

Jenkins Community Survey Results



October - November 2011

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Sample Survey Participants



Sony Ericsson



Results in a Nutshell



- **Jenkins is considered mission-critical by 82% of respondents!**
 - Most report having at least 2 people supporting Jenkins, and the vast majority are running more than one project on it
- 624 people filled out the survey
- Jenkins is useful for companies of any size, but 76% work for organizations with > 10 developers
- All types of job profiles are interested in Jenkins (Developer, QA, Exec, etc.).
 - Developer is the most common job role but a surprising number (21%) identify themselves as DevOps and Build Manager
- **Typical installation profile:**
 - 80% of respondents have 3 or fewer masters and 10 or fewer build agents
 - 65% of companies have 10 or fewer executors
 - 76% have between 2 and 50 projects

Results in a Nutshell



- **Important features to develop:**
 - Additional reporting capabilities
 - High availability
 - Overall, wide variance in prioritization – different features were important to different users
- **Most important factors in making Jenkins easier to adopt and strengthening its impact:**
 - Jenkins quality
 - Plugins
 - Overall, wide variance in responses
- **71% only use Jenkins for CI. 17% also use Hudson**
- 81% considered themselves intermediate or expert Jenkins Users
- 86% think they have enough access to Jenkins resources to build solid knowledge
- 62% have > 5 years of dev / IT experience

About the Jenkins Community Survey Methodology



- **624 responses – thank you!**
- Paper survey handed out at Jenkins User Conference on 10/2 (174 responses)
- Online survey ran from 11/1 - 11/30 (450 responses)
 - Details here:
<http://blog.cloudbees.com/2011/11/take-jenkins-survey.html>
- Word spread through Jenkins-ci.org, Founder Kohsuke Kawaguchi's blog, CloudBees blog, LinkedIn, CloudBees contacts, and various forums/social media channels
- Sponsored by [CloudBees](#)

If there's anything you'd change about Jenkins, what would it be?



(Actual responses. So many happy users... 😊)

Nothing

Awesome product !!

Nothing much, it's a great tool

*Nothing. It's fantastic.
Seriously. X :)*

*Like it very much so far.
Maybe add skins*

nothing

*Keep it going!
Great work!*

nothing

Nothing :)

Nothing, it really is a great product!

nothing

Jenkins is fantastic.

None that I can think of at moment

No.

I like everything at the moment.

Nothing; Jenkins adapts and matures faster than I can come up with ideas.

There is no need to change something.

Nothing

The yellow balls of builds should really be orange. The blue balls should really be green :)

Hard to say, it's good tool :-)

Nothing

none for now



About Survey Takers and Their Companies

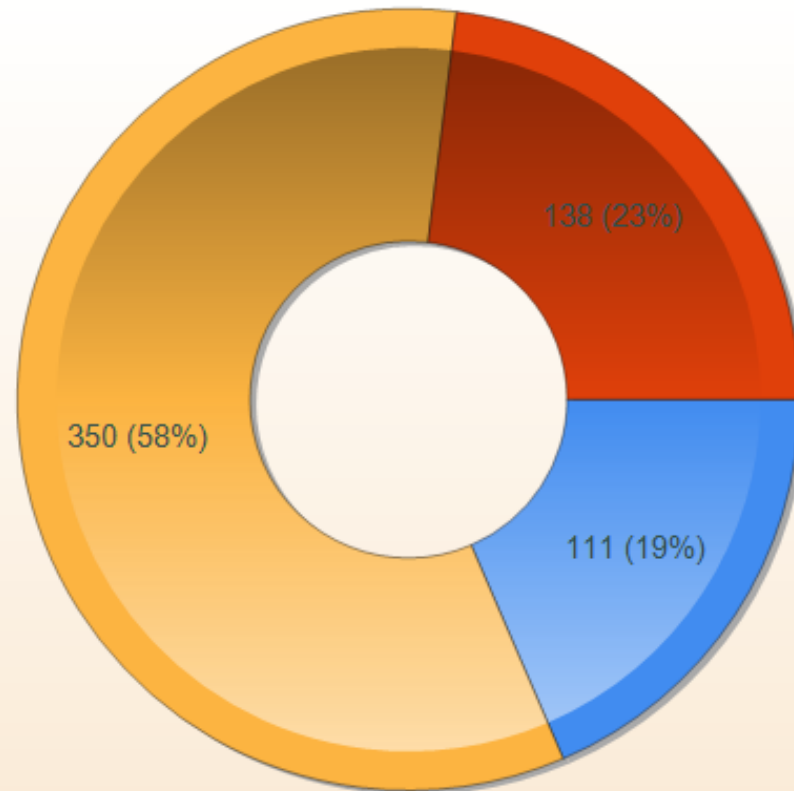
Knowledgeable Responses



- 81% considered themselves intermediate or expert Jenkins users
- Good distribution of respondents, biased towards neither beginners or experts

What would you consider to be your level of Jenkins expertise?

