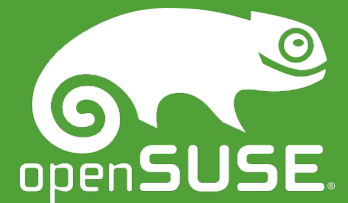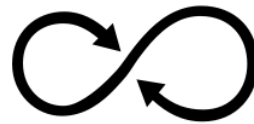# openSUSE Tumbleweed development process

Max Lin – Software Engineer

mlin@suse.com

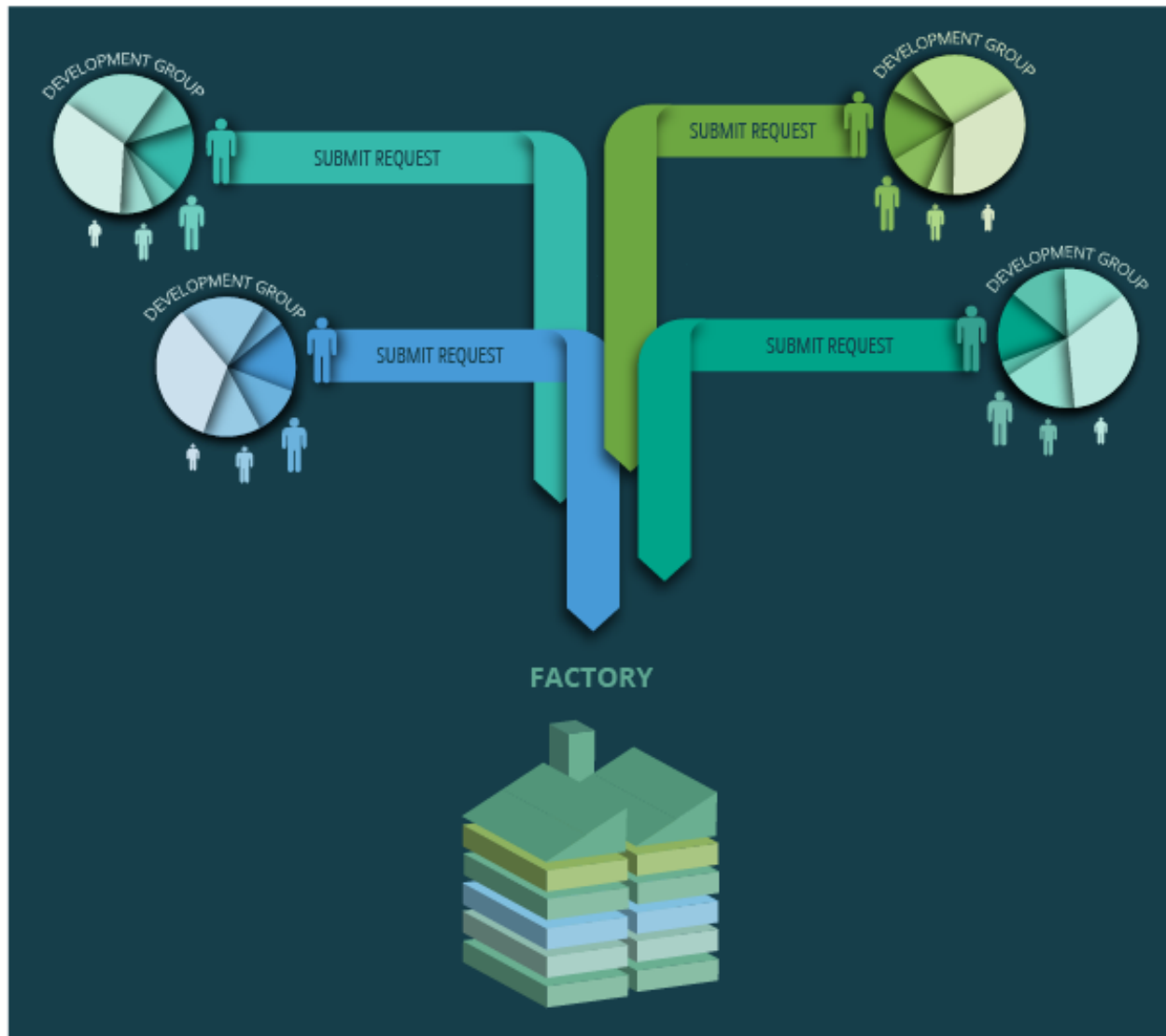openSUSE.

