

# 5 benefits of cloud services for Red Hat Enterprise Linux users

## Deploy innovative cloud-native applications on the software foundation you already trust

For many organizations, [Red Hat® Enterprise Linux®](#) is a key platform for deploying and managing critical workloads across complex IT environments. Building on the trusted foundation of Red Hat Enterprise Linux, [Red Hat OpenShift®](#) offers a logical way forward on your cloud journey, with a familiar DevOps operating platform for orchestrating cloud-native and traditional applications across IT environments.

Red Hat OpenShift is a consistent, comprehensive, and trusted application platform that helps you extend your Red Hat Enterprise Linux software infrastructure to support containerized workloads across on-site, public cloud, and edge infrastructure. Your Red Hat certified professionals and teams can use their existing Linux skills and expertise to speed adoption and shape your organization's container strategy. And [Red Hat OpenShift cloud services](#)—a set of fully managed offerings—streamline operations with preconfigured tools, automated monitoring, and lifecycle management capabilities to help you modernize applications in public cloud environments in less time.

Here are 5 ways that Red Hat OpenShift cloud services help you build, modernize, and deploy applications on Red Hat Enterprise Linux in public cloud environments.

## 1 Build on a proven foundation

Containers rely on the underlying software infrastructure for essential resources and services, making a trusted, proven operating system critical for modern, container-based workloads. Even so, thorough integration between your operating system and container orchestration tools is essential for reliable, efficient container operations.

Red Hat OpenShift is built on the trusted foundation of Red Hat Enterprise Linux. As a result, Red Hat OpenShift inherits the stability, reliability, and scalability that Red Hat Enterprise Linux provides for cloud-native services and technologies. The extensive certified partner ecosystem and security capabilities and certifications of Red Hat Enterprise Linux extend to Red Hat OpenShift, helping you efficiently build and protect innovative applications. And by developing, testing, and versioning Red Hat OpenShift and Red Hat Enterprise Linux together, Red Hat helps ensure reliable, security-focused operations in public cloud environments. Finally, because your teams can continue to use familiar security and stability features and practices, your organization can adopt Red Hat OpenShift cloud services with less effort and in less time.

## 2 Simplify platform management

Modern application platforms include comprehensive toolsets and trusted technologies that are integrated together to deliver a consistent experience across environments. However, managing and maintaining these platforms in public cloud environments can be a challenging, time-consuming process for many IT organizations.

With Red Hat OpenShift cloud services, Red Hat and public cloud providers jointly engineer, manage, and support complete, production-ready application platforms, including hardware, Red Hat Enterprise Linux operating systems, and container orchestration tools. Managed upgrades and patching reduce costly downtime and increase availability of cloud-native applications. Comprehensive threat monitoring and remediation helps protect sensitive workloads and data across your public cloud environment. Expert 24x7 support from Red Hat's [global site reliability engineering \(SRE\) team](#) provides infrastructure reliability and performance for critical applications. And because Red Hat's [award-winning support organization](#) and [product security response teams](#) support both Red Hat Enterprise Linux and Red Hat OpenShift, you benefit from a consistent experience with technical expertise, guidance, and knowledge across your software foundation.

### 3 Boost organizational efficiency

Rapid, consistent delivery of innovative applications and services is essential for meeting evolving business needs. Red Hat OpenShift cloud services have allowed organizations to shorten their development cycle by up to 70%.<sup>1</sup>

Using their existing Red Hat Enterprise Linux skills, IT operations teams can adopt Red Hat OpenShift with less risk and enhance operational efficiency across their organization. Developers can take advantage of the fully managed, integrated, preconfigured tools and familiar, trusted platform of Red Hat OpenShift cloud services to deliver innovative, cloud-native applications in less time. Finally, through Red Hat's [hybrid committed spend \(HCS\) program](#) and public cloud committed spend programs, you can boost the cost efficiency of both Red Hat Enterprise Linux and Red Hat OpenShift cloud services by using your discounts and committed funds.

### 4 Speed application delivery

In addition to their benefits, containers can also bring new challenges, from ensuring infrastructure compatibility to managing complex configurations and implementing robust security policies.

Red Hat OpenShift cloud services simplify container operations with a [DevOps](#) platform for orchestrating both cloud-native and traditional applications across public cloud infrastructure. Fully managed Day 2 operations—including cluster monitoring and

application logging—reduce complexity across your container environment, allowing you to focus on activities that deliver real business value. And with self-service options, preconfigured tools, and automation capabilities like built-in Jenkins pipelines and source-to-image technologies, Red Hat OpenShift cloud services speed development and deployment of modern, container-based applications and workloads.

### 5 Deploy applications anywhere

Designed to run across distributed environments, modern cloud-native applications optimize performance, scalability, and accessibility to deliver exceptional user experiences regardless of location.

Red Hat OpenShift delivers a comprehensive, consistent platform for developing, deploying, maintaining, and scaling applications across hybrid and multicloud resources. It supports a variety of workloads, including modernized container-based workloads, artificial intelligence and machine learning (AI/ML) technologies, virtual machines, and more. Integrated AI/ML technologies like [Red Hat OpenShift AI](#) let you access predictive insights and automate complex tasks across your organization. [Edge computing](#) capabilities help you extend application services to remote locations, analyze data in real time, and deliver high-value user experiences. And with [Red Hat OpenShift Virtualization](#), you can deploy and manage both cloud-native, container-based workloads and traditional applications in virtual machines on a single, comprehensive application platform.

#### Try Red Hat OpenShift cloud services

- ▶ Launch a free trial of [Red Hat OpenShift Service on AWS](#).
- ▶ Discover the [Microsoft Azure Red Hat OpenShift](#) learning hub.

#### Learn more about Red Hat OpenShift

- ▶ Explore [Red Hat OpenShift cloud services](#) in your preferred cloud environment.
- ▶ [Talk to a Red Hatter](#).

<sup>1</sup> Forrester Consulting study, commissioned by Red Hat. "The Total Economic Impact™ Of Red Hat OpenShift Cloud Services," February 2024. Results are for a composite organization based on interviewed customers.



#### 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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