

# Modernize your infrastructure with hybrid cloud

## Using solutions from Red Hat and IBM

***“Red Hat-IBM is ideal for both cloud-native organizations and large enterprises with complex legacy application modernization needs.”***

### Red Hat hybrid cloud solutions

- Red Hat Enterprise Linux
- Red Hat OpenShift
- Red Hat Ansible Automation Platform
- Red Hat Smart Management

### All the options you need including:

- Private clouds, IBM Power, IBM System Z, and Intel architectures
- IBM Cloud, AWS, and Microsoft
- Management of all the above

To gain flexibility and efficiency, many enterprises are migrating workloads to the public cloud. But not all workloads can be moved to the public cloud because of security, personally identifiable data protection, and monolithic legacy systems that cannot be easily ported. You need the ability to deploy across multiple environments, including on-premise, colocation, and multiple public clouds, depending on their suitability for the workload.

As your organization migrates to a cloud-native architecture and increases the pace and extent of cloud-native development, you might face several challenges:

- Managing on-premise and cloud infrastructure, security, and operations for hybrid IT landscapes diverts resources from innovation and slows software delivery. Creating full-stack automated operations and simplifying life cycle management requires software, tools, and skills that might not be available in-house.
- Red Hat® software platforms on hybrid cloud landscapes offer an environment that helps you modernize IT management and application development so you can provide better performance, security, and availability at scale.

Standardizing on Red Hat's integrated portfolio running on IBM Cloud hybrid landscapes offers a single, stable, and highly reliable foundation for open hybrid cloud infrastructure. The Red Hat portfolio provides fully committed, extended life cycles with predictable CapEx and OpEx. IT organizations benefit from [Red Hat](#) and [IBM](#)'s large certified partner ecosystem, as well as access to a community of experts, knowledge resources, and support tools.

### Build once, deploy anywhere in your hybrid cloud environment

Red Hat OpenShift® automates deployment of containerized applications, supporting leading security, load balancing, and scalability across multiple cloud environments. This allows your teams to build once, deploy anywhere in your hybrid cloud environment.

As you build new or enhance existing applications, you can manage them from a single console using IBM Cloud Satellite. Applications can be managed on Red Hat OpenShift® clusters in IBM Cloud, Amazon Web Services (AWS), Microsoft Azure, Google Cloud, or on-premise.

You can deploy Red Hat OpenShift on hybrid cloud landscapes in a matter of minutes and pay for what you use on an hourly basis. In addition, [IBM Cloud Paks](#) port valuable IBM middleware, multicloud management, data, artificial intelligence (AI) services, and integration functionality to Red Hat OpenShift to help you modernize legacy applications.

IBM and Red Hat offer these capabilities with proven as-a-service security-focused capabilities, like [IBM Hyper Protect Crypto Services](#), and leading automation with Red Hat Ansible® Automation Platform, which includes over 300 modules to support hybrid cloud infrastructures.



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<sup>1</sup>Bartoletti, Dave, and Charlie Dai. "The Forrester Wave: Multicloud Container Development Platforms, Q3 2020." Forrester, Oct. 2020.

### Red Hat hybrid cloud solutions on IBM Cloud

- A hybrid multicloud platform drives 2.5 times more value than a single-cloud approach.<sup>2</sup>
- More than 90% of Fortune 500 companies trust Red Hat.<sup>3</sup>

### Innovate quickly and reduce time to value

Red Hat solutions on IBM systems and on IBM Cloud hybrid landscapes save time and expense with self-service automation that eliminates the effort developers traditionally spend building and maintaining the platform. This allows you to focus on writing code while Red Hat and IBM manage the infrastructure. You can quickly build, test, rollout, scale, and support new features, services, and customer experiences, dramatically reducing release cycles.

### Run more efficiently

Red Hat solutions on IBM systems and on IBM Cloud hybrid landscapes provide advanced tools to reduce cost and minimize downtime, like Ansible Automation Platform, to manage and automate all aspects of your hybrid cloud landscape, from provisioning and scaling to policy enforcement and decommissioning. In addition, with IBM Cloud solutions you pay only for what you use, eliminating the need to keep spare capacity provisioned.

You can protect your workloads from disruption and improve system performance with predictive analytics tools like Red Hat Insights that identify and remediate threats to performance, stability, availability, and security. You can also implement high-availability and disaster-recovery architectures on IBM Cloud hybrid landscapes without building and operating separate datacenter facilities.

### Run anywhere you need to run

Combining bare metal, virtual, private, and public cloud environments into a hybrid cloud on a solid foundation of Red Hat Enterprise Linux® and Red Hat OpenShift allows you to run anywhere you want, in any cloud you want, with the analytics and management you need. It's easy to start and to scale too. IBM Cloud offers Red Hat OpenShift on IBM Cloud, a managed service, giving you speed of adoption, leading security, and enterprise scale. IBM Cloud hybrid landscapes provide a common platform across all of your cloud, on-premise, and edge environments. This lets you skill once, build once, and manage from a single pane of glass. IBM and Red Hat offer a comprehensive and consistent approach to development, security, and operations across hybrid environments.

[Learn more about how you can benefit from a hybrid cloud strategy built on Red Hat solutions on IBM Cloud visit.](#)

<sup>2</sup>The hybrid cloud platform advantage, IBM Institute for Business Value, June 2020.

<sup>3</sup>Client data and Fortune 500 list, Red Hat, June 2020.

### About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with award-winning support, training, and consulting services.



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**Brief** Modernize your infrastructure with hybrid cloud