

App

Gain efficiencies

with **app development** partners

Dev



Red Hat

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is now an imperative

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Rapid app development is now an imperative

57%

of business and services will be delivered using digital infrastructure.¹

In the digital world, an organization's ability to win, serve, and retain customers depends on how well it delivers new capabilities through software applications, rapidly and continuously. In fact, IDC expects that by 2025, 57% of business and services will be delivered using digital infrastructure. Additionally, an overwhelming majority of organizations are using or evaluating the use of containers and microservices to support future application development activities.¹

Modern organizations seek to develop high-quality applications that keep pace with changing customer expectations, faster and more securely. To be successful, their developer and operations teams need new ways to build, deploy, and run innovative, differentiated applications with consistent quality and performance at any scale and on any public, private, or hybrid cloud.

Access to a qualified ecosystem of [app development \(AppDev\) partner tools and technology](#) can help you increase speed and productivity of application development, support cloud-native development tools and processes, and improve service quality while reducing risk.

¹ IDC Technology Spotlight, sponsored by Red Hat, "Digital Business Success Depends on Effective Multicloud Kubernetes Management", Doc#US47479221, Feb. 2021.

Overcoming challenges to accelerating app development

As demand for new functions grows, often faster than existing development processes, you need a platform, methods, application services, and tools that help your organization keep pace without forcing you to abandon existing applications that your customers depend on.



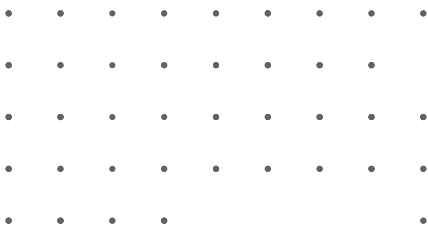
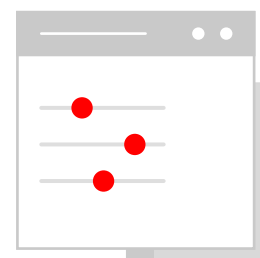
With cloud-native apps, development languages or frameworks can be tailored to the specific business need.

Application development challenges

To keep up with demand for new capabilities, many organizations are adopting containers and a cloud-native approach to app development.

And to manage the resulting increase in complexity and application diversity, you need a container-based application platform that supports the right mix of frameworks, languages, and architectures to support cloud-native development.

Kubernetes, the leading container orchestration platform, is a logical solution, but there are challenges that can arise along the way.



Adopting Kubernetes, the leading container orchestration platform, is a logical solution, but there are challenges that can arise along the way:

- **Complexity.**

Kubernetes can be complex and time-consuming to manage.

- **New integrations.**

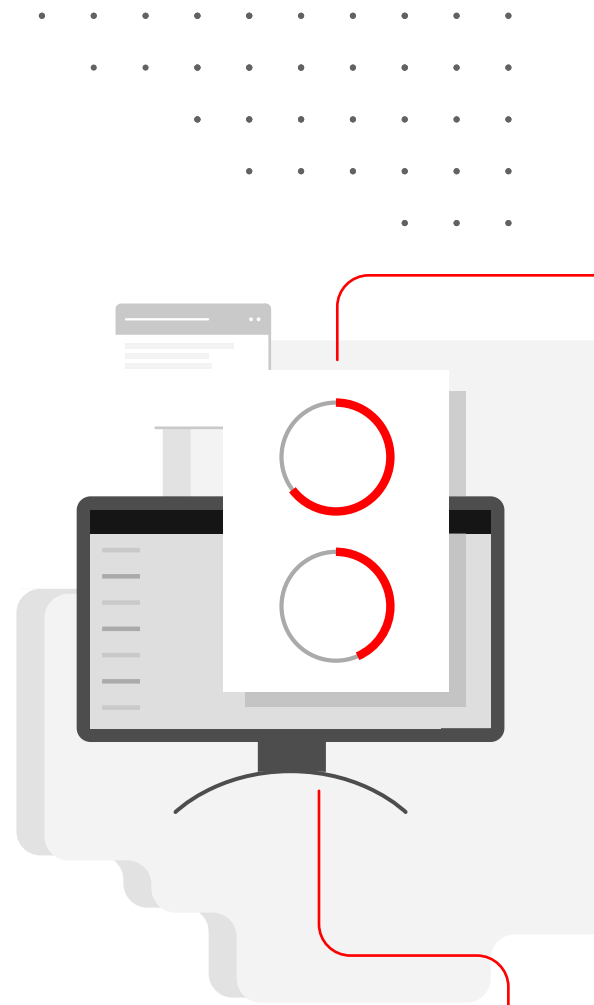
Even with Kubernetes, users need to integrate developer tools and other components that handle networking, ingress and load balancing, storage, monitoring, logging, and more.

