

Investments

Market check-in: Will microservices disrupt the cloud?

The "race to the cloud" dominated the headlines a few years ago. Most businesses subscribed to the speed, prowess and agility of cloud computing, and cloud adoption gradually matured. Today, another tailwind is here to disrupt technological frameworks: microservices-based architecture.

Although microservices are a direct result of cloud's prevalence, its adoption can alter the cloud in a variety of ways – from app development to tech stack usage and more. **Pulse surveyed 100 engineering and IT executives to gauge their changing perceptions of cloud technologies on the back of the growing relevance of microservices.**

Data collected from July 19 - August 12, 2021

Respondents: 100 engineering and DevOps leaders



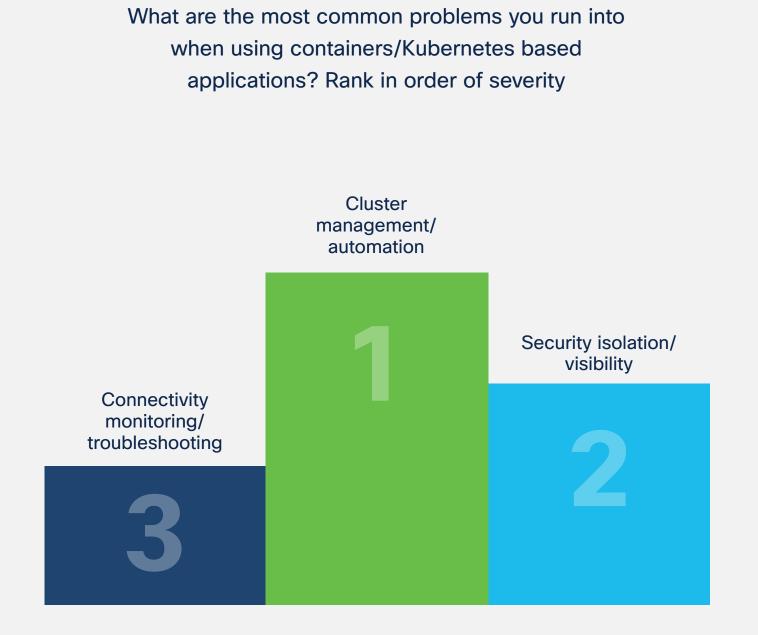
9%

Opportunities unearthed for cluster management and enterprise-versions of open source tools

33%

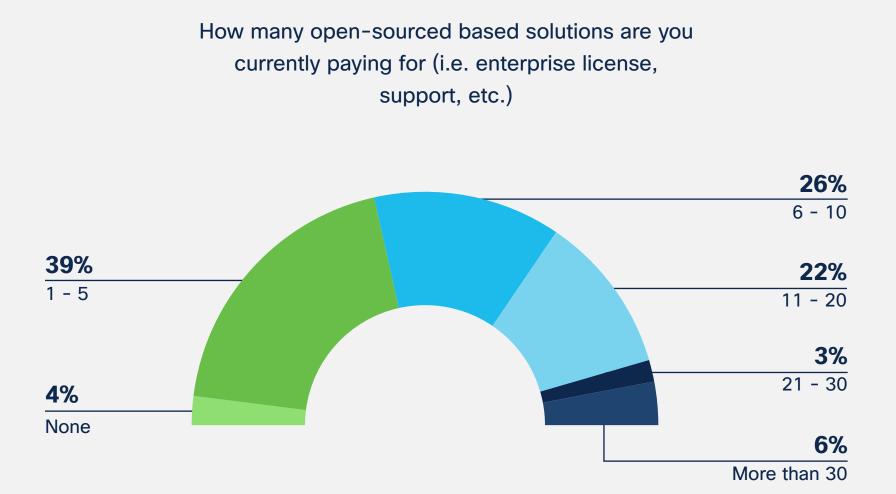
28%

82% of Kubernetes users rank cluster management and automation in their top 3 most common problems when using containers and Kubernetes based applications, with 41% ranking this as their most severe problem. Nearly three-quarters of respondents also include security isolation and visibility (74%) and connectivity monitoring and troubleshooting (73%) in their top 3 most common problems.

