

Release Monkey



*Build, Test, and Release
Your Software into the Wild*

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The Problem



Build-Test-Release
is expensive

The Problem



Build-Test-Release
and Deploy
is *really* expensive

The Problem



It's a pain for
developers

The Problem



It's a pain for
QA

The Problem



It's a pain for
operations

The Moving Parts



Source code management

Bug / issue tracking

Internal documentation

Unit testing

Functional testing

Distribution packaging

Package deployment

The Moving Parts



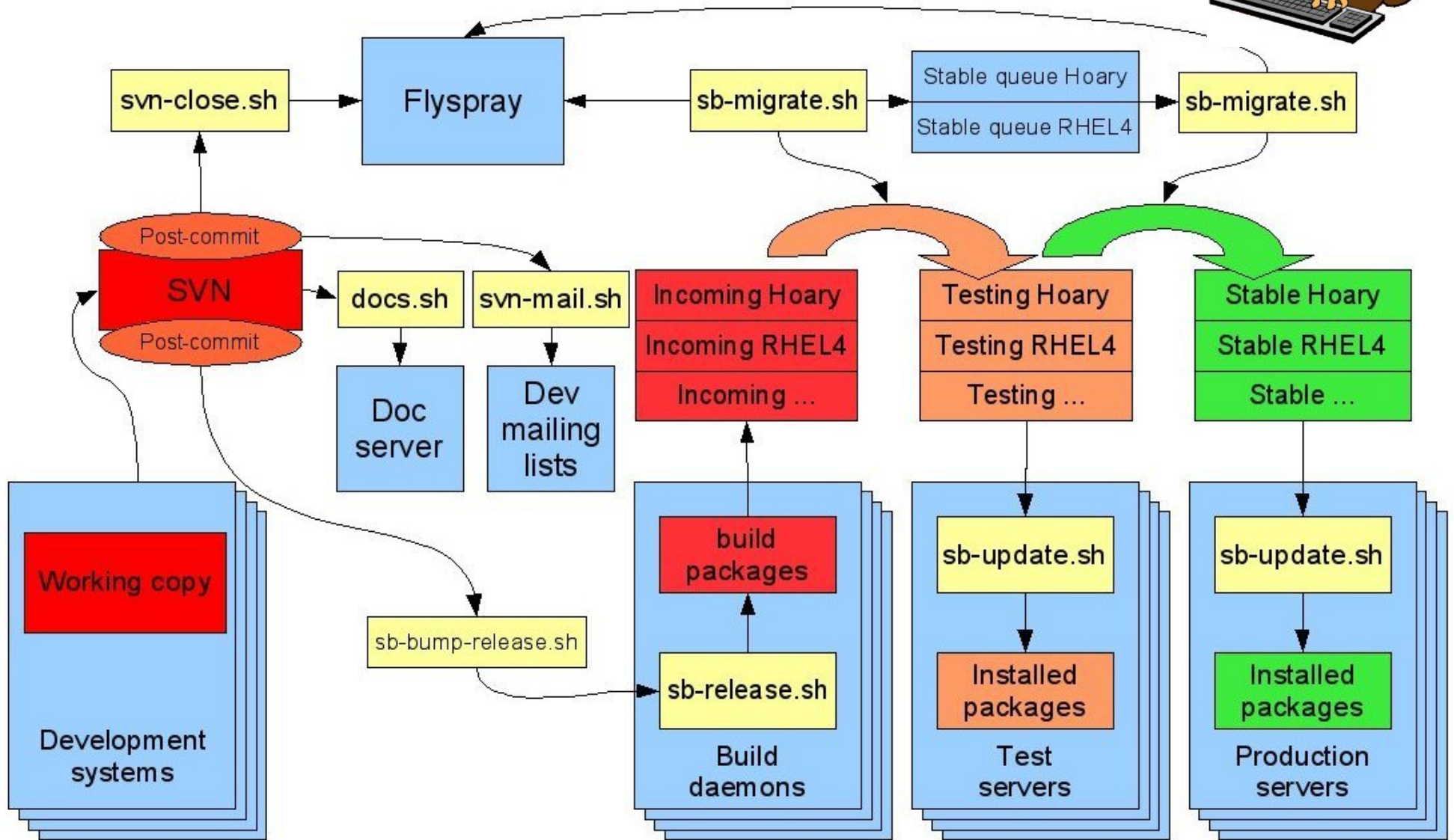
Automate your world:
hooks and APIs

The Moving Parts

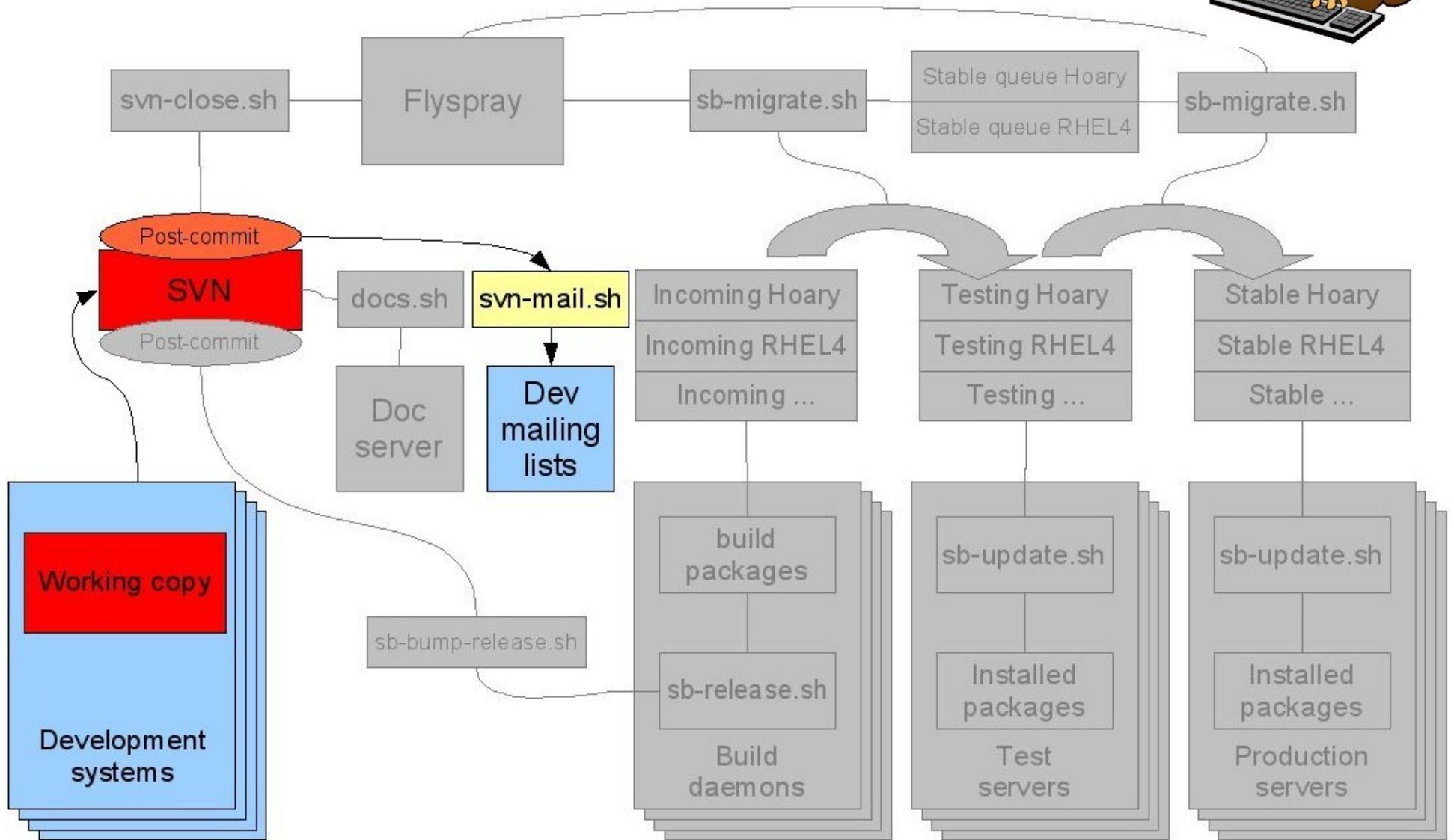


Release Monkey
is glue

The Moving Parts



SCM / Revision Control



SCM / Revision Control



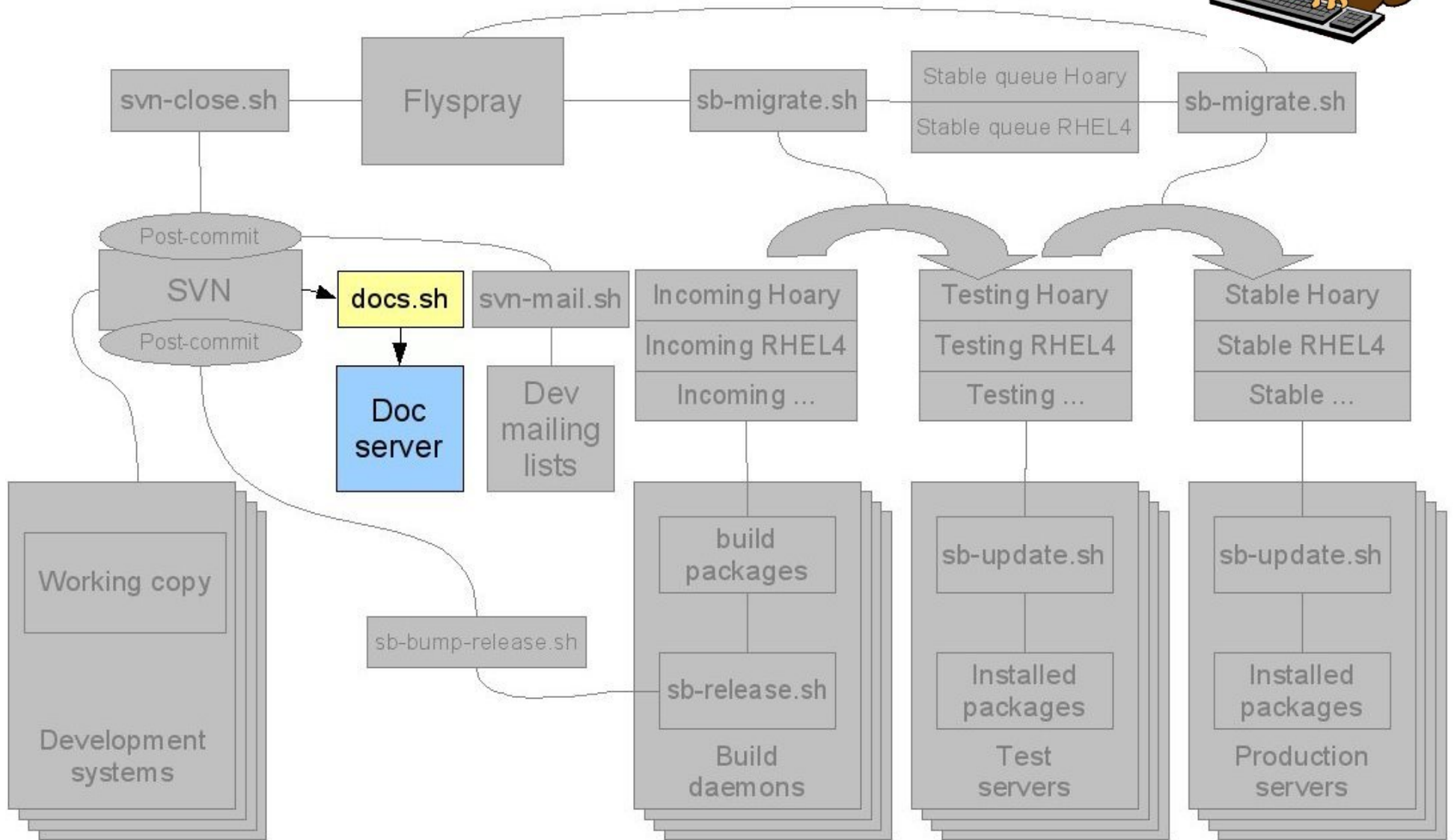
No SCM?