- **Support.**

Adopting containers and a cloud-native approach to application development is advantageous in many ways, but to do so effectively, trusted service and support is crucial.

- **Overburdened application development teams.**

As your organization builds and deploys new applications, developer and operations teams need added security, throughput controls, monitoring, and service-level agreement (SLA) management features, which can all limit a developer's time for innovation.



Red Hat offers platforms that include functionality that allows organizations to begin working with containerized applications as soon as their cluster is up and running. However, no one company can provide industry-leading solutions for every aspect of running cloud-native

applications in production. The need for trusted, interoperable solutions is where the Red Hat® ecosystem of certified partners provides real business value.



Application development on a Red Hat foundation

To stay competitive and keep pace with the demand for new digital capabilities, your organization needs application development solutions that give you agility and choice. Choose platforms, application services, and development tools that allow you to innovate faster while managing and modernizing existing applications.

Ready-to-accelerate assessment

Find out about how well your company is poised to embrace the future.

[Take the assessment](#)

Red Hat Marketplace

is a single source to access no-cost trials of certified software, as well as purchase and manage certified OpenShift operators. Red Hat Marketplace offers responsive support, streamlined billing and contracting, simplified governance, and a single dashboard for improved visibility across cloud environments.

[Explore Red Hat Marketplace →](#)

Red Hat OpenShift® is an enterprise Kubernetes platform with capabilities to support a DevOps approach to application development in hybrid cloud environments. This platform helps you to build, deploy, manage, and scale traditional or cloud-native applications in a consistent way across any environment—including datacenter, private cloud, public cloud, or edge environments.

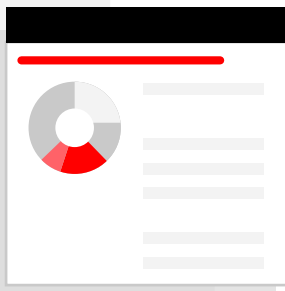
[Try it now →](#)

Red Hat Application Services is a portfolio of products that can help your organization create a unified environment for application development, delivery, integration, and automation. These products include comprehensive frameworks, integration solutions, process automation technologies, runtimes, and programming languages.

[Learn how to create a connected and flexible application environment →](#)

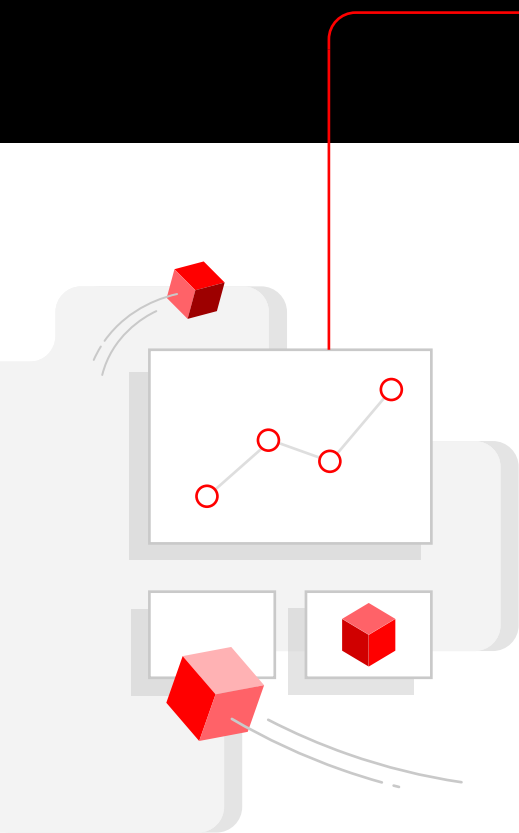
Red Hat Ansible® Automation Platform is a foundation for building and operating enterprise-wide automation. This platform allows you to move software between testing and production environments more quickly by automating processes. This leads to repeatable and reliable deployments across the software delivery cycle, enabling DevOps and managing your [continuous integration, continuous delivery \(CI/CD\) pipeline](#).

