

# IBM Cloud



## Manage IT

Orchestrate and  
simplify multiple clouds

Sixty-seven percent. That's how much more profitable the average enterprise becomes after deploying multicloud management.<sup>1</sup> How can you simplify IT management in a hybrid cloud environment?



# Contents

## How to effectively manage multiple clouds

Modern enterprises need effective IT management for their hybrid cloud environments.

## Managing multiple clouds: A core factor in managing IT

Managing multiple clouds is integral for operational and application performance.

## How to manage multiple clouds

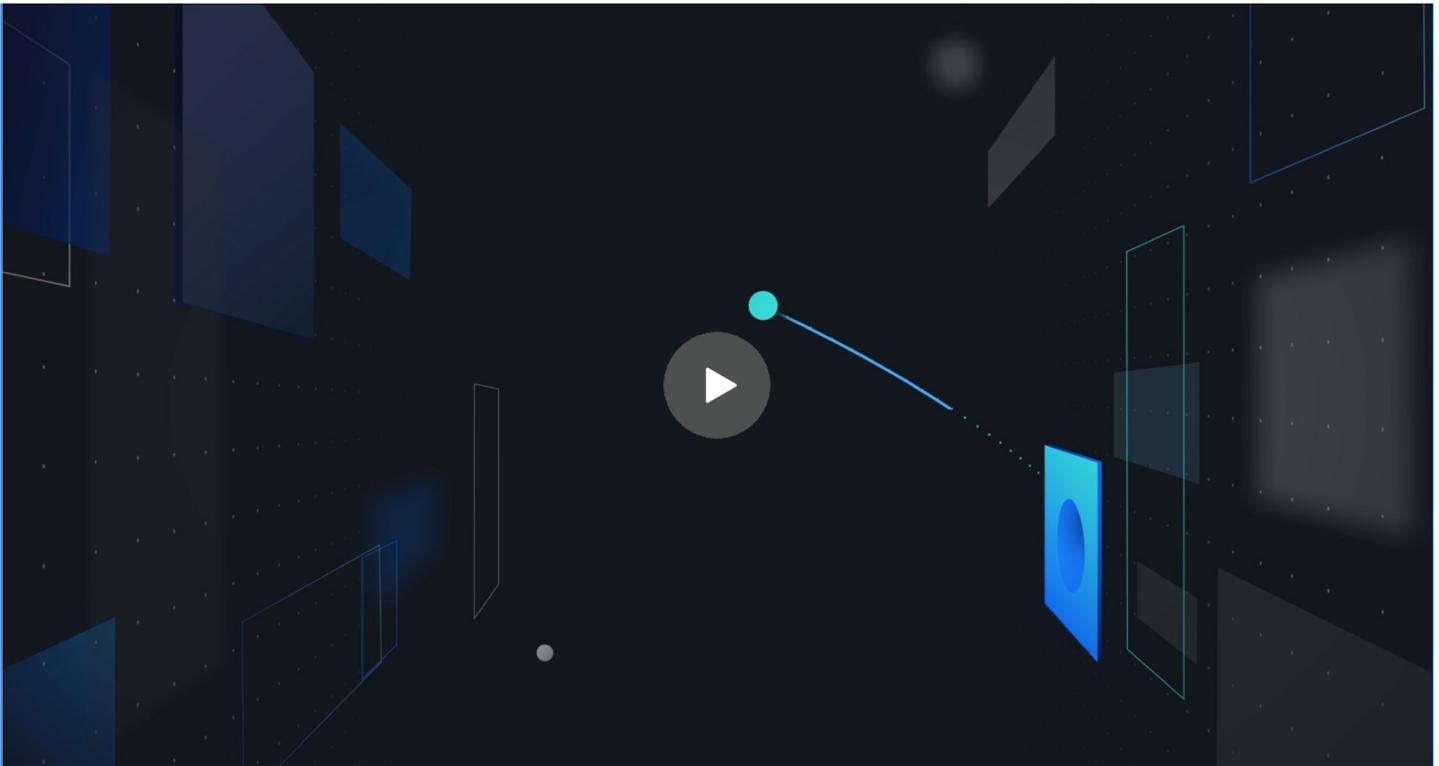
Choose the right technology partner to provide the right cloud tools and strategy.

## Three critical capabilities of a multiple cloud solution

Know the key requirements you need for a smooth-running and integrated IT infrastructure.

## Cloud management: How IBM can help

IBM uses cutting-edge cloud technology to optimize your IT environments and drive results.



Manage IT  
Orchestrate and simplify multiple clouds

## How to effectively manage multiple clouds

Today, your IT department is tasked with accomplishing more in an environment that is expanding in complexity and scale. Your IT infrastructure can be on premises, in the cloud or on a hybrid platform that integrates both. Most likely, though, you're working across multiple clouds from multiple vendors, as 71 percent of enterprises are now using three or more clouds.<sup>2</sup>

Effective IT management means monitoring all of your organization's information technology systems. Optimizing and simplifying hybrid cloud environments has become the key to enterprise agility, but working across multiple clouds—from multiple vendors—can pose distinct challenges.

