

JUC New York 2012





Kohsuke Kawaguchi, CloudBees, Inc. Creator of Jenkins

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http://cloudbees.com/

Thank you!

- For coming today
- For speaking
- For your help organizing events

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2004 Summer

I broke one too many builds

Wouldn't it be nice if ...?

And so it began

build.sh

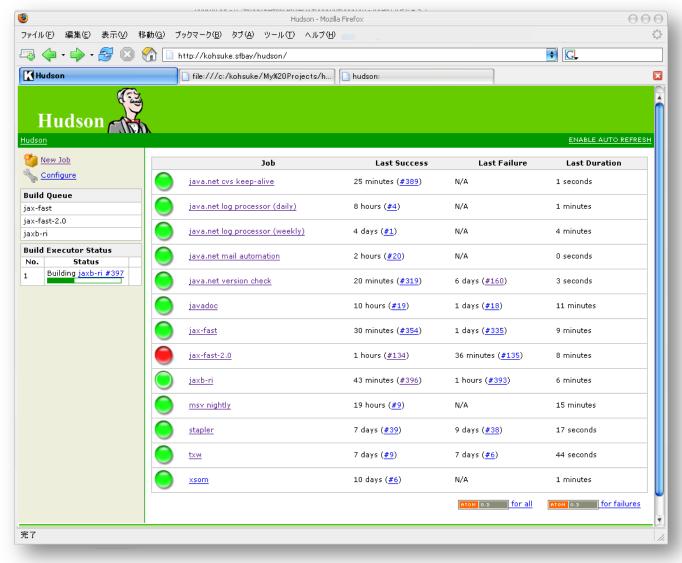
```
#!/bin/bash -ex
exec 2>&1
cd /files/jaxb-ri
cvs update
ant
```

monitor.sh

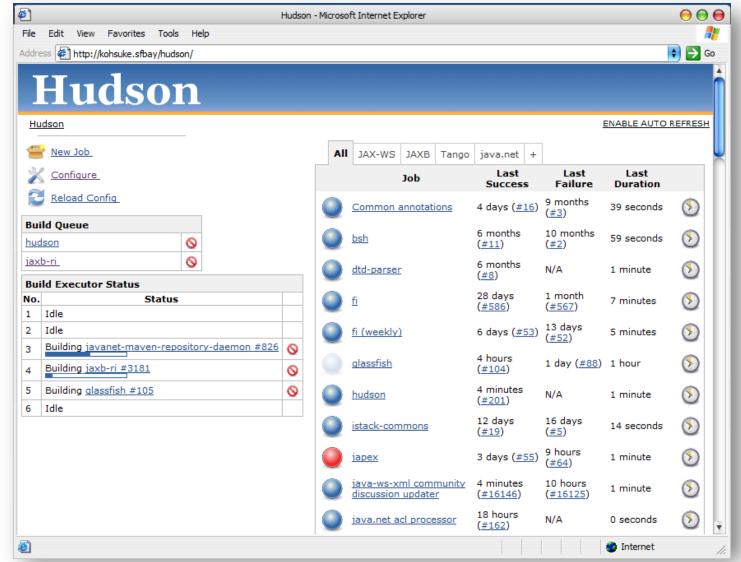
```
#!/bin/bash -ex
build.sh > build.log | | mail ...
```

Run from cron

Then I wrote my version



By 1.15 (Feb '06)

