



Trends in DevOps, Continuous Delivery and Application Release Automation



Summary Results • May 2016

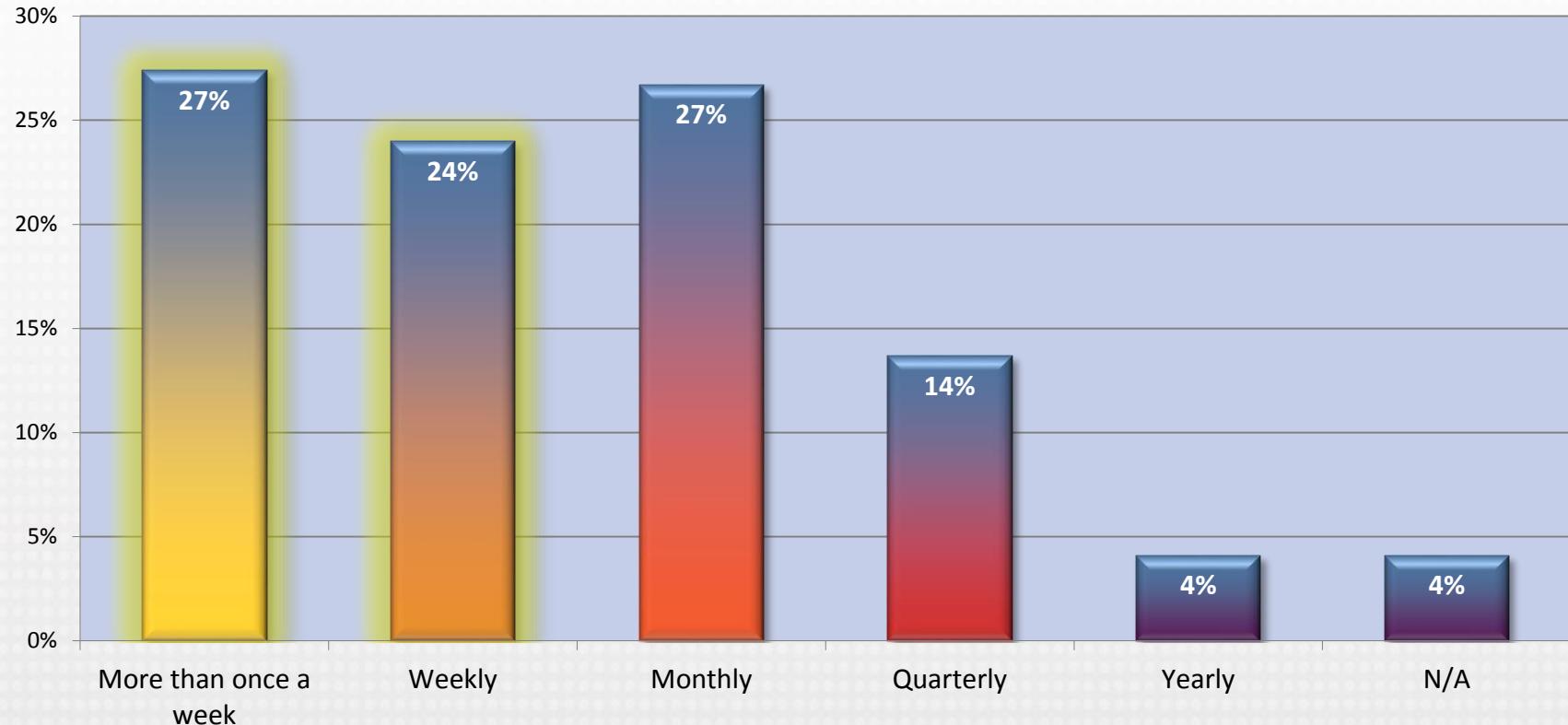
Program Overview

- Between February and March 2016, Gatepoint Research invited selected IT executives to participate in a survey themed ***Trends in DevOps, Continuous Delivery & Application Release Automation***.
- Candidates were invited via email and 146 executives have participated to date.
- Management levels represented are predominantly senior decision makers: 5% hold the title CxO, 8% are VPs, 60% are Directors, and 27% are Managers.
- Survey participants represent firms from a wide variety of industries financial services, business services, high tech manufacturing, telecom services, general manufacturing, wholesale trade , and media.
- 81% of survey responders work in Fortune 1000 companies with revenues over \$1.5 billion;
 - 9% work in Large firms whose revenues are between \$500 million and \$1.5 billion;
 - 10% work in Small to Mid-Market firms with less than \$250 million to \$500 million in revenues.
- 100% of responders participated voluntarily; none were engaged using telemarketing.

