

# 6 ways to develop and deploy better applications

## How mid-sized organizations can improve quality, speed, and stability

To achieve a competitive advantage and operational efficiency, IT teams must rapidly develop and deliver fresh, innovative applications. This need for speed and agility requires an open software solution optimized for containers in a light, flexible architecture—used across clouds and without the drag of complex, proprietary infrastructure. Consider these six ways to improve application quality, speed, and stability.

## 1 Gain business agility with cloud and multicloud

Cloud computing or multiple clouds—public, private, or a hybrid of the two—are key drivers of operational efficiency and technology-based business growth. To succeed:

- Move infrastructure and applications to the cloud—companies that do report 74% higher customer satisfaction.
- Adopt cloud computing—and boost operational efficiency by as much as 78%.<sup>1</sup>
- Use elastic cloud technology to expand or shrink your IT infrastructure as business needs change.
- Deliver more secure IT on demand.

## 2 Adopt containers and orchestration

With an open container orchestration platform based on Kubernetes, it takes less time to manage containerized apps—and to move apps from cloud to cloud.

- Choose a container platform that can build, run, and manage Kubernetes-based workloads at scale across clouds and on-premise.
- Speed innovation and retain key developers with a container platform designed for developers and IT operations teams.
- Position your organization for the future with a container-first platform that allows you to run containers and virtual machines side by side.

## 3 Transition to a container-first approach

Modern applications require a modern platform. Containers change the way IT designs, develops, packages, delivers, and manages applications. Use containers to:

- Make apps work quickly and reliably across diverse IT environments by packaging them into modules that contain their entire runtime environment.
- Handle workloads that see massive spikes in demand with Kubernetes automation functionality.
- Speed app development life cycles and reduce required IT staff time.

## 4 Manage demand with container-based hybrid cloud

Modern applications require a modern platform. Containers change the way IT designs, develops, packages, delivers, and manages applications. Use containers to:

- Enhance security, access legacy data and apps, and capitalize on existing on-premise infrastructure investments.
- Scale with stability and security.
- Bridge traditional datacenters to the hybrid cloud.
- Run cloud-native and distributed non-cloud-native apps at scale using an open container platform optimized for hybrid clouds.
- Provide cost-effective technology and compute solutions that benefit IT teams in real time.

<sup>1</sup> IDG Research Services “[Enterprise cloud computing unlocks deep strategic value through increased business agility.](#)” Sponsored by Accenture and AWS. Accessed September 2020.

## 5 Choose an open container storage solution

Maximizing the potential of containers requires dynamic, stateful, and highly available container-native storage. Choose an open container storage solution to:

- Offer easy cross-cloud data placement and access as well as hybrid and multicloud data protection for enterprise applications.
- Speed and simplify development by providing common functionality across all cloud platforms—enabling cloud developers to innovate without arbitrary limitations.
- Support important Kubernetes features such as replication, which allows application data to be placed across different availability zones.
- Provide data federation across multiple private and public clouds.

## 6 Reduce cost and speed innovation with open source

Mid-sized businesses need cloud infrastructure and technology like containers to stay ahead of the competition. However, they also need to minimize costs and technology risks. Build the foundation of your cloud environment on open source software to:

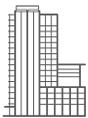
- Reduce the resources required to deploy, update, and maintain applications.
- Gain agility with an open container platform that allows you to easily manage your applications across public and private clouds, including on-premise.
- Tap into the large open source community, which delivers iterative improvements for faster innovation at scale.
- Benefit from the application portability and cost savings of an open hybrid cloud approach.

### Read the e-book

To learn how containers and an open container platform can help you develop and deploy better apps, [read the e-book](#).

### Contact sales

To connect with a Red Hat sales representative about solutions for mid-sized organizations, [contact us](#).



#### About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate,

secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.



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