

# Focus on cloud initiatives with Red Hat and Microsoft




Gain access to expertise, support, resources, and more with Red Hat Enterprise Linux on Microsoft Azure



## The business value of Red Hat Enterprise Linux

Compared to unpaid alternatives like CentOS Linux, Red Hat Enterprise Linux helps your teams get more done, faster, no matter where they work:<sup>2</sup>

- ▶ **32%** more efficient IT infrastructure teams
- ▶ **42%** faster identification of security risks
- ▶ **23%** faster development life cycles for new applications
- ▶ **72%** less unplanned downtime
- ▶ **24%** lower 3-year cost of operations
- ▶ **\$17.31 million** average higher net revenue per year per organization

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## Deploy an operating system that supports your business goals in the cloud

Across industries, organizations are moving to the cloud to achieve digital business goals. In fact, 72% of organizations have a hybrid cloud strategy in place, and 50% of enterprise workloads run in a public cloud today.<sup>1</sup>

Your choice of operating system and cloud provider are strategic decisions. Your operating system forms the foundation for your entire environment security, management, portability, and life cycle planning start with the operating system. And your ability to scale flexibly, maintain availability, and deliver resilient services is greatly influenced by your cloud provider.

Standardizing on a single operating foundation across your datacenter and cloud environments can greatly simplify your path to the cloud. Rather than splitting operations and management into multiple domains, your teams can use a single set of tools and platforms to deploy, run, secure, and move applications and workloads across multiple footprints.

Even so, not all combinations of operating systems and cloud providers offer the features, capabilities, and resources needed to operate effectively and efficiently in hybrid cloud environments. Consistency, security, manageability, interoperability, and support across your entire environment are critical.

Combining [Red Hat® Enterprise Linux®](#) with [Microsoft Azure](#) delivers more value for your organization, providing a flexible, production-grade foundation for open hybrid cloud environments. The cloud-ready, security-focused operating system provides a consistent, tailored experience across footprints, while sustainable, trusted cloud infrastructure gives you global capacity, reliable operations, and innovative services. Standardizing on Red Hat Enterprise Linux for both datacenter and Microsoft Azure environments can help you improve productivity, security, and operations as you adapt to a more digital world.

No matter where you are in your cloud journey, Red Hat and Microsoft can help you gain control of hybrid cloud complexity. Red Hat Enterprise Linux on Microsoft Azure gives you access to:

- ▶ Flexible consumption models and purchasing options.
- ▶ Integrated, enterprise-grade support and expertise.
- ▶ Proactive analytics and management tools and services.
- ▶ Security certifications, tools, and resources.

<sup>1</sup> Flexera. "[Flexera 2023 State of the Cloud Report](#)," March 2023.

<sup>2</sup> IDC White Paper, sponsored by Red Hat. "[The Business Value of Red Hat Solutions Versus Non-Paid Open Source Alternatives](#)," March 2023. Document #US50423523.



### Take advantage of our long-standing partnership

Red Hat and Microsoft are industry leaders with extensive experience in building, deploying, and supporting enterprise-grade hybrid cloud technologies. Through long-standing collaboration, we empower organizations with integrated solutions, unified management, and interoperable capabilities.

Learn more about our [collaborative partnership](#).



### Activate Red Hat Insights to gain benefits today

Realize the benefits of Red Hat Insights now. Go to [console.redhat.com](https://console.redhat.com) and [register your systems](#) to get started with these no-cost services today.

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- ▶ Developer-friendly tools and programs.
- ▶ Optimized offerings for Microsoft SQL Server and SAP deployments.

### Choose how you want to purchase, consume, and deploy Red Hat Enterprise Linux

Red Hat solutions are designed for hybrid cloud environments—you can deploy Red Hat Enterprise Linux wherever it makes the most sense. Red Hat and Microsoft offer multiple purchasing options to align with your organization's procurement processes:

- ▶ Purchase subscriptions from Red Hat and use them on site or on Microsoft Azure via [Red Hat Cloud Access](#).
- ▶ Obtain Red Hat Enterprise Linux instances from the [Azure Marketplace](#).
- ▶ Use your Microsoft Azure Consumption Commitment (MACC) and [Azure Hybrid Benefit](#) discounts for Red Hat Enterprise Linux instances on Microsoft Azure.
- ▶ Use the Red Hat Hybrid Committed Spend program for discounted pricing and flexible payment options on site and on Microsoft Azure.

