

Distributed Cloud Series: Cloud-native Applications

Today's businesses are evolving rapidly to meet the demands of their customers, but traditional and heritage applications often do not meet the requirements. IT organizations are trying to keep their businesses running while migrating to new, modern approaches to advance the business into the future. ESG recently surveyed IT professionals responsible for purchasing, managing, and building application infrastructure to understand cloud-native application trends.



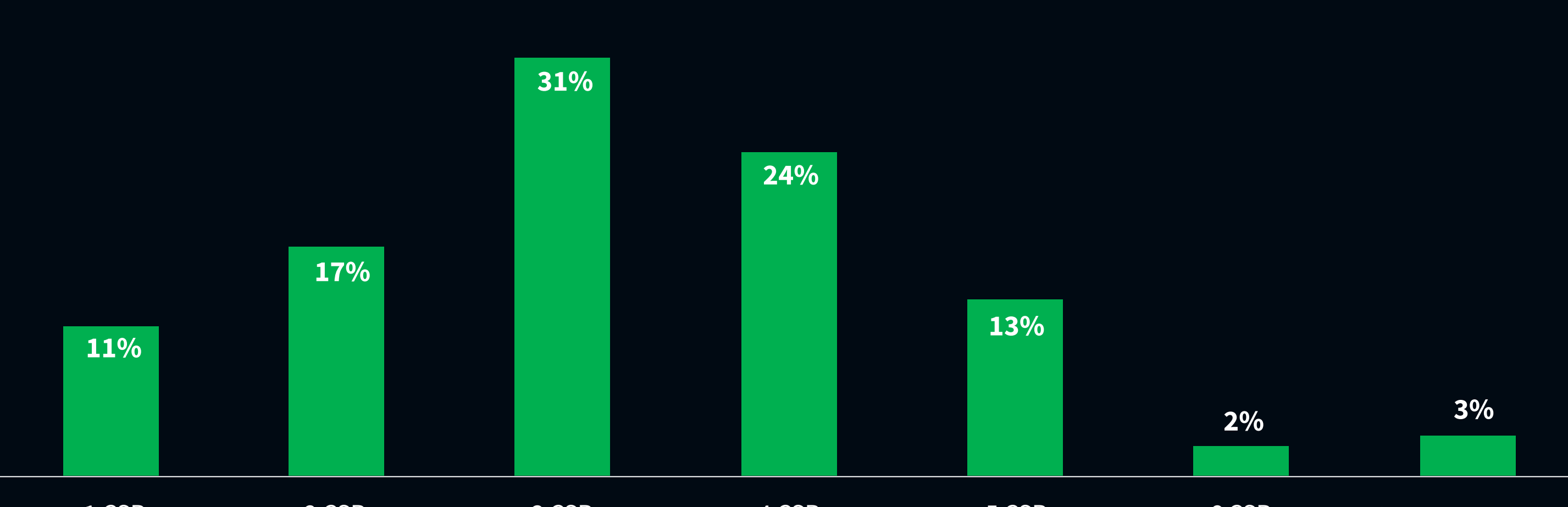
Cloud-native Application Strategies Are Becoming More Common in Conjunction with Ubiquitous Public Cloud Usage



