

6 trends shaping the future of software delivery in 2023

Business success relies on impactful customer experiences that scale

Software delivery is defining the winners in today's digital economy. Winning hinges on transforming everything, from planning through deployment—all at scale—with continuous alignment between the code you're creating and the customers who are using it.

Here's a look at six key trends shaping the future of software delivery, and how effective implementation across the development lifecycle can help continuously advance the customer experience and drive business outcomes.



1

Progressive delivery

47%

of developers use either continuous integration or deployment, but just 1 in 5 use both."



The tactics, tools, and hardware needed for effective progressive delivery—including CI, CD, and feature management—are evolving as companies look for ways to combine the approaches at scale.

Source: Continuous Delivery Foundation, State of Continuous Delivery Report 2021

2

Securing the software supply chain

51%

Supply chain attacks increased by 51% between July and December 2021."



Attacks like the one on SolarWinds were a wake-up call for organizations, shedding light on the need for evolving software supply chain security.

Source: NCC Group, Insight Space: Supply Chain Risk

3

Value Stream Management (VSM)

Software development is the biggest challenge and cost of digital innovation."



Companies now recognize the need for VSM, a systems-thinking practice to improve the flow of business operations to customer needs and value. Effectively implementing VSM, however, requires overarching tools that help streamline software development.

Source: IDC, Software Development Is Biggest Challenge, Cost of Digital Innovation, Doc #US47682921, May 2021

4

Modern software delivery

AIOps needs a superstructure of interoperability."



Along with automation and observability, AIOps is now a key component in modern software delivery. To make the most of these components, businesses need integrated DevOps superstructures that allow solutions to work in tandem.

Source: Forrester blog: AIOps Needs A Superstructure Of Interoperability", by Carlos Casanova, March 9, 2022.

5

People and culture

68%

of developers note communication and collaboration as key DevOps challenges, while 56% point to a lack of skills and knowledge."



Building a thriving DevOps culture has always been a hot topic, but the advent of remote work combined with the accelerated pace of digital transformation has permanently changed operations.

Source: IEEE Access, Critical Challenges to Adopt DevOps Culture in Software Organizations: A Systematic Review

6

Compliance in the age of transformation

90%

While 90% of organizations are in some phase of their journey toward DevSecOps, only 30% have begun implementation."



A secure and compliant software delivery lifecycle is the hallmark of digital transformation excellence, but it requires effective integration of DevSecOps.

Source: Cloud Security Alliance (CSA), Secure DevOps and Misconfigurations Survey Report

Transformation is about better—not just faster

Software delivery is evolving as organizations recognize the reality of customer expectations: End users expect software to work whenever and wherever, without complication. To stay competitive, businesses need holistic technologies and practices that empower them to keep building like the best as the delivery landscape continues to evolve.

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