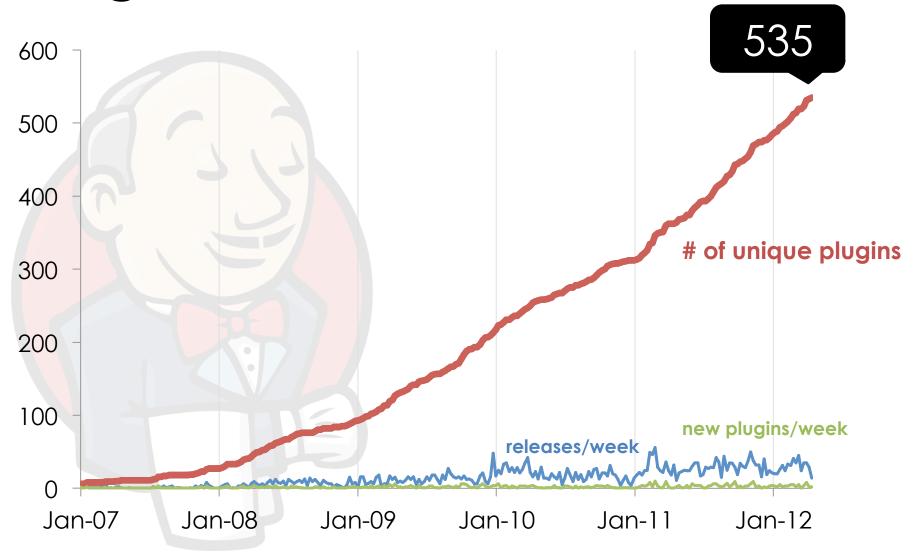


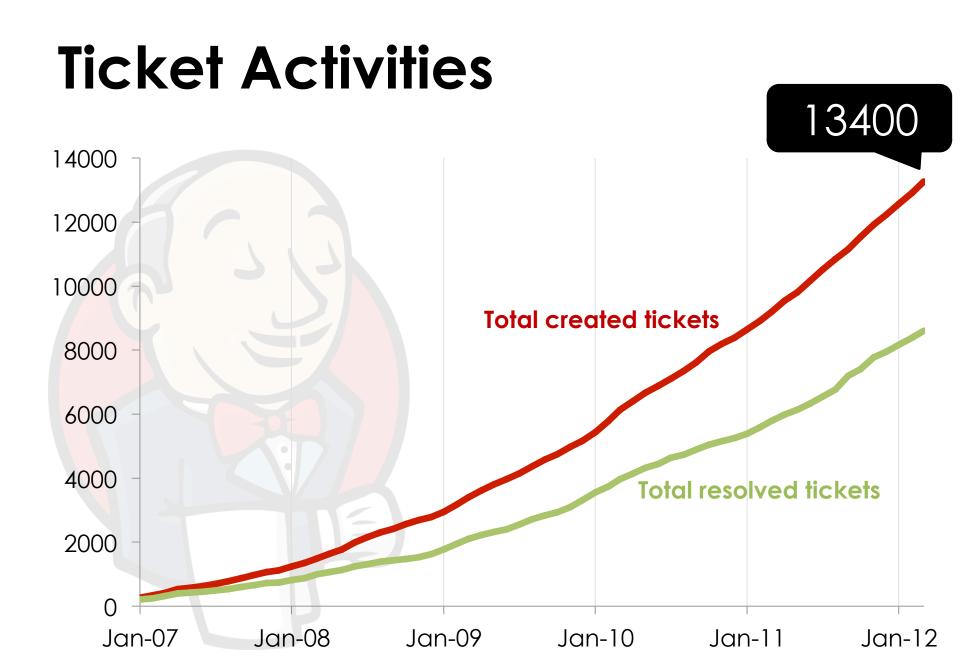
The culture was established early on

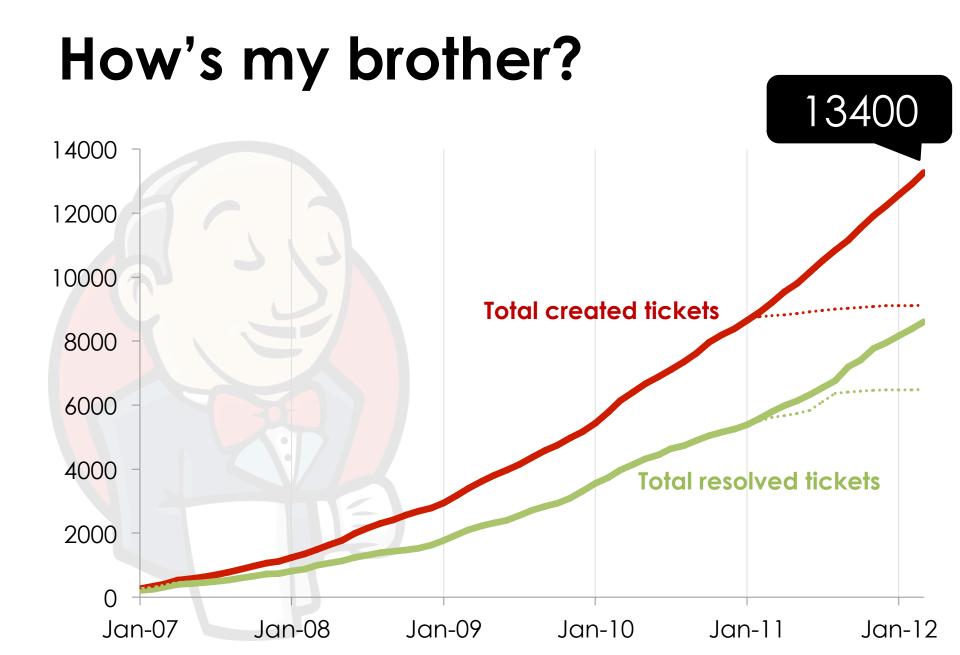
- Weekly release cycles
- Extensibility via plugin
- Lower barrier to entry
- Backward compatibility matters