[Read more about streamlining CI/CD pipelines with automation →](#)



Red Hat's partner strategy

strategy



Red Hat brings together an ecosystem of AppDev partners, extensive expertise, and innovative platforms for building, providing security for, and deploying applications across hybrid cloud environments. This combination helps you build new applications, modernize existing ones, and migrate applications to public or private cloud, hybrid cloud, and multicloud environments.

Why taking advantage of an AppDev ecosystem matters

As demand for new functions steadily increases, development processes can struggle to keep up with business needs and customer demands. To stay competitive, your organization needs a platform, methods, application services, and tools that can keep pace without having to abandon or completely replace the critical applications your business depends on. Adopting containers and a cloud-native approach to applications can be a solution.

When building cloud-native applications, development languages or frameworks can be tailored to your specific business needs. To manage the resulting increase in complexity and application diversity, you need a container-based application platform that supports the right mix of frameworks, languages, and architectures.

As demand for new functions steadily increases, development processes can struggle to keep up with business needs and customer demands.





As the leading container orchestration platform, Kubernetes is a preferred cloud-native solution for many—but operating the platform is time-consuming. And while Kubernetes offers extensive capabilities, users still need to integrate other components like networking, ingress and load balancing, storage, monitoring, logging, developer tools, and more.

For example, open source products that provide out-of-the-box monitoring and reporting have limitations when it comes to alerting, scalability, and creating a holistic view across all aspects of the platform. Red Hat relies on its partner ecosystem to provide innovative and interoperable solutions to fill these gaps.

Red Hat's AppDev partner ecosystem can help you:

Innovate faster and accelerate time to market

Increase agility, flexibility, and productivity

Scale to meet demand without sacrificing reliability or security

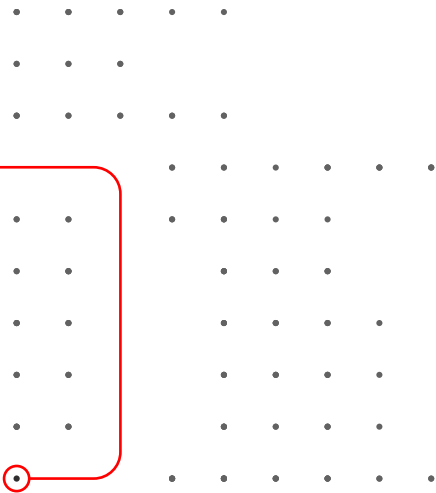
Together, we connect you with the tools and technology that suit your needs.

With Red Hat certified technology partners, you gain:

- The flexibility you need to deploy applications across any environment.
- Confidence that your workloads are more secure and supported.
- Methods you need to increase productivity and build higher quality applications at scale, without sacrificing speed or reliability.

Gain flexibility and reliability with a certified partner ecosystem

reliability

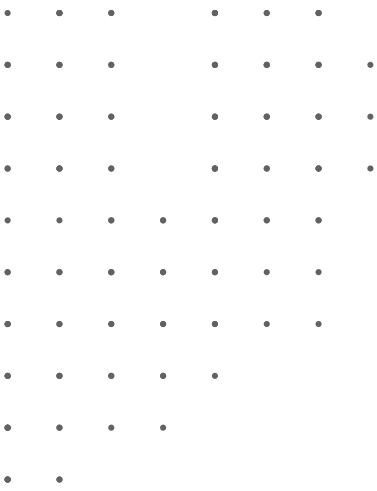


As organizations continue to build, modernize, and move their applications to cloud, hybrid, and multicloud environments, it's rare that one vendor can provide everything needed to support an entire application life cycle, including development, testing, deployment, management, and monitoring. These organizations are implementing modern processes and

technologies, like DevOps, to support rapid development and deployment of high-quality software. As a result, their developer and operations teams are increasingly unlikely to have all their needs met by a single vendor.

Red Hat works closely with [a robust ecosystem of AppDev partners](#) to empower DevOps teams with application and infrastructure services that are designed to work together, allowing organizations to innovate rapidly and safely with consistent quality and performance.





By using Red Hat solutions, your organization can gain the flexibility to choose the partners, products, and technologies that best fit your needs. With the assurance of expert services and support, you can accelerate application development and deployment.