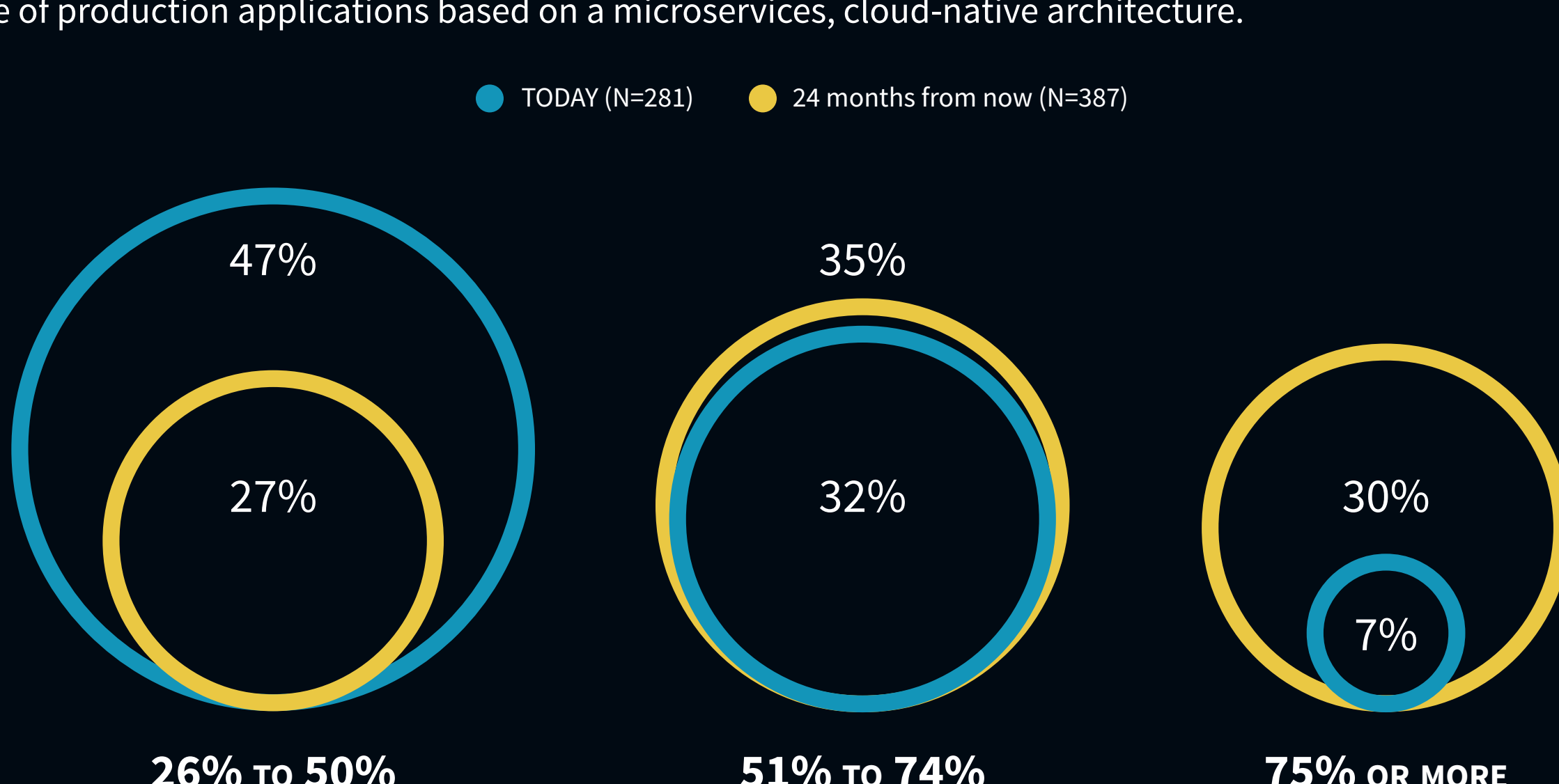
88%

We currently run production applications/workloads on public cloud infrastructure and/or platform services.

Number of unique public cloud infrastructure service providers (IaaS and/or PaaS) currently used.



Percentage of production applications based on a microservices, cloud-native architecture.