■ Beginner ■ Intermediate ■ Expert

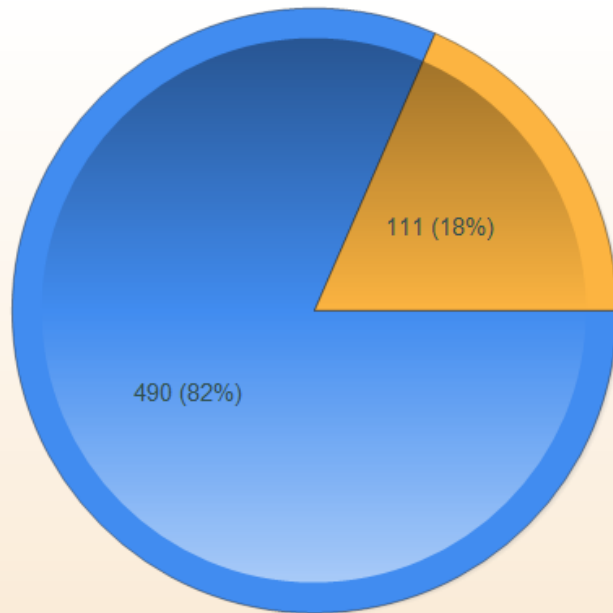


Jenkins is a Core Dev Tool



Would you consider Jenkins to be Mission Critical to your development process?
82% said YES

Would you consider Jenkins to be mission-critical to your development process?
Yes No



“Ask any ScrumMaster worth her salt, and she’ll readily tell you of the importance of continuous integration —integrating, building, and testing source code changes early and open to reduce rework and integration issues.”

– Dave West and Jeffrey S. Hammond, Forrester

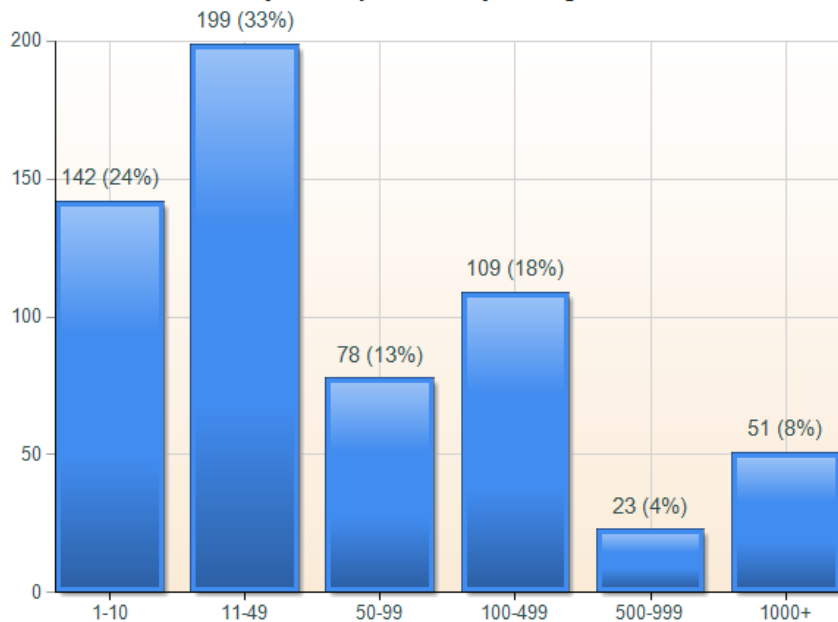
The Forrester Wave: Agile Development Management Tools, Q2 2010, May 2010
<http://www.scribd.com/doc/46561305/Agile-Development-Management-Tools-Forrester-Q2-2010>

Jenkins Demographics

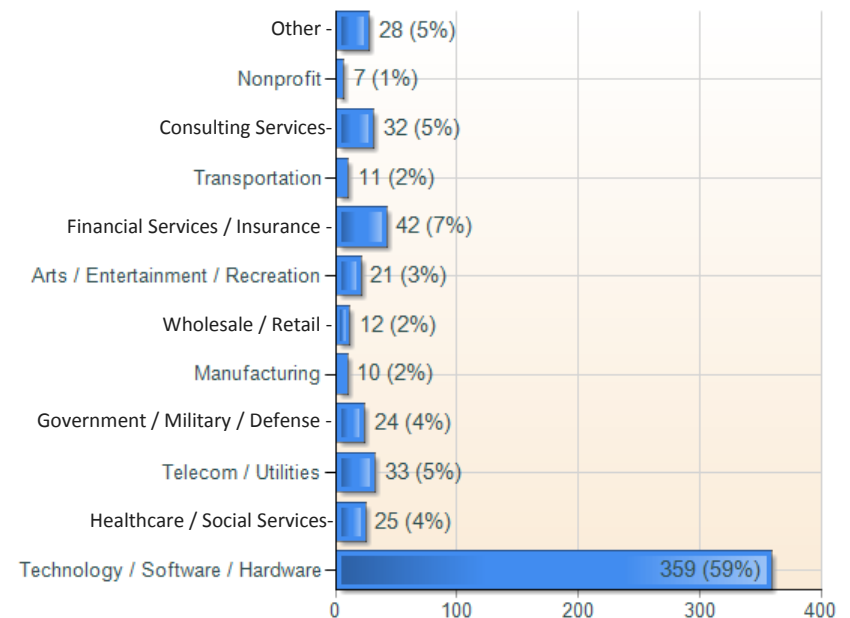


- Jenkins is useful for companies of any size, but 76% work for organizations with > 10 developers
- Many industries use Jenkins, but most users consider themselves in technology
- Plenty of room for Jenkins growth in non-technology industries

How many developers are in your organization?



What industry is your organization in?