Observations and Conclusions

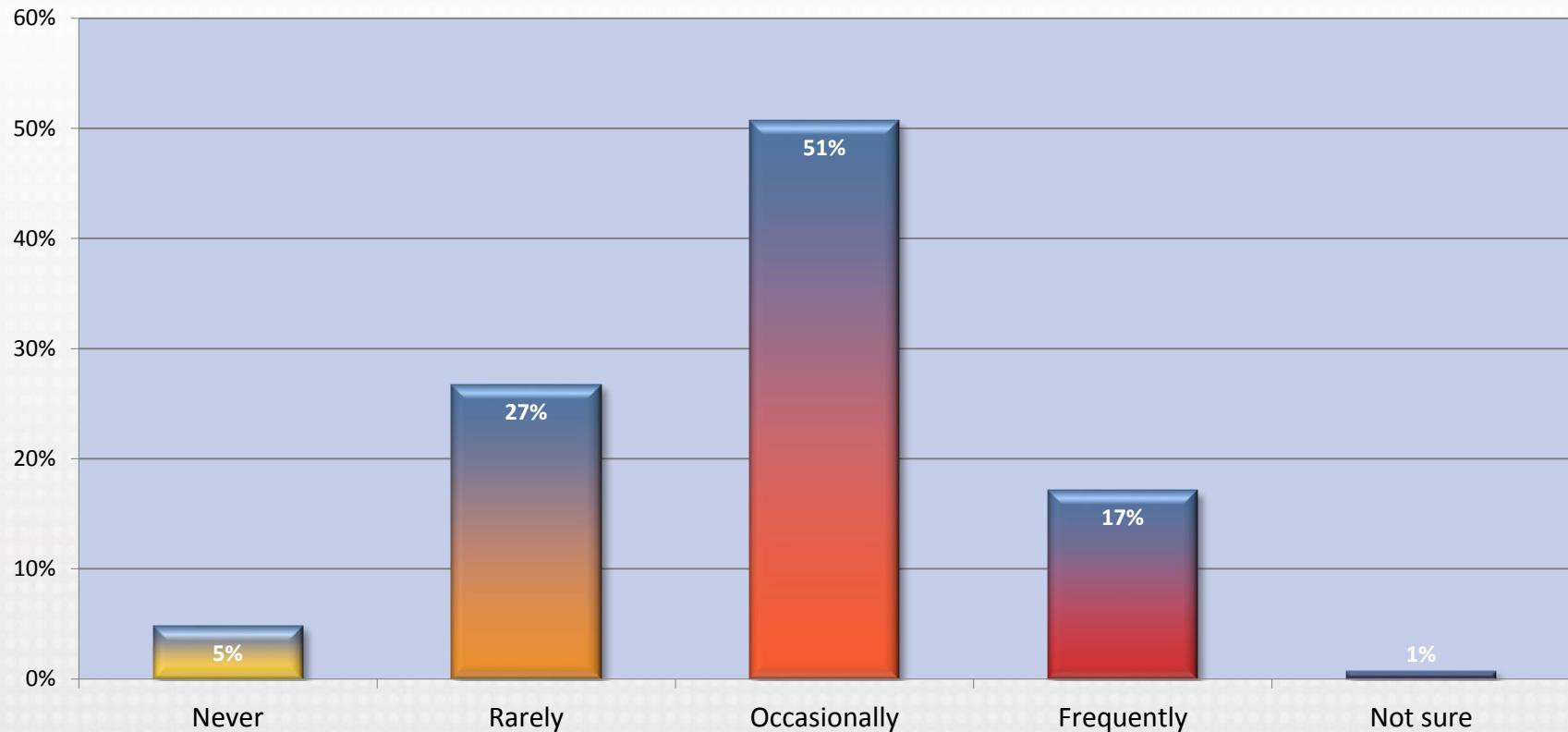
- **Production application releases are ongoing.** Over half of survey respondents (51%) report the frequency of their production application release schedule is weekly - or less. And they usually encounter challenges. 69% of respondents say they run into problems with production application releases occasionally to frequently.
- **Sticking points: complexity, environment differences.** Respondents encounter production problems when the process involves complex dependencies and workflows (61%) or when processes move from development to production (53%).
- **Missed release dates are fairly common.** Although 14% of those surveyed boast that they “never” miss release dates, 36% report missing them occasionally to frequently. **There’s a lack of deployment continuity.** Asked if development, QA, and production deployments are performed the same way, 37% of respondents said “No.”
- **Production deployment requests: not an automated process.** Only 12% of respondents report their handling of production deployment requests is automated. 17% of those surveyed say it is a manual process.
- **Release stabilization time is a wide window.** 27% of respondents claim that their application releases achieve production stability within minutes. But for the other 72%, production stability takes hours, days, weeks... even months.
- **Wish List: Reduce delivery time, increase quality, reduce errors.** Asked to rate the impact that improving various aspects of software development would have on their business, reducing change delivery time, increasing quality, and reducing errors virtually tie for first place
- **Big changes are coming soon.** Over 40% of those surveyed report they intend to implement initiatives in DevOps, Continuous Integration, and Deployment/App Release Automation within the next six months.

How often do you perform production application releases?