Red Hat AppDev partner ecosystem benefits include:

Weave security throughout the application life cycle

As you weave security technologies and processes throughout development, testing, deployment, and production operations, consider that security needs to be part of every stage. Multiple tools are needed to address a full set of security requirements, integrated into your platforms—as well as each other. Red Hat has extensive experience delivering reliable platforms focused on increasing security at every level of the application stack. Through the open nature of these platforms, Red Hat and its partners offer integrated security solutions to address the entire application life cycle through a comprehensive view of DevSecOps. In this ecosystem, you can find ways to address the security requirements identified in the Red Hat DevSecOps security framework.

Flexibility

Gain the flexibility needed to deploy applications across any environment.

Faster innovation

Reduce time to market for new applications by streamlining processes and allowing more time for innovation.

Services

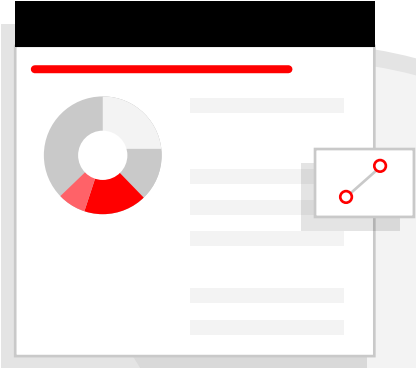
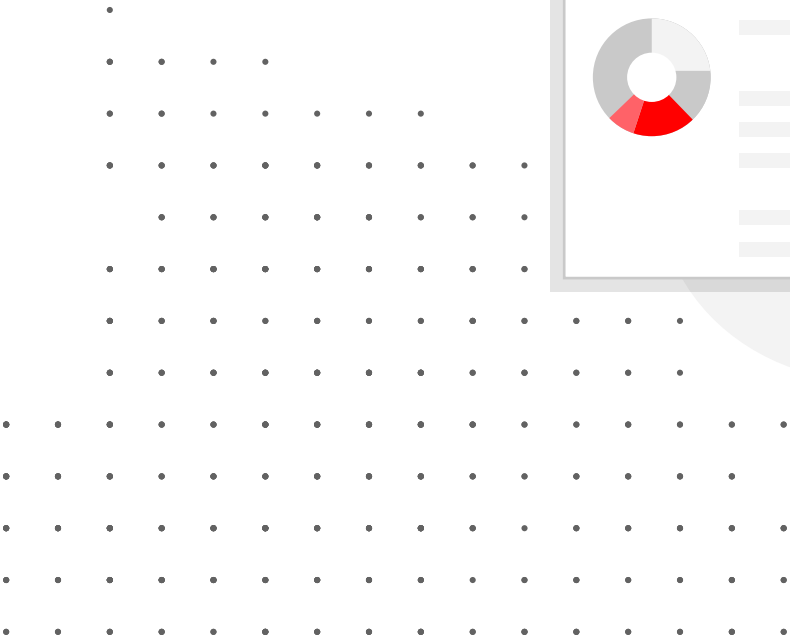
Use application services, methods, and tools to increase productivity and build higher quality applications at scale.

Consistency

Deploy consistently across multiple clouds and on-premise, increasing agility, scalability, and efficiency.

Certification

Build applications with confidence knowing that workloads have security and support that deliver better availability and performance.