[Read the brief](#) to learn more about these options.

### Access integrated, enterprise-grade support and expertise

Regardless of how you purchase Red Hat Enterprise Linux, you are backed by Red Hat's [award-winning support organization](#) in coordination with Microsoft's support teams. Red Hat and Microsoft work together to provide expertise, knowledge, and support to ensure you can successfully accomplish your goals with our solutions. We provide an integrated, enterprise-grade support system for customers running Red Hat solutions on Microsoft Azure. This complete support experience features multilingual engineers across 18 regions, colocated staff from both companies, an integrated ticketing system, and a seamless, coordinated escalation and resolution process. You receive the same high-value experience whether you obtain Red Hat Enterprise Linux directly from Red Hat or through Microsoft.

You can choose from several levels of support to meet the needs of different teams—and your budget. For example, you may choose self-support for development systems and premium 24x7 support for production systems. Red Hat support teams work closely with Red Hat engineering and product teams, as well as partners, to solve issues quickly and with less hassle for you. Specialty-based routing ensures support calls and tickets go directly to the right experts. Red Hat also takes learnings from support cases and compiles them into helpful documentation on the [Red Hat Customer Portal](#). Via the Red Hat Customer Portal, you can access reference architectures, best practices, product documentation, videos, collaborative discussion, labs, and tools.

### Streamline operations and management across your hybrid cloud

Standardizing on Red Hat Enterprise Linux and Microsoft Azure lets you use the same set of management tools to administer your datacenter and cloud environments, saving time and effort. For example, you can deploy [Azure Arc-enabled servers](#) outside of Azure and manage them as Azure resources.

A unique suite of hosted services that helps you manage and optimize your hybrid cloud environment, [Red Hat Insights](#) is included with Red Hat Enterprise Linux. Insights uses predictive analytics and deep domain expertise to streamline operational tasks. With a focus on operations, security, and business outcomes, it proactively alerts administrators and stakeholders before an outage, security event, or over-

[Overview](#) Focus on cloud initiatives with Red Hat and Microsoft



### Save time and effort with Red Hat Insights

Red Hat Insights helps you reduce the time spent on common management tasks:<sup>3</sup>

- ▶ **91%** less time to detect security vulnerabilities
- ▶ **69%** less time to detect policy violations
- ▶ **96%** less time to detect known operational risks
- ▶ **89%** less time to detect configuration drift
- ▶ **88%** less time to track system patch status



### Protect your environment

Red Hat Enterprise Linux complies with a [large number of security standards](#), including:

- ▶ Common Criteria (CC).
- ▶ Federal Information Processing Standard (FIPS) 140-2 and 140-3.
- ▶ Secure Technical Implementation Guidelines (STIG).

spending occurs. Insights works across on-site and cloud environments, so you can manage everything from a single interface. To further simplify operations, you can even link your Red Hat account to your cloud provider account and choose to automatically connect your cloud-based systems and workloads to Insights and other Red Hat services upon provisioning. Red Hat Insights offers key capabilities for hybrid cloud environments:

- ▶ **Subscriptions service.** Track and optimize your Red Hat Enterprise Linux subscription use across your entire environment.
- ▶ **Resource optimization service.** Right-size your Azure deployments using central processing unit (CPU), memory, and input/output (I/O) performance metrics that tell you whether your systems are optimized, undersized, oversized, under pressure, or idling.
- ▶ **Image builder service.** Create, manage, and deploy Red Hat Enterprise Linux images consistently and rapidly across your datacenter and Azure environments. You can take advantage of [certified gold images](#), included with Red Hat Enterprise Linux, to speed deployment.
- ▶ **Vulnerability service.** Scan your systems for Common Vulnerabilities and Exposures (CVEs) and access prioritized remediation guidance.
- ▶ **Compliance and policies services.** Set policies and track adherence to compliance requirements across systems regardless of where they run.
- ▶ **Malware service.** Detect malware in your systems regardless of where they are deployed.
- ▶ **Advisor service.** Rapidly identify operational risks, as well as issues identified by Microsoft, across large-scale environments and access prioritized remediation guidance.
- ▶ **Drift service.** Identify configuration drift that can lead to performance, availability, security, and compliance issues.
- ▶ **Patch service.** Manage patching across all Red Hat Enterprise Linux systems in your environment.