Cloud technologies from different vendors come with their own operational and management tools, so you're likely facing increased complexity and cost. New IT management and cloud solutions can help optimize performance and access; control costs; and secure your mix of applications, environments, and data; whether they are inside your data center or in the cloud.

# Managing multiple clouds: A core factor in managing IT

A multiple cloud environment is simply the reality for a vast majority of IT organizations.

While 98 percent of organizations surveyed by the IBM Institute for Business Value (IBV) plan to operate in a multicloud environment within three years, fewer than half of those have dedicated multicloud processes in place.<sup>3</sup>

What's more, many businesses are using more cloud services than they had intended. Almost 60 percent of organizations reported that independent business units within their organizations had ended up accumulating multiple clouds—creating an unwieldy, de facto multicloud environment.<sup>4</sup>

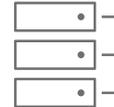
Companies with multiple cloud services are outperforming their peers, achieving the key objectives that led them to the cloud services model in the first place: an overall reduction in IT costs, improved operational speed and agility, and better IT and business alignment.<sup>5</sup> As a result, a hybrid cloud approach will be a non-negotiable for the vast majority of enterprises in the future, and for good reason: enterprises that have deployed multicloud management are 67 percent more profitable than those that lag behind.<sup>6</sup>

Until you orchestrate your multiple clouds, these disparate, disconnected environments will prove to be more of a liability than an asset.

How do you ensure that your cloud environments remain an asset? How do you join the ranks of enterprises that are profiting from multiple cloud deployment? By developing sound strategies and relying on robust tools, your enterprise can integrate all of your environments in a single view, in addition to:



Increasing your time to value for innovation



Streamlining the management of your IT environments



Integrating and managing across platforms and providers



Increasing security, compliance and resilience of your IT environment



Differentiating by leveraging AI & data

An all-in-one hybrid cloud management solution can reduce management costs, provide a choice in environments, increase governance, and deploy applications based on the needs of workloads—all from a single dashboard.

# How to manage multiple clouds

Scattered workloads. Security gaps. Limited visibility. Although the benefits of a cloud strategy as part of a larger IT strategy are clear, managing multiple clouds does introduce complexities. These require additional strategies to optimize performance, control costs, and secure a complicated mix of applications.

In a multiple cloud environment, enterprises need a layer of automated management so that their business can scale with the expansion of services. To meet the key drivers for cloud adoption—cost optimization, speed of innovation, and future-proofing—you need a management platform that includes specific functionality and the capability to integrate easily with a range of other enterprise management systems, both inside and outside IT operations.

[AIOps: Intelligent monitoring and preemptive management of hybrid cloud →](#)

# Three critical capabilities of a multiple cloud solution

Steering your business in the right direction, and mitigating the inherent challenges of multiple cloud management, requires a sound strategy and the right cloud management solution.

An agile, hybrid cloud integration architecture with these capabilities is essential for successful IT management:

## 1. Visibility

It's critical to know where business application components are running. You have to monitor the health of resources (such as deployments, pods, Helm releases) across Kubernetes environments, whether they're in public or private clouds, and in the appropriate business context.

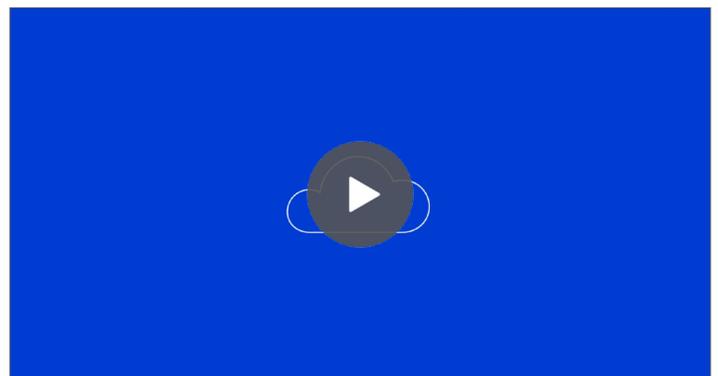
## 2. Governance

As cloud-native environments proliferate across the enterprise, DevOps teams are tasked with ensuring that these environments are managed according to the enterprise's governance and security policies. A single dashboard can provide you with the consistent set of configuration and security policies you need to manage an increasing number of cloud-native components.

## 3. Automation

Whether an application is cloud-native or traditional, it's crucial to efficiently manage and deliver services through end-to-end automation while enabling developers to build applications aligned with enterprise policies. Just as important is a consistent and flexible way to deploy applications across environments, including backup and disaster recovery options and the ability to move workloads. You'll also need the ability to provision, configure, and deliver individual Kubernetes clusters as a service in any cloud.

