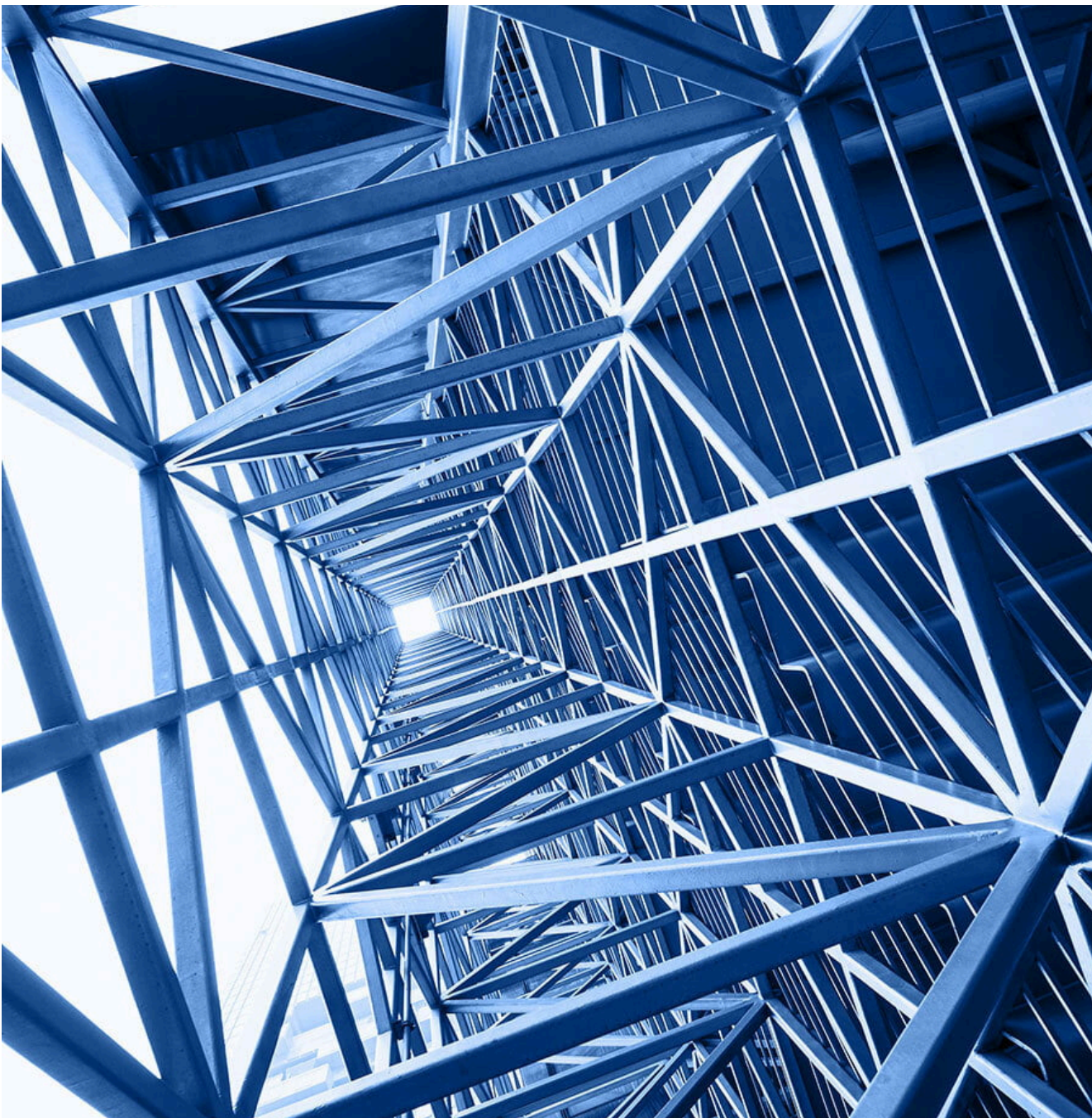


App Development Platforms for Kubernetes: The Next Phase



A dense, close-up photograph of numerous yellow LEGO bricks of various sizes and shapes, scattered and overlapping. The bricks are the primary visual element, filling the entire frame. A dark blue rectangular box is overlaid on the left side, containing the title text.