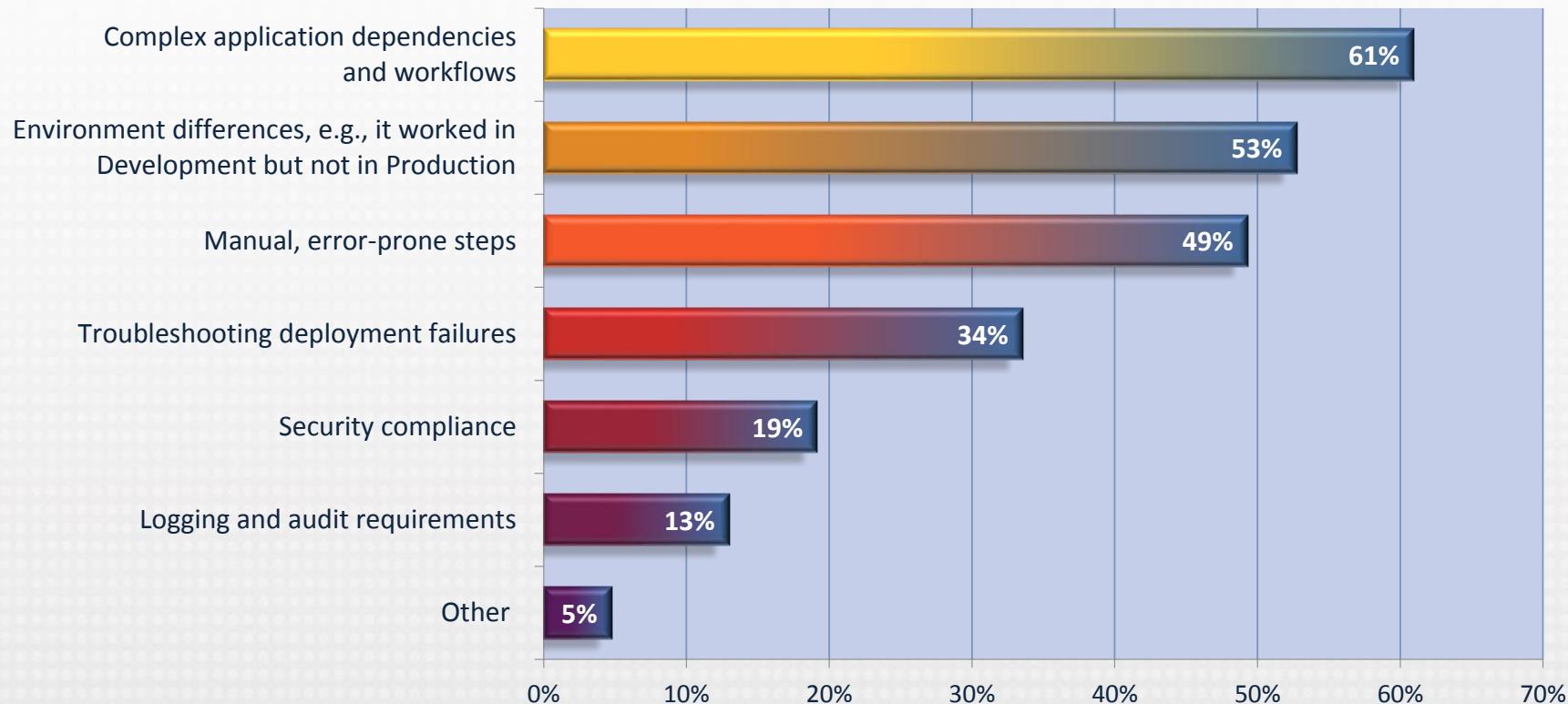
Production application releases are ongoing. Over half of survey respondents (51%) report the frequency of their production application release schedule is weekly - or less.

How often do you have challenges with production application releases?



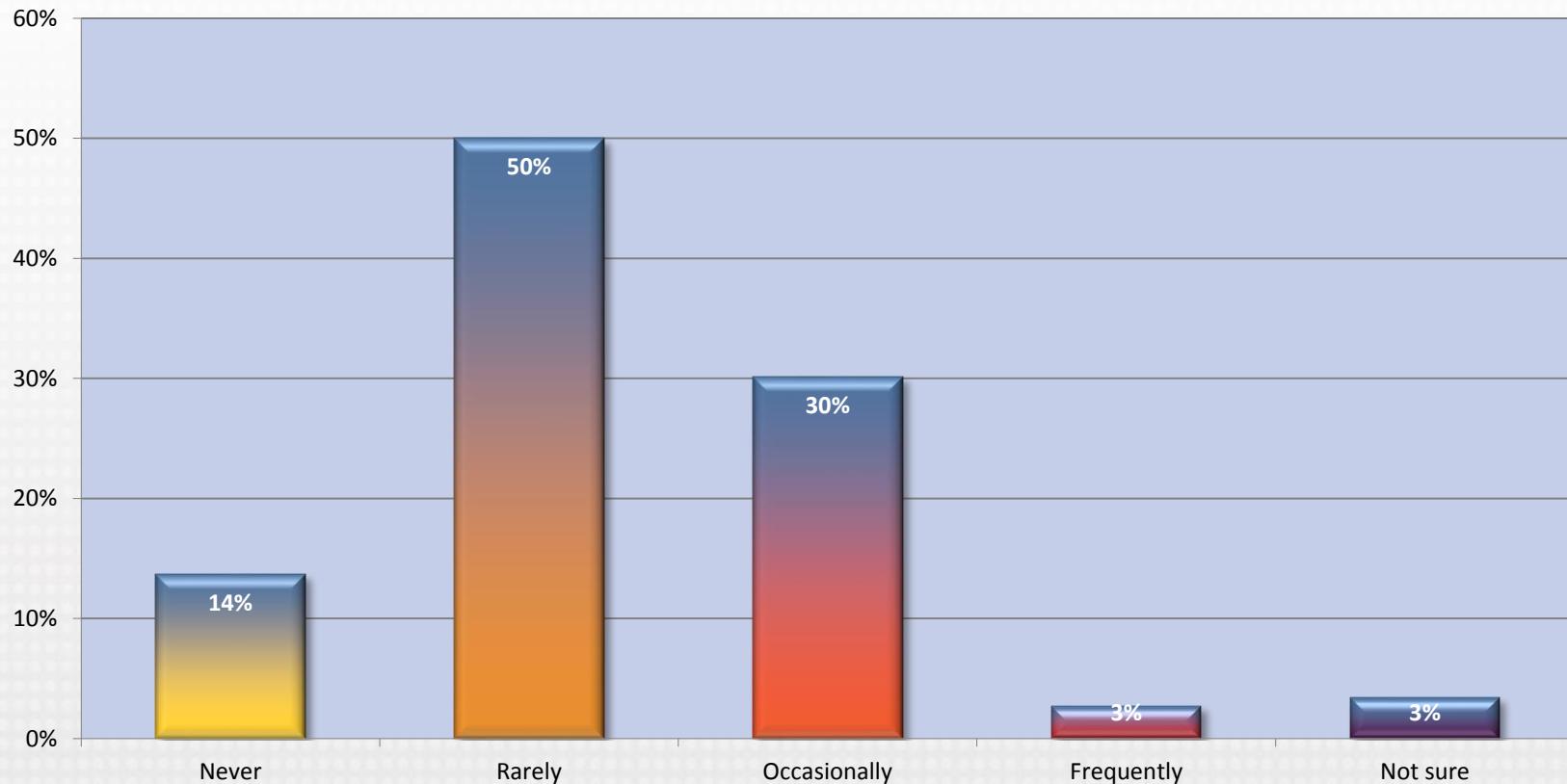
Production application releases usually encounter challenges. 69% of respondents say they run into problems with production application releases occasionally to frequently.