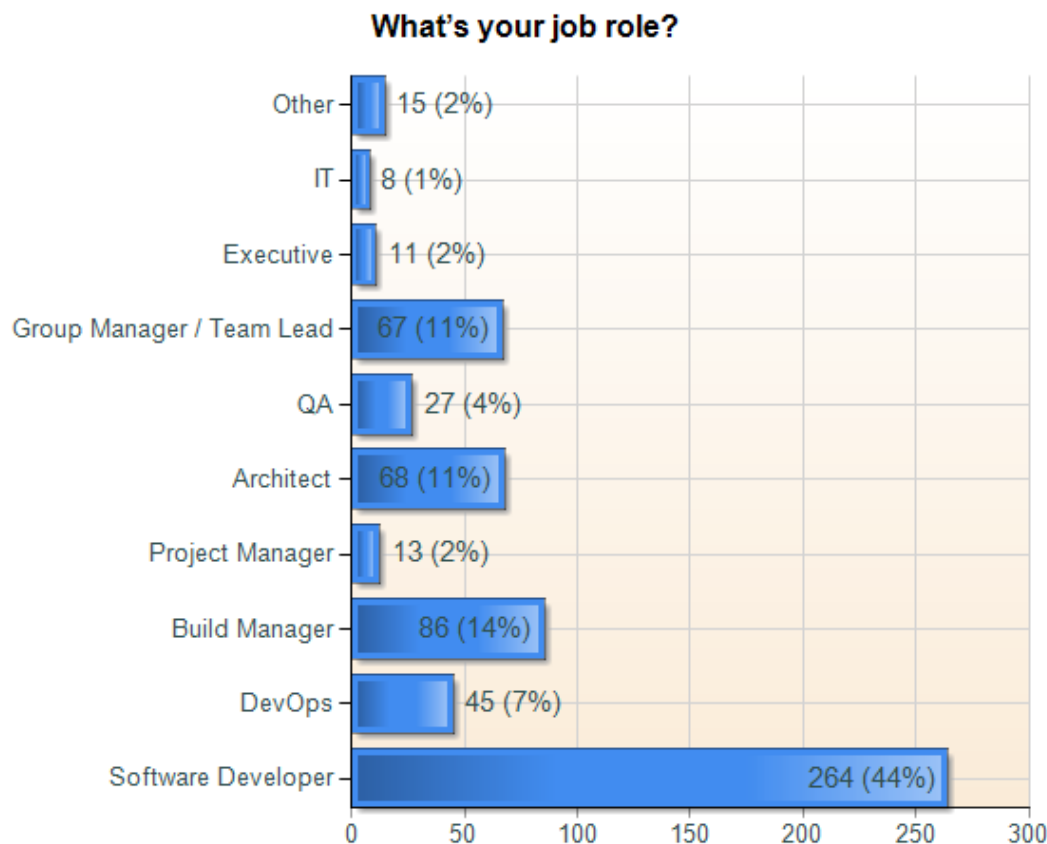


More Demographics: *Job Role*



- **All types of job profiles are interested in Jenkins (Developer, QA, Exec, etc.)**

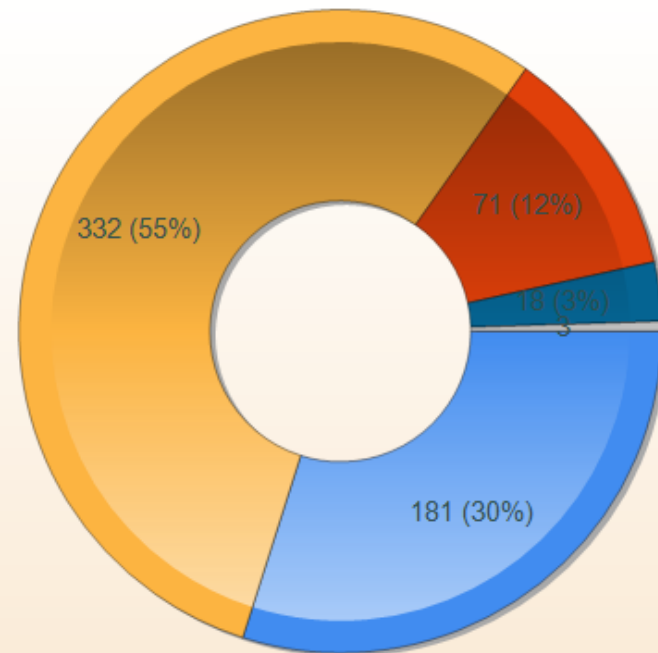
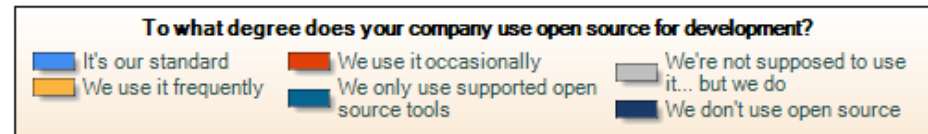
- “Developer” is the most common job role
- But a surprising number (21%) identify themselves as DevOps and Build Manager



Open Source Everywhere



- **85% of companies have open source as their standard or make frequent use of it**
- This number is not surprising, but it reinforces the premise that Jenkins' open source status won't inhibit its adoption





