

Platform Engineering Drives DevSecOps and Software Supply Chain Security

Enabling Developer Productivity and Streamlined Security Adoption



Jim Mercer
Program Vice President,
Software Development,
DevOps & DevSecOps, IDC

Most Software Development Is Inadequately Protected

DevSecOps maturity is not keeping up with modern software release frequency.



33% of organizations release new code daily or on demand



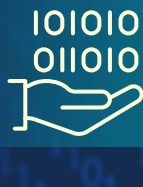
Only **41%** of applications used DevSecOps — adoption is lagging

Most DevSecOps efforts are immature:



24%

of organizations scan code before production.



40%

scan monthly.



26%

scan weekly.



28%

identified security as a top bottleneck in the DevOps pipeline.



84%

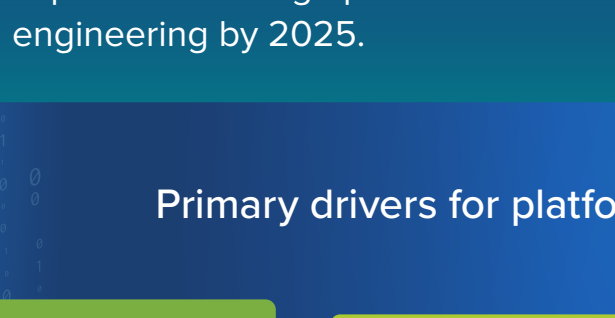
acknowledge that developer acceptance of security tooling is critical.

Source: IDC's DevOps Survey, November 2023

The Value of Platform Engineering

Platform engineering drives improved security, productivity, and DevOps standardization.

IDC predicts that:



60% of organizations will scale DevOps capabilities through platform engineering by 2025.

Platform engineering roles will grow from

2.5 million

to

4.1 million

by 2027, with a CAGR of 10.1%.

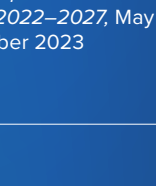
Primary drivers for platform engineering are to improve:



Developer productivity
29%



DevOps velocity
28%



Security and compliance across the organization
21%

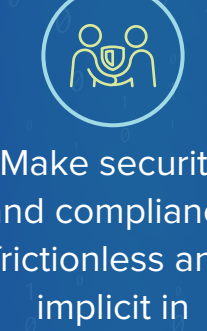


Developer experience
20%

Sources: IDC FutureScape: Worldwide Developer and DevOps 2023 Predictions, October 2022; IDC Worldwide xOps Census and Forecast, 2022–2027, May 2023; IDC's DevOps Survey, November 2023

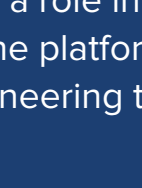
Software Delivery Is Intrinsically Secure

Platform engineering facilitates the adoption of DevSecOps and creates a secure software supply chain for application delivery.

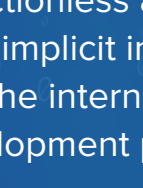


Security and compliance are key capabilities provided by platform engineering.

To enhance DevSecOps adoption using platform engineering:



Ensure that security plays a role in the platform engineering team.



Make security and compliance frictionless and implicit in the internal development portal.



Treat the developer platform as a product.



Use a portal to provide self-service automation to developers.



Create golden paths to ensure safe and secure releases at scale.

Source: IDC's DevOps Survey, November 2023

Strategic Business Benefits of Platform Engineering

Platform engineering ensures business resilience by:



- **Enabling standardization** of security policies, protocols, and configurations
- **Creating golden paths** to ensure safe and secure releases at scale
- **Reducing the complexity of integrating AI/ML** into the software delivery life cycle (SDLC)
- **Enhancing application security**, extending into production runtime
- **Averting costly outages**
- **Improving service reliability and availability** Amean time to detect/mean time to repair
- **Empowering site reliability engineering teams** to address potential production issues preemptively

Top Capabilities Are Security and Compliance Guardrails

What capabilities does platform engineering provide to support software development at your organization?



38%

security and compliance guardrails



31%

application observability



37%

DevOps pipelines/workflow



30%

cloud cost management



31%

developer tooling (IDE, build tools, source code management, etc.)



29%

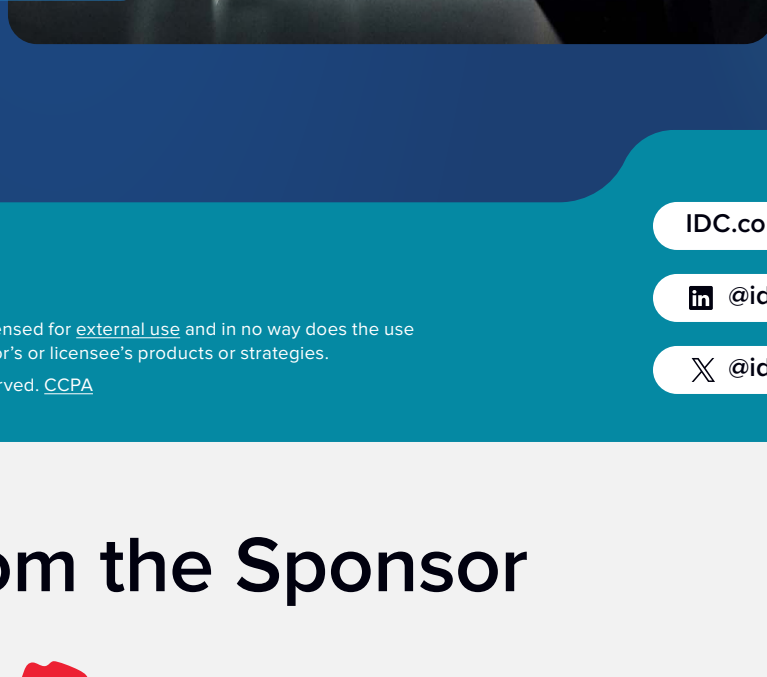
internal developer portal

Source: IDC's DevOps Survey, November 2023

Optimize Software Development with Platform Engineering

Use platform engineering to improve security, developer productivity, business efficiency, and agility.

- ✓ Streamline DevSecOps adoption.
- ✓ Fortify the software supply chain.
- ✓ Drive cultural change and collaboration.
- ✓ Bolster developer efficiency.
- ✓ Enhance business value.



IDC.com

@idc

@idc

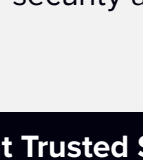
Produced by: IDC Custom Solutions

IDC #US52312724

IDC Custom Solutions produced this publication. This IDC material is licensed for external use and in no way does the use or publication of IDC research indicate IDC's endorsement of the sponsor's or licensee's products or strategies.

©2024 IDC. Reproduction is forbidden unless authorized. All rights reserved. CCPA

Message from the Sponsor



Red Hat

The Red Hat Developer Hub and Red Hat Trusted Software Supply Chain enhance the developer experience, boost productivity, and improve SDLC security. With Red Hat OpenShift, customers can easily verify compliance and anticipate emerging threats for greater security and continuous improvement.

Learn more at Red Hat Trusted Software Supply Chain