

# How organizations are adopting continuous deployment

Innovation within the deployment space and a need for faster and safer deployment has led more organizations towards continuous delivery (CI/CD) models.

Pulse and Armory surveyed 100 technical decision-makers to understand where organizations are from a deployment reliability perspective across different levels of businesses.

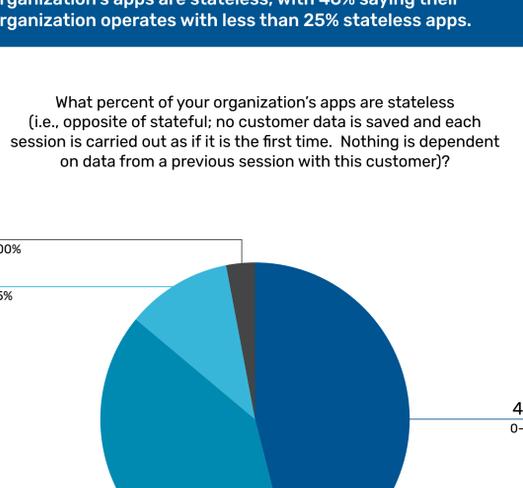
Data collected from May 14-June 6, 2021

Respondents: 100 Technical decision makers

## Organizations are mostly deploying stateful apps in AWS and Azure

Currently, a large majority of technology leaders use Amazon Web Services to deploy apps (66%) followed closely by Microsoft Azure (54%).

In which of the following environments do you deploy apps?



86% of respondents say that half or fewer of their organization's apps are stateless, with 46% saying their organization operates with less than 25% stateless apps.

What percent of your organization's apps are stateless (i.e., opposite of stateful; no customer data is saved and each session is carried out as if it is the first time. Nothing is dependent on data from a previous session with this customer)?



## Tech leaders have turned to continuous delivery/deployment to improve operational confidence and streamline workflows, but these solutions pose their own challenges

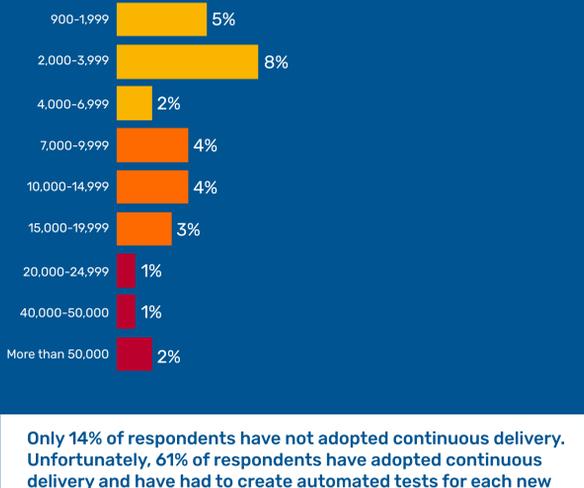
Nearly half of tech leaders (46%) were most influenced, or would be most influenced, to adopt continuous delivery in order to improve operational confidence through automated monitoring and debugging tools. 24% said the ability to streamline workflows was or would be the most attractive feature in continuous delivery.

Which of the following features most influenced/would most influence you to adopt continuous delivery at your organization?



Organizations are streamlining the amount of deployment pipelines they execute per month with their continuous deployment tool/platform, with most respondents (24%) citing less than 50.

Currently, how many total deployment pipelines do you execute in a month using your continuous deployment tool/platform (like Spinnaker, GitLab, etc.) to both your production, and non-production environments?



Only 14% of respondents have not adopted continuous delivery. Unfortunately, 61% of respondents have adopted continuous delivery and have had to create automated tests for each new feature, bug fix, or improvement.