Go directly to jail

Do not pass GO

Do not collect \$500

Internal Docs

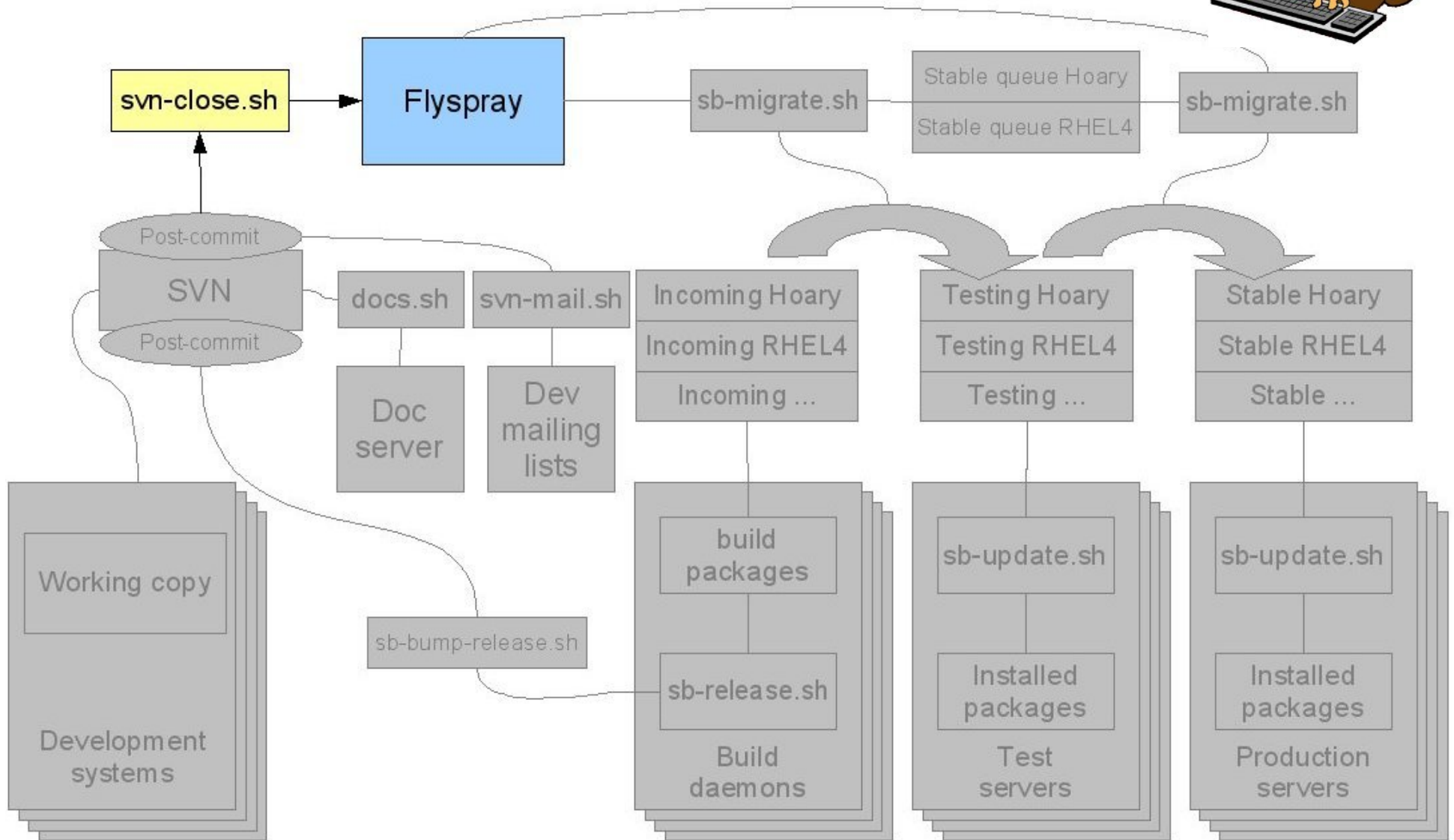


Internal Docs



