



2016 State of DevOps Report

Presented by:



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The 2016 State of DevOps Report represents the fifth year of gathering information about the practices, tools and cultural characteristics of DevOps as it's practiced in the real world. Over that time, we've surveyed more than 25,000 professionals in IT, software development, quality control and management, located all over the world.

This year's findings confirm that improving the software delivery cycle at every stage can improve software quality, stability and business outcomes. We've also found that DevOps practices improve organizational culture and boost employee engagement.

Teams that have implemented DevOps practices perform the best, as measured by throughput and stability.



High-performing teams deploy more frequently and have much faster lead times.



200x more frequent deployments



2,555x shorter lead times

They make changes with fewer failures, and recover faster from failures.



3x lower change failure rate



24x faster recovery from failures



50% Less time spent remediating security issues

High-performing teams spend less time fixing security issues.

That's because they address security at every stage of the software development and delivery cycle, instead of retrofitting security at the end.

High-performing teams spend less time on unplanned work and rework than low-performing teams.

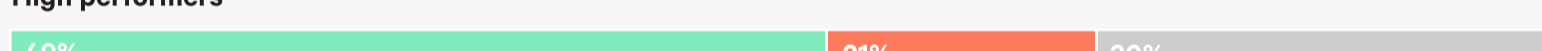
That means they can get more new work done. In fact, they spend 29 percent more time on new work than low-performing teams. Yet they're doing that without sacrificing quality or making their systems less secure.



22% Less time spent on unplanned work and rework

New work vs. unplanned work and rework

High performers

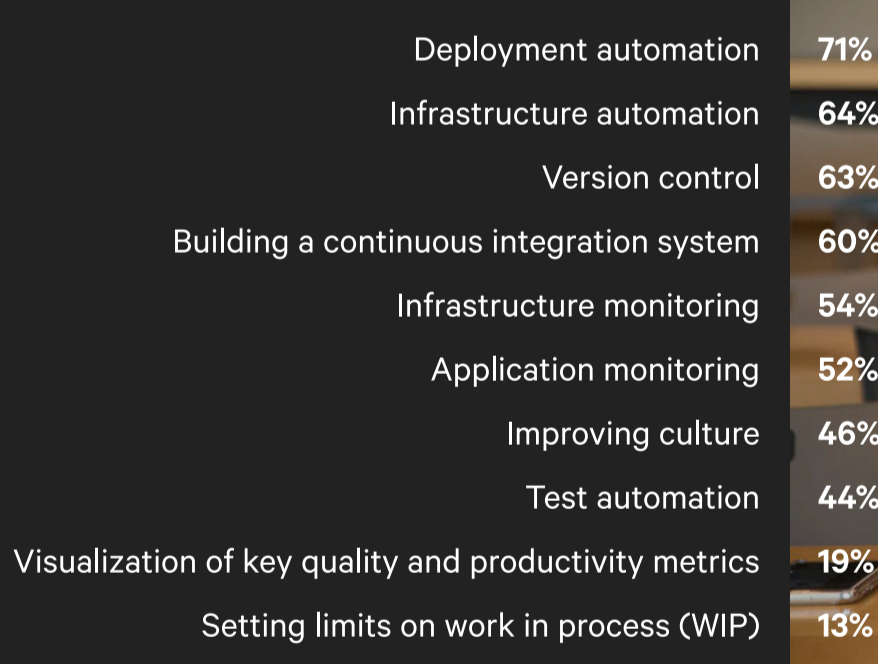


Low performers



Legend: New work (green), Unplanned work or rework (red), Other work (meetings, routine maintenance, etc.) (grey)

Most survey respondents who had already started on their DevOps journey began with deployment automation, infrastructure automation or version control — or all three.



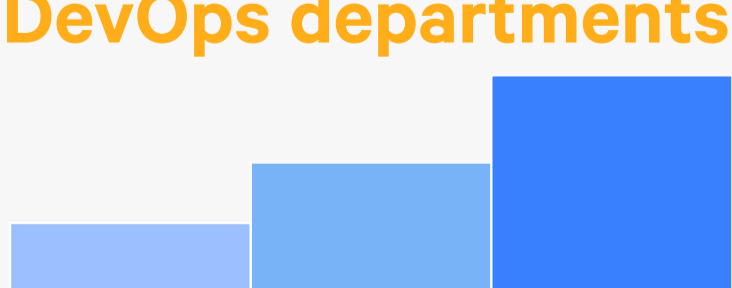
Employees in high-performing organizations are 2.2 times more likely to recommend their organization as a great place to work.

This demonstrates a much higher level of engagement — and as everyone knows, engaged employees are more productive and creative.

2.2x

More likely to recommend their organization to a friend.

DevOps departments



The percentage of survey respondents who work in a department called "DevOps" has grown steadily.

In 2016, this group is not much smaller than the number of respondents working in development/engineering departments.

DevOps creates more time for innovation.

Most organizations initially turn to DevOps to speed up release cycles and cut waste. But many tell us that DevOps has given their people more time to do innovative things that make a real difference.

What could you do with

10% more engineering time?



For a comprehensive look at the results of this year's survey, get the 2016 State of DevOps Report at puppet.com/devops-report-2016