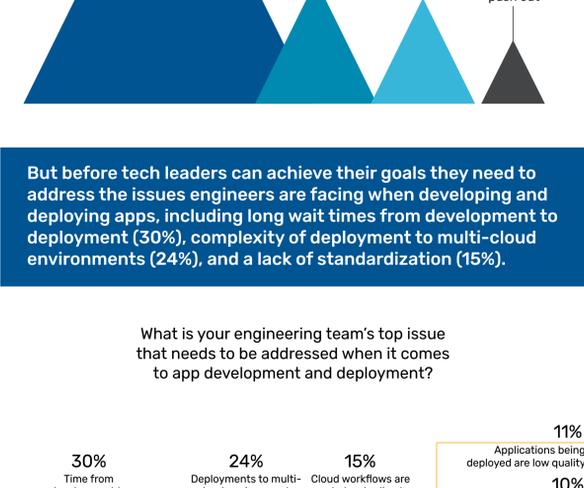
Which of the following has your organization experienced as a result of adopting continuous delivery?



## Businesses want to speed time to delivery with app deployment, but engineers are struggling and legacy infrastructure remains a barrier to innovation

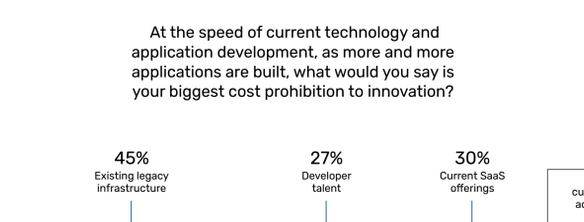
Organizations are prioritizing reliability (50%) and faster release to market (21%) in app development and deployment.

What is your organization's top priority with regards to app development and deployment?



But before tech leaders can achieve their goals they need to address the issues engineers are facing when developing and deploying apps, including long wait times from development to deployment (30%), complexity of deployment to multi-cloud environments (24%), and a lack of standardization (15%).

What is your engineering team's top issue that needs to be addressed when it comes to app development and deployment?



Existing legacy infrastructure remains the largest cost barrier to deployment innovation among most respondents (45%), followed by high cost of developer talent (27%).

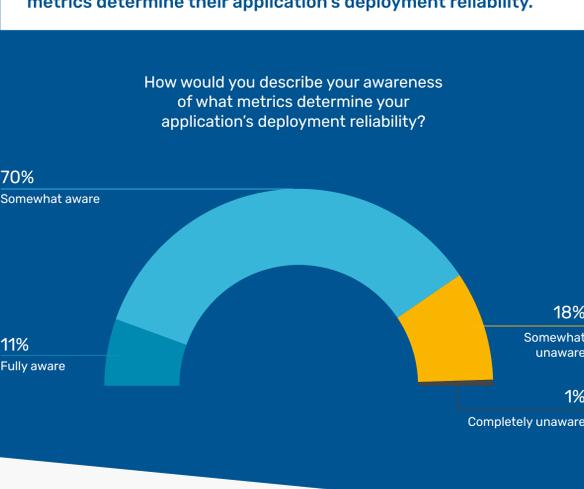
At the speed of current technology and application development, as more and more applications are built, what would you say is your biggest cost prohibition to innovation?



## Reliability is one of the biggest pain points with app deployment and tech leaders lack clarity on metrics

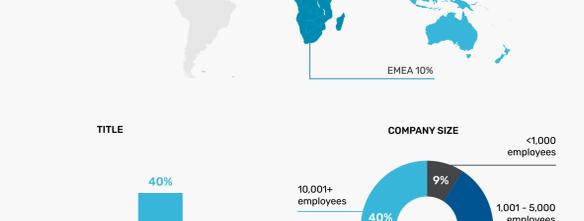
Most leaders say their company's biggest pain point with their current approach to app deployment is speed of delivery (27%), but nearly as many said reliability and consistency of delivery (26%) is their biggest pain point.

What is your company's biggest pain point with your current approach to app deployment?



Improving reliability may be difficult as most technology decision-makers (70%) are only somewhat aware of what metrics determine their application's deployment reliability.

How would you describe your awareness of what metrics determine your application's deployment reliability?



## RESPONDENT BREAKDOWN

REGION: North America 84%, EMEA 10%, APAC 6%

TITLE: C-Suite 19%, VP 20%, Director 40%, Manager 21%

COMPANY SIZE: <1,000 employees 9%, 1,001-5,000 employees 29%, 5,001-10,000 employees 22%, 10,001+ employees 40%