Javadoc
PHPDoc
Doxygen

Bug Closure

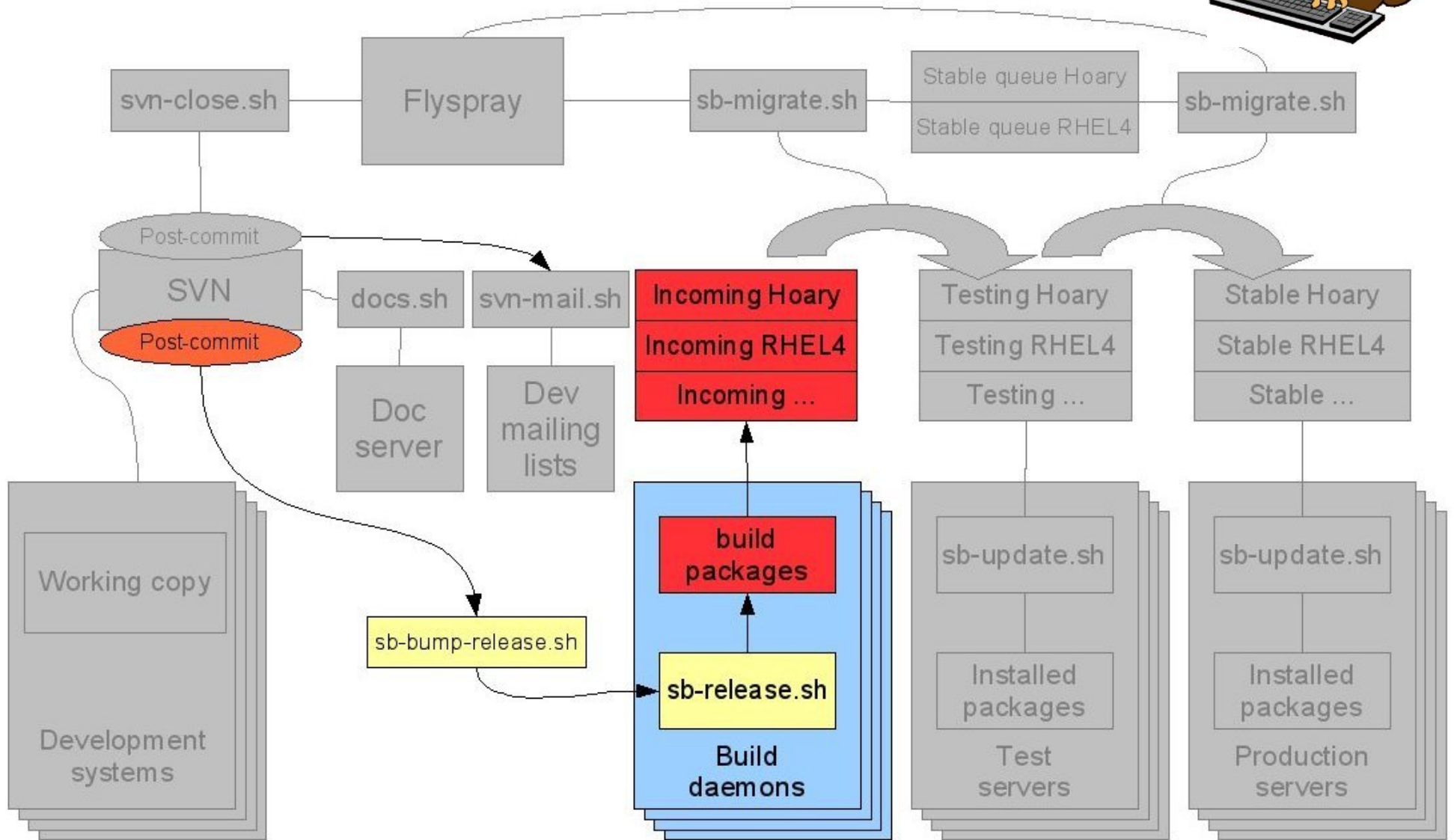


Bug Closure



Check commit
messages for
“Closes: #xxxx”

