

# 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



Build-Test-Release  
and Deploy  
*for multiple distros*  
is insane

# 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



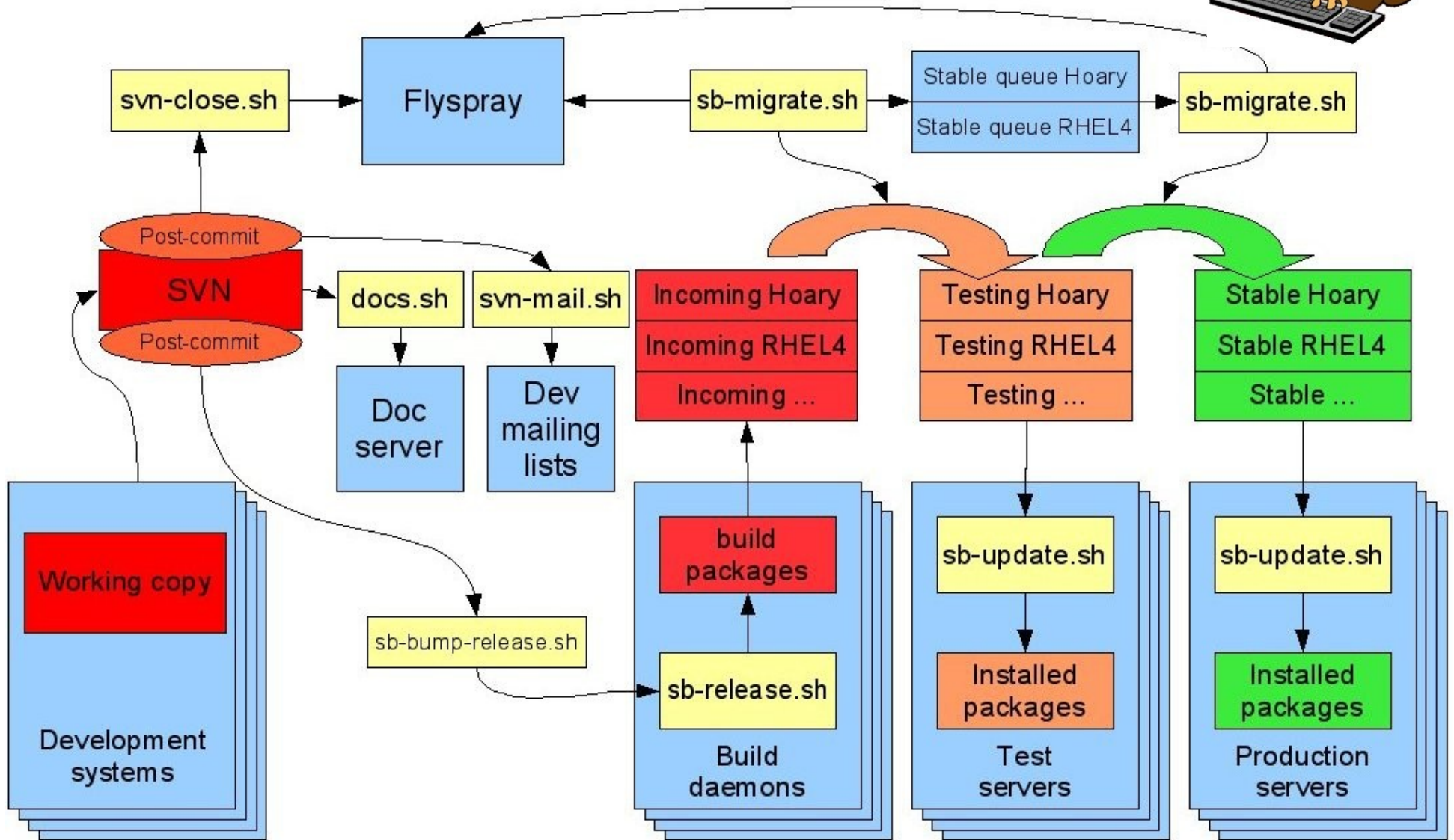
Automate your world:  
hooks and APIs

# The Moving Parts

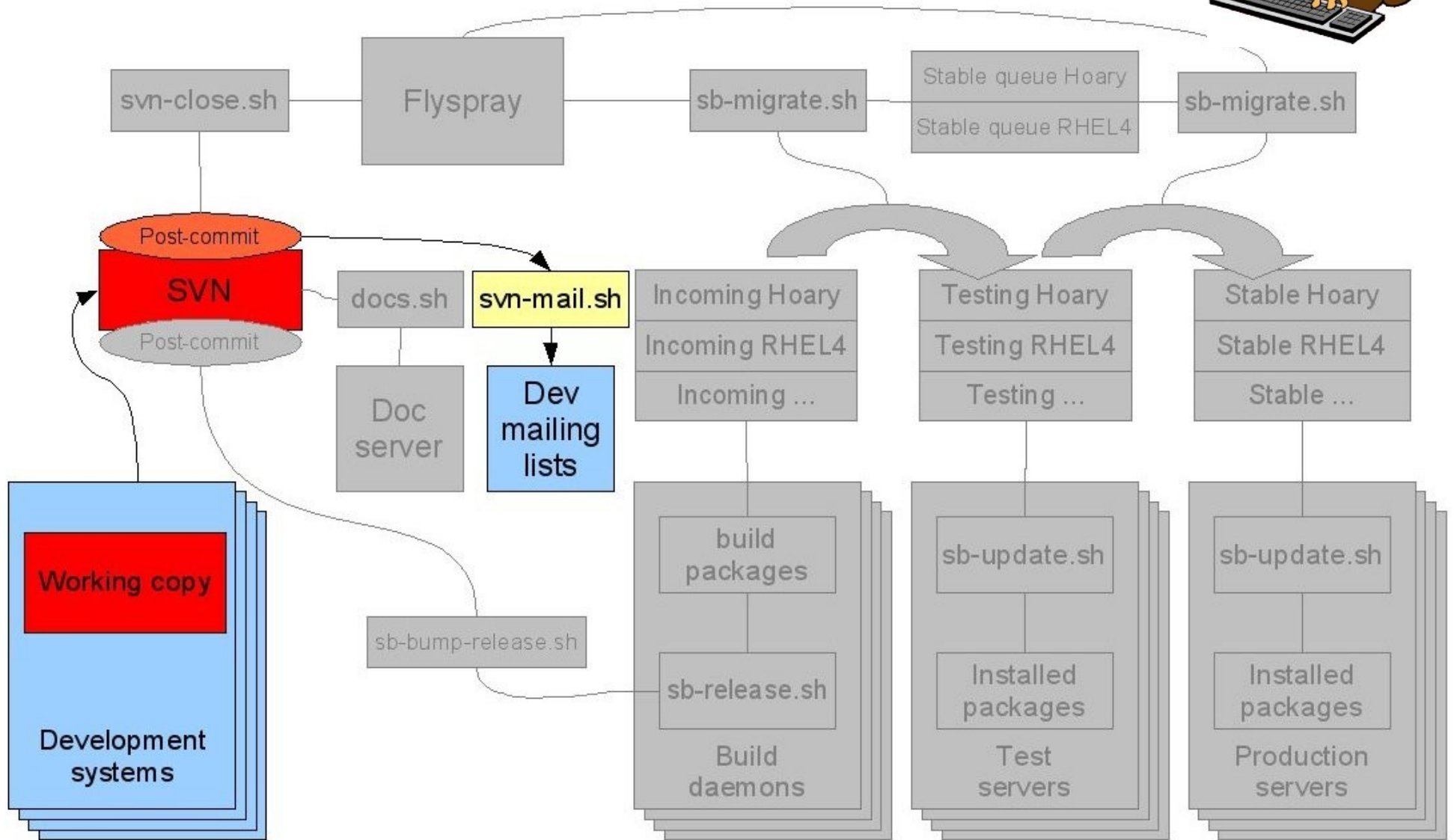


