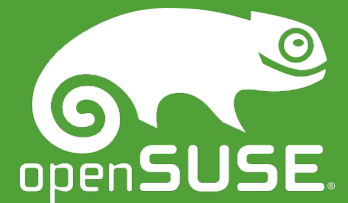


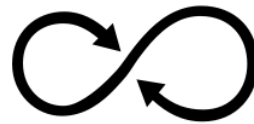
openSUSE Tumbleweed development process



Max Lin – Software Engineer
mlin@suse.com

What is Tumbleweed

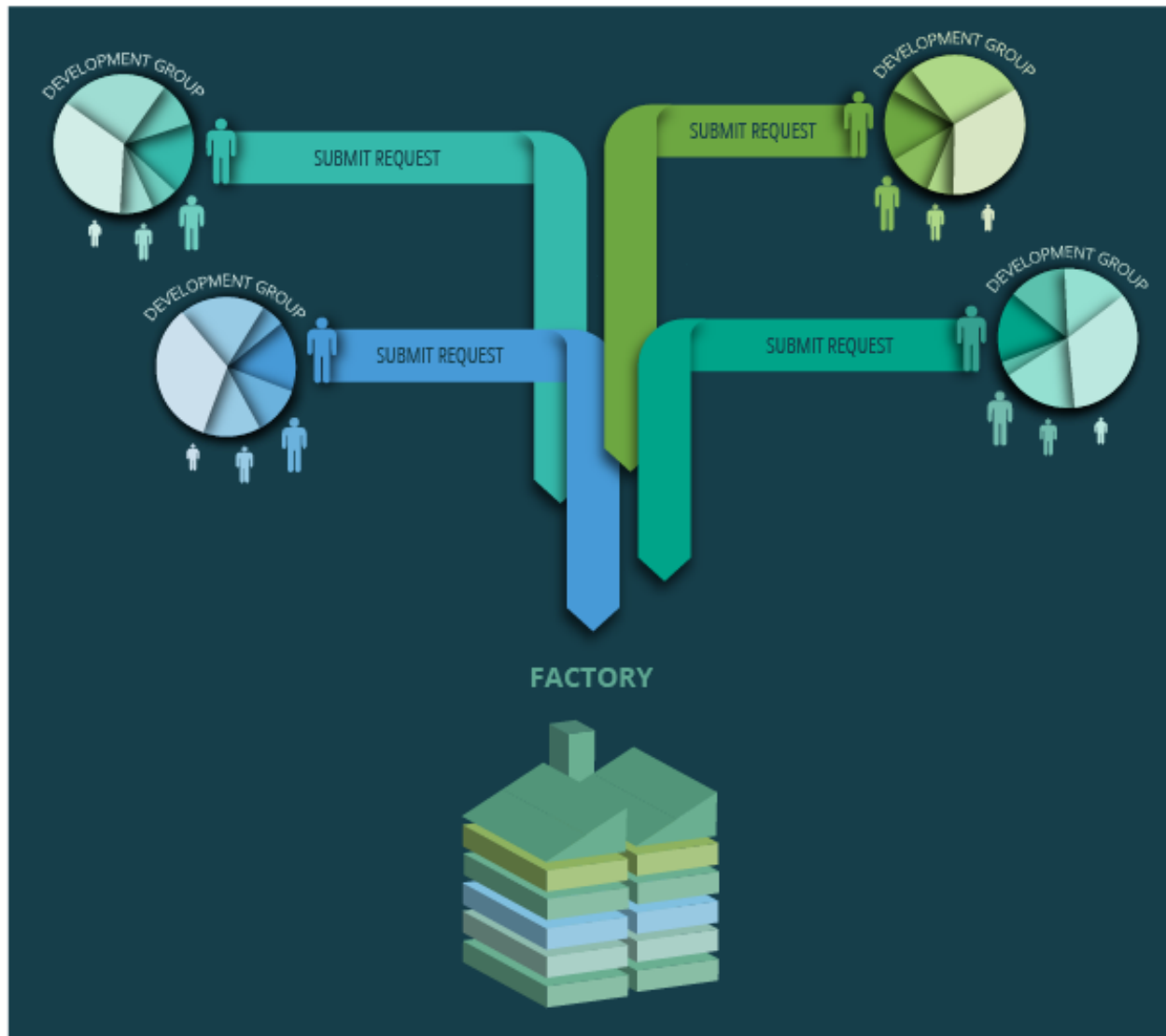
- A pure rolling release version of openSUSE project
- Tumbleweed contains the latest stable applications
- Tumbleweed is based on Factory, openSUSE's main development codebase
- The core system packages receive automated testing via openQA