Build Daemons



Build Daemons



Check commit
messages for
“release” AND
modified changelog

Build Daemons



Push job to
build boxes

Build Daemons



Use distro packaging

Build Daemons



Compile,
build package,
sanity-check

Build Daemons



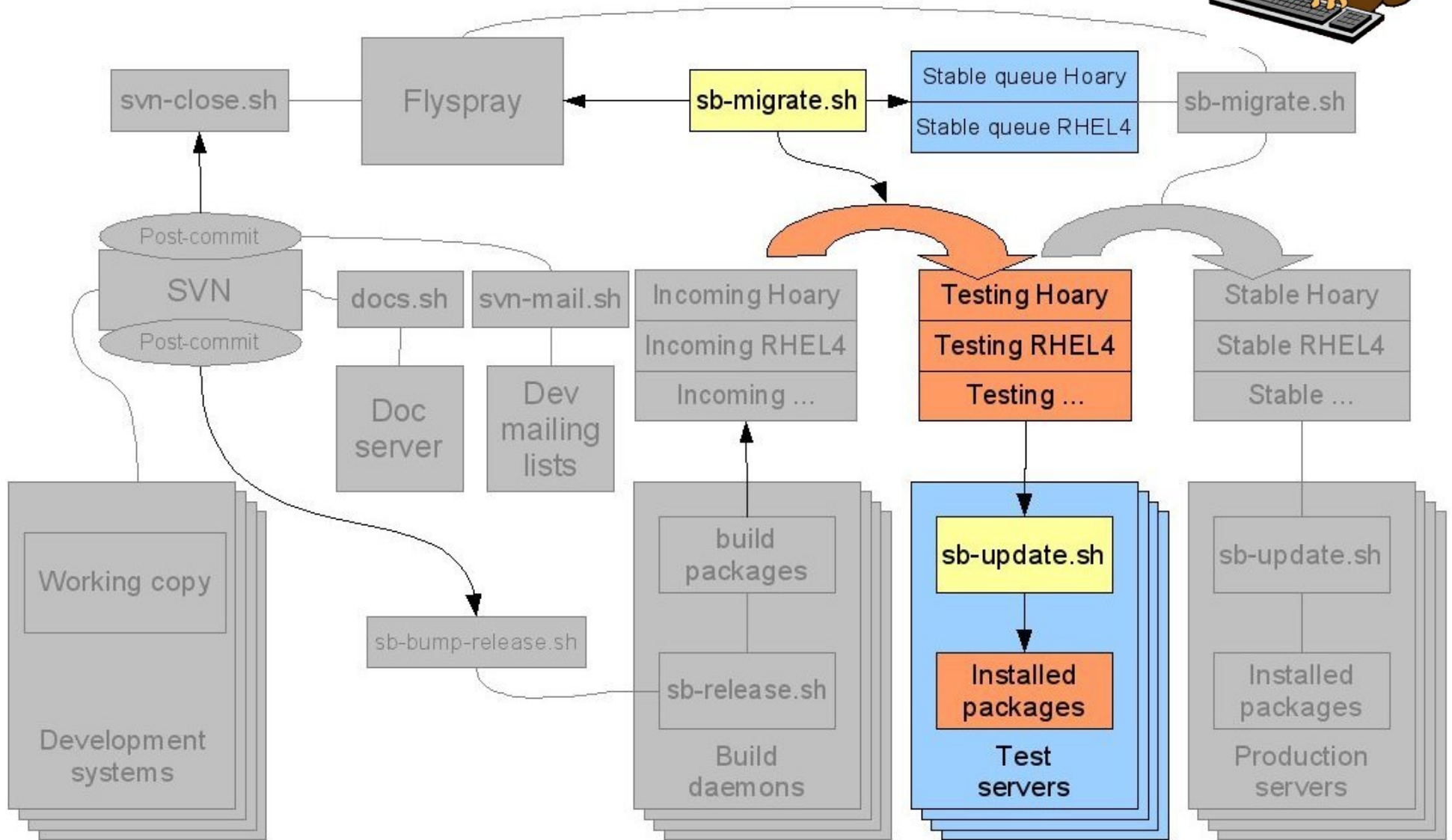
Add release-blocker
to bug tracker
(QA-Test / Critical)

