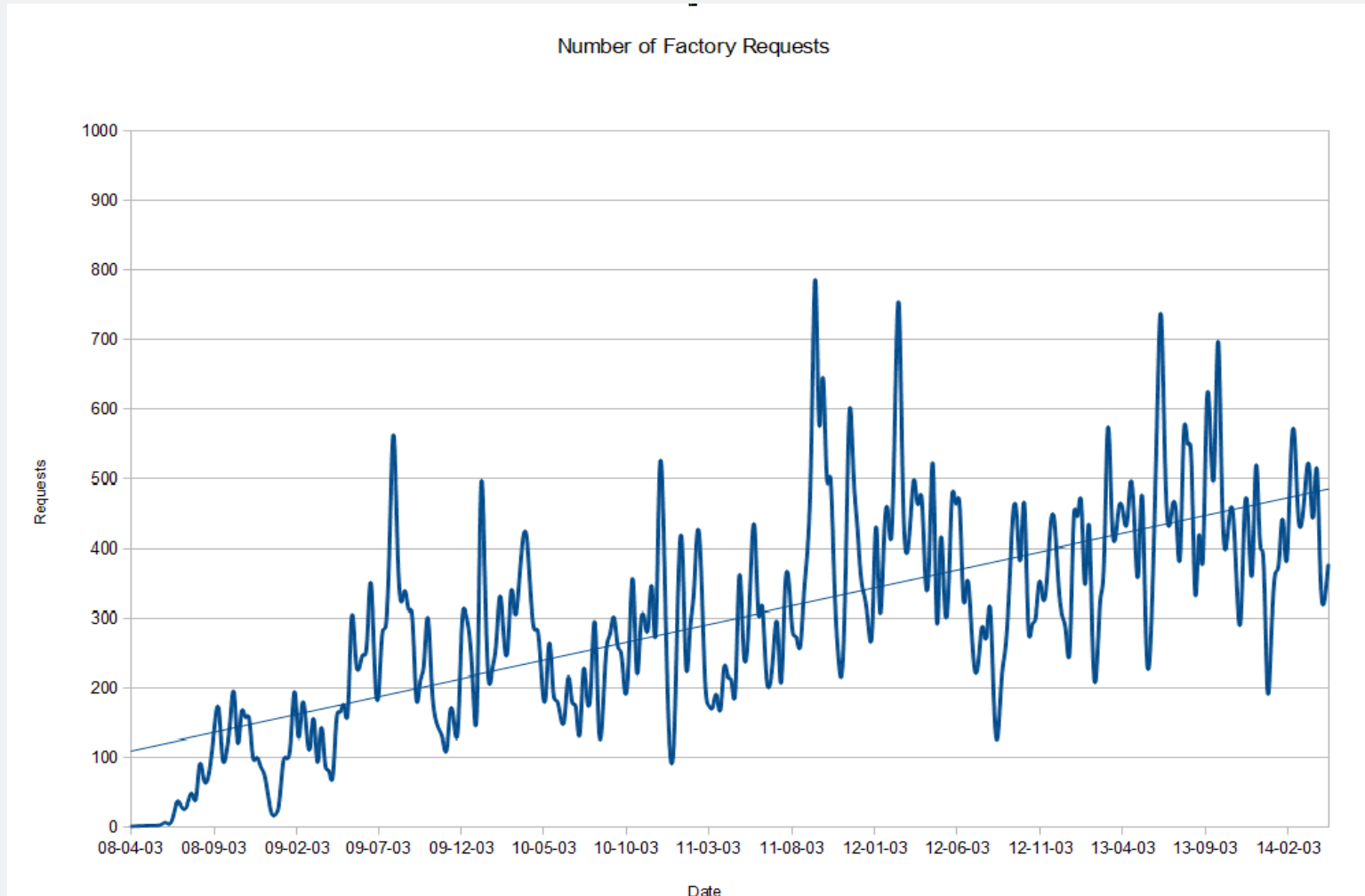


openSUSE Factory?