Tumbleweed



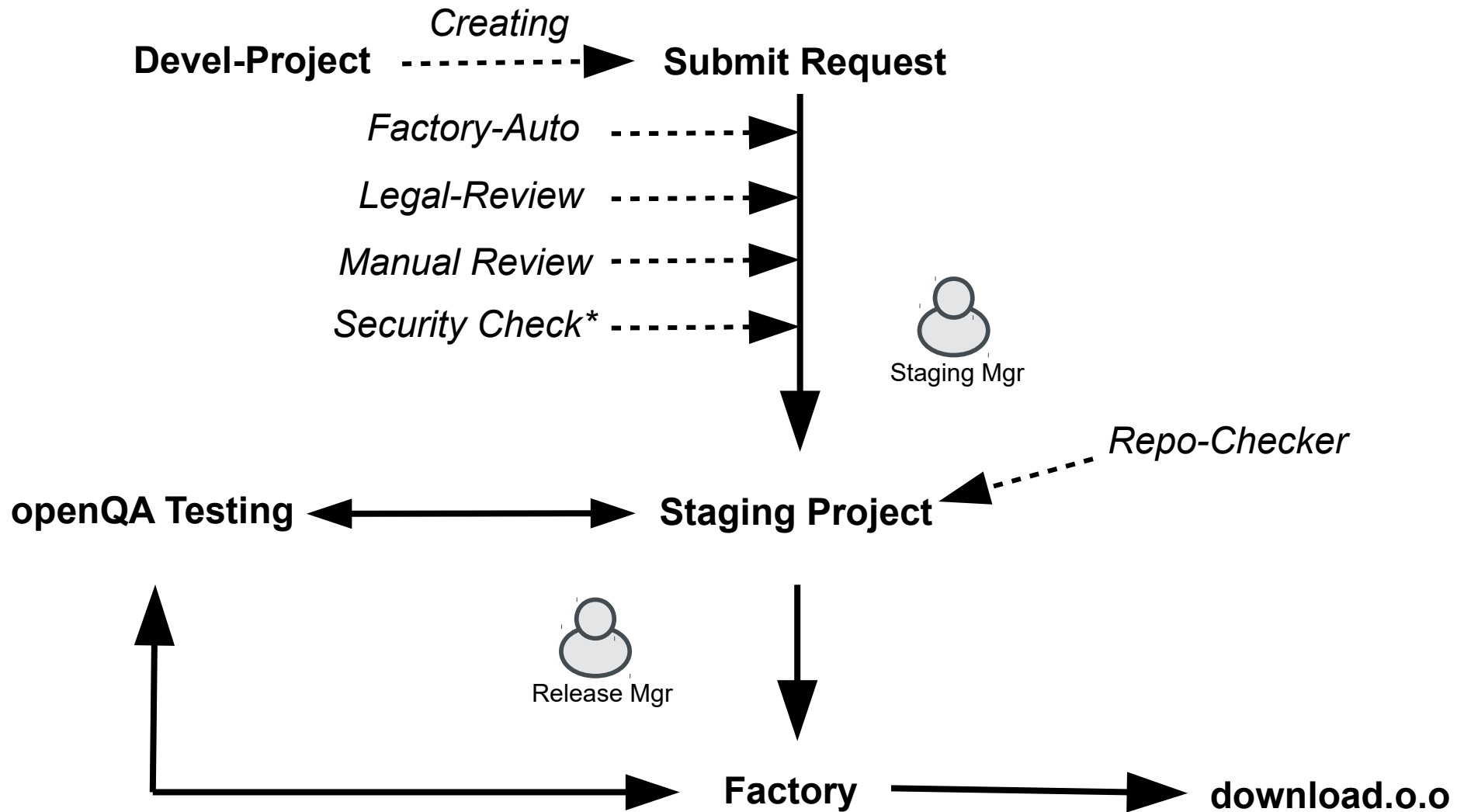
Development workflow



Process



Reviews



Reviews(cont.)