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

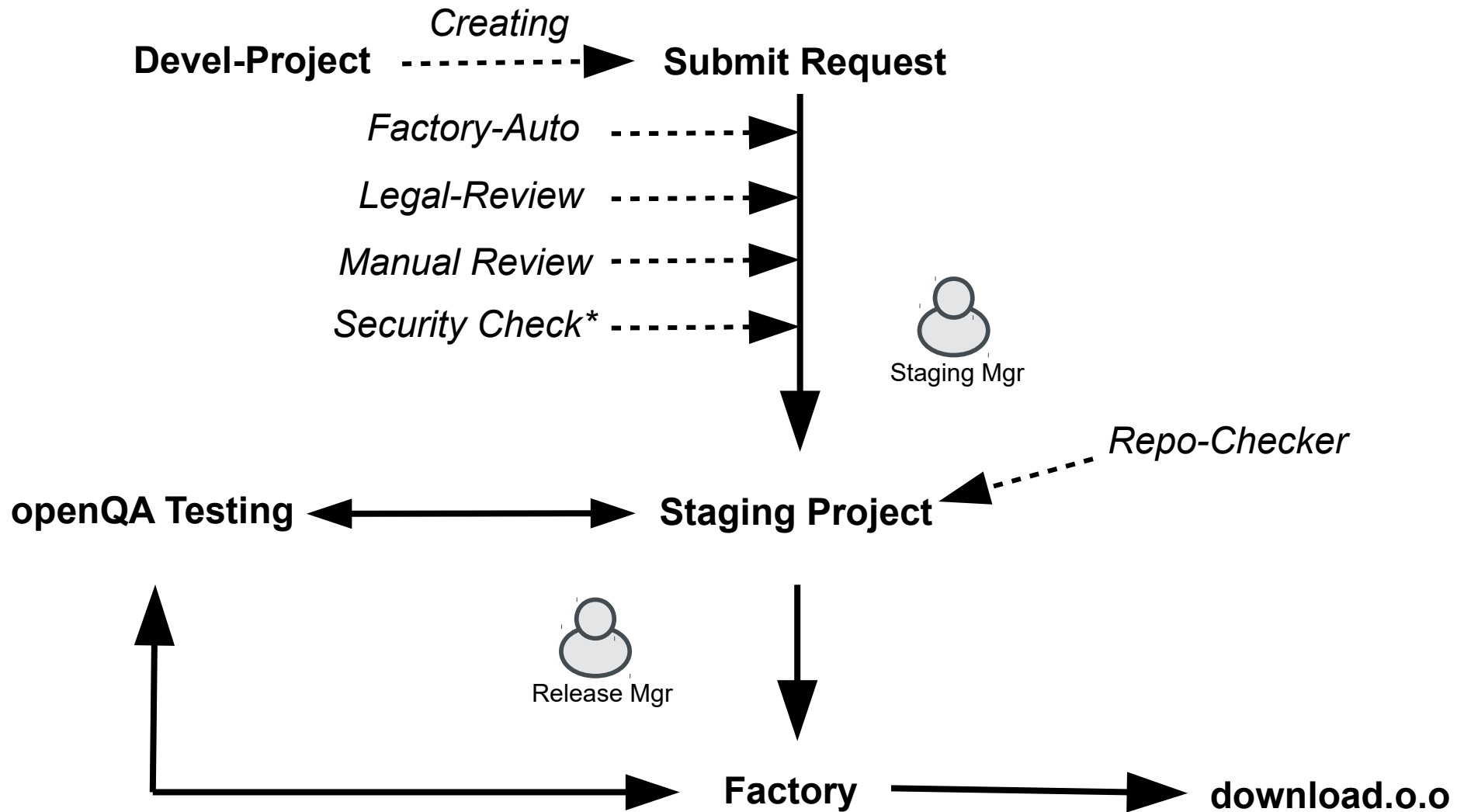- The core system packages receive automated testing via openQA

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
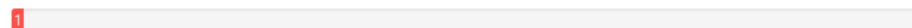
openQA

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

Project	Requests	Problems
C acceptable	fonts-config gstreamer-plugins-bad intel-gpu-tools libXfont patterns-openSUSE python3-Twisted python3-pyOpenSSL xf86-video-nouveau xproto	✓

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!
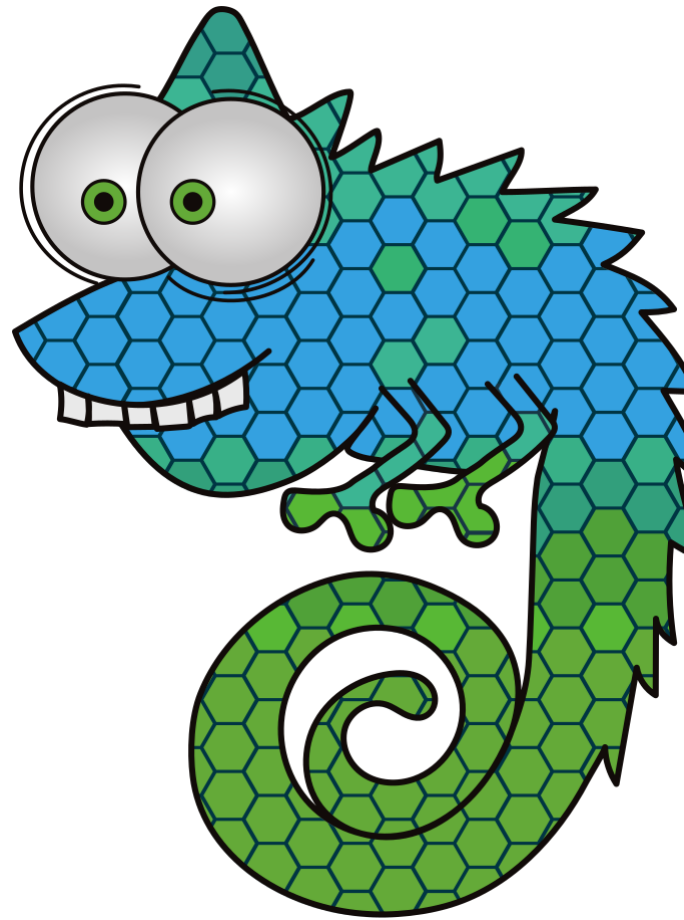www.opensuse.org

Thank you.

Have a Lot of Fun, and Join Us At:

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