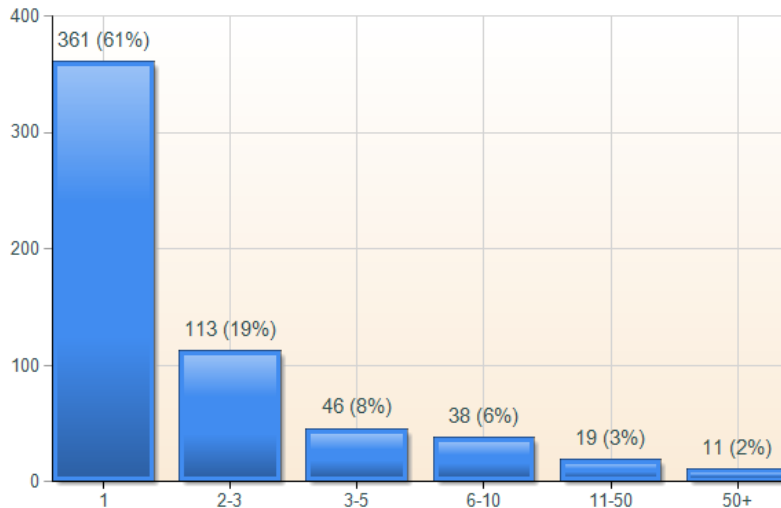
How Folks Use Jenkins

Typical Jenkins Deployments

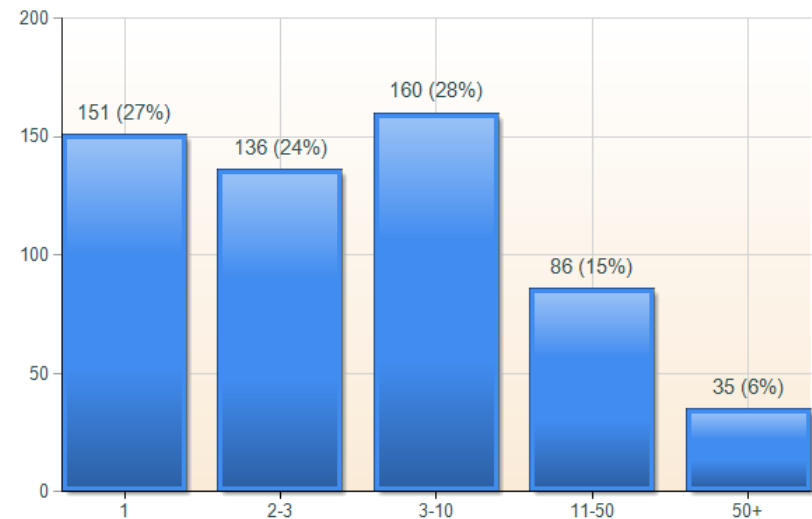


- **80% of respondents have 3 or fewer masters and 10 or fewer build agents**
 - 80% report 3 or fewer masters. 61% have only 1
 - 79% have 10 or fewer build agents

How many Jenkins installations are deployed in your organization? (In other words, how many Jenkins masters are deployed in your organization?)



How many computers are dedicated to running Jenkins builds in your organization? (In other words, how many Jenkins slaves / build agents does your company have?)

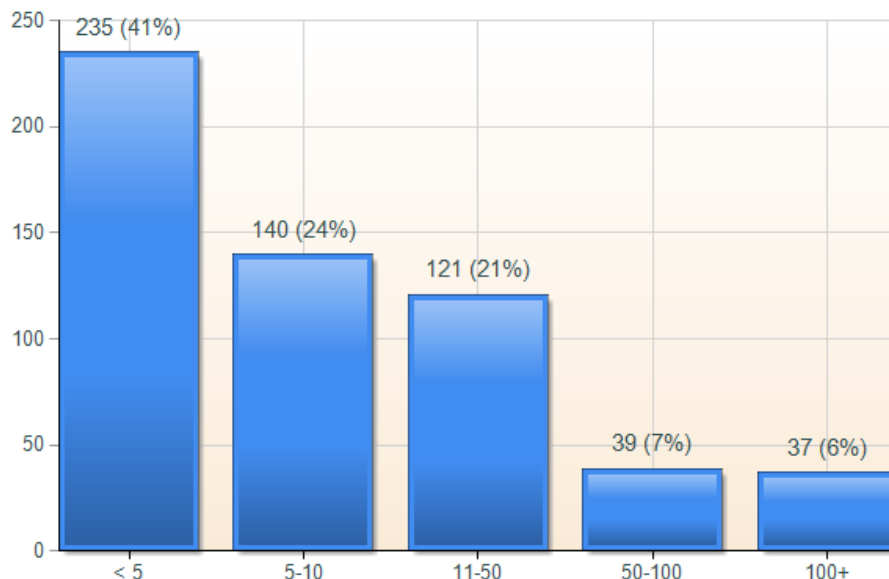


Typical Jenkins Deployments - 2



- 65% of companies have 10 or fewer executors
- 13% have 50 or more

How many builds can be executed on Jenkins across your organization at once? (In other words, how many Jenkins executors does your company have?)



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“...applying the continuous integration, continuous testing and continuous delivery (3C) will help IT maintain a healthy code base from cradle to grave.”

