Modernize your cloud infrastructure

Transform with Red Hat Enterprise Linux and AWS

Use integrated, certified hybrid solutions for your digital business needs

Businesses today face fast, ongoing changes in market situations, customer demand, and the competitive landscape. New technologies and business approaches are disrupting entire industries. Delivering high-quality, innovative applications and customer experiences is critical to remaining successful.

IT systems that combine private and public ecosystems can contribute to that success. They need to be managed as a single environment, with the ability to move workloads efficiently and scale as needed. And they need the capability to balance flexibility with security.

Together, Red Hat and Amazon Web Services (AWS) offer integrated, certified hybrid environment solutions that help you meet your modern, digital business goals. For organizations that need to keep up with the ever-increasing speed of innovation and customer demand, Red Hat® Enterprise Linux® for AWS is a Linux operating system with built-in AWS-specific configurations that deliver performance, integration, and observability for your AWS-based workloads.

Gain flexibility and stability

Red Hat Enterprise Linux for AWS gives you a consistent, high-performing foundation built specifically for AWS environments.

Tightly integrated with AWS infrastructure, Red Hat Enterprise Linux for AWS offers ready-to-run images that are preconfigured with AWS-specific performance profiles, helping you save time and avoid configuration guesswork.

With Red Hat Enterprise Linux for AWS, you gain the confidence that your workloads run on images tested and maintained by Red Hat, in collaboration with AWS. These images are tuned for performance and consistency—whether you are running on Amazon EC2 or scaling workloads across hybrid environments.

Red Hat also validates network performance by supporting the Elastic Network Adapter (ENA), helping you maintain low-latency connections and high throughput across distributed deployments.

Together, Red Hat and AWS offer a trusted operating environment across infrastructures, giving teams the ability to deploy applications and services using familiar tools with consistent performance.

Implement a continuous security approach

Creating a security-focused platform is an ongoing process. Red Hat Enterprise Linux and AWS offer a tightly integrated environment where security and consistency are verified through two key processes. First, all Red Hat Enterprise Linux for AWS images go through the AWS Marketplace validation process. Second, these images are assessed against a defined security profile using AWS Inspector and Red Hat Insights—both of which are included with Red Hat Enterprise Linux. These tools provide ongoing analysis and monitoring, helping you detect configuration issues and risks without manual intervention.

Red Hat Enterprise Linux for AWS adds additional protection through image attestation, top-down memory encryption, and hardware-backed security features such as Secure Boot, confidential compute, and the confidential hypervisor. These capabilities help protect workloads from tampering or unauthorized access at the hardware and hypervisor level.

Immutable system images are another feature (delivered as pretested and signed builds), that helps reduce drift and limit risk by preventing unauthorized changes. Red Hat maintains the base Red Hat Enterprise Linux images for AWS, delivering updates and patches as they are released, so the system remains stable, current, and aligned with Red Hat Enterprise Linux-certified applications.

Policy integration between Red Hat and AWS adds another layer of protection by preventing unknown or unverified processes from running. When new capabilities are needed, Red Hat and AWS work together to evaluate and integrate those features into the defined security profile.

Red Hat Insights offers a single view to monitor your systems for security, performance, stability, and availability risks. It includes remediation guidance and tools to help you prioritize and take action based on the severity and potential effects of each identified issue.

Streamline and scale management across environments

Red Hat and AWS offer integrated tools to manage and automate your infrastructure—from provisioning and scaling to policy management and system decommissioning. Red Hat Enterprise Linux for AWS includes built-in capabilities that help accelerate operations with automation, predictive analytics, and policy-based management.

These tools support consistent lifecycle management by applying updates, patches, and configurations in a controlled and streamlined way.

With Red Hat Satellite Server, you can centrally manage thousands of Red Hat Enterprise Linux systems across multiple environments, including AWS and hybrid cloud deployments. Satellite Server combines the infrastructure management power of Red Hat Satellite with remediation planning from Red Hat Insights.

It includes content, patch, provisioning, and subscription management from a single console—and is included at no cost with on-demand instances of Red Hat Enterprise Linux on AWS.

Red Hat Insights plays a key role in helping teams stay ahead of issues by proactively alerting users to potential outages, security events, or unnecessary costs. Insights provides system comparisons, configuration drift detection, and tailored remediation guidance that supports both experienced Linux administrators and newer team members. These alerts help identify problems before they affect workloads and allow teams to respond quickly using prebuilt playbooks or guided steps.

Red Hat Enterprise Linux Lightspeed adds to this management experience with AI-powered assistance for building, deploying, and operating Red Hat Enterprise Linux. Lightspeed provides contextual recommendations across common tasks—reducing time spent troubleshooting or consulting documentation and freeing teams to focus on innovation rather than onboarding.

In addition, Red Hat Enterprise Linux for AWS includes a preconfigured AWS Command Line Interface (CLI), giving users the ability to interact with AWS services directly from the Red Hat Enterprise Linux host. A curated set of AWS commands is available out of the box, making it easier to control AWS resources without additional setup. This integration simplifies day-to-day operations and aligns system management more closely with your cloud workflows.

Learn more

Digital business demands consistency, security, and flexibility across cloud environments. Red Hat Enterprise Linux for AWS delivers deep integration with AWS, comprehensive security features, and built-in management tools—making it easier to build, deploy, and manage cloud workloads. With support for image mode, Red Hat Enterprise Linux for AWS simplifies operations and lays the groundwork for infrastructure standardization.

Red Hat Enterprise Linux for AWS is available in AWS Marketplace or with Red Hat Cloud Access for existing subscriptions. Learn more at redhat.com/aws.

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.

North America	Europe, Middle East, and Africa	Asia Pacific	Latin America
1 888 REDHAT1 www.redhat.com	00800 7334 2835 europe@redhat.com	+65 6490 4200 apac@redhat.com	+54 11 4329 7300 info-latam@redhat.com

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