

Techstrong Research

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Every business is looking for new ways to engage customers, prospects, employees and partners. This has led to leaders across organizations pushing for digital transformation – a software-driven approach to continuously satisfying increasing customer expectations. Increasingly business and IT leadership are looking for development and DevOps platforms that can incorporate more data and leverage machine learning to help teams measure success, create more predictable outcomes and allow developers to focus on creating great digital experiences.

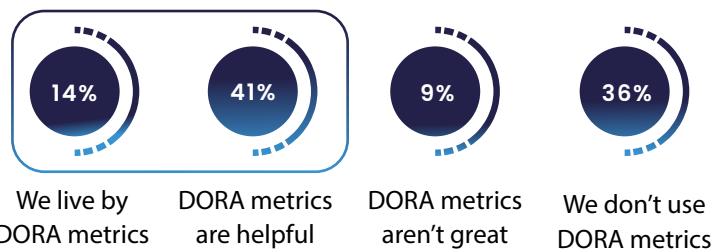
In March of 2022, our team conducted several flash polls among the Techstrong Group member community. Techstrong Group members include readers, influencers and contributors to our various communities focused on DevOps, cloud-native, security and digital transformation. The goal of these polls was to understand our members' evolving priorities around DevOps and digital transformation. Across all of the polls, we received more than 450 responses.

Data is Key to Understanding your DevOps environment

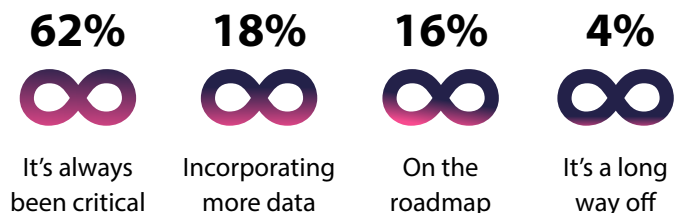
» If you don't have a way to measure your engineering team's efforts, it's nearly impossible to advance digital transformation efforts. In addition, understanding your baseline of data (i.e. what's normal) is necessary for powering machine learning (ML) and artificial intelligence (AI) efforts.



Do you use DORA metrics - Deployment Frequency (DF), lead time for changes (LT), Mean Time to Recovery (MTTR) and Change Failure Rate (CFR)?



Are analytics and the tracking of data becoming more important to your DevOps organization?

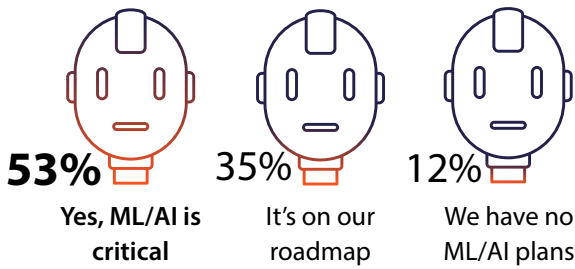




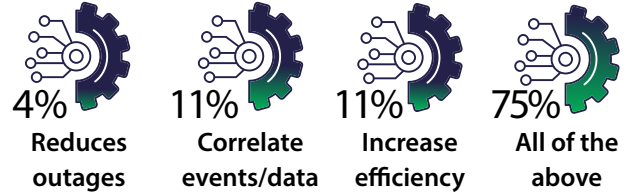
Machine Learning and Artificial Intelligence

» As application and infrastructure (both cloud, on-premises and hybrid/multi-cloud) become more complex, there is too much data for humans alone to draw meaningful conclusions from the signals.

» **Do you see the potential of incorporating machine learning (ML) and artificial intelligence (AI) into your software development and delivery processes?**



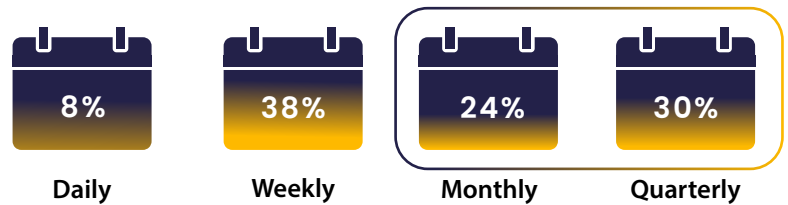
» **How do you think machine learning helps your DevOps processes?**



Feature releases continue to take time

» Although many organizations want to continually push new features whenever they become available, the reality is that the majority of respondents release new features either monthly or quarterly.

» **How often do you release new software features (not bug fixes)?**



Techstrong Research Analyst View

No business has a perfectly architected, homogeneous IT environment. The reality is that most organizations are balancing hybrid environments made up of multiple databases, clouds and development platforms. Building, maintaining and continually improving software in these complex ecosystems is difficult.

The data pouring in from various technology platforms is too much, too complex and coming too quickly for your engineering team to take proactive actions. Machine learning and AI give teams the ability to spot potential outages, vulnerabilities and misconfigurations before they impact customers. In addition, they allow engineering teams to focus on the items that will drive business differentiation and satisfy customer demands rather than working on the technology underpinnings.