Release Monkey  
is glue

# The Moving Parts



# SCM / Revision Control



# SCM / Revision Control



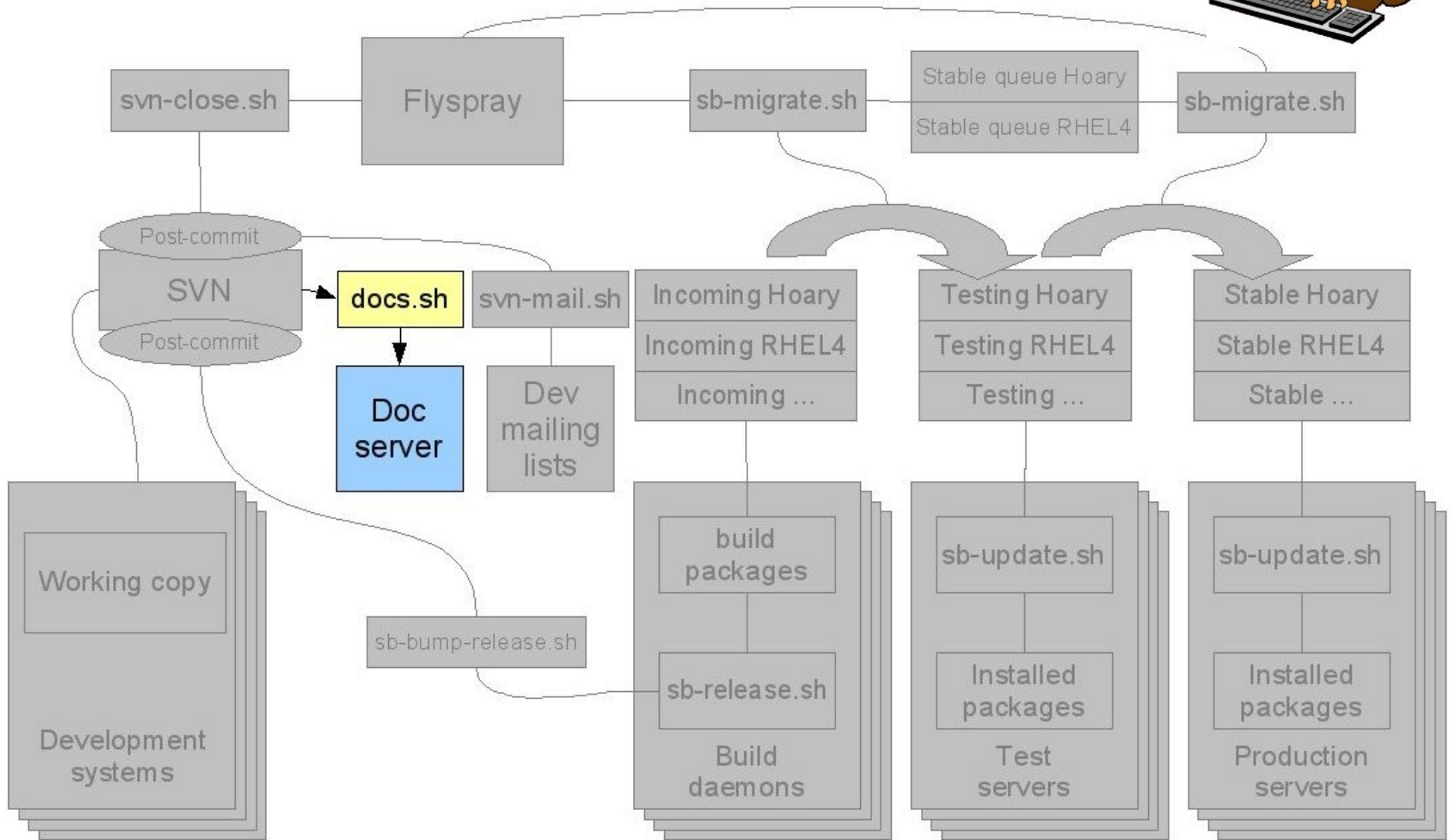
No SCM?

