



# Build a best-in-class cloud-native stack with Red Hat and Nutanix

Learn to Efficiently build, scale, and manage cloud-native applications.

 **Red Hat** | 

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Red Hat OpenShift: A platform for innovation

- Accelerate application development by 33%
- Achieve 636% return on Investment (ROI) over 5 years
- Deliver close to 3 times more features to customers
- Improve DevOps and development team productivity by 20%

**Experience best-in-class hybrid cloud capabilities with Red Hat and Nutanix**

As organizations seek to adopt cloud-native technologies and deploy containerized applications at scale, they run into significant challenges with building a hybrid cloud-ready Kubernetes stack on-premise. This often makes desired business agility and speed-to-market gains difficult to attain.

Often, cloud-native infrastructure solutions do not offer the scalability and resilience that an enterprise Kubernetes platform demands, nor do they efficiently integrate key infrastructure layers or simplify life cycle management and developer tooling. Given the complex challenges involved with operationalizing an enterprise Kubernetes environment, these enterprises need infrastructure solutions that are vendor-certified and jointly supported.

**A full-stack enterprise solution: Red Hat OpenShift and Nutanix Cloud Platform**

Red Hat and Nutanix's strategic partnership offers enterprise customers a best-in-class solution for building, scaling, and managing cloud-native applications on-premise and in hybrid cloud environments. This certified and jointly-supported solution features Red Hat OpenShift—the industry leading enterprise Kubernetes platform, built for hybrid cloud—powered by the Nutanix Cloud Platform. Nutanix's hyperconverged infrastructure (HCI) efficiently integrates its AHV hypervisor (certified for Red Hat Enterprise Linux\*) with feature-rich data services.

Red Hat OpenShift on Nutanix Cloud Platform provides a resilient and scalable infrastructure and a cloud-native application platform, allowing organizations to deliver innovative solutions, gain competitive advantage, and meet customer expectations.

**Customer benefits**

Best-in-class infrastructure stack for virtual and cloud-native enterprise applications. The certification of Nutanix AHV for Red Hat Enterprise Linux and Red Hat OpenShift offers enterprise customers a simplified full-stack solution—from hyperconverged infrastructure to a cloud-native application platform—to help meet the needs of various workloads and use cases.

Powering innovation now and for the future. Organizations will benefit from joint roadmap planning and delivery across both Red Hat and Nutanix, ensuring the delivery of new capabilities that provide business value.

Reduced risk through combined support. Customers needing technical support will benefit from the combined expertise of the Red Hat and Nutanix global support teams.

**Nutanix Cloud Platform: Infrastructure built for cloud-native applications**

Based on the industry-leading hyperconverged infrastructure (HCI) that Nutanix pioneered, the Nutanix Cloud Platform is an ideal infrastructure choice for Kubernetes and enterprise hybrid cloud platforms like Red Hat OpenShift. Nutanix HCI is built to handle the changing demands of web-scale

1 IDC White Paper, sponsored by Red Hat. "The Business Value of Red Hat OpenShift." Document #US47539121, March 2021.

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“We are thrilled to see two of our technology partners announce this strategic relationship. As we manage the complexities of hybrid cloud, we believe this relationship will unlock new hosting and deployment options for VM and container-based workloads. These new options will support our goals of being fast, efficient and friction-free as we deliver new experiences to our customers.”<sup>2</sup>

**Ritch Houdek**

Senior Vice President, Technology,  
Kohl's

containerized applications. Performance and capacity scale linearly, allowing the infrastructure to support enterprise cloud-native workloads. HCI is resilient from the ground up; nodes are self-healing and upgrade without disrupting application performance.

The Nutanix Cloud Platform also integrates a complete set of data services to handle the demands of stateful virtualized and containerized applications. Nutanix’s full-featured container storage interface (CSI) deploys with every Kubernetes cluster and simplifies integration with Nutanix Files (simple, flexible, and intelligent file storage) and Nutanix Volumes (block storage with built-in space efficiency). In addition, for workloads requiring object storage, Nutanix Objects provide a simple, scalable, and security-focused storage tier that is Amazon Simple Storage Service (S3)-compatible.

For configuring and managing enterprise applications that require databases, Nutanix Era offers administrators a simple and effective means of deploying highly available databases and managing them via a single control plane across public, private, and hybrid cloud deployments. Databases can be run in virtual machines (VMs) and efficiently consumed by workloads running on Red Hat OpenShift.

The Nutanix Cloud Platform is a benchmark for simplicity that helps customers streamline their Day 1 and Day 2 operations, support enterprise workloads at scale, and fulfill the resources and services needs of software developers.