[Read the brief](#) to learn more about using Red Hat Insights in your Microsoft Azure environment.

### Maintain security and compliance in the cloud

Red Hat and Microsoft build advanced security features into Red Hat Enterprise Linux and Microsoft Azure and give you the consistency needed to maintain a security-focused and compliant cloud environment. [Red Hat](#) and Microsoft security response teams work together and in collaboration with customers, partners, and the global open source community to identify and resolve vulnerabilities.

Built-in operating security features like [live kernel patching](#), security profiles, security standards certification, and a [trusted software supply chain](#) help you meet today's high security and compliance expectations. A modular package structure reduces your attack surface and protects your systems in the cloud. Best practice-based default settings configure your systems for increased security in the cloud from the start. Automated tools, regular updates and patch releases, and accessible expertise safeguard your environment. The Red Hat Insights compliance service helps you track your organization's adherence to compliance requirements across your environments and provides remediation guidance to help you maintain compliance over time. And an included identity management tool lets you adopt zero trust architectures more easily.

<sup>3</sup> Principled Technologies, sponsored by Red Hat. "[Save administrator time and effort by activating Red Hat Insights to automate monitoring](#)," September 2020.



## Access tools and resources to build your skills

The [Red Hat Developer program](#) provides tools, technologies, and a community of builders to help you solve problems, connect with colleagues, stay current, and lead your projects forward.

[Red Hat Developer Subscription for Teams](#) is available at no cost for organizations already using Red Hat products and includes access to Red Hat Developer e-books, cheatsheets, and other useful content.

[Red Hat Learning Subscription](#) helps your teams fill skills gaps and get the most from your Red Hat products with unlimited access to training content, labs, and videos.

Using industry-standard encryption protocols, Microsoft Azure secures your data as it travels to, from, and within Microsoft datacenters, as well as at rest in Azure Storage. Within Microsoft Azure, you can turn on security management and threat protection for Red Hat Enterprise Linux as a default. These settings deliver built-in behavioral analytics and use machine learning to identify attacks and zero-day exploits. Additionally, Microsoft Azure monitors Red Hat virtual machine-related networks and cloud services for known attack patterns and post-breach activity.

## Support your developers no matter where they work

Adopting a common platform—like Red Hat Enterprise Linux—for development, test, and production environments streamlines time to launch for new applications and reduces the risk of incompatibilities and issues at launch. Red Hat Enterprise Linux delivers easy access to reliable operating system images in the cloud in addition to the toolchains, libraries, container tools, and runtimes needed to streamline the path from development to production. Updates are delivered via [application streams](#), allowing developers and IT architects to experiment with the latest tools, runtime languages, and databases while still maintaining earlier versions of production applications.

Red Hat also offers developer-specific resources, programs, and subscriptions to help organizations develop on Red Hat Enterprise Linux more easily and cost-effectively:

- ▶ [Red Hat Developer program](#)
- ▶ [Red Hat Developer Subscription for Individuals](#)
- ▶ [Red Hat Developer Subscription for Teams](#)

These programs can be used both in your datacenter and in your Microsoft Azure environment.

## Gain more value today

Standardizing on a flexible, stable, and reliable operating system across hybrid cloud environments can simplify your journey to the cloud. Running Red Hat Enterprise Linux on Microsoft Azure gives you a consistent, manageable, and security-focused foundation for getting the most value from your cloud investments.

[Learn more](#) about the value of Red Hat Enterprise Linux on Microsoft Azure.



### 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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