Go directly to jail

Do not pass GO

Do not collect \$200

# Internal Docs

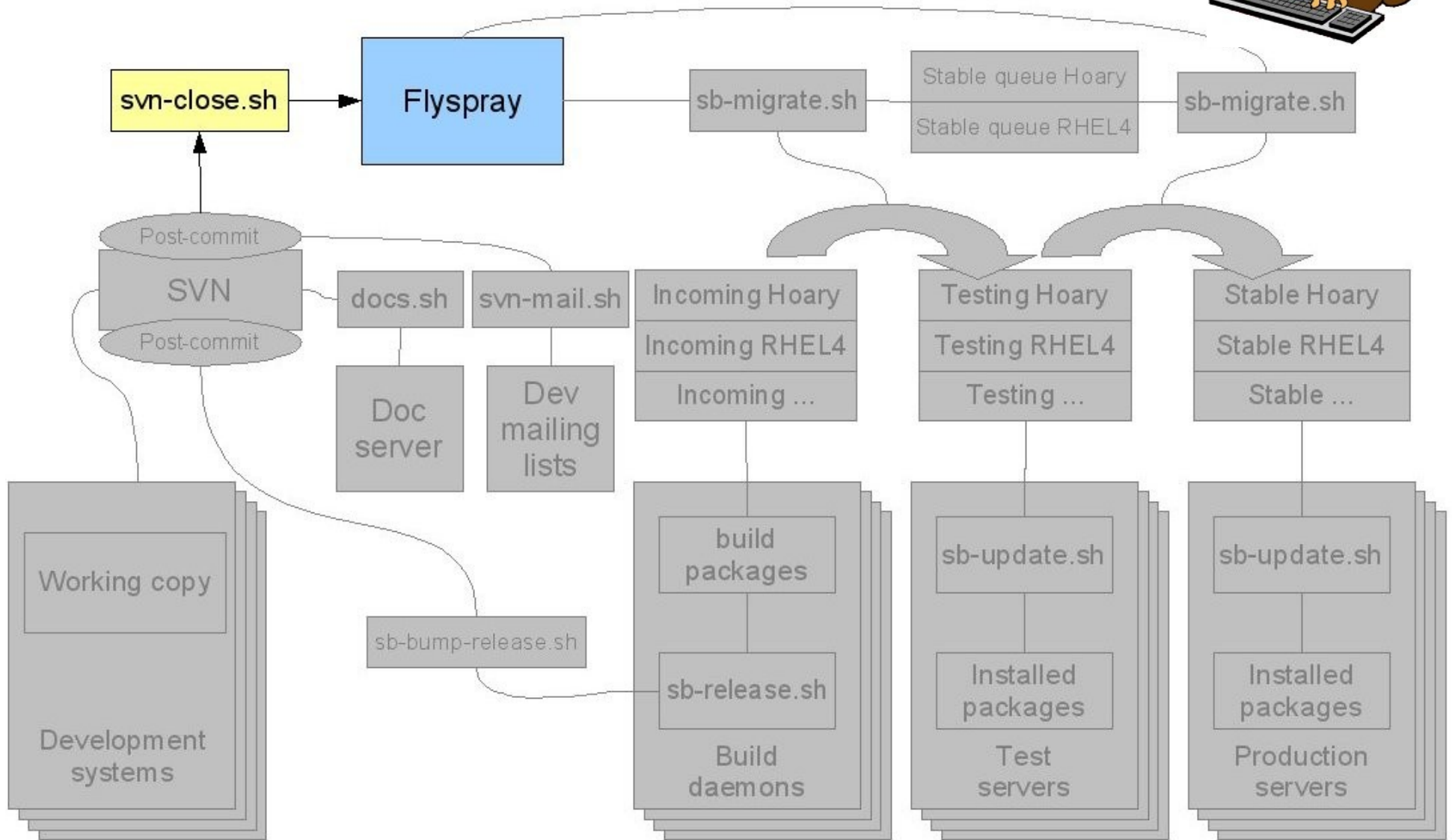


# Internal Docs



Javadoc  
Doxygen  
PHPDocumentor  
Epydoc  