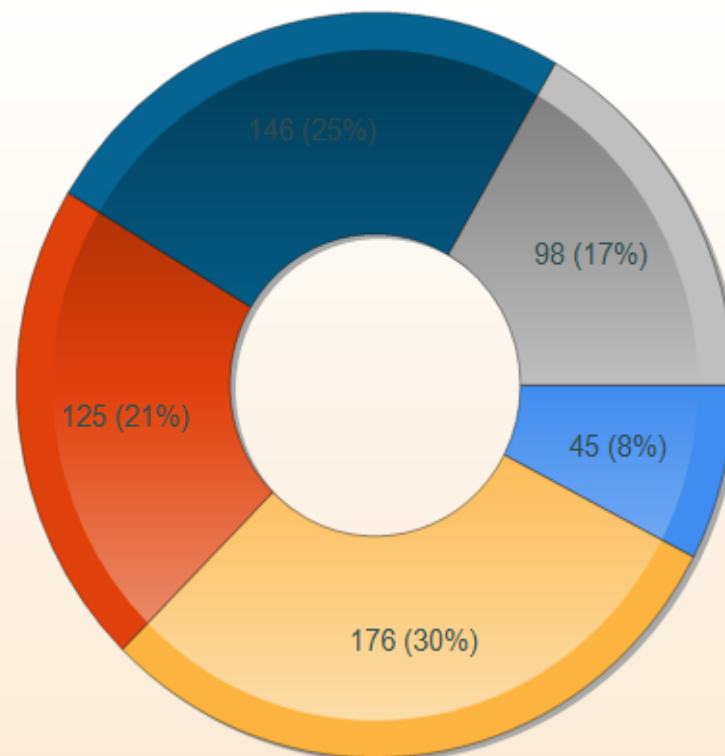
– David Norton and Mike Blechar,
Gartner
Enterprise-Class Agile Development Defined, March 2011

Typical Jenkins Deployments - 3



- **76% have between 2 and 50 projects**
- **Only 8% have 1 project**
- **17% use Jenkins on a very large scale (> 50 projects)**

Jenkins is useful for companies with any number of projects, but most companies use CI when they have more than 1 project going on (helps larger-scoped Dev projects)

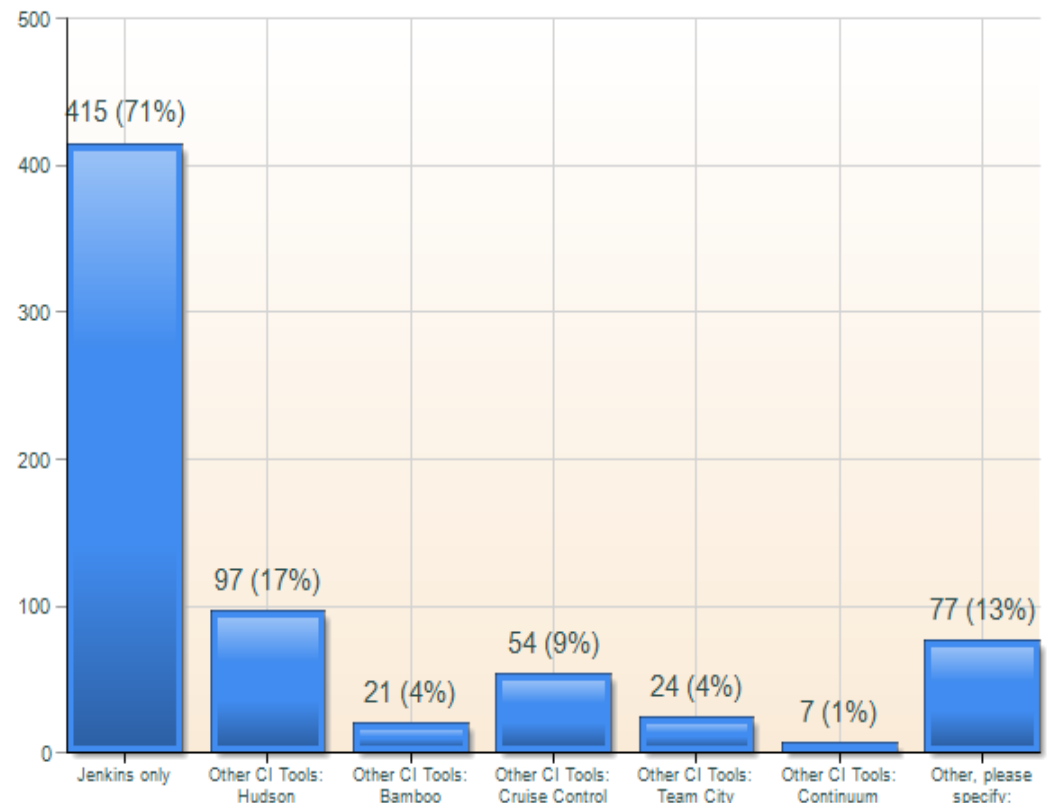


Other CI Tools in the Mix?



- **71% use Jenkins only**
- **17% also use Hudson**
- Other tools listed include BuildBot, BuildForge, Electric Commander, Team Foundation Server, Rational Team Concert, and Anthill
- People using Jenkins are happy with it and generally not trying other tools

Does your company use other Continuous Integration tools?



