

Red Hat Enterprise Linux: The adaptable operating system

Red Hat Enterprise Linux customers experience significantly less unplanned downtime and higher IT team efficiency compared to unpaid alternatives.²

A strategic platform that adapts as your infrastructure evolves

Red Hat® Enterprise Linux® is the world's leading enterprise Linux platform, providing a reliable, security-focused foundation for modern technology architectures. Whether you are testing AI applications, expanding into open hybrid cloud environments, or protecting against evolving security threats, Red Hat Enterprise Linux delivers the consistency and innovation required to scale your business.

Changing market dynamics

Business moves fast. Industries shift. Requirements change constantly. IT has to support it all. Whether you are building a new application or migrating an existing one to a cloud, security is the number 1 consideration influencing IT decisions today. According to a report by Flexera, 77% of organizations cite security as a top cloud challenge.¹ Red Hat Enterprise Linux provides live kernel patching for compliance and uptime, is backed by a dedicated product security team with legal assurances, and offers built-in management tools for proactive risk mitigation.

Organizations will need to support new cryptographic capabilities to keep their sensitive data protected against attacks. Red Hat Enterprise Linux is setting the pace for enterprise security by implementing post-quantum cryptography standards—including FIPS 203 and 204 algorithms—to safeguard sensitive data.

Most organizations now prioritize AI workloads that make a tangible difference. Red Hat Enterprise Linux is a strategic, open source foundation built for the AI era, providing a bridge to orchestrated containerization as your technological needs expand. Deploying Red Hat Enterprise Linux in image mode can be that 1st step. It provides a simple, consistent approach to building, deploying, and managing Red Hat Enterprise Linux using container technologies.

Speed and scalability are crucial for growth and innovation. You need solutions that save you time on manual configurations so you have more time to build your applications. Deploying in the cloud with Red Hat Enterprise Linux's pretuned images optimized for Amazon Web Services (AWS), Microsoft Azure, and Google Cloud allows you to build faster on a stable surface without having to worry about the underlying technology.

Reducing downtime and associated costs are major concerns across organizations. Whether you have new or experienced system administrators, Red Hat Lightspeed uses generative AI (gen AI) to provide

¹ ["2026 State of the Cloud,"](#) Flexera, accessed 20 April 2026.

² ["The business value of standardizing on Red Hat Enterprise Linux,"](#) Red Hat, 7 Oct. 2024.

a natural language assistant that helps address these issues. With a consistent Red Hat Enterprise Linux experience across hybrid environments, you can further address the Linux skills gap by sharing resources across teams.

Why choose Red Hat Enterprise Linux?

Choosing Red Hat means choosing a long-term strategic partner you can trust. Red Hat Enterprise Linux provides the flexibility of open source software, worldwide 24x7 support, and a predictable 14-year support lifecycle.² Research across real-world Red Hat Enterprise Linux customers, documented by analyst firm IDC, shows benefits including an average of 54% less unplanned downtime and 34% more efficient IT infrastructure teams when running workloads on Red Hat Enterprise Linux.³ Freely available tooling, special offers, and flexible pricing make it easy to migrate from any other RPM Package Manager (RPM)-based Linux. Red Hat Enterprise Linux provides significant long-term value through increased efficiency and reduced risk.

Speed and innovation: Spend less time on manual configurations and troubleshooting and more time building your applications.

Security: Simplify how your organization mitigates risk with live kernel patching, security profiles, security standards certification, and a trusted software supply chain.

Reliability you can trust: Trusted by more than 90% of the Fortune Global 500, Red Hat Enterprise Linux is the standard for critical workloads.⁴

Predictable lifecycle: Benefit from a stable, predictable, 14-year support lifecycle, so your team can plan for the future with confidence.²

Expert support: Access worldwide 24x7 support and an extensive knowledge base, reducing time spent troubleshooting.