*etc*

# Bug Closure

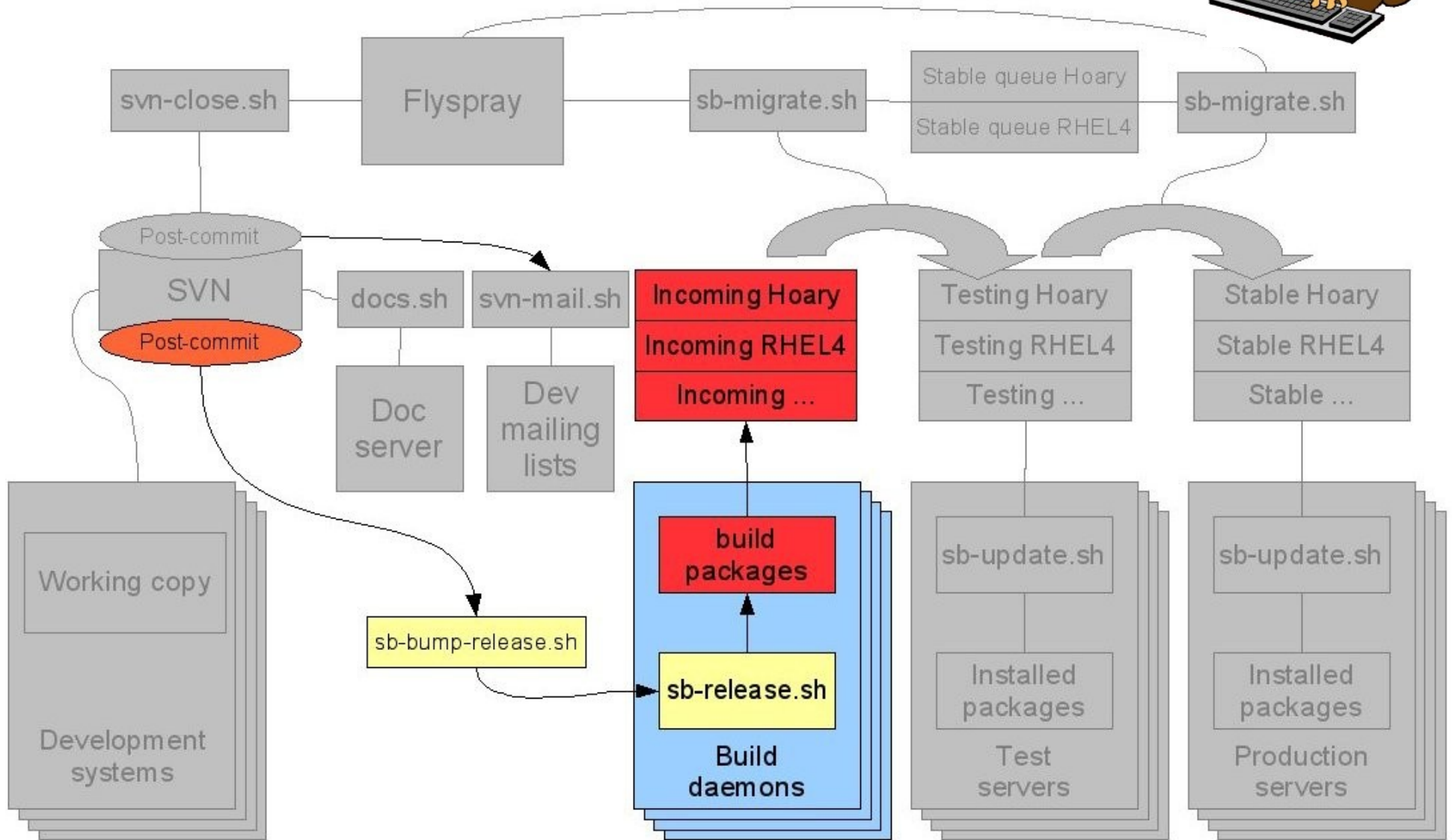


# Bug Closure



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: one  
buildd for each  
distro/arch/release

