openSUSE Tumbleweed development process



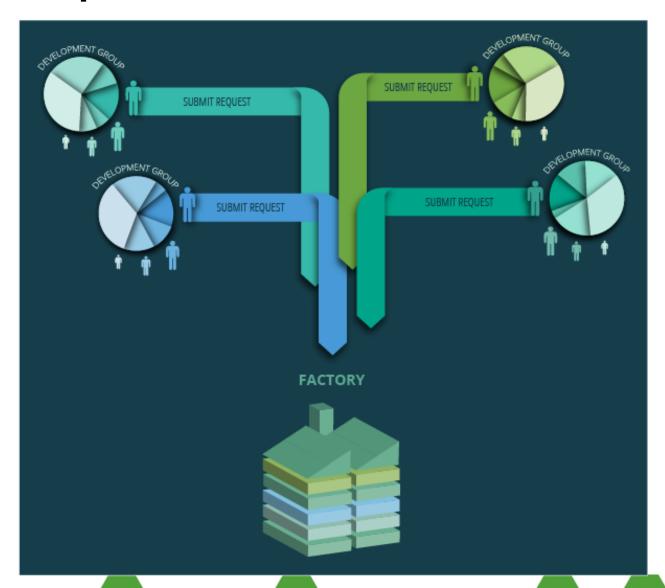
What is Tumbleweed

- 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

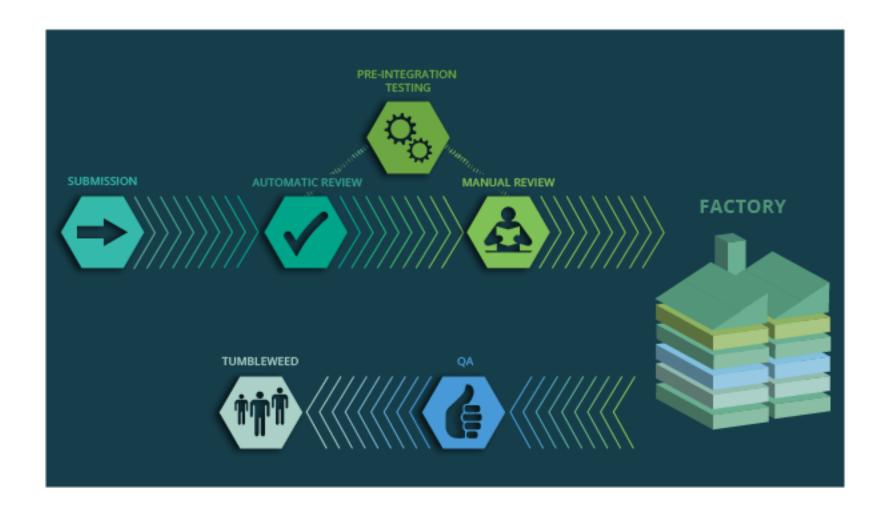




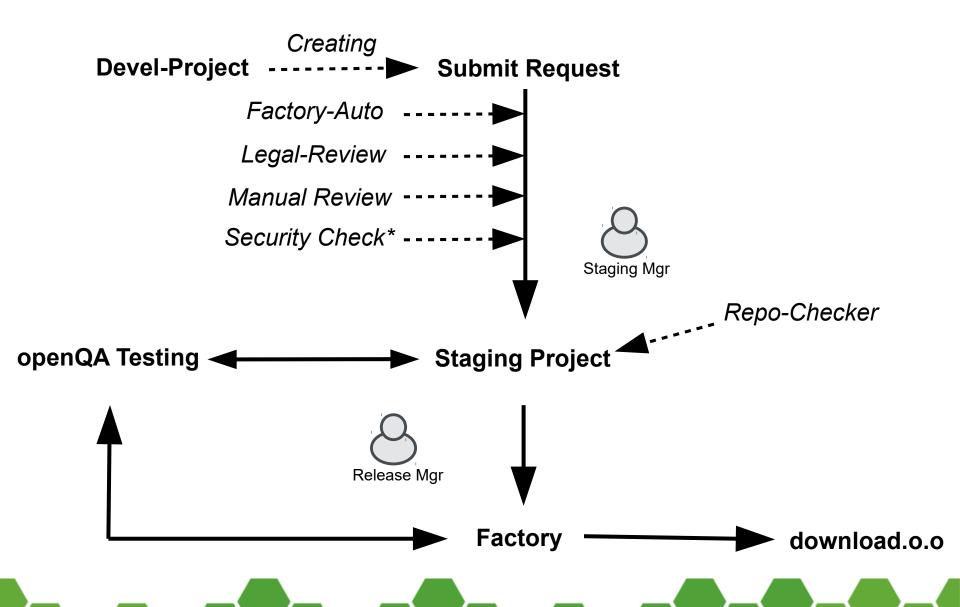
Development workflow



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

openQA



All Tests

lob Groups -

Login

Welcome to openQA

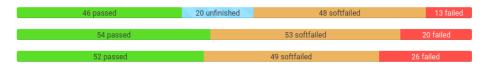
Life is too short for manual testing!