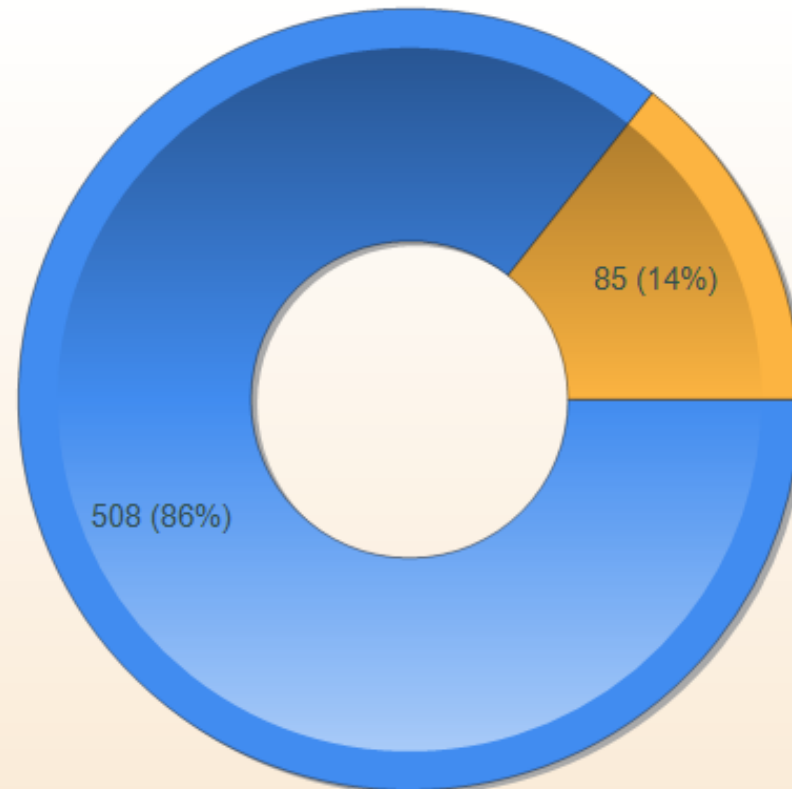
Resources and Training



- **86% think they have enough access to Jenkins resources to build solid knowledge**
- *But folks still want more. Survey had many requests for improved docs and more examples*

Do you feel you and your team have enough access to Jenkins resources to build solid knowledge on the platform?

Yes No



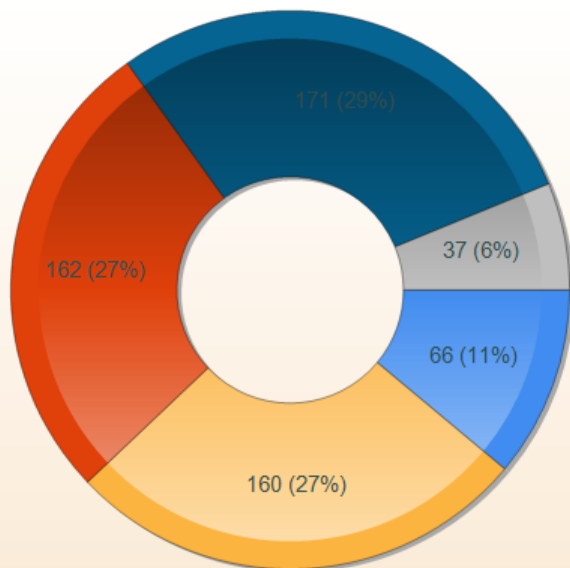
The Jenkins Support Team



- **Jenkins administrators are experienced technologists**
 - 62% have > 5 years of dev / IT experience
 - Only 11% have < 1 year
- **84% of companies have 5 or fewer folks supporting Jenkins**

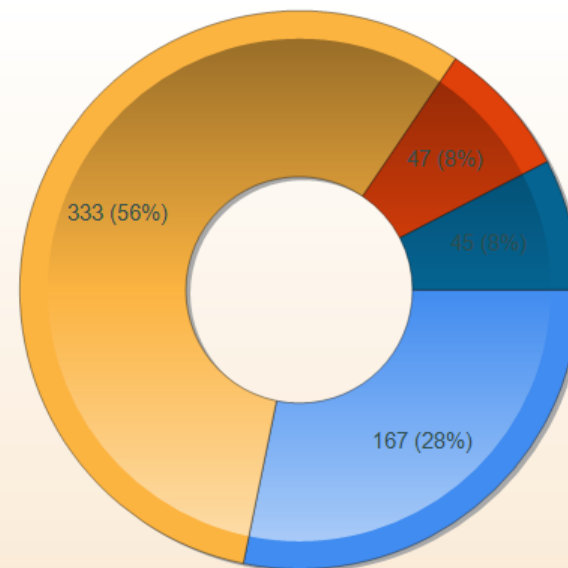
How many years of development / IT experience does your primary Jenkins administrator have?

< 1 2-5 6-10 10-19 20+



How many people support the Jenkins implementation in your organization?