- Factory-Auto: checks basic rules and adds additional reviewers
- Legal-Review: checking if the license of the package is in the permitted license database
- Review Team: human to check the request
- Repo-Checker: a more deeper automatic check
- Factory-Staging: review by Staging Manager (manual check and assisted by repochecker and openQA)

Rings and Staging Project

- Rings:0-Bootstrap : bootstrap packages (105 packages)
- Rings:1-MinimalX : everything for minimal X environment (1115 packages)
- Rings:2-TestDVD : a pretty much complete DVD (1362 packages)
- Staging:A-O : staging for ring 0/1 packages
- Staging:A-O:DVD : staging for ring 2 packages
- Staging:adi:* : staging for others package not in Rings

Repo-Checker

- The binary files are installable
- Checks the file conflicts with other packages
- Detecting new build cycle
- Checks the validation of delete request as far as possible
- Commenting on the project if found the problem



Welcome to openQA

Life is too short for manual testing!

[LEARN MORE »](#)

openSUSE Tumbleweed

•Build20171013 (about 8 hours ago) 🌟



•Build20171010 (6 days ago) 🌟



•Build20171009 (7 days ago) 🌟



openSUSE Tumbleweed AArch64

•Build20171011 (5 days ago)



•Build20171010 (6 days ago)

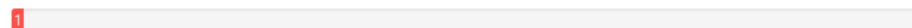


openSUSE Tumbleweed Kernel

•Build20171013 (about 8 hours ago) 🌟



•Build20171011 (4 days ago)



•Build20171010 (6 days ago)



openSUSE Tumbleweed PowerPC






























































































































































































•Build20171011 (5 days ago) 🌟

























































openQA Tests in Staging Project

- Normal installation
- Installation on RAID partition(software RAID)
- Installation on UEFI environment
- Boot into rescue system
- Console tools test
- Minimal-X/GNOME/KDE environment works
- Update system to current staging from old openSUSE version and old staging system
- Only test the stuff were in the staging DVD

Test result on openQA(red)

Details	Logs & Assets	Settings	Comments (0)	Previous results (10)
Test				
Result				
References				
installation				
isosize	passed			
bootloader	passed	       		
welcome	failed	                                                                                                                                                                                   		

Test result on openQA(green)

Details Logs & Assets Settings Comments (0) Previous results (10)			
Test	Result	References	
📁 installation			
isozip	passed		
bootloader	passed	     	
welcome	passed	 	
good_buttons	passed		
installation_mode	passed		
partitioning	passed		
partitioning_finish	passed		
installer_timezone	passed		
logpackages	passed	      	
installer_desktopselection	passed	   	
user_settings	passed	  	
installation_overview	passed	 	
start_install	passed	      	
install_and_reboot	passed	            	
grub_test	passed		
first_boot	passed	  	

Staging Dashboard

Letter

ADI

Project	Requests	Problems
<div>A</div> <div>testing 19%</div> <div>none all</div>	<div>desktop-file-utils</div> <div>lmdb</div> <div>pam-modules</div> <div>python-hypothesis</div> <div>rpm</div> <div>rpmlint</div> <div>rpmlint-Factory</div> <div>rpmlint-mini</div> <div>suitesparse</div>	<div>✓</div>
<div>K</div> <div>testing 19%</div> <div>none all</div>	<div>docbook_5</div> <div>dracut</div> <div>gypsy</div> <div>libfonts</div> <div>libjpeg-turbo</div> <div>obs-service-tar_scm</div> <div>python-certifi</div> <div>python-pyasn1</div> <div>python-pyasn1-modules</div> <div>vim</div>	<div>✓</div>
<div>B</div> <div>building 99%</div> <div>special glibc</div>	<div>glibc</div>	<div>✓</div>
<div>C</div> <div>building 99%</div> <div>none all</div>	<div>apache-commons-codec</div> <div>apache-commons-lang</div> <div>curl</div> <div>gnome-control-center</div> <div>gnome-shell</div> <div>hsqldb</div> <div>icewm</div> <div>java-9-openjdk</div> <div>kmail</div> <div>libqca-qt5</div> <div>libreoffice</div> <div>python-lockfile</div> <div>python-systemd</div> <div>python3-Flask-WTF</div> <div>python3-WTForms</div> <div>...4 more</div>	<div>✓</div>
<div>G</div>	<div>amarok</div> <div>libqt5-qtbase</div>	<div>✓</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:

O

Backlog:

PlotDigitizer

autoconf-archive

autofs

fftw3

file

fluidsynth

fuse

... 36 more

Ignored:

freetype2

gcc6

itstool

kiwi

python-gnome



python-mock

python-pyflakes

... 2 more

Acceptable

- No build failures
- All reviews were accepted
- Passed openQA testing

Project	Requests	Problems
	<div>fonts-config</div> <div>gstreamer-plugins-bad</div> <div>intel-gpu-tools</div> <div>libXfont</div> <div>patterns-openSUSE</div> <div>python3-Twisted</div> <div>python3-pyOpenSSL</div> <div>xf86-video-nouveau</div> <div>xproto</div>	

After an check-in

- Bump version number
- Rebuilding the changes in openSUSE:Factory
- Generate an new snapshot DVD
- The online repository is in a consistent state
- More openQA testing! A lot of testing!

^ When everything is done – publish the new Tumbleweed snapshot and sync the repository to the download mirrors.

Working together

- opensuse-factory@opensuse.org mailing list
 - opensuse-packaging@opensuse.org mailing list
 - #opensuse-factory IRC channel
 - File bug report to openSUSE bugzilla
-
- Dominique Leuenberger
 - James Berry
 - Ludwig Nussel
 - Max Lin



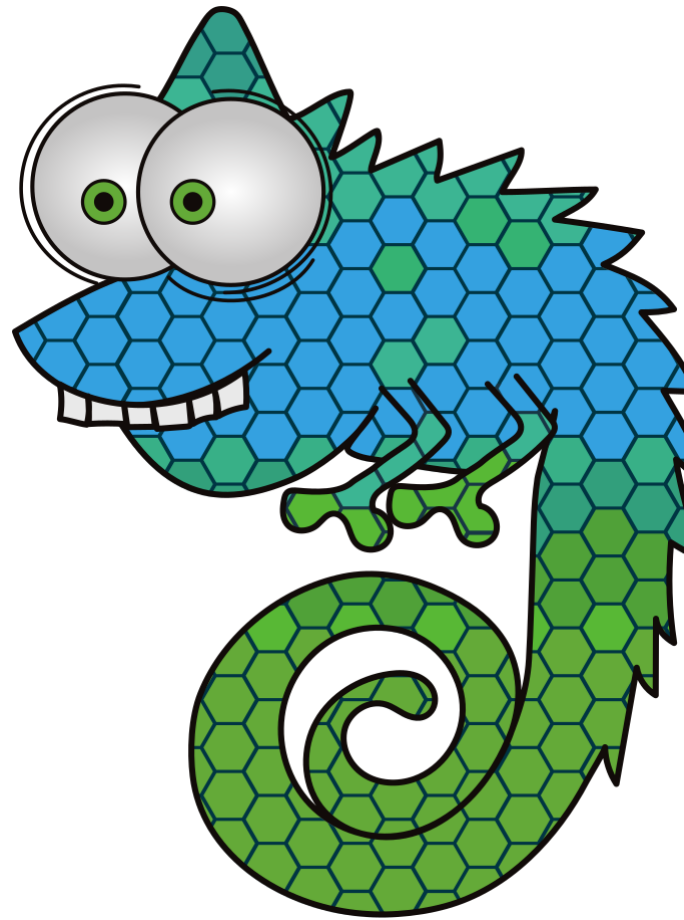
Questions?

Join the conversation,
contribute & have a lot of fun!

www.opensuse.org

Thank you.





Have a Lot of Fun, and Join Us At:

www.opensuse.org