Changes every week

- With > 500 changes a week



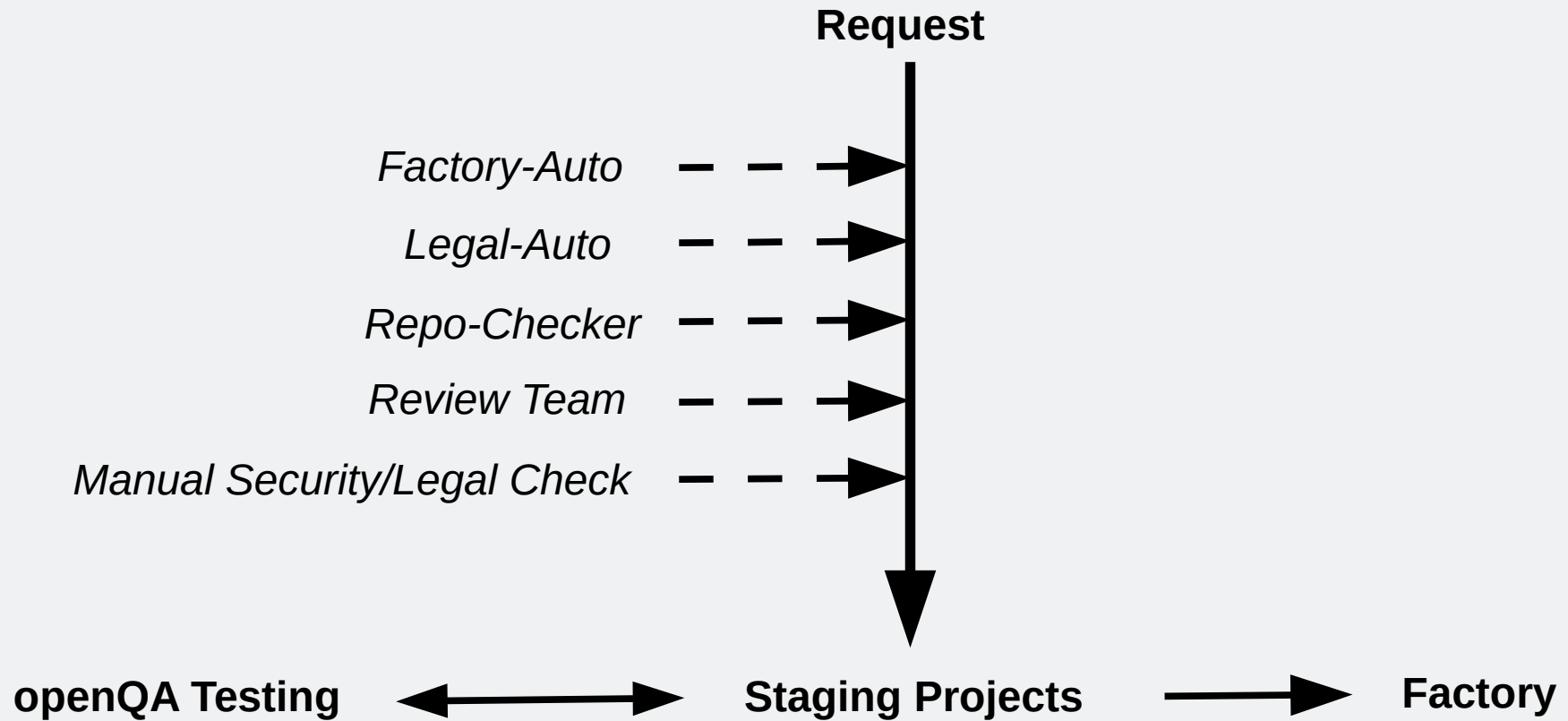
The Problem

- Sometimes it fails to build itself
- Sometimes other packages fails to build
- Sometimes it's impossible to install
- Sometimes it's buggy itself
- Sometimes you don't know what's going wrong, just a mess!
- Hard to address the problem and debugging



* <https://flic.kr/p/5Q1khd> (CC BY-NC-SA 2.0)