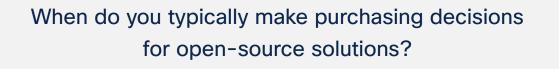


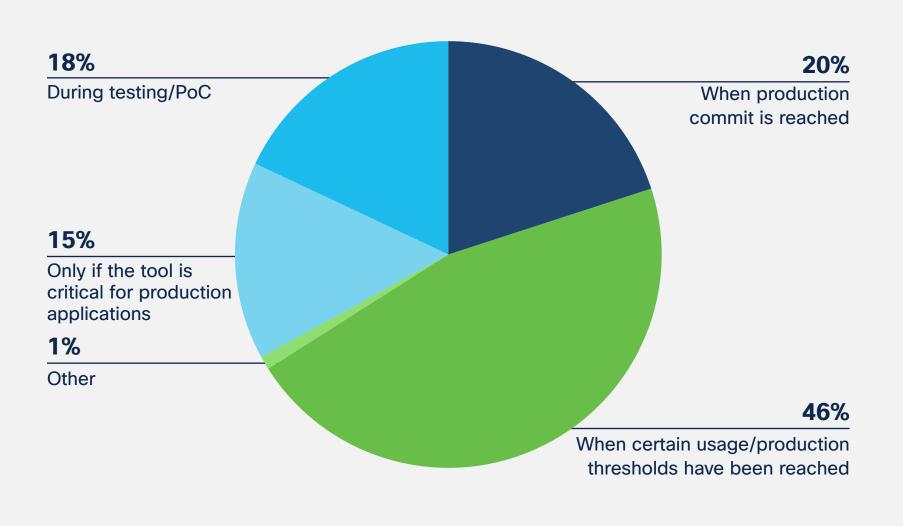
4. App deployment workflows 5. L7 observability and load balancing

Only 9% of leaders pay for more than 20 open-source based solutions, with most (39%) currently paying for 1-5 such tools. This could indicate an opportunity to better position premium versions of open source software in the market.



46% of the respondents revealed that they consider purchasing open source solutions after reaching a certain usage or production threshold, which suggests that they may be using open-source tools in production without paying for them.





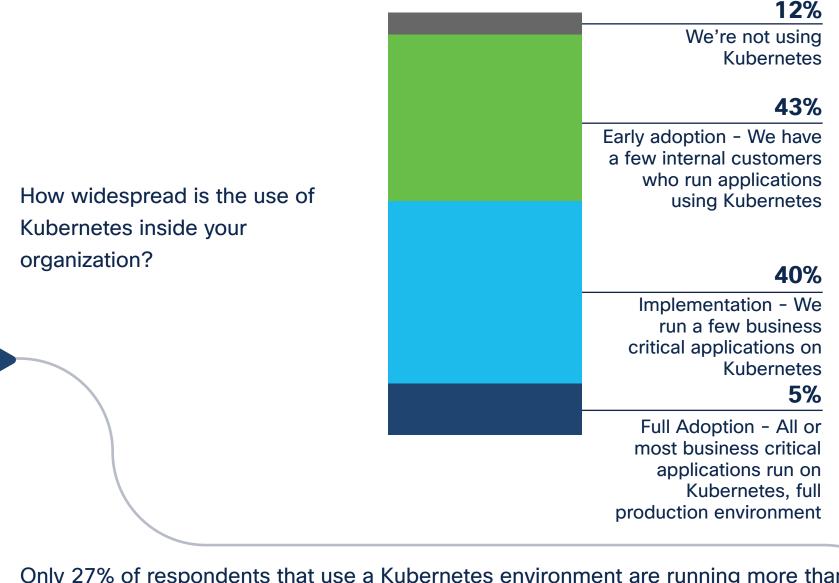


of respondents that pay for 1-20 open-source solutions (n=87) make their purchasing decisions when certain usage or production thresholds are reached, as compared to 22.2% of respondents who pay for more than 20 open-source solutions (n=9).