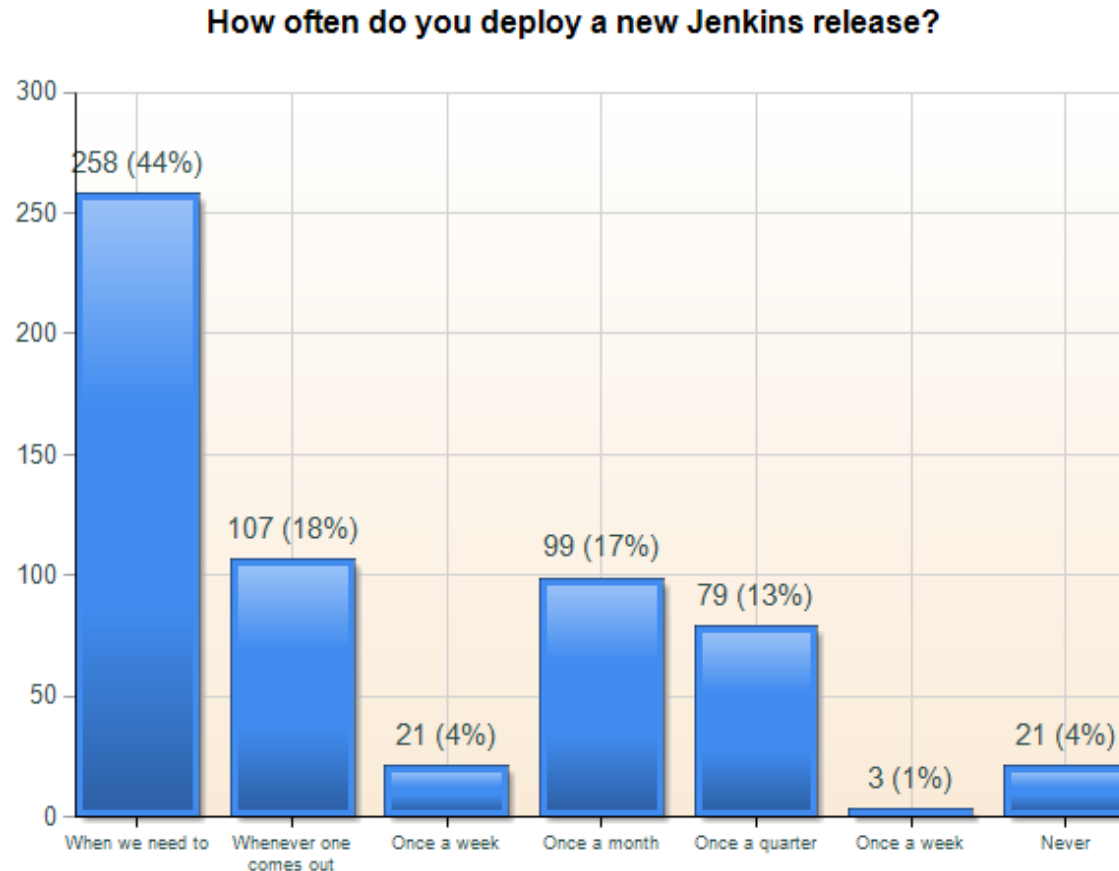
1 2-5 6-10 10+



Update Frequency



- Frequency of Jenkins updates varies widely
- Only about 1/3 do it on a scheduled basis



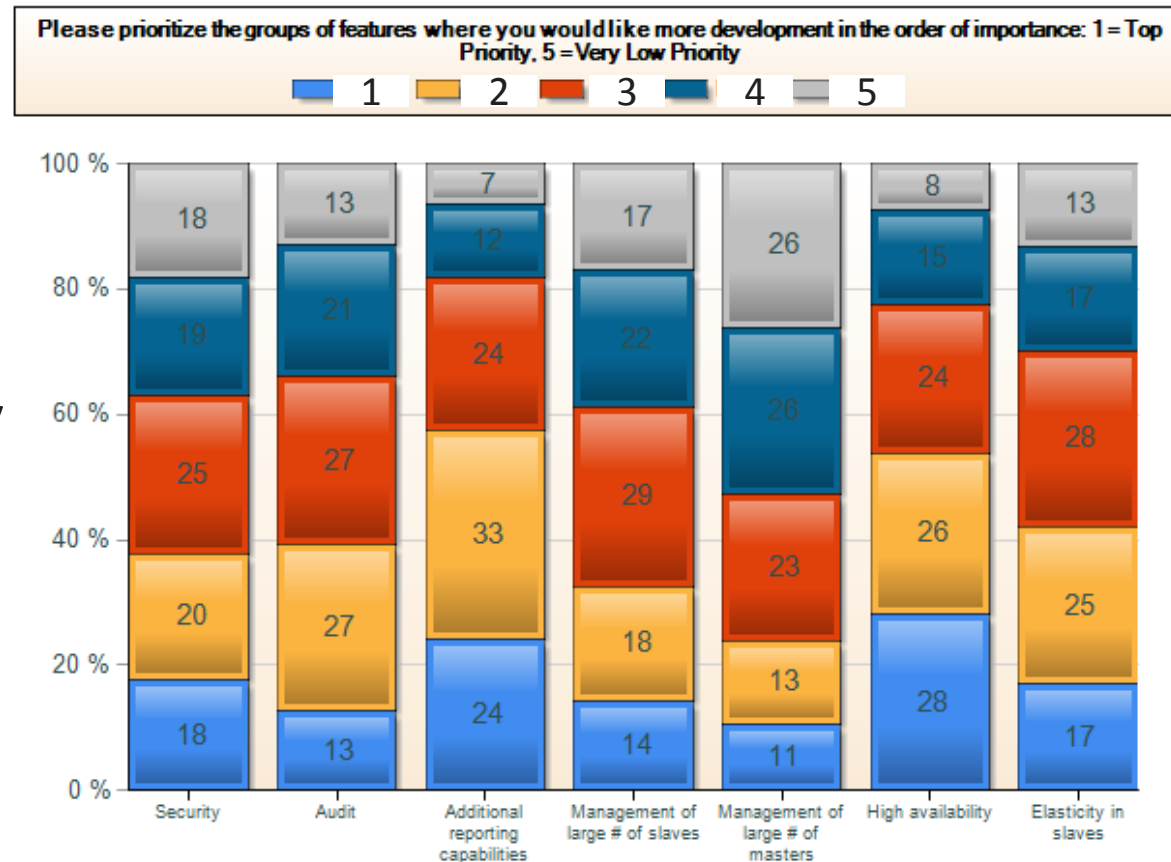


Improving Jenkins

Important Features



- **Additional reporting capabilities and high availability got the most interest**
- The rest of the features vary widely in importance to different users
- Surprisingly, Security and Management of large # of slaves didn't garner strong votes