And then we just kept on keeping on

Plugin Growth











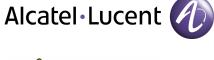








Cloudera













































Deutsche

The Apache

Software Foundation

Linked in















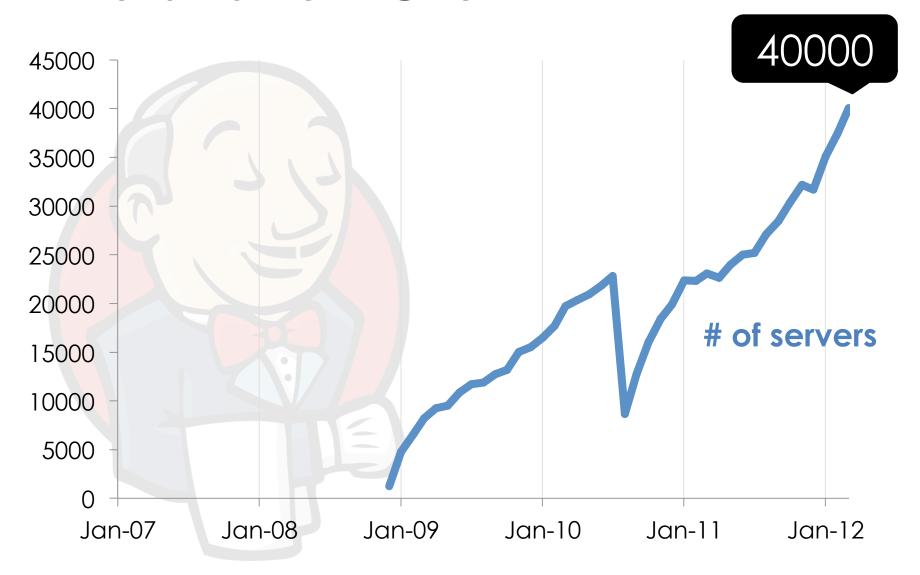




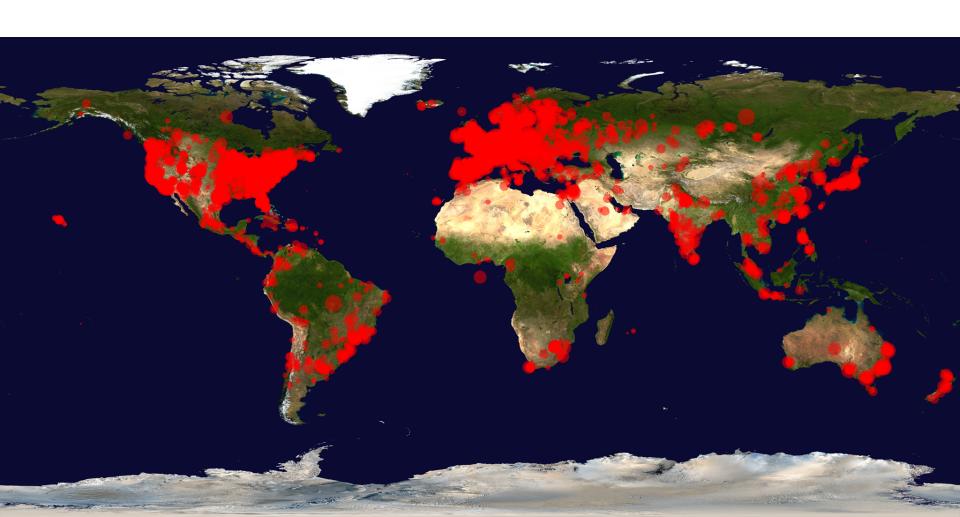




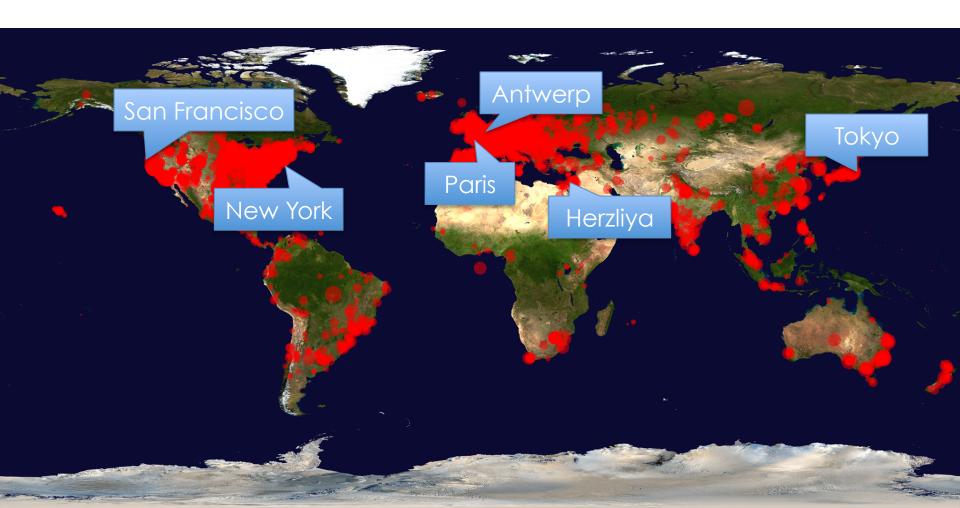
Installation Growth



Usage All Around the World



And so JUC around the world!







Legal Entity

- Jenkins now affiliated with Software in the Public Interest (SPI)
 - NPO to promote free and open software
 - Joined the likes of Debian, Drupal, PostgreSQL
- Enables us to enter into contract, own assets, and live longer than individuals

Fundraising Drive

- Through SPI, so tax deductible
- jenkins-ci.org/donate
- Goal was \$5130, but we've raised \$12000+!

\$12446

\$5130

Jenkins CIA Agent



- Presenting
 Jenkins
 somewhere?
 - We'll send youT-shirt & stickers!
- Join the CIA to spread words

Interim Governance Board

- Myself, from CloudBees
- Andrew Bayer, from Cloudera
- Dean Yu, from Yahoo

Project Meeting

- Bi-weekly meetings
 - Held in IRC
 - Agenda/participation open to anyone
 - Logs available online

For Jul 6th Meeting

WHEN July 6th 18:00 UTC, which should be 11am PDT, 2pm EDT, 8pm CET, 3am Tokyo.