What are the top challenges with production application releases?



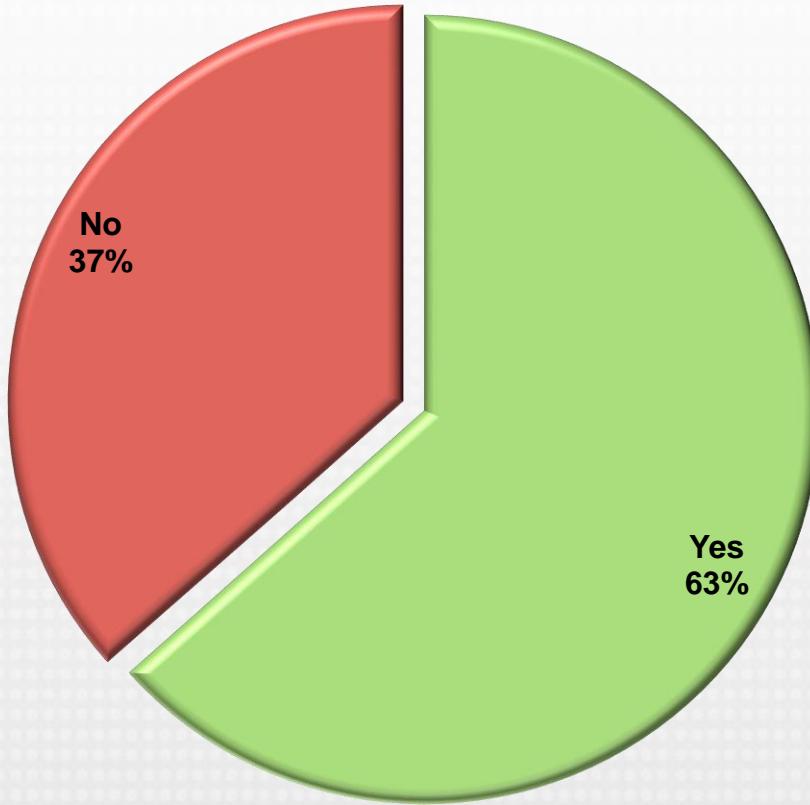
Sticking points: complexity, environment differences. Respondents encounter production problems when the process involves complex dependencies and workflows (61%) or when processes move from development to production (53%).

How often do you miss production application release dates?