LEARN MORE »



openSUSE Tumbleweed

- •Build20171013 (about 8 hours ago) #
- ●Build20171010 (6 days ago) #
- •Build20171009 (7 days ago) #



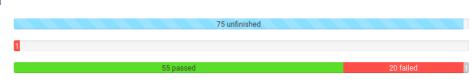
openSUSE Tumbleweed AArch64

- •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) #

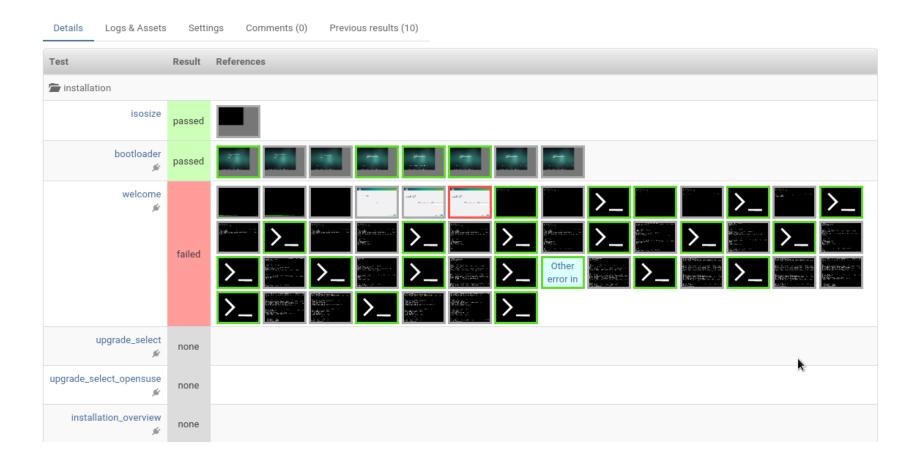
16 passed

4 softfailed

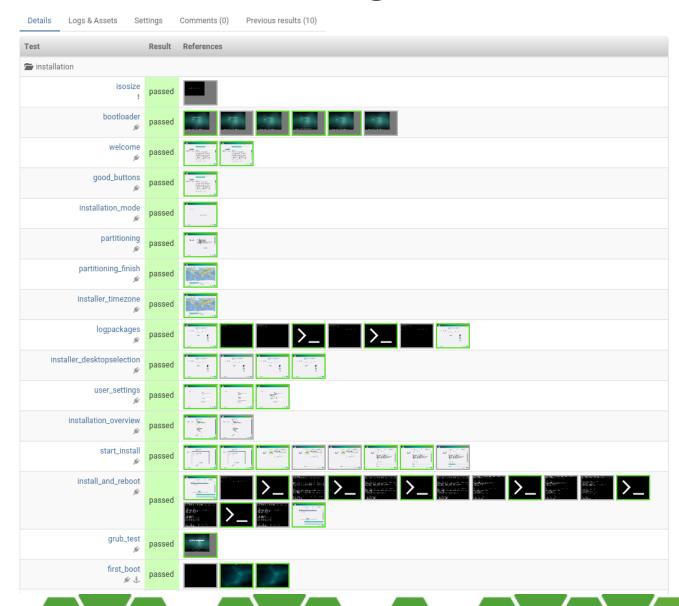
openQA Tests in Staging Project

- 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

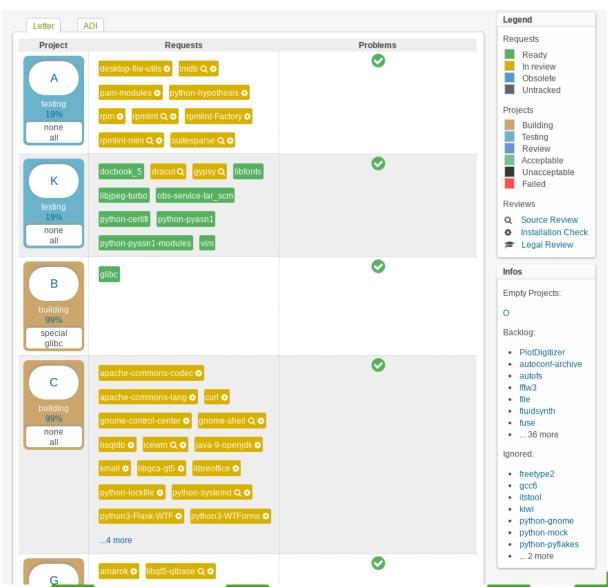
Test result on openQA(red)



Test result on openQA(green)

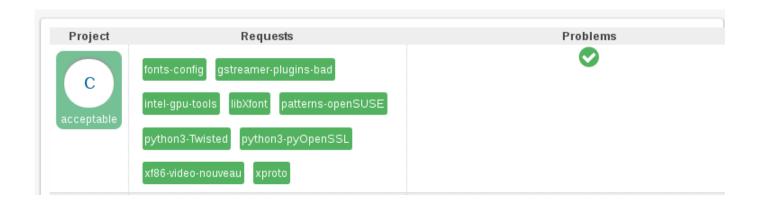


Staging Dashboard



Acceptable

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



After a check-in

- Bump version number
- Rebuilding the changes in openSUSE:Factory
- Generate a 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

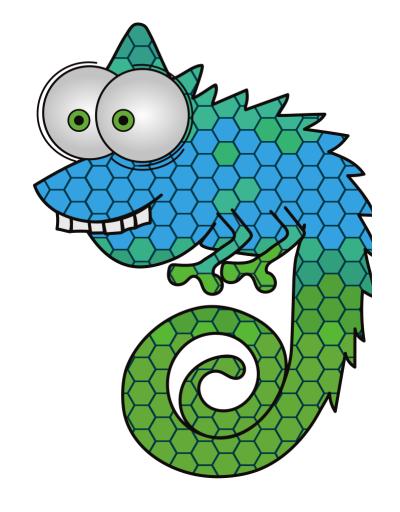
- Dominique Leuenberger
- · James Berry
- Ludwig Nussel
- Max Lin

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