Build Daemons



Push to
“unstable”
repo

Test Deployment



Deploy On Test Servers



Migrate package
to “testing” repo

Deploy On Test Servers



Have test servers
pull down packages

Automatic Testing



Run unit tests /
functional tests
automatically

Automatic Testing



Add results to
bug tracker,
email developer
with breakage

Manual Testing



Pre-populate
clean data,
give each tester
their own sandbox

Release Approval



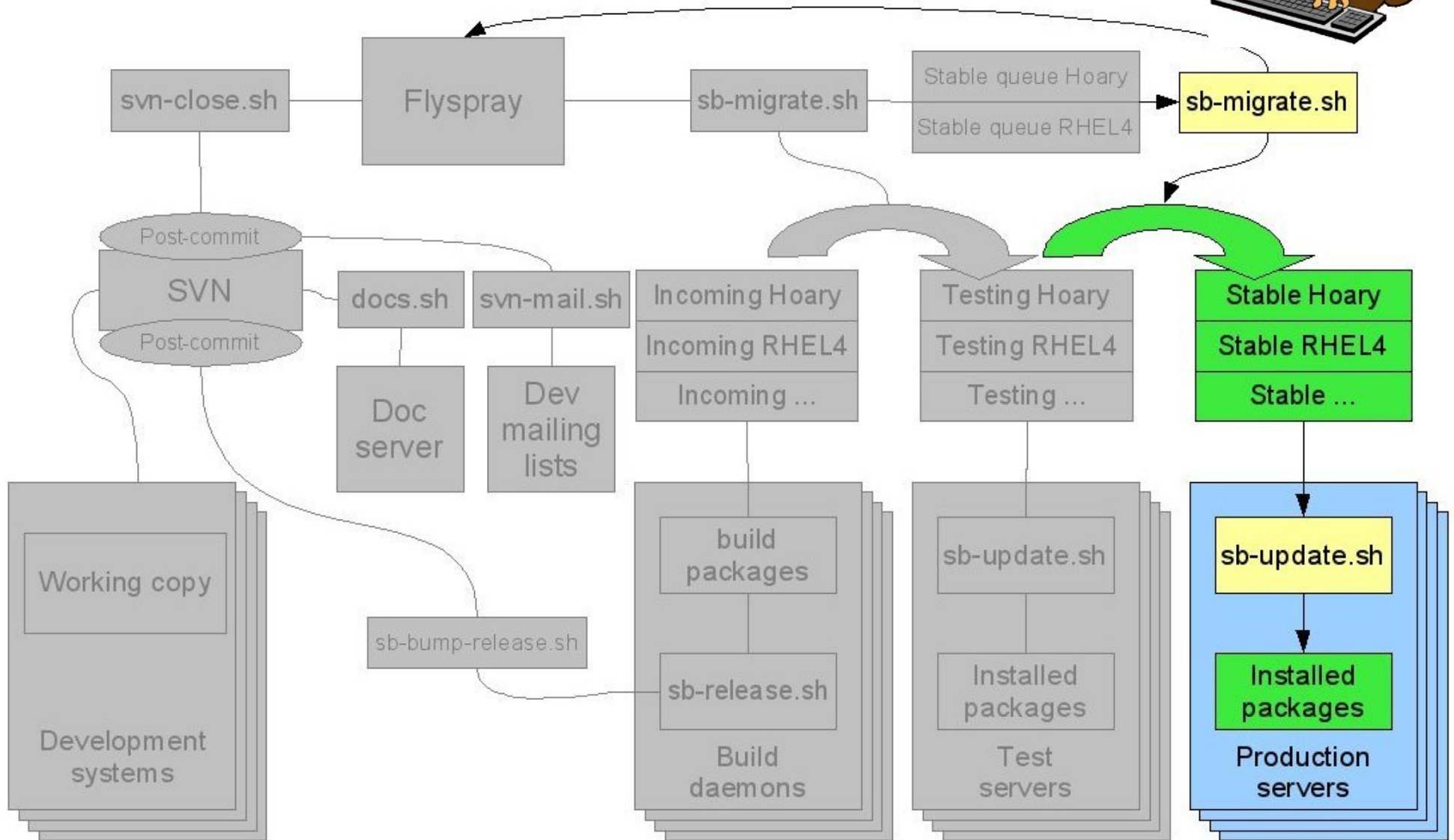
Release prevented by
release-blockers

Release Approval



Close the QA bug to
release the package

Production Deployment



Production Deployment



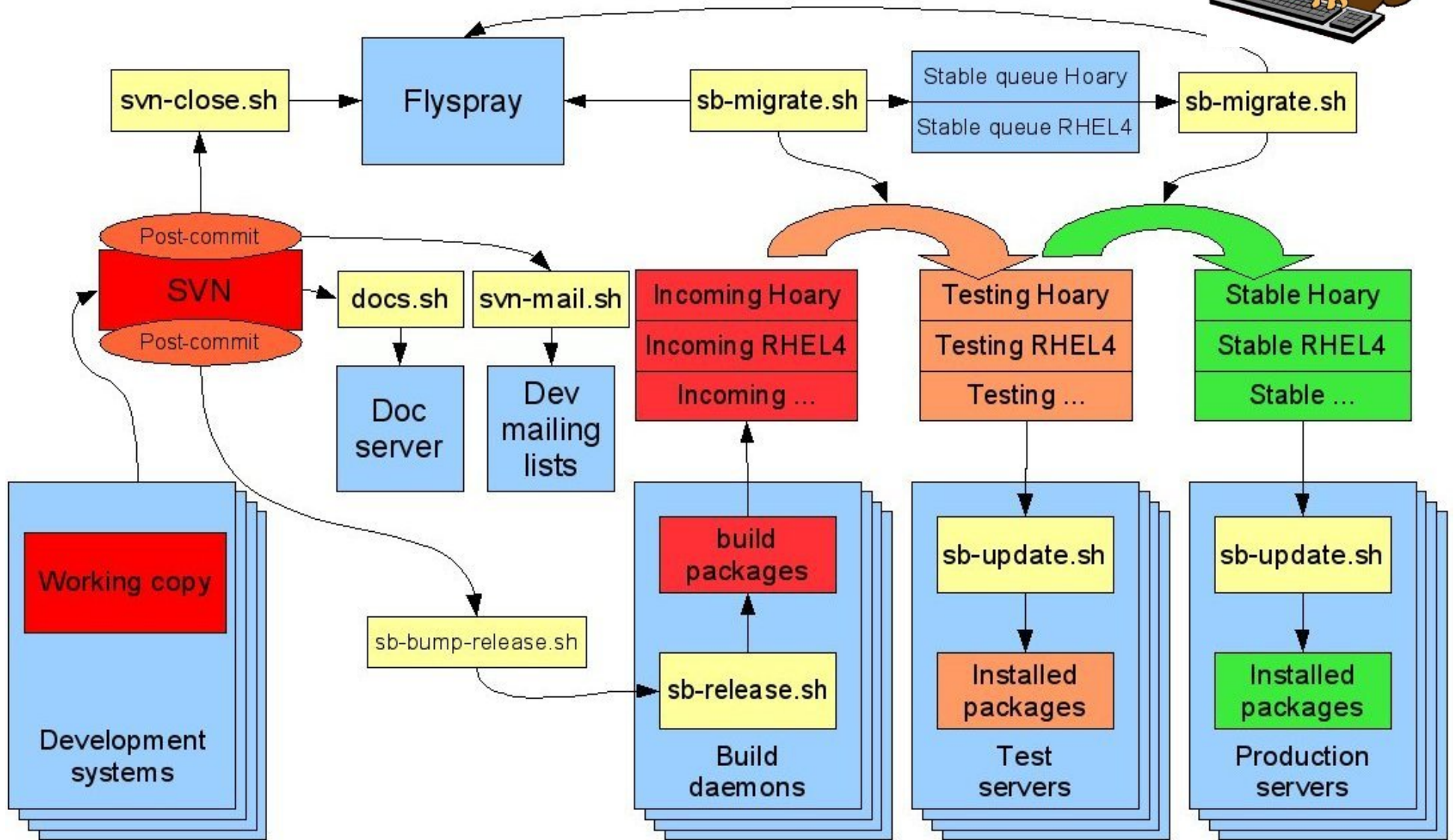
Migrate packages
to “stable” repo

Production Deployment



Production servers
pull stable packages

The Moving Parts



[Bananas Are Good!]



Bananas Are Good! - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.releasemonkey.org/

Release Monkey

[Bananas Are Good!]

Build, package, test and release your software into the wild

Release Monkey is a framework that helps you streamline the process of getting your software from your developers to end users. Release Monkey takes various existing elements such as:

- ◆ bug tracking
- ◆ source code management
- ◆ package creation
- ◆ unit and functional testing
- ◆ package distribution

and glues them all together into a process that automates all the boring bits you would rather not care about.

Release Monkey is very clever and wired out of his skull but he's also bone-lazy, so he intentionally tries to do as little as possible. Rather than reinventing the wheel he gets his grubby little fingers into existing tools such as bug trackers and source code management systems and makes them talk to each other. Release Monkey also builds on the work done to create robust software packaging systems for various Linux distributions such as [Debian](#), [Fedora](#), and [OpenSuSE](#), to automatically prepare your software to be pushed out to multiple target deployment platforms.

Although Release Monkey originally only worked with [Subversion](#), [Flyspray](#), and the Debian package tools, we're busy training him to understand alternatives so that he can happily work with whatever tools the rest of your development team already uses. He's already smart enough to autobuild packages for Debian, Ubuntu, Red Hat, and SuSE and soon he'll be doing a class in [Bzr 101](#).

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Related Projects

- [Flyspray BTS](#)
- [Subversion SCM](#)
- [Bzr SCM](#)

Useful Stuff

- [Ubuntu Hacks](#)
- [Internet Vision Technologies](#)
- [How To Build A Website And Stay Sane](#)
- [LCA2007](#)
- [Linux Australia](#)
- [Planet Linux Australia](#)

Thanks

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These slides: jon.oxer.com.au/talks

Shameless plug: www.releasemonkey.org

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