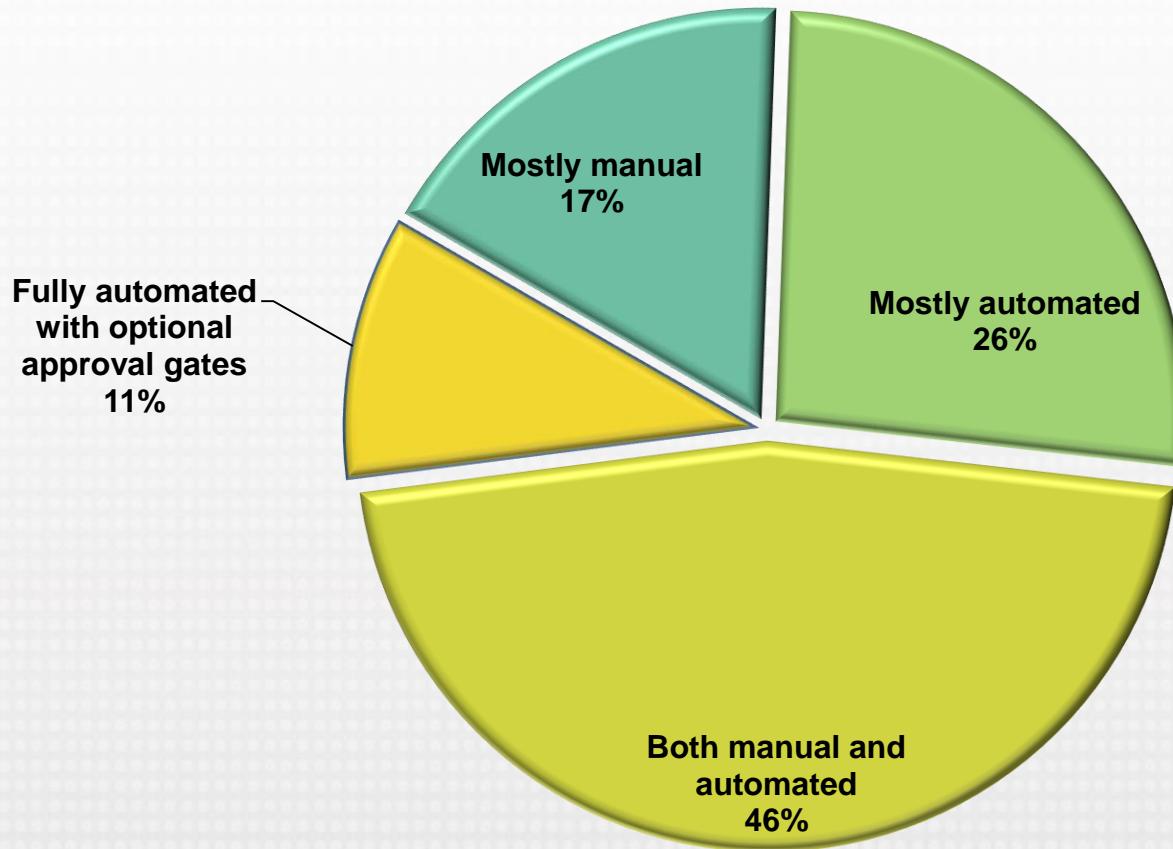
Missed release dates are fairly common. Although 14% of those surveyed boast that they “Never” miss release dates, 36% report missing them occasionally to frequently.

Are all of your deployments to development, quality assurance testing and production performed the same way?



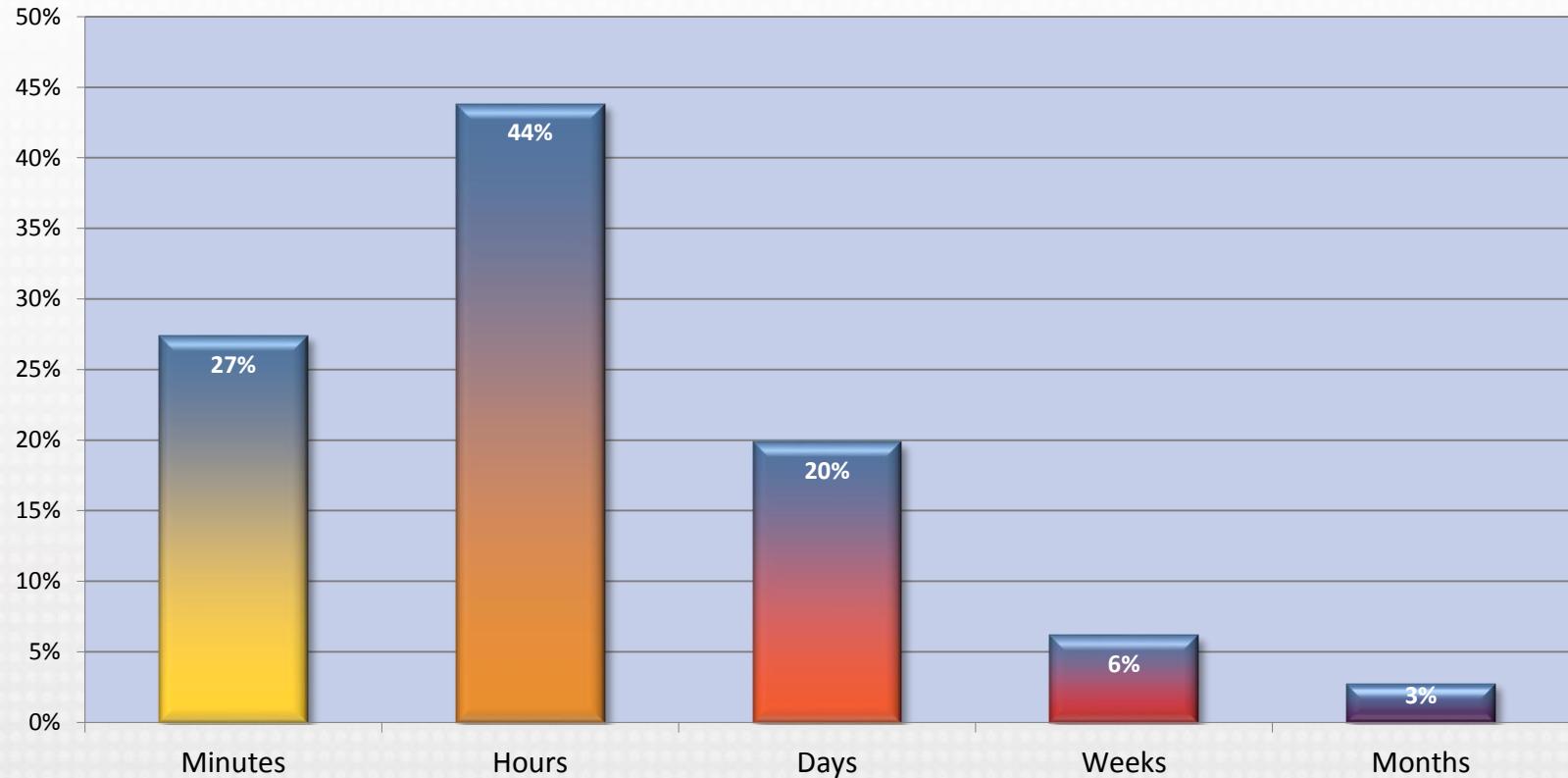
Lack of deployment continuity. Asked if development, QA, and production deployments are performed the same way, 37% of respondents said "No."