### Red Hat OpenShift: An industry-leading hybrid cloud platform

Red Hat OpenShift gives organizations a single platform for application innovation that lets them operate consistently and innovate continuously. It allows applications to span every cloud so that organizations can build what they need today and for the future.

Red Hat OpenShift runs on Red Hat Enterprise Linux and offers over-the-air updates, container runtimes, networking, ingress, monitoring, logging, container registry, and authentication and authorization solutions. These components are tested together for unified operations on a complete Kubernetes platform spanning every cloud.

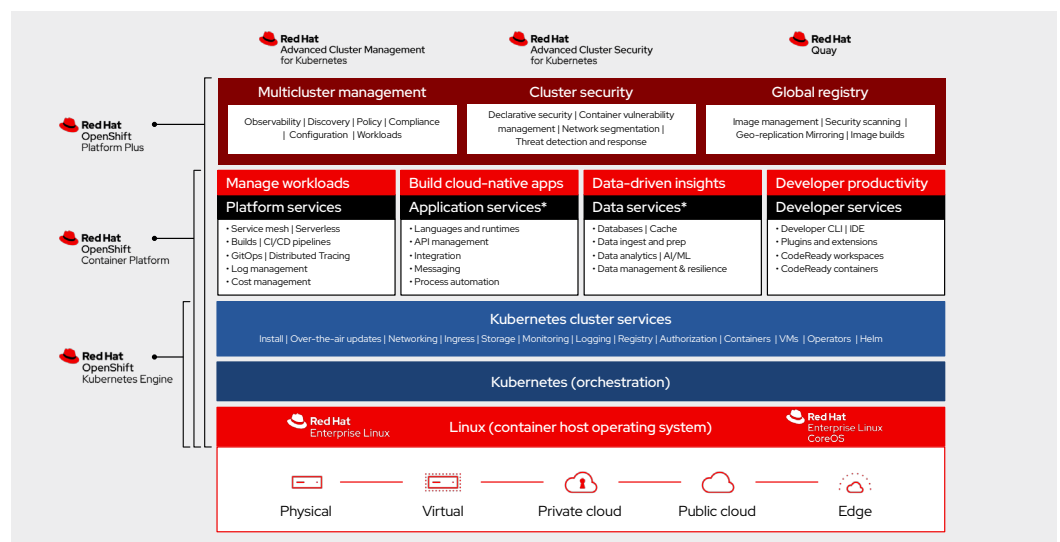


Figure 1. Red Hat OpenShift® includes supported runtimes for popular languages, frameworks, and databases. Additional capabilities listed are from Red Hat Application Services and Red Hat Data Services portfolios.

<sup>2</sup> Red Hat press release. “Red Hat and Nutanix Announce Strategic Partnership to Deliver Open Hybrid Multicloud Solutions.” 29 July 2021.

“The insurance industry is in the midst of a transformation to rapidly adapt to customers’ demands. We protect 39 million lives around the world with our products and services. As we work to modernize our IT infrastructure to support a seamless digital experience for our customers and employees, Nutanix and Red Hat help simplify our technology stack and advance our cloud transformation.”<sup>2</sup>

**Gautam Roy**  
Chief Technology Officer,  
Unum



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### Simple, reliable installation

Customers can install Red Hat OpenShift on Nutanix Cloud Platform using the [agnostic installer](#) that allows customers to take advantage of all features included in Red Hat OpenShift, from networking and over-the-air updates to Red Hat OpenShift Service Mesh and Red Hat OpenShift Serverless capabilities, simplifying installations and accelerating time to value.

### Fully certified and jointly supported

As a Red Hat certified hypervisor, Nutanix AHV offers a simplified full-stack solution for containerized and virtualized cloud-native applications. Red Hat and Nutanix offer joint support to deliver a consistent experience and interoperability of Red Hat Enterprise Linux and Red Hat OpenShift on Nutanix Cloud Platform. This certification provides customers with a resilient and scalable data infrastructure, as many organizations seek innovative and modern cloud-native technologies.

### Learn More

Together, Red Hat and Nutanix help organizations along their hybrid cloud journeys to more efficiently build, scale, and manage cloud-native applications. Learn more about [Red Hat OpenShift](#) and [Nutanix](#) or:

- ▶ [Get started](#) with Nutanix HCI.
- ▶ Try [Red Hat OpenShift](#).

### About Red Hat

Red Hat is the world’s leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. [A trusted adviser to the Fortune 500](#), Red Hat provides [award-winning](#) support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organizations grow, transform, and prepare for the digital future.

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