

# How a modern, multicloud IT infrastructure can help automakers stay competitive



Overview

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*"We were very lucky to be joined early on by the very capable OpenShift team, which lent significant engineering and real world enterprise expertise to the project."*

**Brendan Burns**  
Co-founder of  
the Kubernetes Project

*"93% of organizations have a multicloud strategy, while 87% have a hybrid cloud strategy."*

2020 State of the Cloud Report

### Modernize your IT approach with containers and multi/hybrid clouds

From automakers to airlines, companies in many industries need to quickly adapt to changes. Now more than ever, these businesses also need to accelerate innovation and achieve operational efficiencies to gain a competitive advantage.

Becoming more flexible and using more digitally agile environments requires an open IT infrastructure that is built using modern tools and technologies. These should have the capability to run services more securely across multiple environments. This infrastructure should enable fast application creation with capabilities like machine learning. It must also help operation teams ensure that, once deployed, those applications provide a reliable and highly available user experience.

In recent years, these same goals have launched many organizations on a transition to cloud, migrating data and workloads from the datacenter to public cloud. Additionally, IT leaders began to look at the benefits of using multiple cloud providers, including Amazon Web Services (AWS), Google, IBM Cloud, and Microsoft Azure. IT teams and developers also began to demand cloud-like user experience on workloads that remain in the datacenters. This demand requires balancing on-premise, private infrastructure, and public infrastructure, which focuses on increased portability of applications, reduced complexity, and heightened security.

These needs gave rise to the modern hybrid cloud approach, which offers more security and the ability to use the huge investment in legacy systems. According to the 2020 State of the Cloud Report, 93% of organizations have a multicloud strategy, while 87% have a hybrid cloud strategy.<sup>1</sup>

### How Red Hat can help

Today's automotive manufacturers must deploy and manage applications at scale. Plus, they need to scale out new services and applications for edge computing. But the question remains: how do you do this while ensuring fast development and deployment of both internal and customer-facing innovations—and high availability of critical applications?

The go-to solutions for achieving application portability and ease of management across clouds and datacenters are microservices, containers, and Kubernetes—the leading container orchestration framework. As a leading contributor to Kubernetes since the project switched to open source, Red Hat provides one of the most widely used Kubernetes application solutions. Red Hat was also named a leader in the Forrester Wave report among eight cloud container platform vendors.<sup>2</sup> According to Forrester, "OpenShift" is the most widely deployed multicloud container platform and boasts powerful development and unified operations experiences across many public and on-premises platforms."



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<sup>1</sup> Flexera, "2020 State of the Cloud Report," 2020.

<sup>2</sup> Forrester, "The Forrester Wave: Multicloud Container Development Platforms, Q3 2020".

From automakers to airlines, companies in many industries need to quickly adapt to changes. Now more than ever, these businesses also need to accelerate innovation and achieve operational efficiencies to gain a competitive advantage. This brief provides solutions to these pressing issues.

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