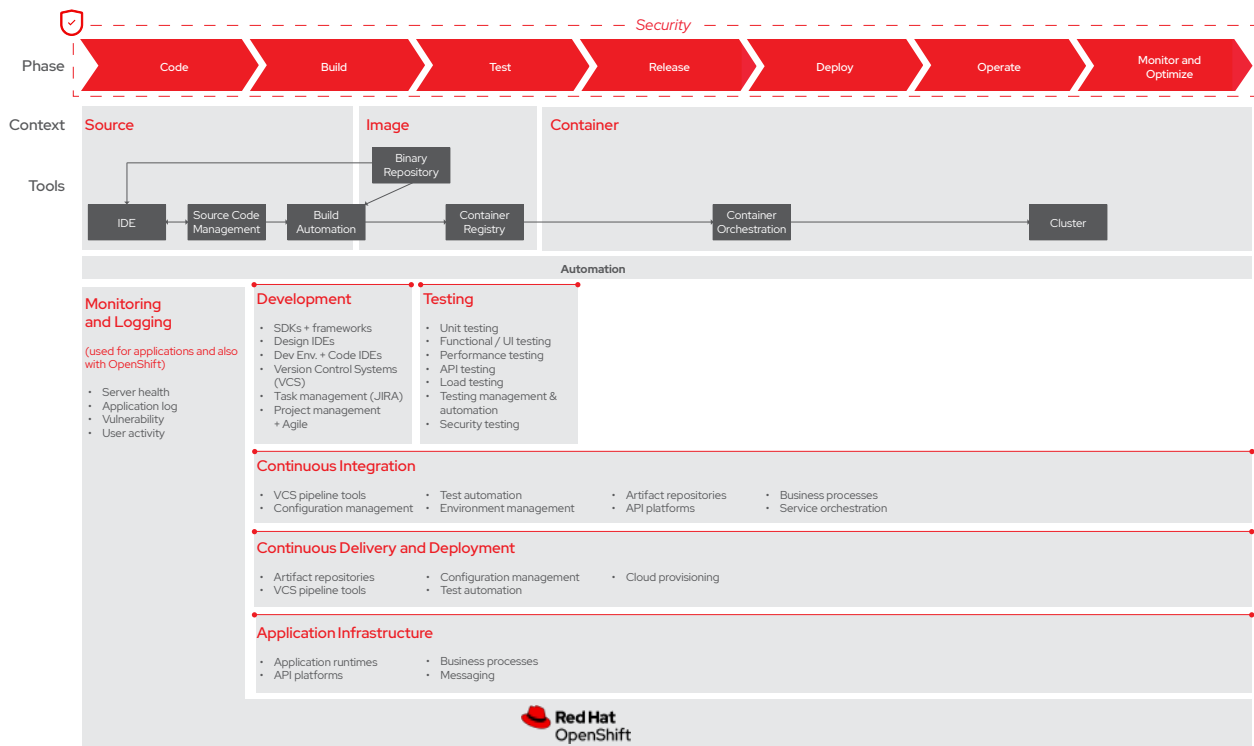


Red Hat's partner ecosystem landscape

Red Hat has extensive experience working with organizations to build platforms that equip their teams to increase the speed and productivity of application development.

The Red Hat DevSecOps framework for application development and delivery

Together with our ecosystem of AppDev partners, Red Hat provides a framework that supports end-to-end application development. This graphic maps a comprehensive set of tools, methods, and solutions available from our ecosystem partners.



DevSecOps framework for application development and delivery

Red Hat AppDev ecosystem features

Monitoring and logging

Application performance monitoring (APM) and logging technologies help developers, IT operations, site reliability engineers (SREs), and others gain insights into the health, security, performance, and resource utilization of their systems and applications. These technologies ensure that applications are running efficiently and provide valuable information about application use that can be incorporated back into the development life cycle to make product improvements.

Development

Red Hat and our partners provide tools, technologies, and environments that help developer teams apply data on parameters, specification, and requirements to create code or services that can be tested for performance in production.

Testing

Testing is a critical stage in the development process. At this point teams can make sure they are building applications that perform in a way that meet the business needs and meet the functionality, security, reliability, maintainability, interoperability, and performance requirements needed.

Continuous integration

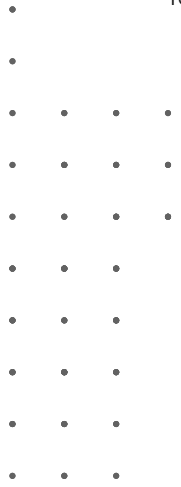
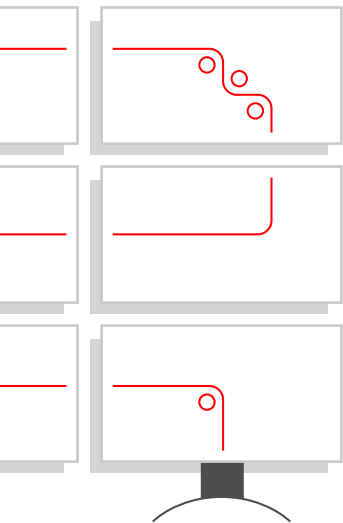
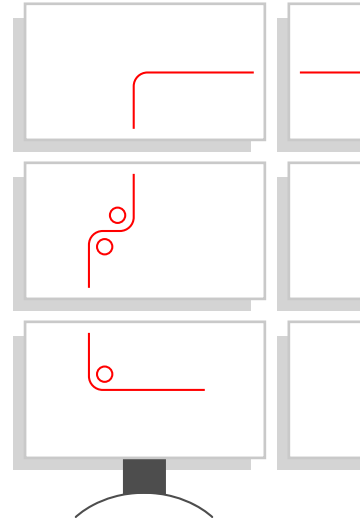
The first step in achieving continuous delivery (CD) is to support continuous integration (CI). CI systems are build systems that monitor various source control repositories for changes, run any applicable tests, and automatically build the latest version of the application from each source control change.

