

# The state of container-based app development

What are the most important solutions and capabilities driving adoption? This research highlights key challenges and business benefits delivered by adopting container development.

## 1 Factors driving adoption

In order of importance, enterprise-grade security, tools that ease operational challenges, support for cloud and on-premises environments and flexible application architectures are the key drivers of container-based cloud platform adoption.



**Enterprise-grade security solutions**



**Tools to automate deployment and mgmt**



**Tools to accelerate DevTest and production rollout**



**Support public cloud and on-prem environments**

- 2 Container usage for production enterprise workloads is expected to increase from 25 percent to 44 percent within the next three years. Deployment will shift heavily to Hybrid Cloud and support for on-premises, server-less containerized environments. Deploying on public clouds only is expected to decrease.

## 3 Benefits of adopting containers

Using containers is associated with improving app quality, reducing both app development costs and production app downtime, and facilitating user experience innovation.



**59%**

Improved application quality and reduced defects



**57%**

Reduced application downtime and associated costs



**54%**

Improved employee productivity



**53%**

Faster response to market changes



**51%**

Greater levels of innovation



**50%**

Lower operational costs

- 4 In terms of using and adopting container-based platforms, solving challenges related to the new technology currently overshadows the demand for advanced services like AI and big data analysis tools.