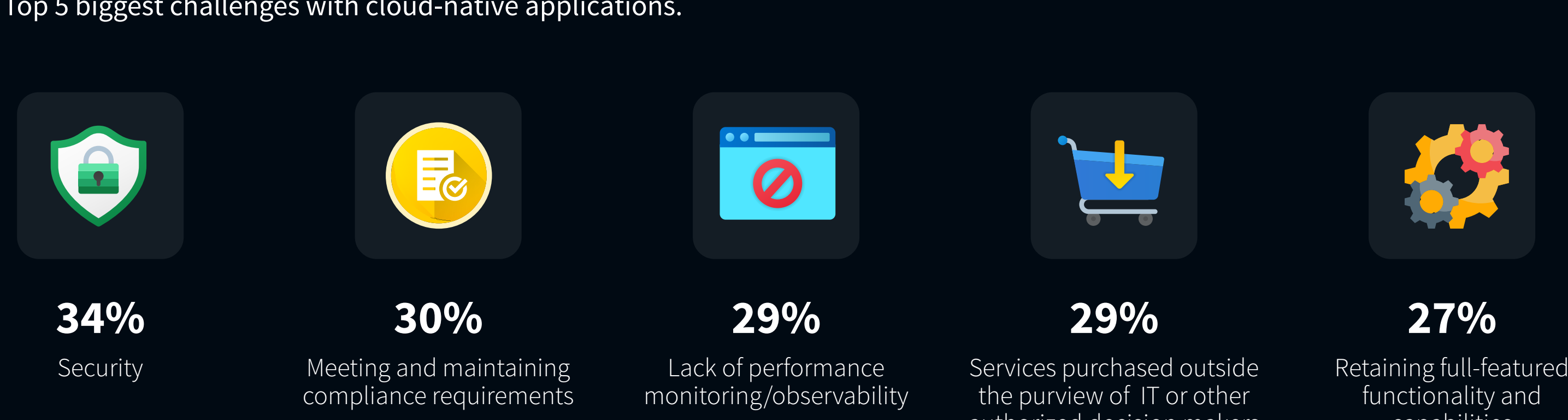


IT Recognizes the Value of Modern Application Architectures, but Challenges Persist

How much faster is the process of changing where a cloud-native application is run compared to traditional applications?