Effective IT management requires integration across your enterprise, and the right cloud solution gives you a clear view of your apps, built-in support for your compliance management, and the simplicity and intelligence of automation.



Manage cloud costs and assets with IBM Multicloud Management Platform

# Cloud management: How IBM can help

Using automation and open-source tools and technologies, IBM offers a cohesive approach to traditional IT management, enterprise applications, and hybrid cloud deployments. This approach can help improve business resilience as well as security and compliance management.

Bringing together cloud and service management capabilities across the enterprise, the IBM multicloud management platform provides a single management experience, enabling you to consume, orchestrate, and govern multiple clouds—all in a collaborative, self-service IT environment.

Within the IBM multicloud management platform, IBM Multicloud Manager empowers you with oversight of multiple Kubernetes clusters wherever they are—on the public or private cloud—with built-in security and compliance, in addition to:



A single user experience to manage the multiple cloud landscape



Continuous change management, keeping your enterprise in sync with your larger cloud ecosystem



An open framework to avoid cloud provider lock-in

Now, this capability is also available with the IBM Cloud Pak™ for Multicloud Management, running on Red Hat® OpenShift®. It's an enterprise-ready, containerized software solution that provides you with an open, faster, and more secure way to move your core business applications to any cloud.

[IBM Cloud Pak for Multicloud Management →](#)

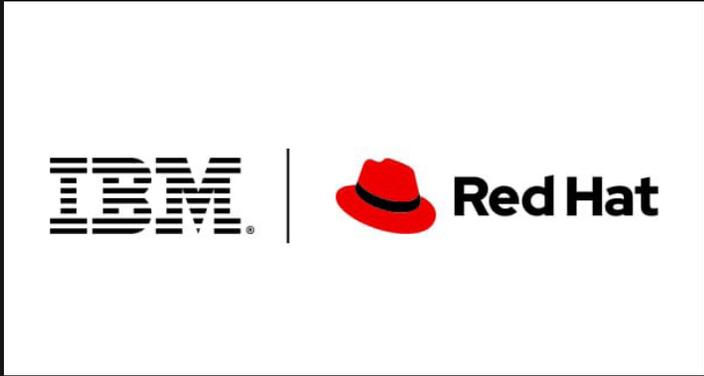
[IBM Multicloud Management Platform →](#)

## Conclusion

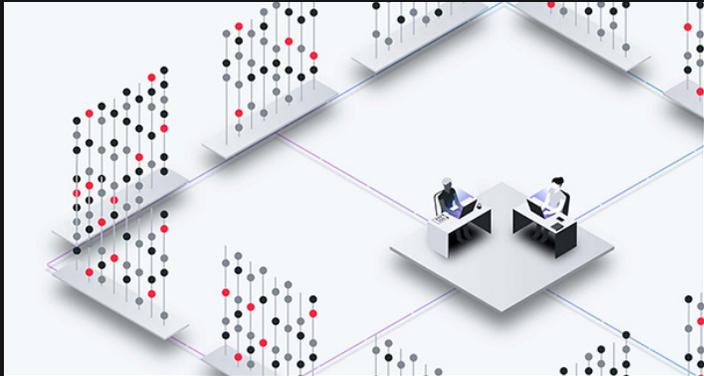
While your organization may already use multiple cloud services, does it have the right forward-facing strategy to fully unleash the power of your cloud? Is your strategy accelerating innovation and providing the visibility, governance and automation capabilities that are fundamental to the success of your IT operations?

With IBM's cloud solutions, you can facilitate, orchestrate, and optimize your multiple cloud environments from on-premises to the edge, and optimize cost while increasing your business advantage. See how intelligent operations, application and multiple cloud management solutions can boost agility and flexibility.

# Additional resources



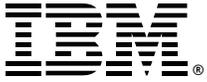
Learn more about Red Hat



**AIops: Intelligent monitoring and preemptive management of hybrid cloud**



Optimize and manage technology



© Copyright IBM Corporation 2019

IBM Hybrid Cloud  
IBM Corporation New Orchard Road  
Armonk, NY 10504

Produced in the United States of America  
December 2019

IBM, the IBM logo, ibm.com, and IBM Cloud Pak are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at “Copyright and trademark information” at [www.ibm.com/legal/copytrade](http://www.ibm.com/legal/copytrade).

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both. Kubernetes is a registered trademark of The Linux Foundation. Red Hat and Red Hat OpenShift are registered trademarks of Red Hat, Inc. Open Container Initiative™ is a trademark of The Linux Foundation.

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

The information in this document is provided “as is” without any warranty, express or implied, including without any warranties of merchant-ability, fitness for a particular purpose and any warranty or condition of non-infringement.

IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

- 1,2 Metcalfe, David. Cloud computing news blog: The multicloud era is here. Is your team ready? February 2018.
- 3–5 Gower, Andy. How to make the most of multiple clouds. Cloud Computing News. February 2019.
- 6 IBM Services. Orchestrate and simplify IT management. 2019.