Proven business value: Red Hat Enterprise Linux customers experience significantly less unplanned downtime and higher IT team efficiency compared to unpaid alternatives.²

Key differentiators for infrastructure modernization

Red Hat Enterprise Linux tackles today's most complex IT challenges.

| Feature | Business impact |
|-------------------------------|---|
| Command line assistant | Red Hat Enterprise Linux command line assistant is a gen AI-powered natural language assistant that simplifies complex tasks for new admins and boosts efficiency for experienced ones. |
| Post-quantum security | The 1st enterprise Linux to implement post-quantum cryptography standards , helping to safeguard data against future decryption threats. |

³ ["Red Hat Enterprise Linux Extended Life Cycle, Premium."](#) Red Hat, accessed 20 April 2026.

⁴ ["Fortune 500 list for 2025."](#) Fortune, accessed 20 April 2026.

| Feature | Business impact |
|---|--|
| Simplified system updates | Image mode for Red Hat Enterprise Linux provides a simple, consistent approach to building, deploying, and managing the operating system using container technologies. |
| Strategic foundation for AI | Red Hat Enterprise Linux serves as the reliable base for all Red Hat AI offerings and eases the transition to containerized workloads when you are ready to scale. |
| Build faster in cloud environments | Cloud-optimized Red Hat Enterprise Linux provides pretuned images optimized uniquely for AWS, Microsoft Azure, and Google Cloud to ensure performance and integrated observability while maintaining a consistent experience across hybrid environments. |

Bridge the skills gap and reduce complexity

Many organizations are facing a significant Linux skills gap. Red Hat Enterprise Linux addresses this by automating manual configurations and providing tools that simplify administration.

- ▶ **Streamlined management:** Maintain a global view of hybrid and multicloud deployments and automate issue remediation from a single user interface (UI).
- ▶ **Proactive risk mitigation:** Built-in management tools and live kernel patching ensure your systems remain compliant and focused on security without requiring manual intervention.
- ▶ **Predictive analytics:** Red Hat Enterprise Linux regularly identifies security risks and technical vulnerabilities before they become outages, often reducing maintenance time and downtime.

Simplified migration paths

Red Hat Enterprise Linux features tools and flexible payment options that make transitioning from other Linux distributions (such as CentOS Linux or Oracle Linux) easy.

- ▶ **Convert2RHEL:** This tool simplifies migrations from select RPM-based distributions and maintains your existing customizations and preferences during conversion.
- ▶ **Flexible procurement:** If you're building in public clouds, use your existing cloud-committed spend program to purchase Red Hat Enterprise Linux through major cloud marketplaces.
- ▶ **Red Hat Enterprise Linux for Third Party Linux Migration:** This offering includes the Convert2RHEL migration tool and optional Extended Lifecycle Support (ELS) for up to 4 years.

If your organization is facing increasing pressure to deliver applications quickly, strengthen security, and adapt to rapid changes in hardware, global markets, and emerging threats, treating the operating

system as a background utility limits your ability to respond. A reliable, security-focused, and consistent foundation helps teams move faster, reduce risk, and build with confidence.

Red Hat Enterprise Linux gives you that foundation. It provides a stable operating environment that helps teams navigate complexity, speed delivery, and support long-term growth. You gain a trusted base for running workloads across hybrid environments, backed by the performance, security features, and lifecycle certainty needed to keep your business moving forward.

Level up your Red Hat Enterprise Linux knowledge

When teams take part in Red Hat Training, they are better able to align IT capabilities with business initiatives, control costs, boost system performance, and focus on IT security.

Red Hat Training and Certification offers role-based courses and hands-on exams that develop and validate the real-world skills needed to adopt emerging technologies and support transformation goals. Through Red Hat Enterprise Linux-specific learning paths and courses, Red Hat Training can help teams successfully standardize platforms, simplify development, and speed innovation. With a [comprehensive curriculum](#), organizations can build the skills required for long-term success with their infrastructure investments.

Ready to modernize your infrastructure?

Contact your Red Hat partner to schedule a 15-minute discovery session and learn how Red Hat Enterprise Linux can support your next project.



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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redhat.com
#3959086_0426

North America

1 888 REDHAT1
www.redhat.com

Europe, Middle East, and Africa

00800 7334 2835
europe@redhat.com

Asia Pacific

+65 6490 4200
apac@redhat.com

Latin America

+54 11 4329 7300
info-latam@redhat.com