

# CONTINUOUS INTEGRATION AND CONTINUOUS DELIVERY (CI/CD)

RESEARCH BYTE

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## INTRODUCTION

Continuous Integration and Continuous Delivery (CI/CD), the traditional heartland of DevOps, was the first tenet extended across deployment and into operations to break through the so-called "Wall Of Confusion." DevOps is now looking to scale beyond savvy teams and pilot projects, and reach across the enterprise; meanwhile, enterprise teams are maturing in parallel gaining increasingly powerful, intelligent platforms, and more comprehensive frameworks.

Is the result of Enterprise DevOps a meeting of minds or a clash of cultures? How are tools and processes evolving to meet the needs of larger, more complex organizations, or will the term 'Enterprise DevOps' be forever an oxymoron? The opportunities and challenges are both of how to scale, both in terms of tools and thinking: in the best case, organizations can become innovation-led and agile, delivering on digital transformation goals; sub-optimal results will lead to DevOps approaches becoming more expensive than planned, in the worst case, failing to deliver ROI at a level that makes DevOps worthwhile.

Against this background, this report looks into how DevOps toolchains are evolving and how enterprise teams can deliver on the combined goals of DevOps efficiency, enterprise governance, and effective delivery of business-facing value.

## REPORT TOPICS

- **The current state of CI/CD**
  - Assuring effective delivery of software within the DevOps cycle
  - Contextual changes, trends, and drivers impacting CI/CD
- **Process and strategy considerations**
  - Defining a strategy for CI/CD within the context of DevOps
  - Organizational maturity and scope of CI/CD
- **Tooling and framework considerations**
  - The roles of automation and integration in forward-facing CI/CD
  - Management and governance needs and developments

## QUESTIONS ANSWERED

- How can CI/CD be positioned in the broader context of enterprise DevOps?
- What needs to be prioritized first, and how can existing capabilities be built upon?
- How to bring existing (legacy) systems and databases into a CI/CD workflow?
- What roles need to be in place to maximize benefits?
- What tooling and infrastructure are needed to deliver the most effective platform?



### JON COLLINS

Jon is a **seasoned analyst and technology commentator**. With 28 years' background in the technology industry, Jon has a deep understanding of global infrastructures, architectures, security and governance, as well as hands-on experience of delivery in a variety of sectors. Jon is author of a Security Architect book for the British Computer Society and co-author of The Technology Garden, which offers jargon-free advice on sustainable IT delivery. He has written numerous papers and guides about getting the most out of technology, and is an accomplished speaker, facilitator and presenter.

In Jon's varied career he has acted as **IT manager and software consultant, project manager, training manager, IT security expert and industry analyst**. In recognition of his insightful, yet down-to-earth approach, Jon was named European analyst of the year by the Institute of Industry Analyst Relations in 2009.



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