

Walking the Line: GitOps and Shift Left Security

As organizations adopt modern software development processes, developers are empowered to quickly develop and release their applications by deploying them to the cloud. This challenges security teams to keep up with the speed of continuous integration/continuous deployment (CI/CD) cycles, including misconfiguration detection and rapid remediation. Enterprise Strategy Group recently conducted research examining the nuances of the movement to shift security left in an effort to increase security without slowing down development.

Modern Development Increases Speed and Security Risk

Top 3 security challenges caused by faster CI/CD development cycles.



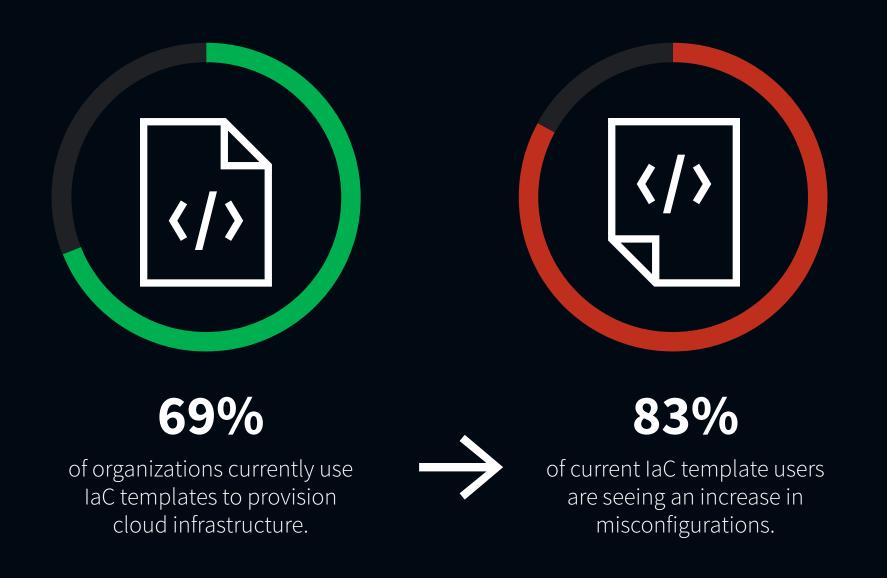
Percentage of code composition that is open source software.



Top 3 open source software challenges and concerns.



Infrastructure-as-code (IaC) considerations.



Top 3 cybersecurity incidents experienced as a result of cloud-native applications.

Attacks that resulted in a loss of data due to the insecure use of APIs

Exploit(s) that took advantage of known vulerabilities in internally developed code

Compromised services account credentials

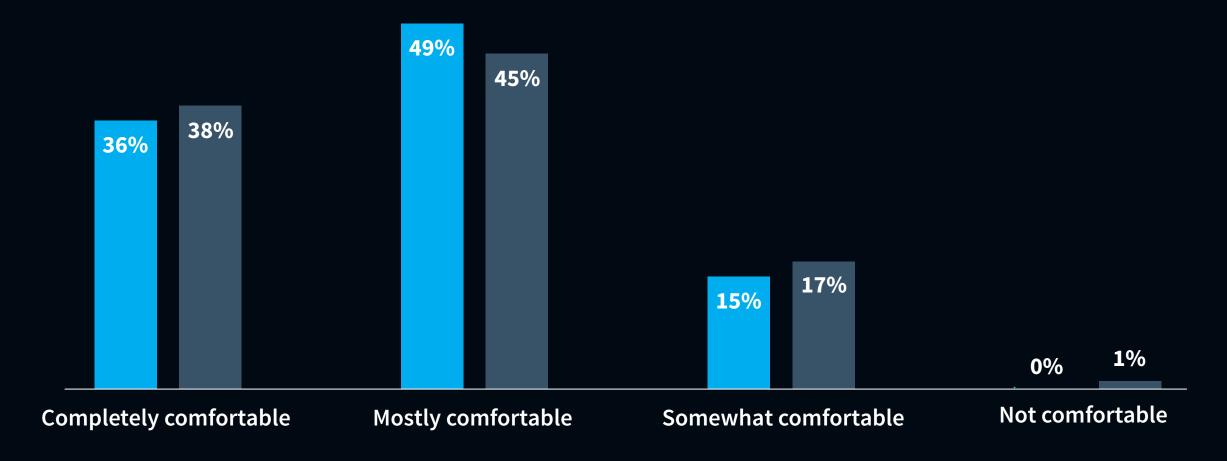


Security Must be Inserted into Development Processes without Disruption

Priority level for adopting a developer-focused security strategy.



Comfort level with developers having increased security responsibilities.



Security teams' comfort level adopting a developer-focused security strategy

Developers' comfort level with increased security involvement

Top 3 challenges with security testing for development team(s).

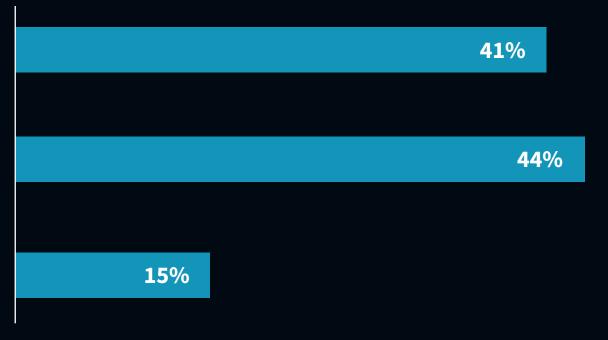


Level of integration between cloud security monitoring solutions and development processes.

They are well integrated—when an issue is found, there is an option for auto-remediation and/or the developer can immediately fix the issue

There is some integration—when an issue is found, the monitoring tool can deliver information to the developer owner to facilitate remediation

They are not integrated at all—when the monitoring tools find an issue, there is work involved to determine who can make the coding revision to remediate the issue



LEARN MORE

For more from this study, read the Enterprise Strategy Group research report, Walking the Line: GitOps and Shift Left Security.