# Build Daemons



# Use distro packaging

# Build Daemons



Big problem:  
meta data for  
dependencies, etc

# Build Daemons



Dodgy solution:  
use Debian meta  
data and munge

# Build Daemons



Ideal solution:  
Define distro-agnostic  
meta data format

# Build Daemons



Compile;  
build package;  
sanity-check

# Build Daemons



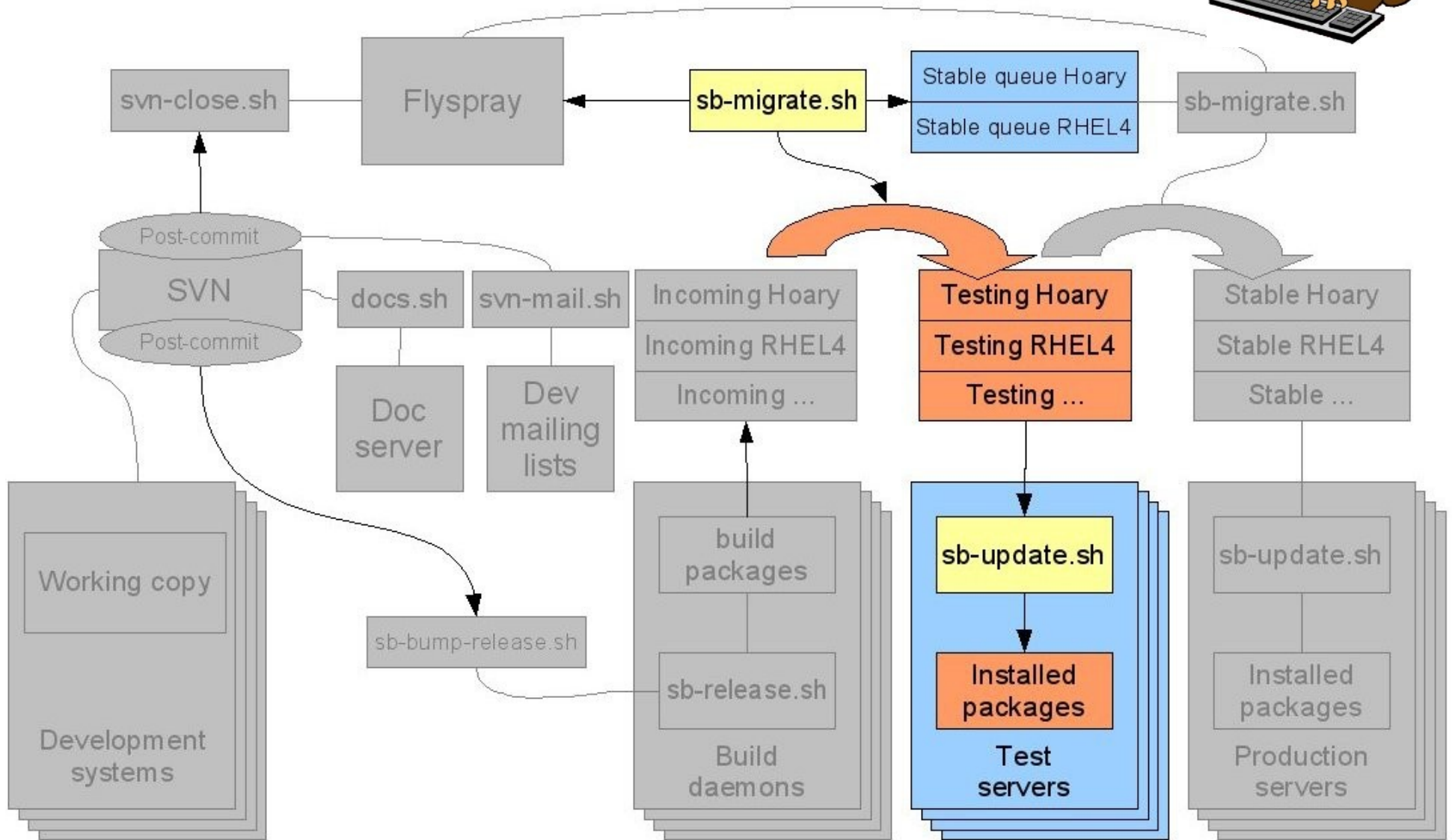
Add release-blocker  
to bug tracker  
(QA-Test / Critical)