Continuous delivery and deployment

With the right tools and technologies, you can reduce the risk of software releases and build an environment for experimentation with controlled outcomes. At the same time, your DevOps teams can ensure zero downtime in production, while the application remains available to users.

Application infrastructure

Application infrastructure includes all of the computational and operational infrastructure and components that are necessary to govern the development, deployment, and management of enterprise applications, including development and runtime enablers.



Partner highlight



Dynatrace allows customers to transform faster with automatic and intelligent observability at scale for cloud native workloads and enterprise applications. Dynatrace is the only full-stack monitoring platform that is container-aware and comes with built-in monitoring support for Kubernetes and Red Hat OpenShift via the OneAgent Operator.

Product components, capabilities, and benefits

OneAgent:

Continuous, automatic discovery and observability across your entire application stack

PurePath:

Distributed tracing and visibility down to code-level

Smartscape:

Automatic, real-time topology mapping with context

Davis AI, including AIOps:

Explainable answers that inform self-healing and automation

Hyperscale:

Scalable across hundreds and thousands of hosts, millions of entities, and the largest multiclouds

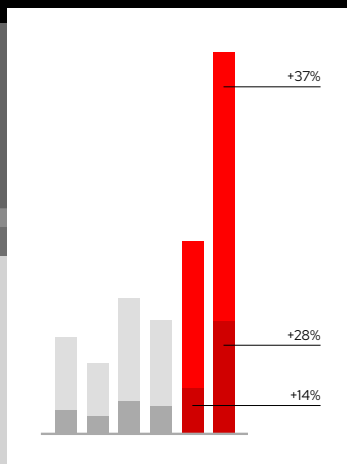
Together, Red Hat OpenShift and Dynatrace OneAgent Operator provide:

Get a no-cost trial and learn more.

[Learn more](#)

- **Digital experience management.**
Ensure user satisfaction through the monitoring of all transactions, end to end.
- **Cloud, container, and infrastructure monitoring.**
Use automated monitoring of your entire stack and dynamic containerized applications, across datacenters.
- **Business and performance analytics.**
Access deep insights and analysis of the performance of your business applications.
- **Application monitoring and performance life cycle management**
Gain code-level insight and track all transactions across all tiers with no gaps in visibility.

[Explore certified container images →](#)

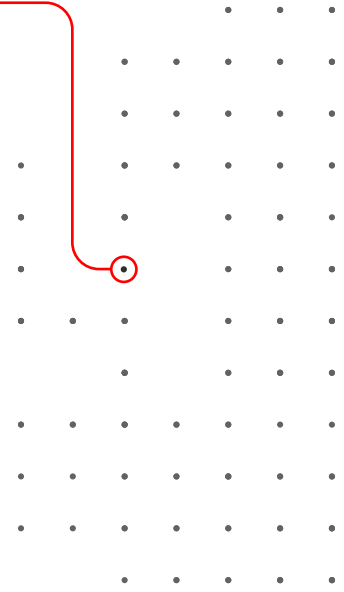


Partner highlight



Designed to unify the entire DevOps life cycle, the GitLab platform comes with built-in security and compliance, providing you with end-to-end insight and visibility into your DevOps workflows.

For developer and operations teams looking to adopt modern DevOps best practices, Red Hat and GitLab together offer speed, scale, and security, bringing together cloud-native CI/CD software tools and an industry-leading Kubernetes application platform. Red Hat-IBM has been named a leader in multicloud container development platforms and “offers the leading platform for both developers and operators.”²



Product benefits

Increase operational efficiency

A multicloud strategy with workflow portability, along with unified toolchains for DevOps at scale, increases operational efficiencies and simplifies building cloud native applications.

