



# Driving Adaptive Software Delivery for Digital Execution and Business Resilience

Dynamic responsiveness for competitive agility demands high-quality, rapid software releases, and overarching strategies for quality application delivery and management.

## Responding to Demand for High-Velocity Quality Application Releases

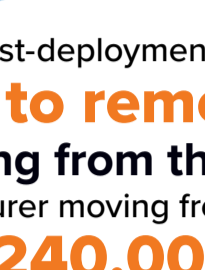


The need for high-quality applications to enable innovation and digital transformation has never been more vital across industries and governments worldwide.

### The Top 2 Software Development Priorities for Organizations



Value stream management

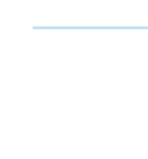


Progressive delivery, security, and testing



Problems found post-deployment **cost 200x more to remediate;** radical innovation evolving from the pandemic included a manufacturer moving from **40,000 to 240,000 remote employees in 1 week;** and a financial services provider shifting to remote transactions **for 400,000 users in 3 weeks** – fast disruption demands quality

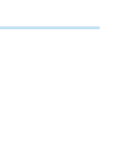
Software enables execution – top drivers for DevOps adoption include:



Rapid, higher quality, more consistent deployments



Improved business agility



IT/LOB collaboration



The vast majority of organizations **at 90.5%** are releasing software with lead-times of a month or less **(an increase of 26%);** the number of organizations releasing software weekly doubled in 2021

Source: U.S. Accelerated App Delivery Survey, January 2022, n=200

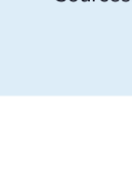
## Addressing Omnichannel Delivery and Organizational Challenges



Multiplicity of systems across myriad platforms for multi-modal deployment are complex and demand automation



Quality and delivery issues combine with dynamic need and rate of change – majority of organizations are adopting advanced software quality strategies such as continuous testing, AI adoption, behavior-driven dev



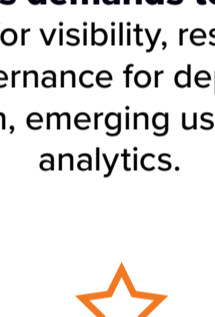
Plan for uncertainty and leverage agility (organizations creating new applications, repurposing existing apps)



Primary goal for majority of organizations over the next five years is product and service quality; lack of automation is a primary inhibitor for developer productivity

Sources: IDC Accelerated Application Delivery Survey, January 2022, n=200; and IDC PaaSView and the Developer, May 2022, n=2,500

## Creating DevOps with Continuous Test, Portfolio Management for Dynamic Software Delivery



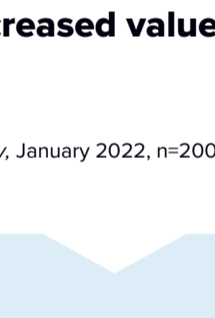
Shift quality left for rapid software releases – a core demand to cut costs, increase efficiency, enable execution



Agile DevOps demands testing speed, code analytics for visibility, resilience, security DevSecOps, governance for deployment, CR/CD, portfolio prioritization, emerging use of ML/AI with smart analytics.



Organizations are moving from product delivery to value delivery increasingly.



Delivery and quality benefits post-DevOps included increased deployments

every 3-4 weeks (from 40.5% to 50.5%),

every 1-2 weeks (from 14.5% to 28.5%),

and every 2-6 days (from 9.5% to 11.5%)

along with increased value-stream focus

Sources: IDC Accelerated Application Delivery Survey, January 2022, n=200; and PaaSView for the Developer, May 2021, n=2,500

## Managing Quality Across the Application Portfolio



Software with SAP (HANA) is business backbone, with other ERP and app inventory, including SOR; demands quality, integration, modernization



Must address dynamic data coordination, changing needs across portfolio – incorporate agile approaches, AI/ML and analytics to modernize business



Manage benefits of mainframe, leverage and test integrations that depend on SAP



Modernizing while dealing with “long tail” of heritage apps is formidable: majority of organizations cite legacy application integration as top bottleneck



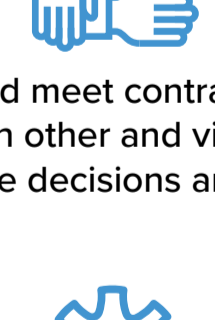
In 2022, 65% of legacy applications have been modernized, with a CAGR of 6% from 2021 to 2023 for modernization



To be competitive, organizations must invest in modernization

Sources: IDC US DevOps Survey of Enterprise Organizations, December 2019, n=102; and IDC PaaSView and the Developer, May 2022, n=2,500

## Coordinating Automated Tools for Execution



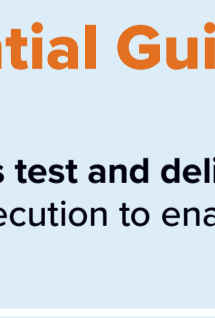
Most enterprises have myriad sets of tools across different groups; they must bring that data together for visibility and collaboration



Where systems don't talk to each other, enterprises must integrate and aggregate into a common dashboard to compare “like to like” for metrics, management



To collaborate adaptively (and meet contractual obligations), teams must share work and info with each other and virtualize with common pane of glass to enable decisions and governance



Organizations cite fractured tools as primary barrier to execute and lack of automation

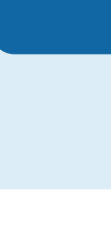
Source: IDC PaaSView and the Developer, May 2022, n=2,500

## Establishing an End-to-End Strategy for Quality, Dynamic Deployment and Modernization Across Application Portfolios

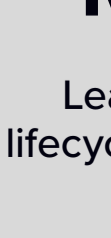
### Essential Guidance:



Create continuous test and delivery strategy for digital innovation and execution to enable business relevance via agile execution



Incorporate organizational and process change with appropriate automation strategies for success across the application portfolio



Analyze and align planning, value management and execution with executive buy-in and grassroots engagement



Begin to repay technical debt accrued by hasty execution in dynamic and volatile economic and competitive environment by evaluating what needs to be done and creating a plan to address it – remember to define “done”



IDC research validates that planning must enable agility and rapid adaption:



Use scenario planning and value stream management



Leverage models to evaluate impact



Prioritize by strategic relevance, risk mitigation, digital trust and reliability, and specific, qualitative business outcomes

Source: IDC PaaSView and the Developer, June 2022 n=2500

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