- · How do we handle pull requests which are pending for a long time
 - see http://echelog.matzon.dk/logs/browse/jenkins/1309816800 (since ~19:40) for a related discussion
- . What is the current state of the 'The new EMailer' ?
 - Maybe to get things going again, deprecate the built-in EMailer and deliver email-ext bundled?
- Infra update from R. Tyler Croy regarding new machines at the OSUOSL
- CLA discussion. We should start collecting CLA for core, and our current plan on the record was to reuse Apache CLA.

MINUTES summary and raw

Governance Document

- Our implicit modus operandi, made explicit
- https://wiki.jenkins-ci.org/display/JENKINS/Governance
 +Document

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Governance Document

- Clarifies how we work
 - Should make onboarding easier
- License policies
- Project roles
- Name usage
- Check list for pull requests



Contributor License Agreement

- As a part of governance document, the project approved of collecting CLA for core
 - Based on CLA used by Apache
 - Further clarifies the rights associated with contributions
 - Protect users and projects from potential legal disputes



Diversity is good for project

- We rely on diverse entities to run jenkins-ci.org
- Thanks to





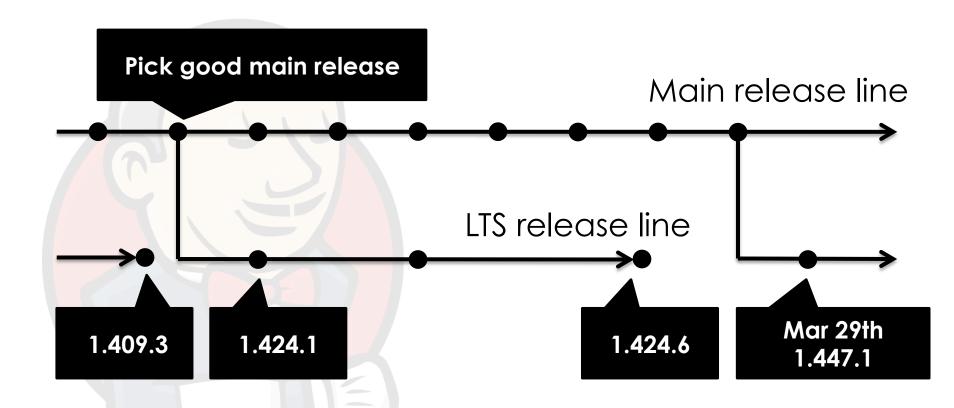








Long-Term Support Releases



Backporting proven/critical fixes only

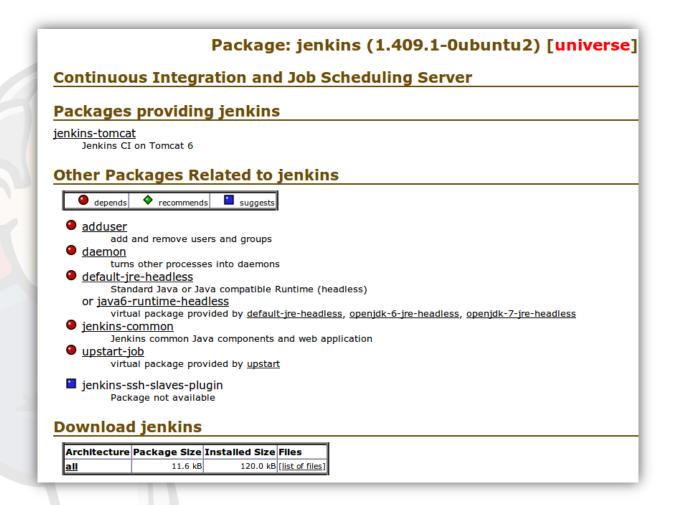
Security Advisories

- Jenkins isn't immune to vulnerabilities
- Subscribe via e-mail or RSS feed
 - http://jenkins-ci.org/advisories

- Especially for those who run Jenkins on the internet
 - But also applies to intranet Jenkins