How are production deployment requests handled?



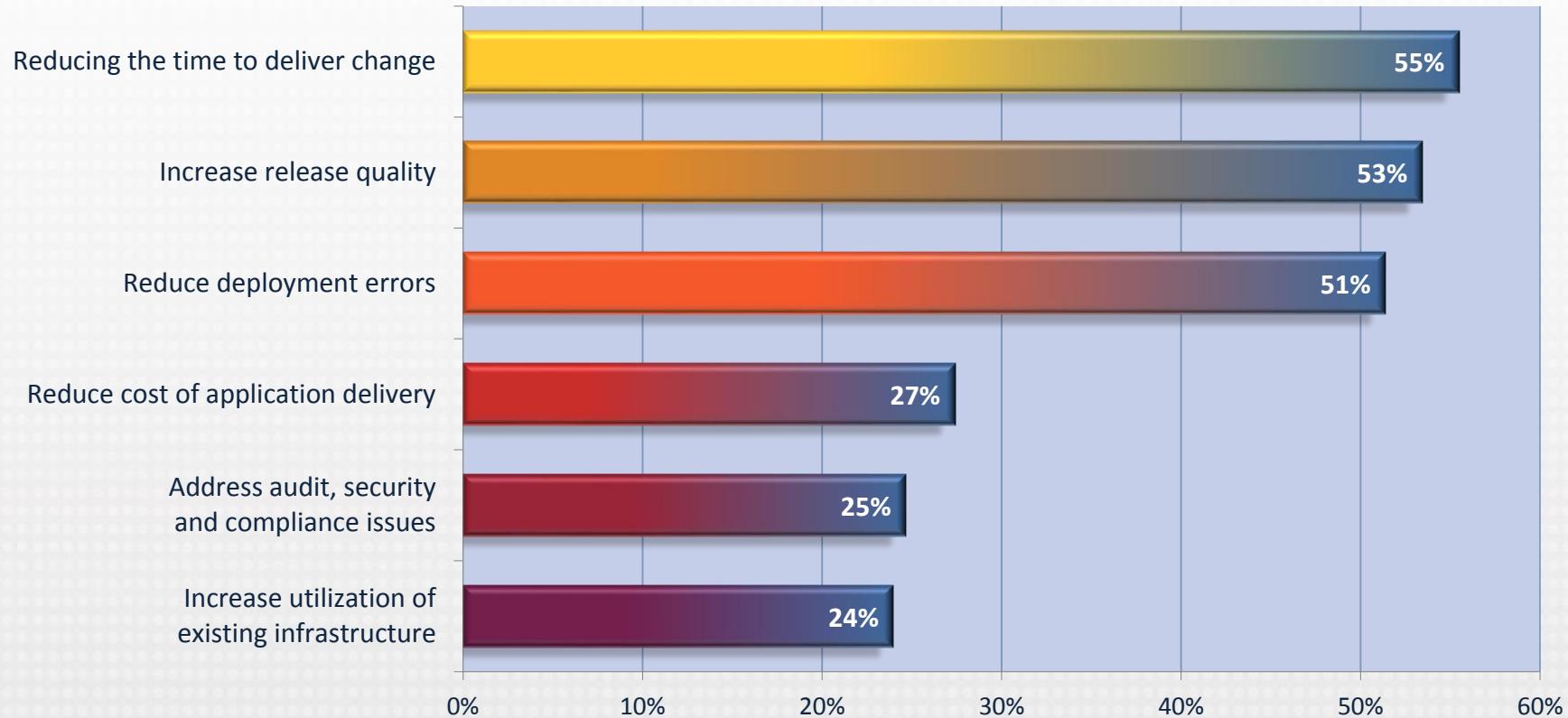
Production deployment requests: not an automated process. Only 11% of respondents report handling production deployment requests automatically. 17% of those surveyed say it is a totally manual process.

How long do releases generally take before they are stable in production?



Release stabilization is a wide window. 27% of respondents claim that their application releases achieve production stability within minutes. But for the other 72%, production stability takes hours, days, weeks... even months.

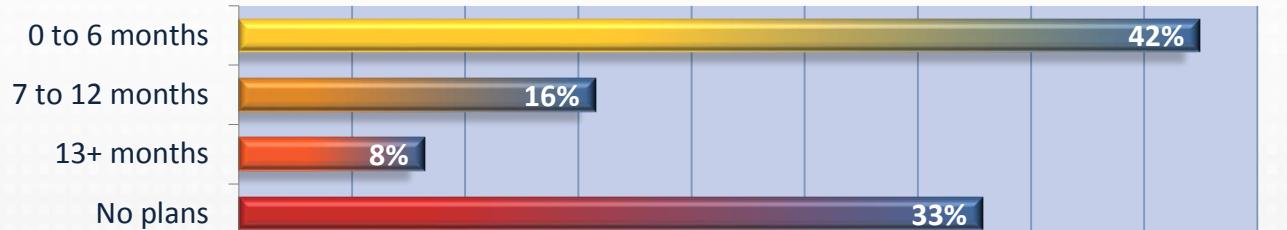
Which of the following software development aspects, if addressed, would have a significant impact to your business?