The Challenge of Building Container Applications



The challenge many developers face today is that building container applications remains cumbersome. There's a critical need to streamline that process as part of an overall effort to make container platforms much more accessible.

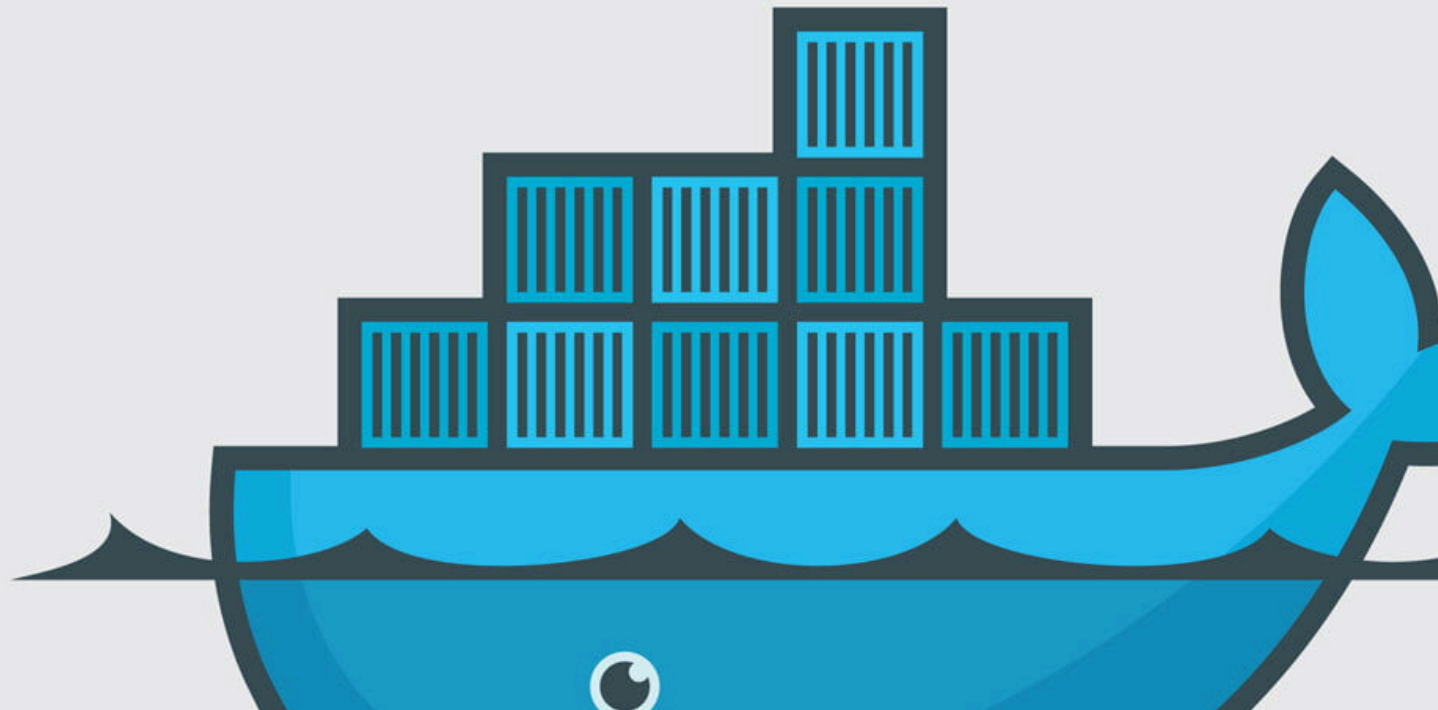
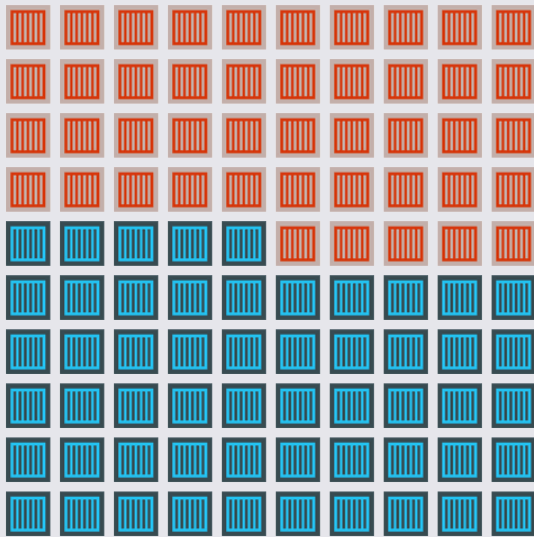
Achieving that goal will require presenting developers with higher levels of abstractions that mask the underlying complexity of platforms such as Kubernetes. The good news is that providers of container platforms are racing to provide those abstractions. Unfortunately, there's still a lot of work to be done before achieving that goal.