Jenkins is now in Ubuntu



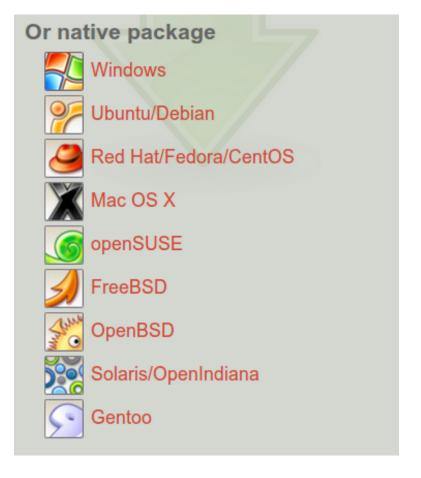


more native packages





 Mac OS X and Solaris, especially new



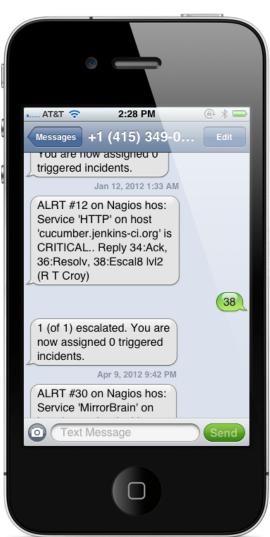
More Open Infrastructure



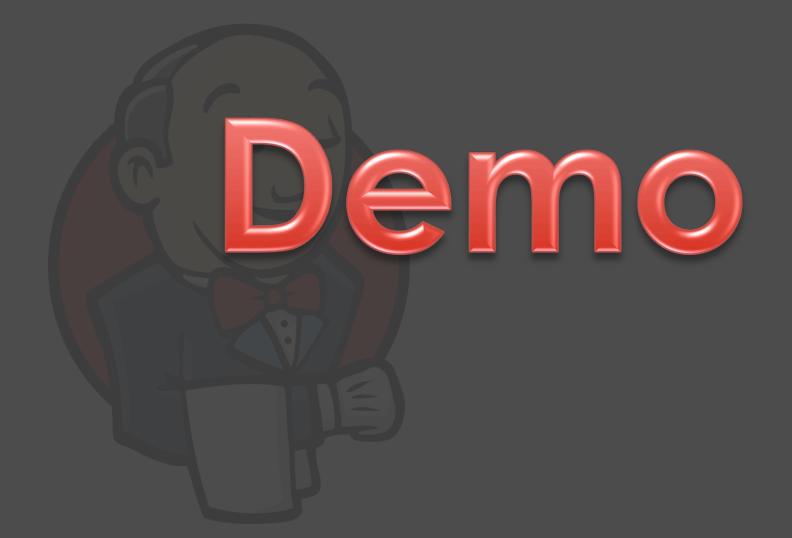
- For longest time, infra work was behind the closed door
 - We can't just hand out system access to everyone
- But now Tyler is pushing Puppet to work
 - http://github.com/jenkinsci/infra-puppet
 - "Open-sourcing" server setup
 - Send in pull requests to make changes
 - # of trusted admins is less of a bottleneck

Infrastructure Improvements

- Server monitoring
 - http://nagios.jenkins-ci.org/
 - And Pager Duty
- Now 9 mirrors around the world
- Runs our own DNS
- Outsourcing work
 - Hosted Artifactory
 - Hosted Jenkins







Beyond what you saw...

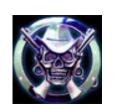


- Frontend modernization
 - Prototype 1.7, YUI 3
 - JavaScript performance improvements
- Page load performance
 - gzip compression on by default
 - Images in plugin with cache headers

And more features

- Subversion 1.7 support
- Localization in 40 languages
- Client-less CLI
- SSH public key authentication
- API token
- Naming convention enforcement
- Color logs in console
- Arbitrary build steps in Maven projects