Wish List: Reduce delivery time, increase quality, reduce errors. Asked to rate the impact that improving various aspects of software development would have on their business, reducing change delivery time, increasing quality, and reducing errors virtually tie for first place.

Please indicate the time frame in which you plan to implement the following initiatives.

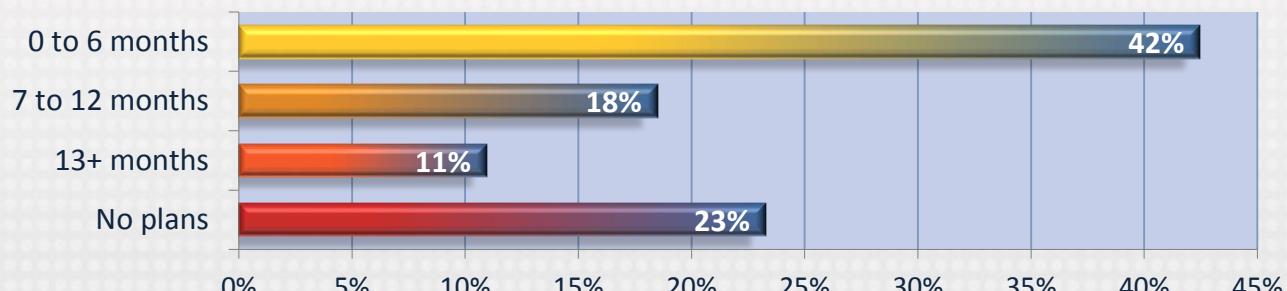
DevOps



Continuous Integration

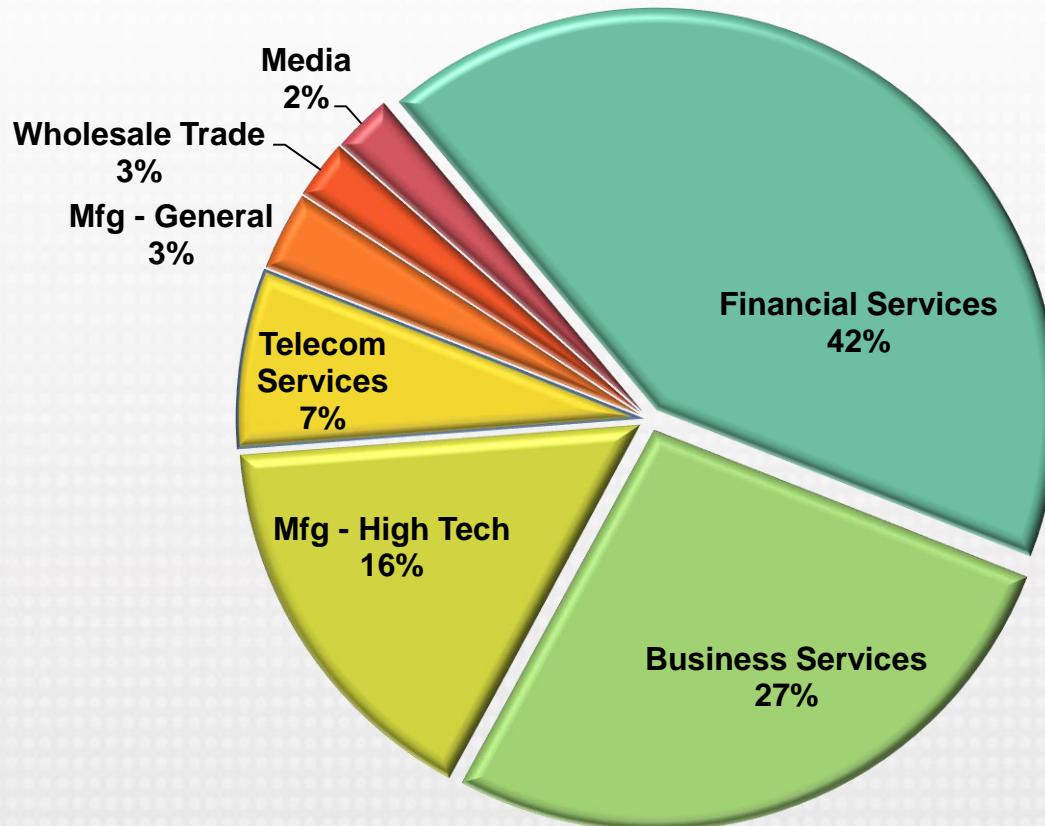


Deployment/Application Release Automation



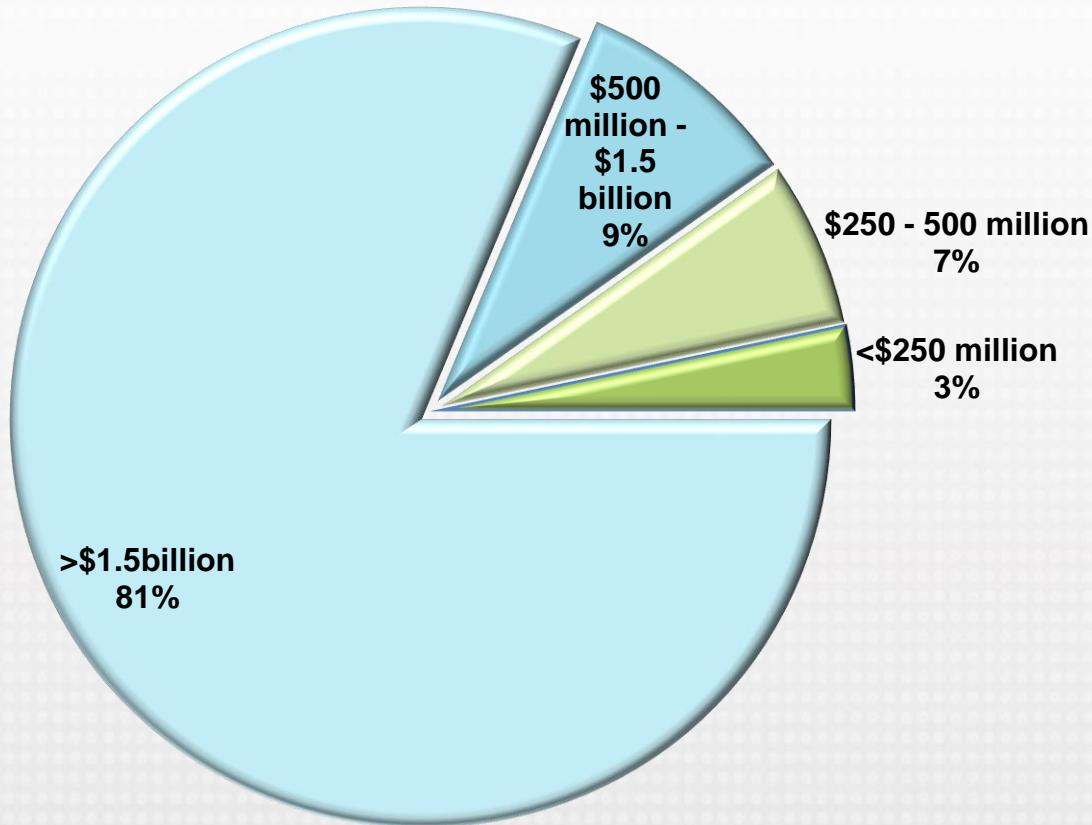
Big changes are coming soon. More than 40% of those surveyed report they intend to implement initiatives in DevOps, Continuous Integration, and Deployment/App Release Automation within the next six months.

Profile of Responders: Industry Sectors



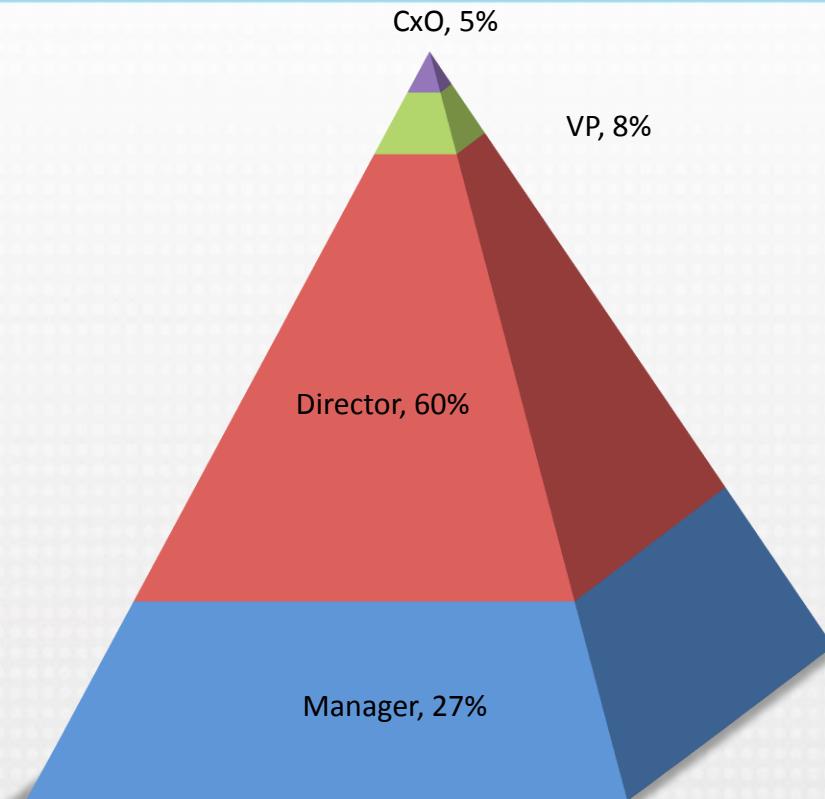
Responders work in a range of industry sectors.

Profile of Responders: Revenue



*81% of responders work in Fortune 1000 companies
with annual revenues over \$1.5 billion.*

Profile of Responders: Job Level



73% of responders hold executive level positions in their organizations.



Electric Cloud is the leader in DevOps Release Automation. We help organizations developing enterprise web/IT, mobile, and embedded systems applications deliver better software faster by automating and accelerating build, deployment, and release processes at scale. Leading organizations like Cisco, E*TRADE, Gap, GE, HP, Intel, Lockheed Martin, Sony and Qualcomm use Electric Cloud solutions and services to boost DevOps productivity and Agile throughput, while providing a scalable, auditable, predictable, and high-performance pathway to production.