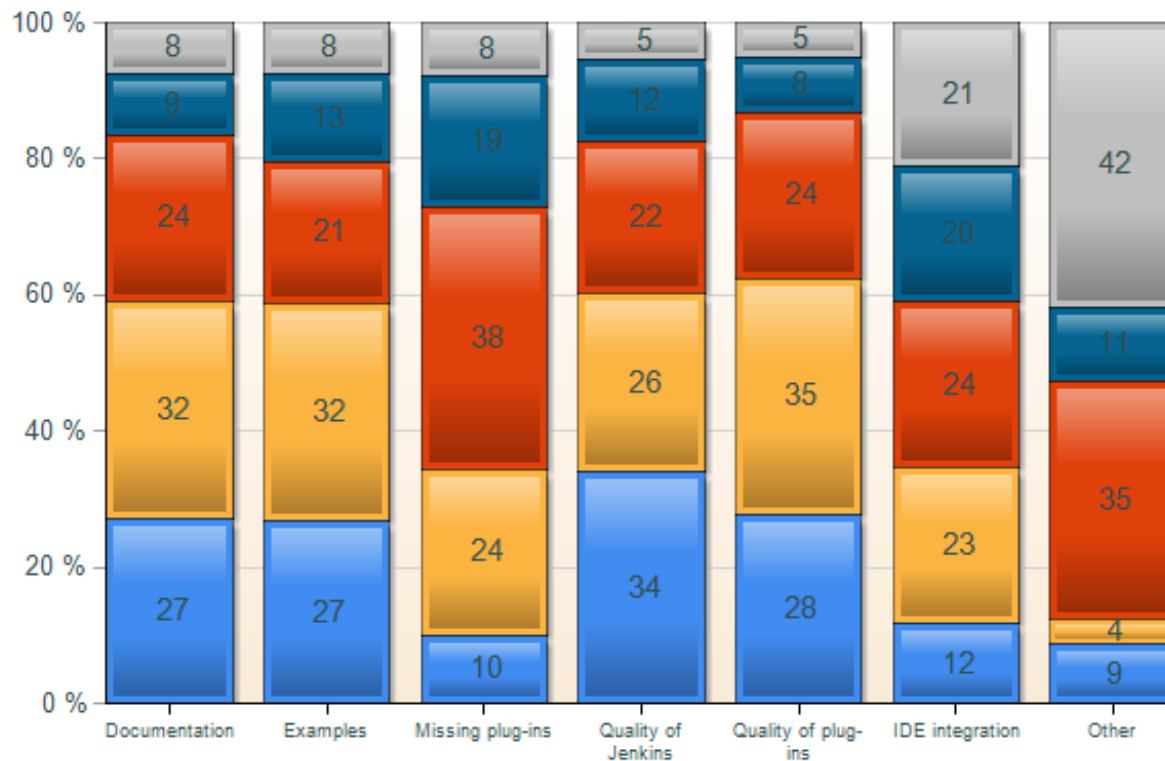


Making Jenkins Easier to Adopt



- Quality of Jenkins and Plug-ins are the most important factors in making Jenkins easier to adopt and strengthening its impact in companies
- Documentation and Examples are highly desirable as well

Please prioritize the items below in terms of making Jenkins easier to adopt and strengthening its impact in your organization or project 1 = Top Priority, 5 = Very Low Priority



Open Feedback



What do you feel is the most important plug-in or feature that can be added to the Jenkins community in the next six months?

- People had all sorts of different ideas with no consistent theme
- Some suggestions included:
 - UI improvements
 - Documentation
 - Templates
 - Enhanced reporting
 - Better Maven capabilities
 - Despite large number of plugins today, we need more that integrate Jenkins with other tools

If there's anything you'd change about Jenkins, what would it be?

- Here too, people had all sorts of different ideas with no consistent theme
- Some suggestions included:
 - UI improvements
 - Many folks said “Nothing” or some variant thereof
 - Stronger workflow support
 - Documentation / examples
 - Better plug-in development & use experiences
 - Ecosystems other than Java
 - Startup time
 - Quality – better quality releases, faster bug fixes
 - Plugin development in other languages – Ruby (now available!), Python, C#

Learn More



- Jenkins Resources
 - <http://jenkins-ci.org> – Home
 - <http://jenkins-ci.org/node> - Blog
- JUC Videos and Slides
<https://www.cloudbees.com/jenkins-user-conference-2011-session-abstracts.cb>
- Jenkins in the Cloud
 - <http://www.cloudbees.com/dev.cb>
- About *Jenkins Enterprise by CloudBees*
<http://www.cloudbees.com/jenkins-enterprise-by-cloudbees.cb>
 - Delivers long term support and enterprise plug-ins

Additional Conclusions



- **Jenkins community is very active**
 - ~85% have converged to Jenkins
(Source: Jenkins User Conference Keynote by Founder Kohsuke Kawaguchi)
<http://www.cloudbees.com/content/jenkins-community-newsletter-juc-presentations.cb>
 - Jenkins estimated 469 plugins (early December 2011)
(Source: Jenkins)
- **Jenkins is considered mission-critical by more than 4 out of 5 users**
- **Users are happy with Jenkins but would love to see improvements in UI, reporting, workflow and documentation**
- **CI in general – and Jenkins in particular – will continue to spread rapidly within organizations**