Developing plugins in Ruby

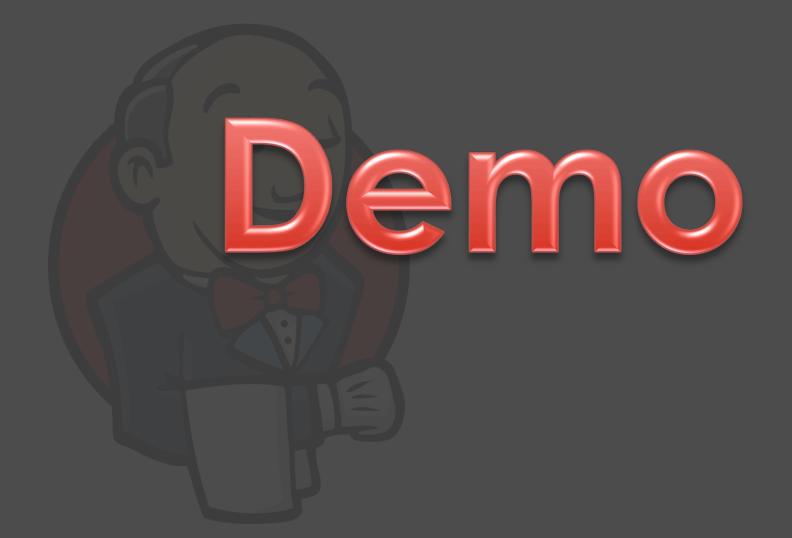


- Develop plugins in Ruby
 - No Java, no Maven, no Jelly
- With decent assistance
 - Live code reloading
 - Skeleton generation
 - Packaging & release
- Runs on JRuby

More developer improvements

- IoC via Guice in core
- JUnit4 test harness
- Views in Groovy (not Jelly)
 - Debugger
 - Code completion
- More extension points
- Building plugins with Gradle, JRebel





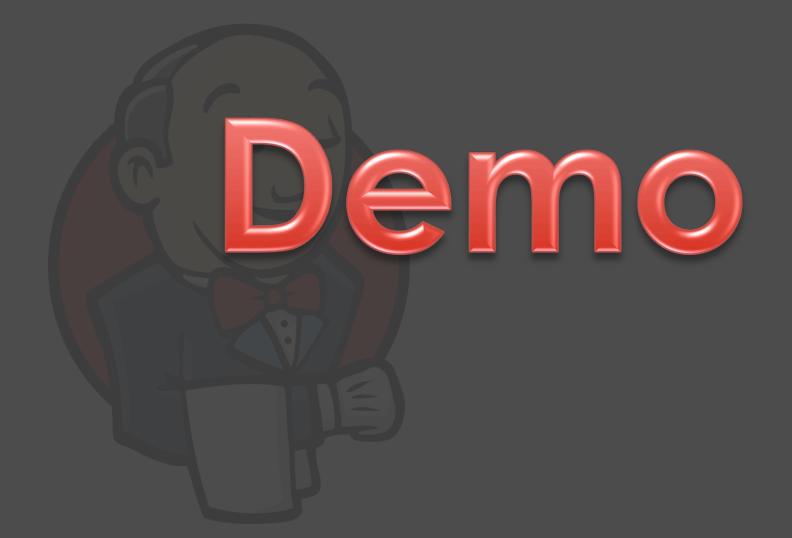
BuildHive.cloudbees.com

- Love to get your feedback
- Pieces you'd like to use on your own?

More from my day job...

- Jenkins Enterprise by CloudBees
 - High-availability
 - Host your own update center
 - Validated merges
- Just released!

- More free plugins!
 - Folder
 - Backup to cloud
- Open-source plugins!
 - Credentials
 - File leak detector



What I'd like to work on

- Start-up performance improvements
- Help finding plugins you need
- Easier test parallelization
 - By taking advantages of slaves
- Distributed execution assistance
 - Use Jenkins slaves as general-purpose computing grid

Conclusions

- A lot is going on, in terms of
 - Governance
 - Adoption
 - Development
- And lots more progress to come
- Enjoy the rest of the day!
 - Talk to each other