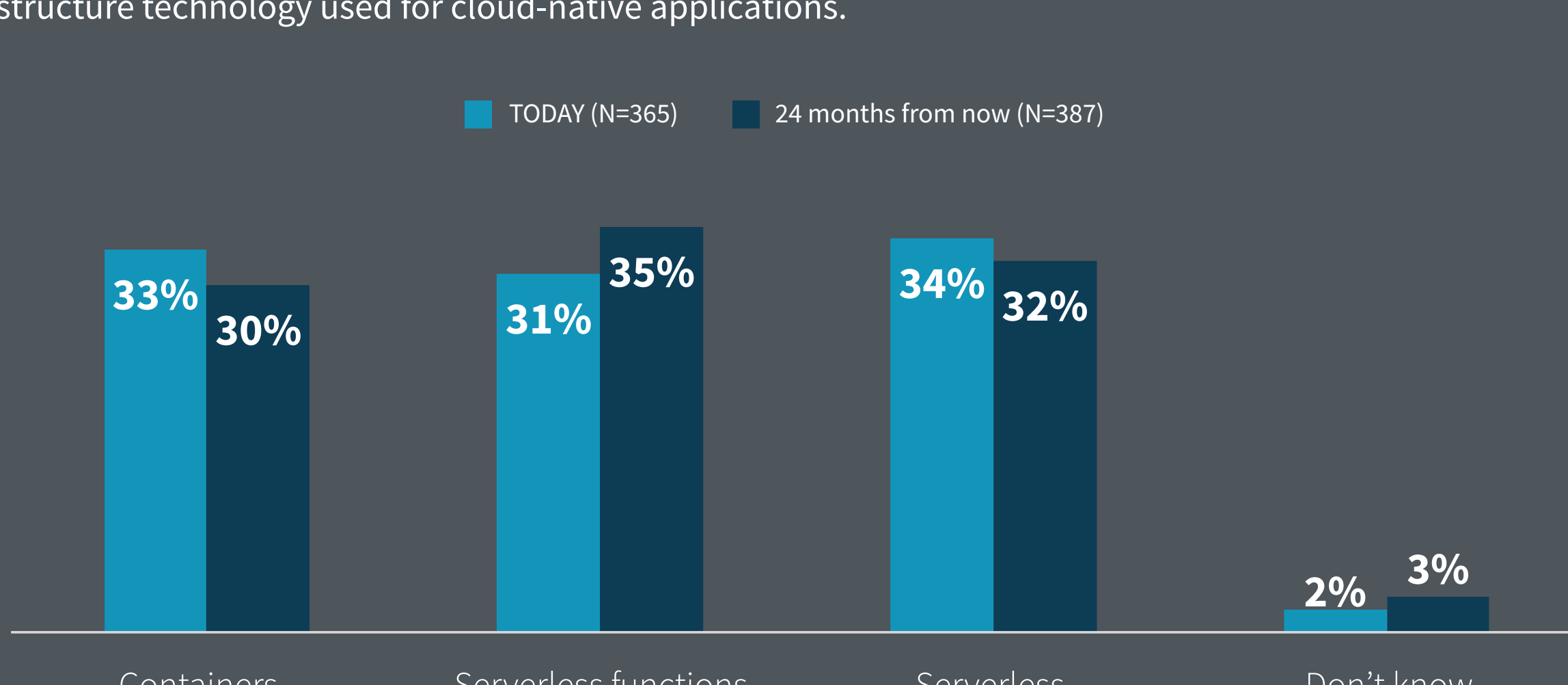


Top 5 biggest challenges with cloud-native applications.