Process



Rings

- Ring-0
 - bootstrap packages
 - 96 packages
- Ring-1
 - minimal X installation packages
 - 990 packages
- Ring-2
 - almost whole DVD packages
 - includes main desktop environment ie. GNOME, KDE
 - 867 packages

Stagings

Subprojects of openSUSE:Factory:Staging

Subproject ▲	Description
A	acl, attr, bash, coreutils, glibc, help2man, man-pages, mdadm, poppler, syslogd, timezone, xf86-input-vmouse, xf86-video-ati, xf86-video-vmware, zlib
A:DVD	
B	apache2, apparmor, at, git, gpsd, patterns-openSUSE, python-pytest, ruby-common, ruby2.1, rubygem-gem2rpm
B:DVD	
C	dbus-1, hyper-v, icewm, plotutils
C:DVD	
D	boost
D:DVD	
E	kernel-source
E:DVD	
F	lvm2
F:DVD	
G	baloo, libcaca, libkexiv2, libqt4, libquicktime, netcfg, ntp, php5, python-Twisted, samba, shotwell
G:DVD	
Gcc49	Gcc 4.9 default
H	openmpi
H:DVD	
I	
I:DVD	
J	

openQA

Test results

This page lists 123 automated tests from the last 96 hours. [Select](#) | [Unselect](#) | [Restart selected](#) (0)

96 h ▾ staging filter ☐ ignore incomplete Relevant (no finished clone) ▾ All Backends ▾ [change](#)

#	clone	machine	distri	type	arch	build	testsuite	testtime	OK	unk	fail
		All ▾	All ▾	All ▾	All ▾	All ▾	All ▾				
<input checked="" type="checkbox"/> 27160		64bit	opensuse-Staging:D	Staging2-DVD	x86_64	220.1	kde	2014年10月13日 下午11:48:52	66% <div><div></div></div>		
<input checked="" type="checkbox"/> 27161		64bit	opensuse-Staging:C	Staging2-DVD	x86_64	217.1	gnome	2014年10月13日 下午11:49:13	69% <div><div></div></div>		
<input checked="" type="checkbox"/> 27159		64bit	opensuse-Staging:D	Staging2-DVD	x86_64	220.1	miniuefi	2014年10月13日 下午10:54:06	15		
<input checked="" type="checkbox"/> 27158		64bit	opensuse-Staging:D	Staging2-DVD	x86_64	220.1	gnome	2014年10月13日 下午10:54:06	50		
<input checked="" type="checkbox"/> 27157	#27160	64bit	opensuse-Staging:D	Staging2-DVD	x86_64	220.1	kde	2014年10月13日 下午10:54:06	13		2
<input checked="" type="checkbox"/> 27156		64bit	opensuse-Staging:D	Staging-DVD	x86_64	148.1	cryptlvm	2014年10月13日 下午10:54:06	31		
<input checked="" type="checkbox"/> 27155		64bit	opensuse-Staging:D	Staging-DVD	x86_64	148.1	RAID1	2014年10月13日 下午10:54:07	15		
<input checked="" type="checkbox"/> 27154		64bit	opensuse-Staging:D	Staging-DVD	x86_64	148.1	minimalx	2014年10月13日 下午10:54:06	30		
<input checked="" type="checkbox"/> 27153		64bit	opensuse-13.2:S:C	Staging2-DVD	x86_64	54.5.2	kde	2014年10月13日 下午10:54:06	49		
<input checked="" type="checkbox"/> 27152		64bit	opensuse-Staging:A	Staging2-DVD	x86_64	232.3	miniuefi	2014年10月13日 下午5:00:50	15		
<input checked="" type="checkbox"/> 27151		64bit	opensuse-Staging:A	Staging2-DVD	x86_64	232.3	gnome	2014年10月13日 下午5:00:50	14		2
<input checked="" type="checkbox"/> 27150		64bit	opensuse-Staging:A	Staging2-DVD	x86_64	232.3	kde	2014年10月13日 下午5:00:49	14		2
<input checked="" type="checkbox"/> 27149		64bit	opensuse-Staging:C	Staging2-DVD	x86_64	217.1	miniuefi	2014年10月13日 下午2:01:48	15		
<input checked="" type="checkbox"/> 27144	#27161	64bit	opensuse-Staging:C	Staging2-DVD	x86_64	217.1	gnome	2014年10月13日 下午1:11:12	48		2
<input checked="" type="checkbox"/> 27143		64bit	opensuse-Staging:C	Staging2-DVD	x86_64	217.1	kde	2014年10月13日 下午1:08:13	49		