Deliver better products faster

A complete DevOps platform in a single application gives DevOps teams integrated and automated cloud native development tools to more securely release a full software build in minutes.

Reduce security and compliance risk

With GitLab DevSecOps, security is introduced into the development process earlier, supporting the assessment and mitigation of risk before it becomes critical to your business.

Together, Red Hat and GitLab provide:

- Faster delivery of new services and applications.
- Reduced risk of security and compliance issues within the DevOps pipeline.
- Greater innovation from improved collaboration and faster production.
- Increased business value and responsiveness through rapid, high-quality service delivery.
- Consistent capabilities for deployment across all cloud providers and on-premise.
- Alignment with foundational values of DevOps culture: openness, collaboration, and agility.

[Explore certified container images](#) →

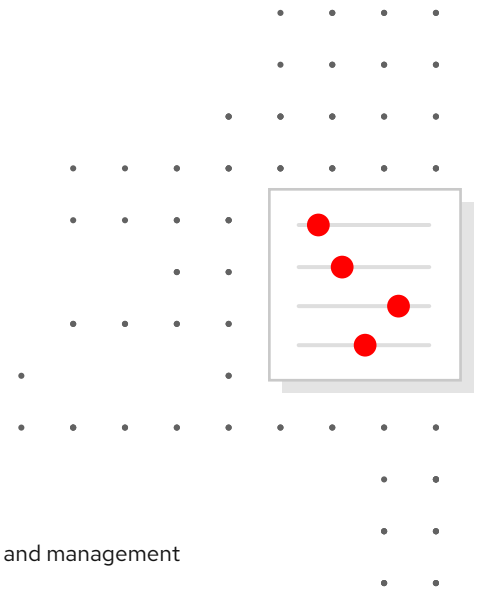
² Forrester Research. “[The Forrester Wave: Multicloud container development platforms Q3 2020 report](#),” 15 September 2020.

Partner highlight



JFrog provides an end-to-end, hybrid, security-focused, and universal DevOps platform for continuous delivery of software updates and simplified integration into your DevOps ecosystem and Red Hat Openshift certification.

Together with Red Hat, the JFrog Platform provides Red Hat OpenShift operators for Artifactory and Xray to support deployment and management of these core platform components in high availability mode on Red Hat OpenShift and Kubernetes clusters, with correct security policies, storage, and service endpoints.



Product benefits

The JFrog Platform unifies the user experience and management of all the JFrog services into a single console.

Scale with ease

JFrog Artifactory Enterprise on Red Hat OpenShift allows you to develop, deploy, and manage new and existing applications across physical, virtual, or public cloud infrastructures.

Focus on building

Gain centralized control to manage how binaries are stored and managed throughout the software release cycle. Allow developers to focus on what they do best: building great applications.

Security and compliance

Support all major package types, and container images, and use recursive scanning to see into all of the underlying layers and dependencies. The JFrog Platform is scalable for multiple projects, saving on cost of ownership.

Red Hat and JFrog Platform improves productivity across your development pipeline:



- **Inner source hub.**
Provide permissioned access to approved development artifacts that are shared across global departments and teams.
- **Kubernetes registry.**
Store and manage all of your container application images, deploy to Kubernetes, and setup a build, test, and deploy life cycle to deliver applications quickly and predictably.
- **End-to-end automation.**
Master the entire CI/CD pipeline from code to production.
- **Fast, safe delivery.**
Bundle application services assigned packages and distribute them to edge nodes with improved security.

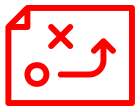
[Explore certified container images →](#)

Get started with Red Hat certified AppDev partners

Accelerating the development and deployment of innovative applications is essential for organizations creating,

innovating, and differentiating their digital business. Gaining the flexibility to choose the trusted software you need when you need it can help you build high-quality applications more rapidly.

Red Hat's AppDev partners provide trusted solutions with leading cloud-native standards that help DevOps teams spend more time building applications and less time worrying about infrastructure and configuration.



Choose

from a variety of certified, industry-leading tools and technologies to meet your needs now and in the future.



Build

innovative, high-quality applications faster and more securely.



Modernize

with flexibility and agility to build and run applications in any cloud environment.

Discover more about Red Hat's AppDev partner ecosystem.

[Discover more](#)