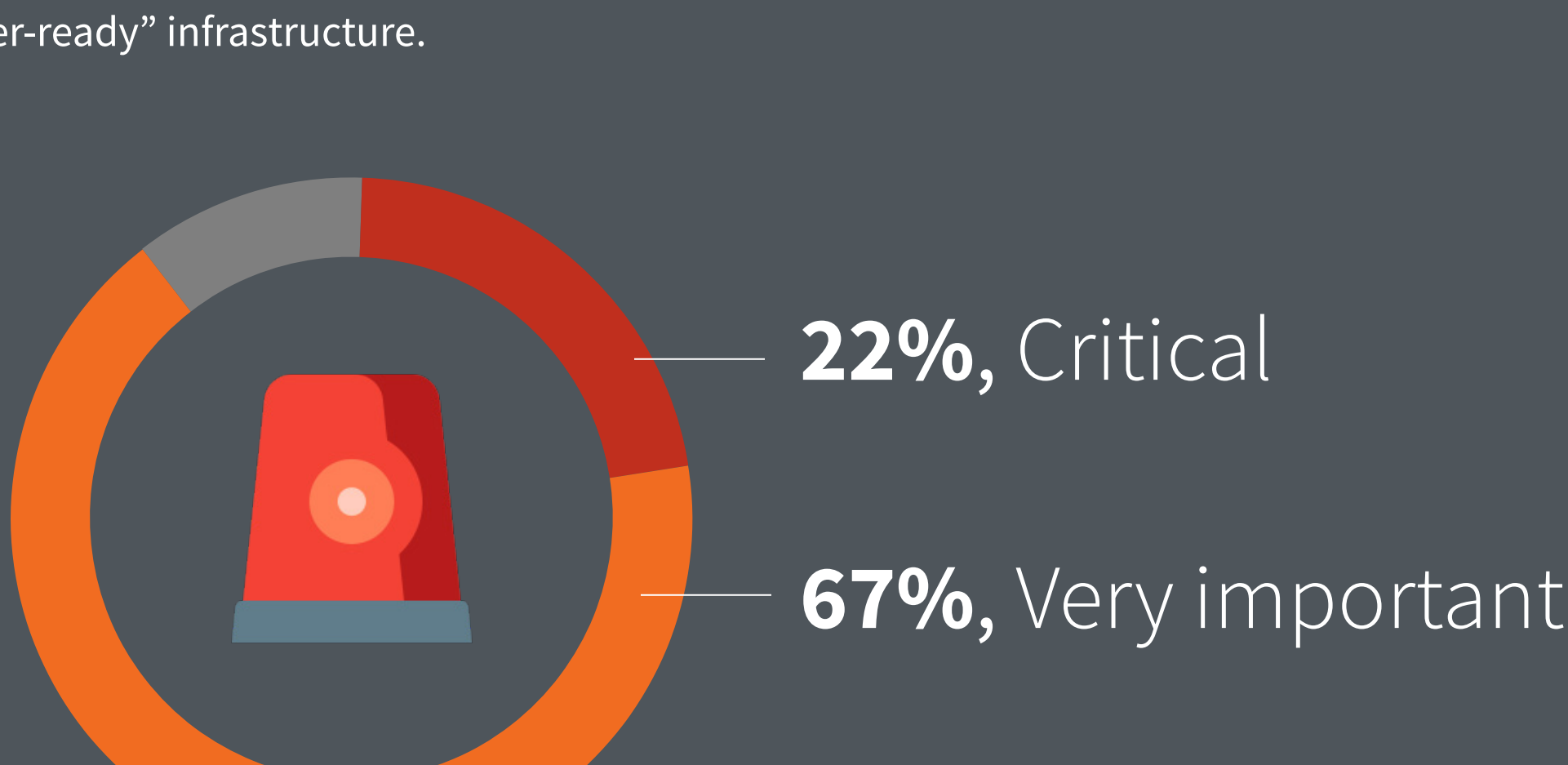


When Deploying Cloud-native Apps, the Platform Matters

Primary infrastructure technology used for cloud-native applications.