# 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



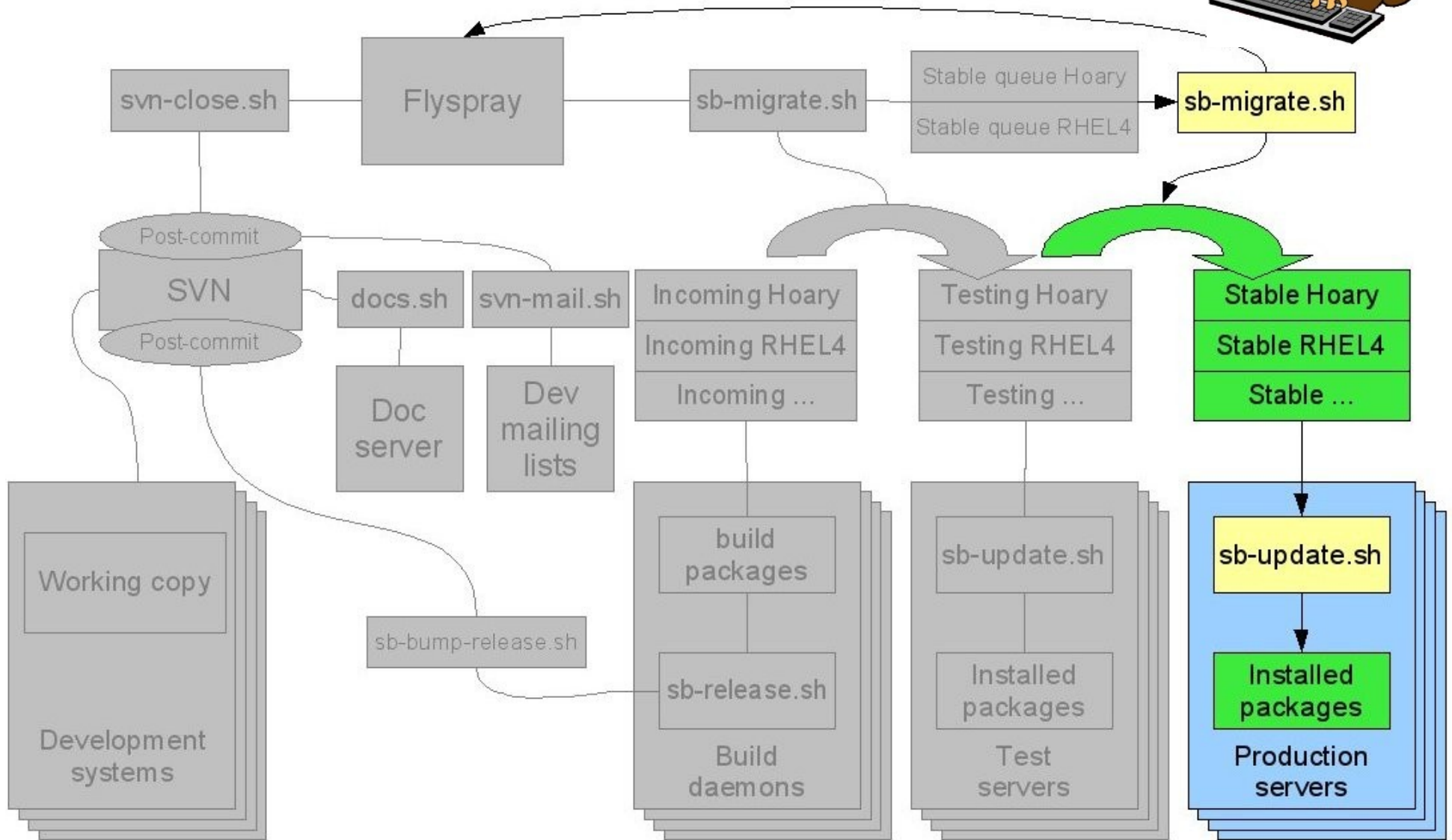
Release prevented by  
release-blockers

# Release Approval



Close the QA bug to  
release the package

# Production Deployment



# Production Deployment



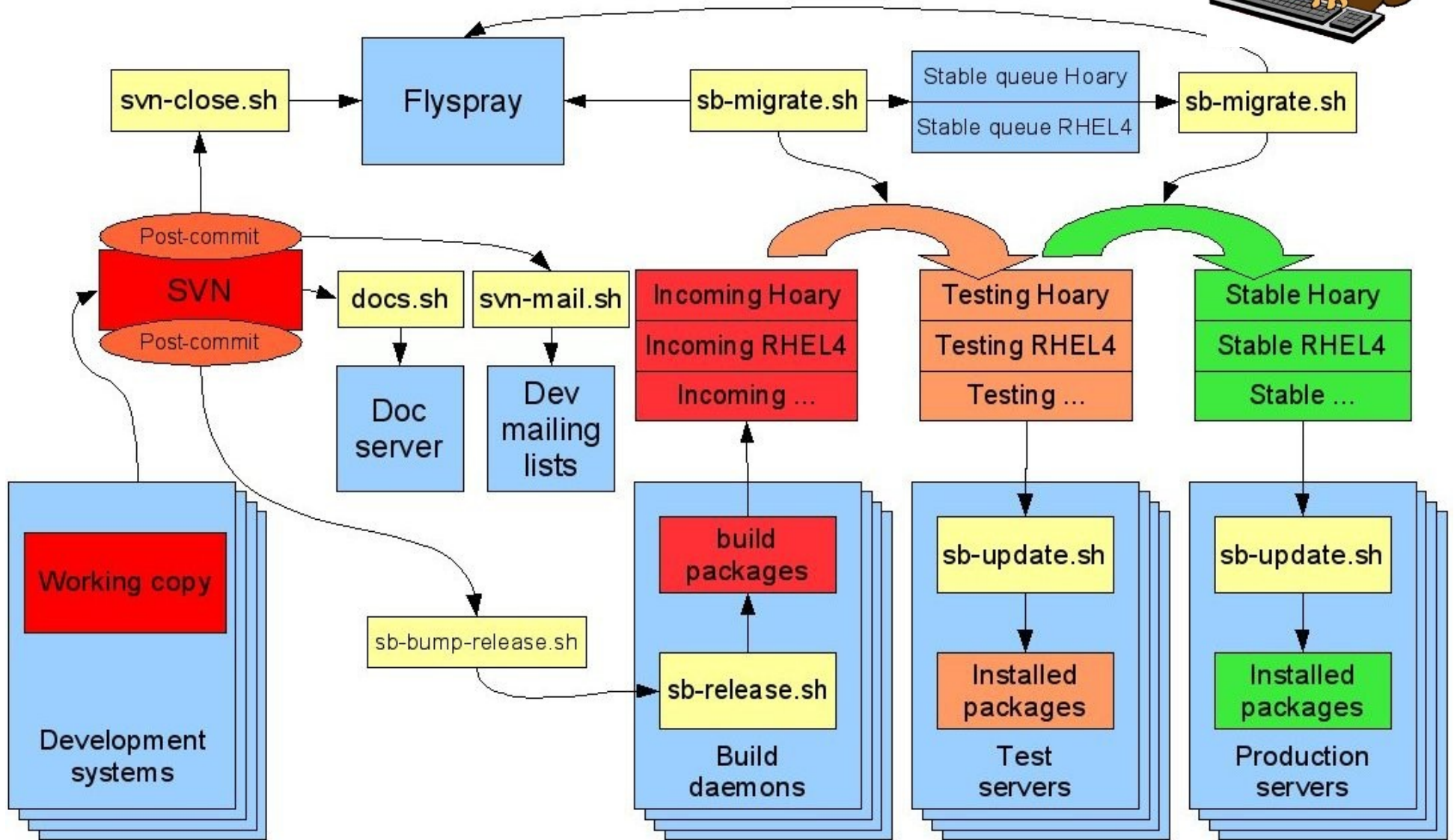
Migrate packages  
to “stable” repo

# 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

:-)



These slides: [jon.oxer.com.au/talks](http://jon.oxer.com.au/talks)

Shameless plug: [www.releasemonkey.org](http://www.releasemonkey.org)

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