

# DEVSECOPS, SHIFTING SECURITY TO THE LEFT TO PROTECT THE ENTERPRISE

RESEARCH BYTE

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## INTRODUCTION

While security has long been the poor nephew of innovation, evolving and maturing DevOps seeks to incorporate security across the application development lifecycle to ensure data and services are protected against attack. To be effective, organizations need to take into account the fast-moving nature of continuous innovation, and a rapidly evolving and fragmented threat landscape.

Without solid cybersecurity practices and tools, organizations are opening themselves up to risk, which can manifest itself in terms of costs of resolution and unexpected downtime, as well as potential reputation damage and loss of business. Budget holders no longer have to prioritize short-term delivery goals over longer-term risk.

This report sets out the thinking behind DevSecOps, which quite literally inserts security into the DevOps cycle, and explains how to mitigate risks, protect data and privacy, and remain compliant, without losing the ability to innovate and scale new software solutions. While it covers available tools and frameworks, most of all this report sets out a strategy to ensure that security is treated by design.

## REPORT TOPICS

### ● Drivers and Trends pushing DevSecOps

- Security impact on innovation
- DevSecOps as a symptom of DevOps maturity
- Constraints and bottlenecks, technical and skills-related
- Process and strategy considerations
- What needs to be in place strategically
- Impact on roles and responsibilities
- Tooling and framework considerations
- Tools options across the DevOps lifecycle
- The importance of management visibility and dashboards

## QUESTIONS ANSWERED

- Why isn't security being treated as a first-class citizen?
- How to change strategic thinking to deliver security by design
- What tooling and infrastructure are required to support DevSecOps?
- How to deliver an effective DevSecOps-based innovation environment
- Where are the low-hanging fruit, and what needs to be prioritized first?



### 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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