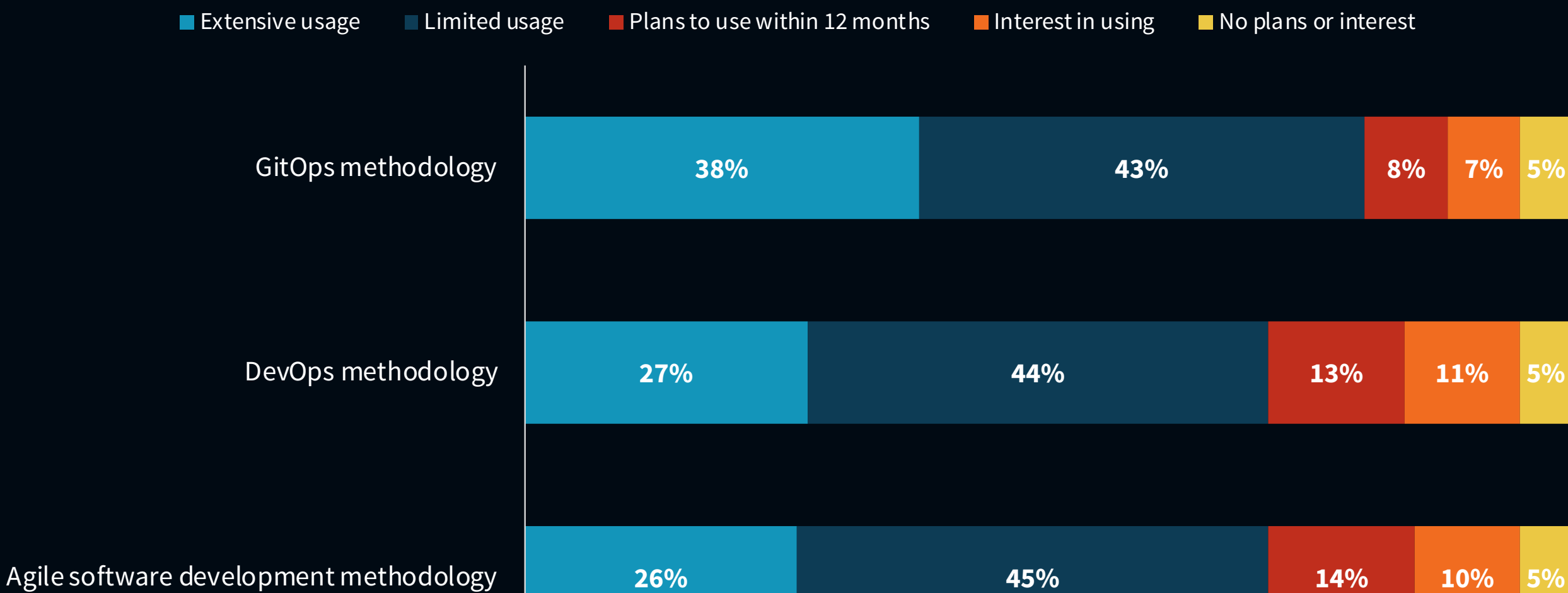


Importance of "developer-ready" infrastructure.



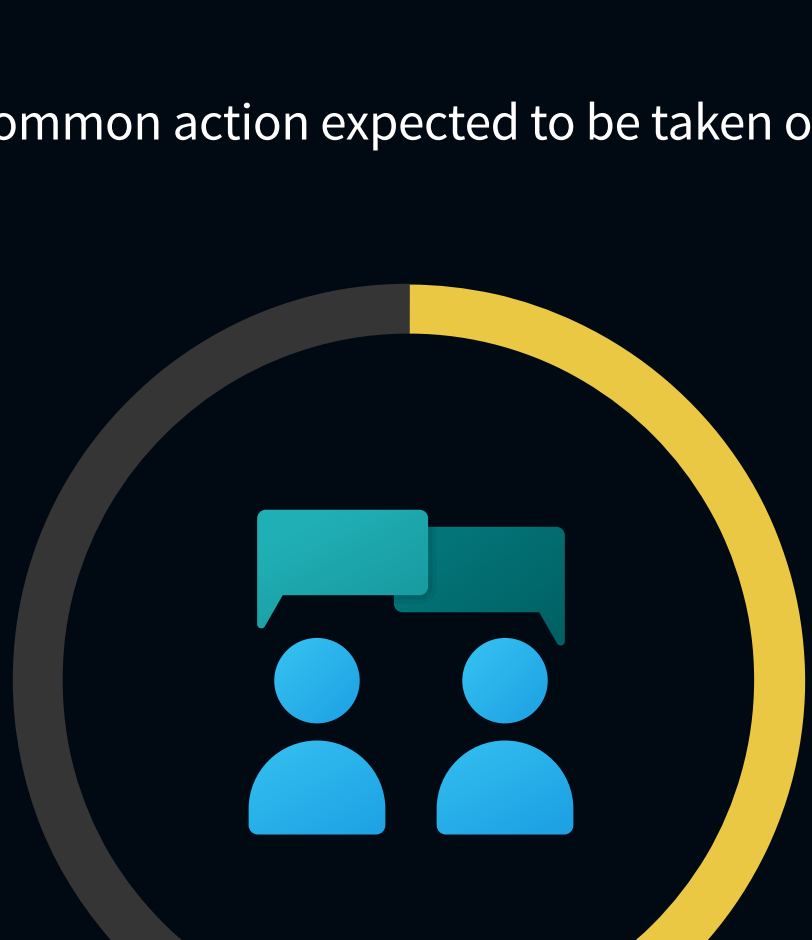
The Cloud-native Transition Is Dependent on Iterative Methodologies

Extensive usage, Limited usage, Plans to use within 12 months, Interest in using, No plans or interest



Organizational Dynamics Align to Cloud-native Success

Most common action expected to be taken over the next 12-18 months to optimize cloud-native application development strategies:



57%

Improve the collaboration across DevOps, application developers, and IT operations.

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For more from this ESG research study, including spending plans for cloud-native application development, read the ESG Research Report, *Cloud-native Applications*.