Simplify modern IT infrastructure

Red Hat and Nutanix help scale and manage

The challenges of modern IT infrastructure

Organizations around the world increasingly use technology solutions to accelerate their business agility and speed to market. They often do so while relying on outdated infrastructure or applications that are not easily replaced, which leads to significant complexity and risk.

As organizations work toward modernization, they are tasked with addressing these challenges, including:

▸ Adopting cloud-native technologies and deploying containerized applications at scale, resulting in hybrid, multicloud infrastructure that is complex to manage.

▸ Automating traditional infrastructure components used as physical, virtual, or containerized deployments.

▸ Extending platforms and applications to the edge of the network, where hyperscaler solutions are more limited.

▸ Supporting an ever-growing diversity of workloads with consistency and flexibility across infrastructures.

To scale and meet rising customer expectations, organizations require self-service, elastic cloud infrastructure, and policy-based resource allocation to accommodate the demands of traditional and cloud-native applications.

Given the complexity of automating and operationalizing modern IT infrastructure across multiple environments, these organizations need full-stack infrastructure solutions that are vendor-certified, jointly supported, robust, and forward-thinking.

A unified cloud stack and operational framework from Red Hat and Nutanix

A strategic partnership between Red Hat and Nutanix provides organizations with a hybrid cloud experience powered by the Nutanix Cloud Platform™ software, certified and jointly supported with Red Hat® product offerings, including Red Hat Enterprise Linux®, Red Hat OpenShift®, and Red Hat Ansible® Automation Platform.

With the pre-integrated infrastructure stack for virtualized and cloud-native applications provided by Red Hat and Nutanix, organizations can rely on joint support, roadmap planning, testing, certification, and delivery. They can benefit from greater choice, more flexibility, less risk, and the consistency needed for enterprise organizations to achieve their goals, including:

▸ Expanding the usage of existing investments.

▸ Modernizing with a hybrid cloud strategy.

- Improving time-to-business value.

- Growing their business.

There are common challenges that organizations need to address and overcome to deliver these goals. By using Nutanix and Red Hat together, organizations can address those challenges by:

- Fulfilling the compute and data storage needs of critical applications.

- Reducing time to market.

- Delivering better return on investment (ROI).

- Addressing the surging needs of edge computing.

Support the most data critical applications

Organizations using outdated infrastructure face many challenges, including added complexity, cost, and inflexibility.

Among the most common challenges of managing modern IT infrastructure is the persistent storage needs of Kubernetes deployments.

To address this challenge, Nutanix's hyperconverged infrastructure (HCI) allows customers to store persistent data for containerized applications reliably using software-defined file, block, and object storage. This solution helps organizations unlock new hosting and deployment options for their containers and virtual machines.

With an infrastructure stack designed for virtualized and cloud-native applications, Red Hat and Nutanix provide the consistency, simplicity, and resiliency needed for enterprises to maximize their existing investments, modernize, and grow.

Improve time-to-business value

As enterprise organizations continue to accelerate their application development—and IDC predicting that 750 million new logical applications will be launched by 2025—improving time-to-business value is more important every year.

HCI from Nutanix and Red Hat OpenShift, supported by Red Hat OpenShift Container Platform, Red Hat Enterprise Linux, and Red Hat Ansible Automation Platform, lets customers accelerate the process of turning an idea into business value through the deployment of a packaged, fully integrated solution for all their cloud-native applications.

Together, Nutanix and Red Hat support customers in creating efficient and manageable hybrid cloud environments in less time as they deliver new applications and experiences to their customers.

Maximize ROI

Through the Red Hat and Nutanix partnership, customers gain the full-stack offering. This offering provides more flexibility by simplifying how containerized workloads are deployed, using virtualization and container technologies instead of a complex layer of the IT stack that is deployed and managed separately.

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[1] IDC White Paper, "750 Million New Logical Applications: More Background.", #US48441921, December 2021.

By streamlining operations using Nutanix AHV® virtualization with Red Hat OpenShift—a trusted, integrated virtualization and container solution—customers can scale their infrastructure without worrying about per-container or per-virtual-machine licensing.

With the flexibility provided by this offering, Red Hat and Nutanix customers gain control over costs that they need to maximize their ROI.

Address the growing needs of edge infrastructure

As more and more IT infrastructure is deployed at the edge of the network, enterprises need a solution stack that lets them manage those edge environments without needing to deploy specialist skill sets typically unavailable at edge sites.

Organizations that have the flexibility to place applications where they make most sense for their business—including on-premise, in a public cloud environment, a hybrid cloud operational model, or all the way to the edge of the network—while taking advantage of the edge data feeds, can quickly adapt to evolving customer needs, capture new opportunities, and develop differentiated offerings.

Learn more about Red Hat and Nutanix

Learn more about the certified and jointly supported solution from Red Hat and Nutanix and how it can increase your business agility and speed to market.

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.

About Nutanix

Nutanix is a global leader in cloud software and a pioneer in hyperconverged infrastructure solutions, making clouds invisible, freeing customers to focus on their business outcomes. Organizations around the world use Nutanix software to leverage a single platform to manage any app at any location for their hybrid multicloud environments. To learn more, please visit www.nutanix.com.

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