Change is *already* underway: Widespread Kubernetes usage and shift to real-time

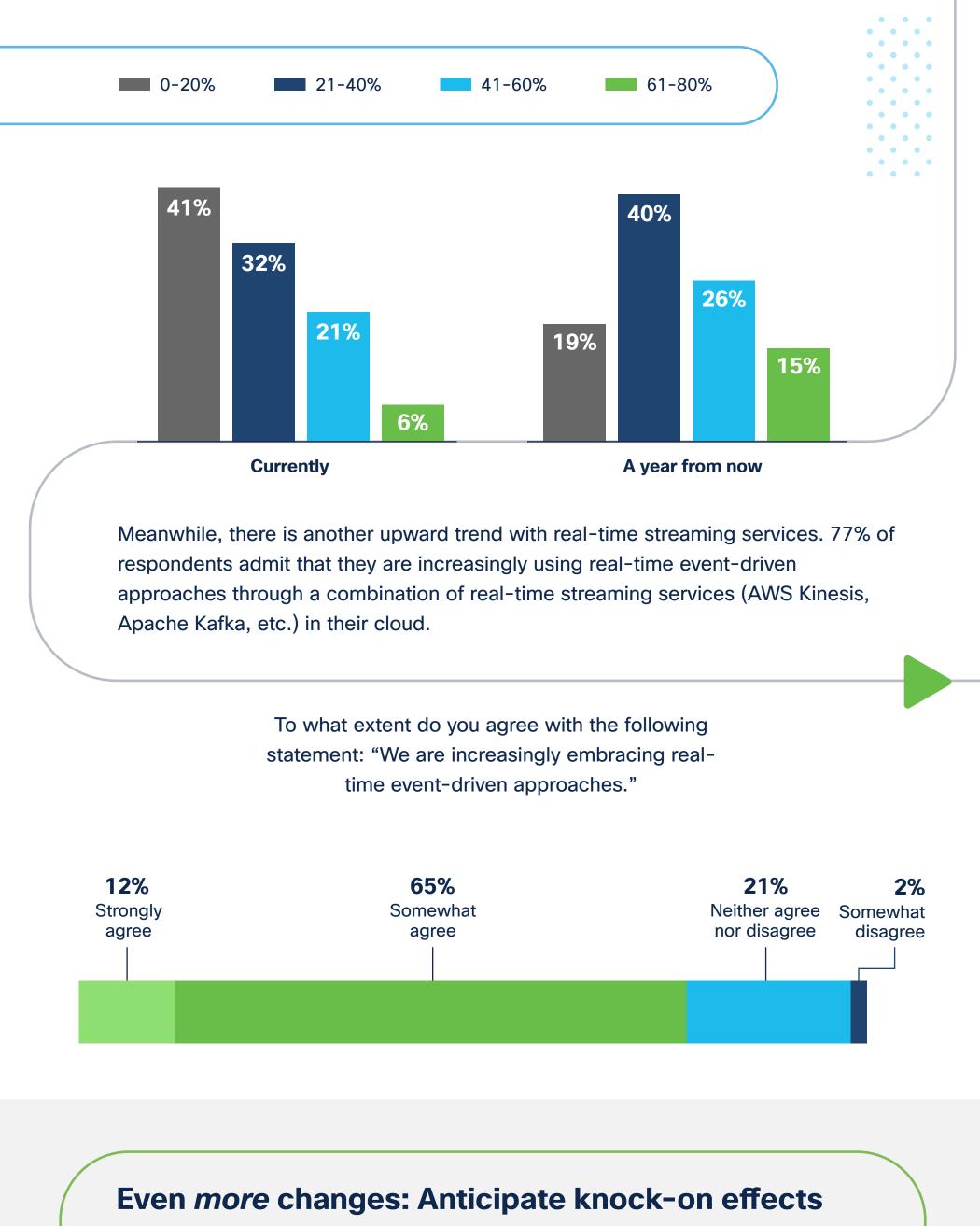
An uptick in container management usage has widely been anticipated, but in reality, the Kubernetes adoption is still in its infancy. 43% of respondents admitted that only a few internal customers run applications on Kubernetes.

However, the sign of changing times is indicated by the 40% of respondents that are currently in the implementation phase of their Kubernetes clusters and 5% that have adopted them organization-wide



Only 27% of respondents that use a Kubernetes environment are running more than 41% of their applications there. But an additional 14% of respondents expect to run that many applications on Kubernetes a year from now. The percentage of respondents that run 61–80% of their applications on Kubernetes could more than double from 6% now to 15% a year from now.





and opportunities across the board

Currently, the majority (58%) of respondents' security teams are somewhat or not at all engaged with their Kubernetes environment(s), however this could change in the coming year due to the anticipated uptick in Kubernetes usage.

