

Infrastructure-as-Code's Dark Side

Cloud computing is becoming the engine powering modern business. It's also happening fast, with Infrastructure as a Service (IaaS) reaching \$80 billion and 17.1% compounded annual growth by 2022¹.

However, organizations struggle to understand and navigate this new and fast changing terrain. One technology that is critical for consuming public cloud services at scale is Infrastructure-as-a-Code (IaC).

INFRASTRUCTURE-AS-CODE BY THE NUMBERS

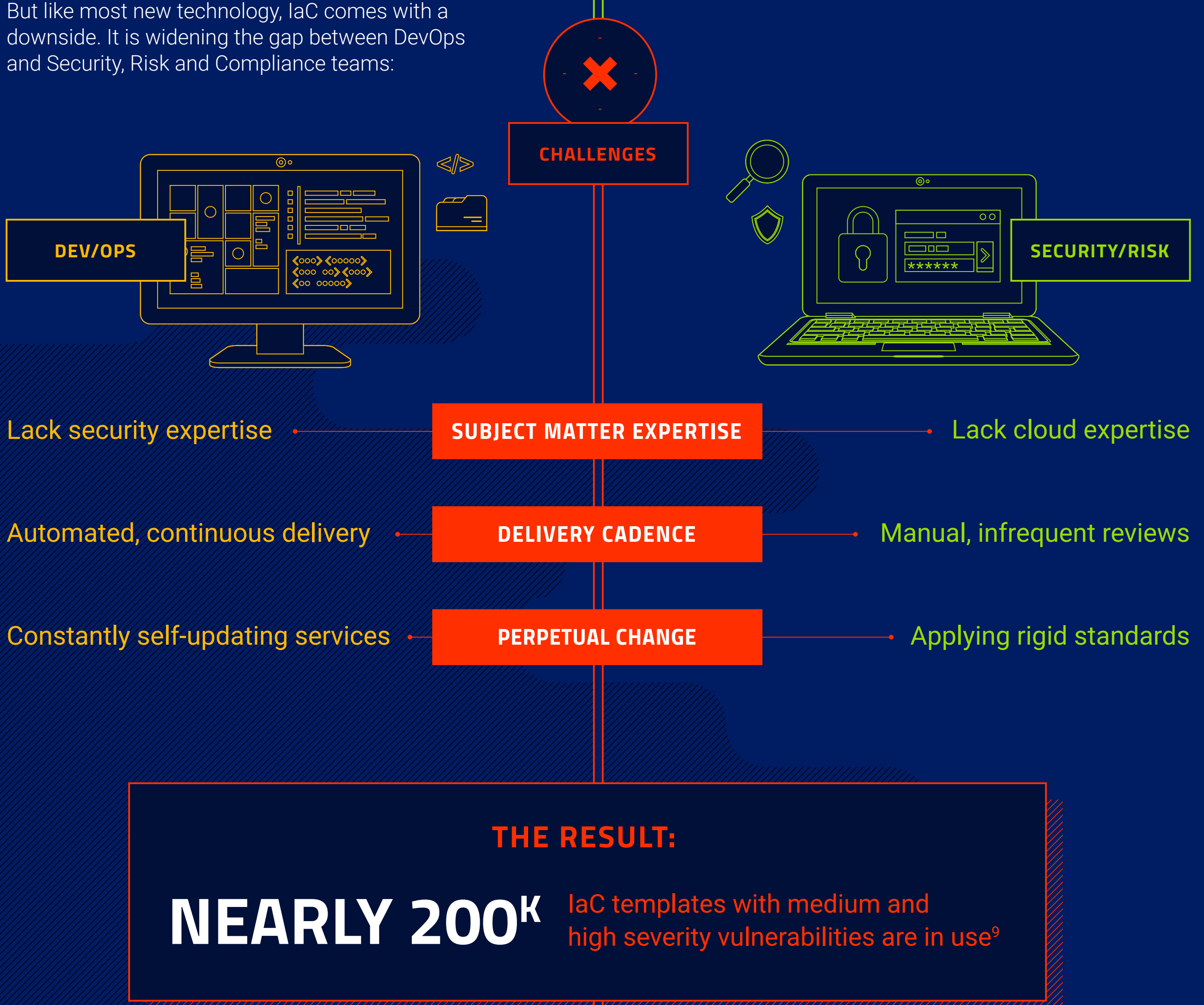
138 M public code repos^{2,3,4}

11% of public repo code is IaC⁵

29% of IaC changes monthly⁵

INFRASTRUCTURE-AS-CODE CHALLENGES

But like most new technology, IaC comes with a downside. It is widening the gap between DevOps and Security, Risk and Compliance teams:



INFRASTRUCTURE-AS-CODE UNINTENDED CONSEQUENCES

Rarely checked, the unintended risks created by IaC can have catastrophic business consequences.

IDENTITY & ACCESS MANAGEMENT (IAM)

91% of organizations have overprivileged Identity and Access Management roles⁶

Default credentials, excessive rights and privileges, disabled MFA, toxic access combinations

DATA SECURITY

65% of organizations have storage services without encryption turned on⁶

Unencrypted storage services and DBs, plaintext secrets

SECURITY HYGIENE

99% of misconfigurations go unnoticed by companies using IaaS⁷

Public storage buckets, hardcoded secrets, disabled logs, untagged resources

CLOUD NETWORKING

35% of organizations expose web servers and other workloads directly to the internet⁸

Security group ingress/egress, open ports, DBs accessible from the internet, unused security groups

Concourse Labs enables security and risk teams to continuously control IaC risk, before and after deployment, while freeing developers to innovate at the speed and scale of the public cloud. [Learn how](#)

SOURCES

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