Techstrong Research

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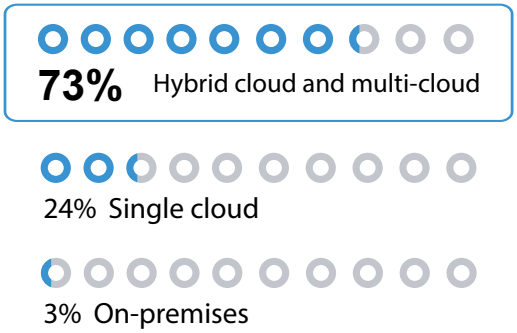
Over the last several years, application development has been transformed through the wide adoption of cloud-native technologies including containerization and Kubernetes (K8s). However, the cloud and new development and operations technologies are not a cure-all. Containers and container orchestration via K8s is a major challenge for many organizations. In addition, you need to think about the fact that your developers are already under tremendous pressure to continually increase the application experience for both customers and employees.

During April of 2022, our team conducted several flash polls among the Techstrong Group member community. Techstrong Group members include readers, influencers and contributors to our various communities focused on DevOps, cloud-native, security and digital transformation. The goal of these polls was to understand our members' evolving priorities around deploying and managing Kubernetes deployments, no matter where they reside. Across all of the polls, we received more than 1,090 responses.

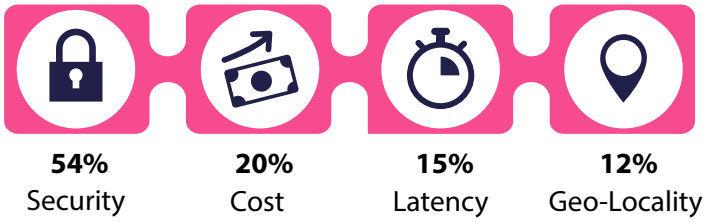
The Era of Hybrid and Multi-Cloud has Arrived

The debate is over – through careful planning or a variety of acquisitions and business unit decision making, the majority of organizations have a hybrid or multi-cloud IT environment. Why not move every workload to the cloud? Security and costs continue to be the top drivers for why applications and data remain on-premises

Are you considering a hybrid or multi-cloud approach?



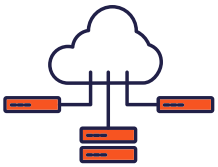
What is the leading driver for maintaining on-premises infrastructure?



The Shift to Containers is Underway

Despite the complexity of containers, businesses are accelerating their shift to cloud-native technologies.

Do you plan to move all your virtualized workloads to containers?



- **52%** - Yes
- **36%** - Some workloads
- **12%** - No

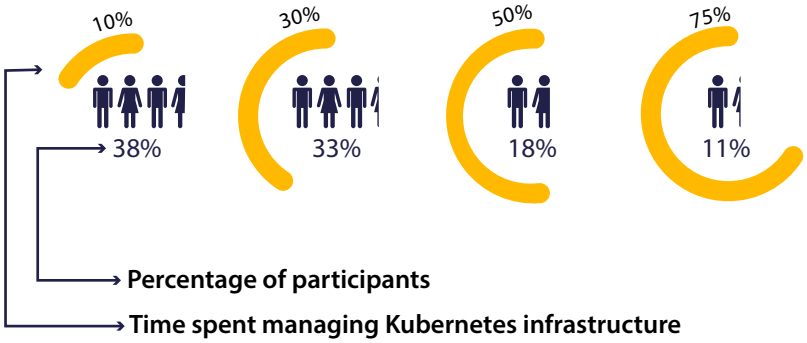
The Pain is Real – The Cloud and Kubernetes are Full of Challenges

In many cases, modernizing applications for the cloud and cloud-native development requires a new approach. It's not unusual for teams to get slowed down because of the time spent managing K8s infrastructure.

What is your biggest challenge when moving workloads into the public cloud?

- **33%** - Application transformation
- **32%** - Skilled resources
- **22%** - K8s complexity
- **14%** - Application management

What percentage of your DevOps team's time is spent managing Kubernetes Infrastructure?



Techstrong Research Analyst View

It's clear that the complexity of Kubernetes and the need for additional expertise is likely holding many organizations back from making cloud-native investments. In addition, cloud security and the cost considerations around the cloud are leading many organizations to keep applications and data on-premises.

At the same time, developers have a huge mandate. Developers are expected to continually improve user experiences, while at the same time understanding new deployment and operations technologies.

The need for increased speed, better user experiences and lower costs are all converging to drive the momentum behind containerization and Kubernetes. At the same time, our research shows that businesses need tools to help simplify the management of these emerging platforms.