Container Developer Community Growth

Today there are more than 10 million developers using Docker tools, but by the end of the decade the total number of developers is expected to reach 45 million.

Source

Docker estimates that 55% of professional developers already employ Docker containers every day.



The Trouble with Kubernetes

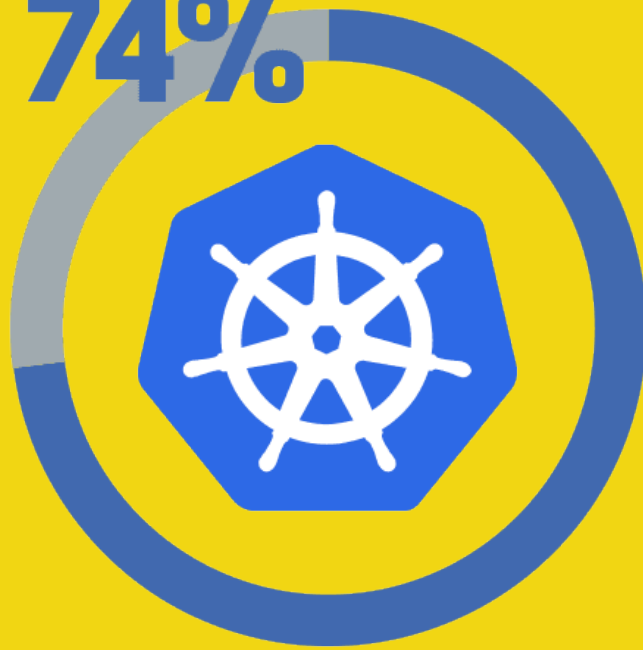
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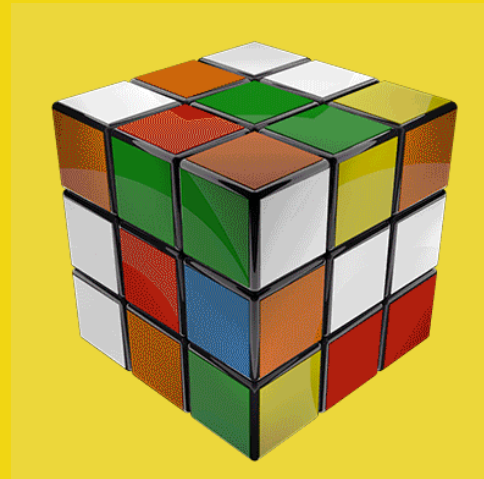
THE
TROUBLE
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KUBERNETES

The Trouble with Kubernetes

74%



Nearly **three quarters of developers (73%)** are employing Kubernetes in a production environment.



About half the respondents (47%) also noted **the complexity of the platform** is hindering further adoption.