Staging Dashboard

Project	Requests	Problems
<div>D</div> <div>testing 84%</div>	<div>branding-openSUSE ibus libkscreen</div> <div>libmusicbrainz5 libsolv libzypp openmpi</div> <div>yast2-bootloader yast2-proxy zypper</div>	<div>✓</div>
<div>G</div> <div>building 99%</div>	<div>baloo libcaca libkexiv2 libqt4 libquicktime</div> <div>netcfg ntp php5 python-Twisted samba</div> <div>shotwell</div>	<div>✓</div>
<div>H</div> <div>building 96%</div>	<div>cups dmidecode evolution</div> <div>evolution-data-server gtkhtml hwinio</div> <div>installation-images-openSUSE kiwi linuxrc</div> <div>shim tigervnc vala</div>	<div>✓</div>
<div>A</div> <div>failed</div>	<div>acl attr automake bash coreutils glibc</div> <div>help2man man-pages mariadb mdadm</div> <div>ncurses poppler post-build-checks sssd</div> <div>syslogd ...5 more</div>	<div>Build unresolvable: gnome-vfs2</div> <div>Build unresolvable: gnome-vfs2</div> <div>Build unresolvable: graphviz-plugins</div> <div>Build unresolvable: graphviz-plugins</div> <div>Build unresolvable: installation-images-openSUSE</div> <div>...46 more problems</div>
<div>C</div> <div>failed</div>	<div>SDL gdm gnome-color-manager</div> <div>gnome-control-center gnome-dictionary</div> <div>gnome-maps gnome-power-manager libqmi</div> <div>libqt5-qtbase mobile-broadband-provider-info</div> <div>openssh patterns-openSUSE python-kde4</div> <div>python-qt4 python-sip ...3 more</div>	<div>QA: office</div>

Legend

Requests

- Ready
- In review
- Obsolete
- Untracked

Projects

- Building
- Testing
- Review
- Acceptable
- Unacceptable
- Failed

Reviews

- Source Review
- Installation Check
- Legal Review

Infos

Empty Projects:

F – I – J

Backlog:

- apache2
- file
- gptfdisk
- metamail
- p11-kit
- ruby2.1
- ... 2 more



What is Staging Project good for?

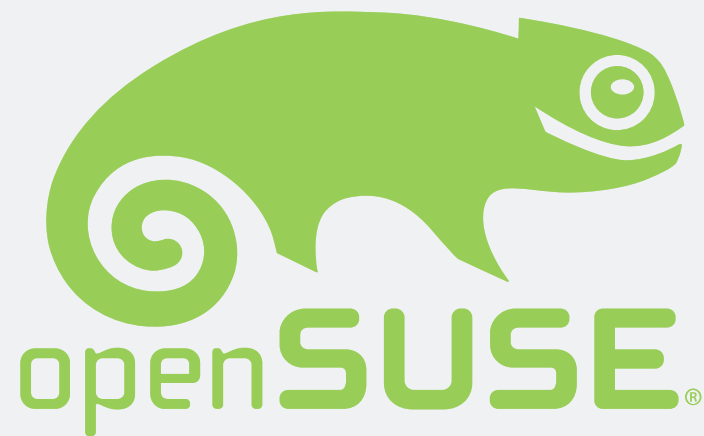
- Catch the problem before checked in
- To avoid main packages breaks Factory
- Integrated with automated testing(openQA)
- Have a dashboard to know the overview status

Questions?



Thank you!





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