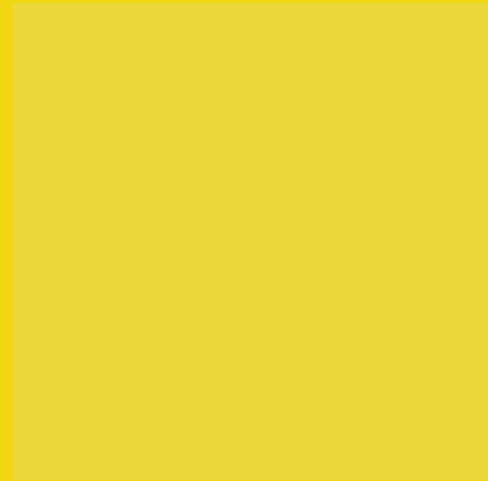
An equal number of developers working with containers today are **not employing Kubernetes at all**.

Source

Kubernetes Challenges



The top challenge cited by survey respondents (57%) is the **steep Kubernetes learning curve**.

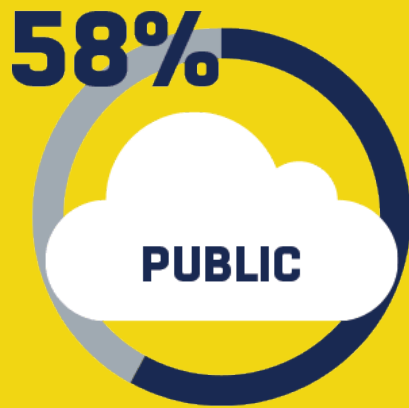


One of the most cited sources of Kubernetes frustration is the **new terms, concepts and commands** that developers need to understand.



Another oft-cited frustration is **the amount of time it takes** to spin up a working Kubernetes cluster.

Where Kubernetes Code Runs



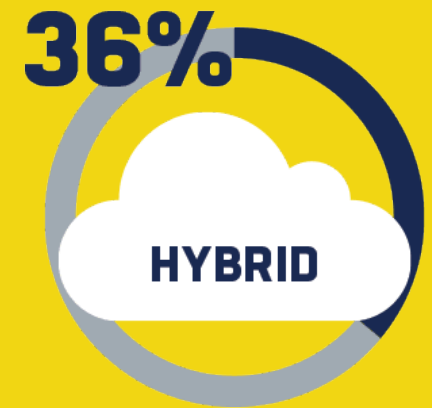
More than half of cloud native developers (58%) are running code on a public cloud



47% are on a private cloud



47% are on-premises



36% are on a hybrid cloud

Source

Kubernetes Benefits

KUBERNETES BENEFITS

DGdOAXiwOcYhrd
T4jsMupakrMaQw
uhtb5NBDD
ES3tvbY
qV6o+BBQ
DAwile
r4QGQQLO
wgPRPZ
6K0ytGCOR
AHsqItzR+w
vzuN73lgA
ZuCzzE4eT
T4EBFjYF
nTrWc7Ea
7k

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tTLdHscYQI6VMZsxFeLZBjjxl
UgzNMCDI7jg/wi66
NNCqIBOR



Kubernetes Benefits

Source

Top Benefits of Kubernetes



SCALABLE

41%

Ease of Scaling



MANAGEABLE

35%

Ease of Management of Containers



OPTIMIZATION

13%

Optimization of Resources

Top Reasons for Kubernetes Adoption



ACCELERATED

59%

Accelerating Deployment Frequency



AUTOMATED

54%

Increasing Automation



REDUCE COSTS

46%

Reduce IT costs

Kubernetes on the Rise



INCREASED USE

68%

Increased their use of Kubernetes as a result of the pandemic



CRITICAL PART

77%

Consider Kubernetes a critical element of their digital transformation strategy



FUTURE GROWTH

61%

Expect production projects using Kubernetes to rise in the next two years

The Developer Upside



Most developers view containers as being a high or important priority (91%), 30% motivated by the need to deliver new types of application services, while another 19% are turning to containers as a way to better support business groups in their organization. A total of 40% developers identified career advancement as a key reason for using containers.

Source

The Big Thing

There is a clear need for a portable, consistent, developer-friendly platform for Kubernetes. Whether that's a platform-as-a-service (PaaS) or container-as-a-service (CaaS) environment or something completely different is still anybody's guess.

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Thank you for reading

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