

Red Hat Enterprise Linux: An ideal operating system for the cloud

Choose your cloud provider

Red Hat works with all major cloud providers, plus numerous other global and regional providers, to ensure Red Hat Enterprise Linux runs in their clouds.

Learn more about our strategic cloud partnerships:

- [Amazon Web Services \(AWS\)](#)
- [Microsoft Azure](#)
- [Google Cloud](#)
- [IBM Cloud](#)
- [Alibaba Cloud](#)

Find the right [certified cloud provider](#) for your organization.

Successful cloud implementations require consistency

Cloud adoption has become the new normal: 70% of organizations embrace hybrid cloud strategies, using at least 1 public and 1 private cloud.¹ Even so, adding 1 or more cloud environments to your IT landscape creates complexity. Standardizing on a consistent operating system (OS) across your datacenter and cloud environments can help you overcome this complexity and simplify your cloud implementation.

Red Hat® Enterprise Linux® is optimized and jointly engineered for peak performance on 3 leading hyperscalers: Amazon Web Services (AWS), Google Cloud, and Microsoft Azure. Images are integrated with the underlying infrastructure of each specific hyperscaler environment, providing you with pretuned, ready-to-run images to build, deploy, and manage workloads. They provide a stable foundation to deploy and build on without having to worry about the underlying technology. This way your team can focus on innovation goals rather than spending time on operational functions.

Take advantage of enterprise stability and cloud optimizations on a unified foundation

With Red Hat Enterprise Linux, you get dependability and reliable features on premise with the added flexibility of multiple procurement options in the cloud. And thanks to a consistent user experience across environments your team can run and manage applications the same way, regardless of where you deploy Red Hat Enterprise Linux. Standardizing on Red Hat Enterprise Linux across your organization can simplify your cloud implementation and support business modernization—no matter where it occurs.

Get started in a cloud environment

Applications developed for Red Hat Enterprise Linux run the same on any infrastructure, so you can move your existing workloads to the cloud without change. Your IT and development teams can continue to use their current skills, processes, and tools without extensive retraining or modifications. Red Hat also offers multiple purchasing options to fit your organization's procurement processes. You can use your existing subscriptions and move them to a cloud with [Red Hat Cloud Access](#). You can buy subscriptions and pay-as-you-go instances from Red Hat or your cloud provider and also apply your cloud provider committed spend. As a result, you can get started in a cloud with less risk and less cost.

Manage your entire hybrid environment more efficiently

Standardizing on Red Hat Enterprise Linux lets you use the same set of management tools, like [Red Hat Lightspeed](#) (formerly Red Hat Insights) and [Red Hat Ansible® Automation Platform](#), to administer and automate all your environments, saving time and effort. Included with Red Hat Enterprise Linux, to help you manage and optimize your hybrid cloud environment, Red Hat

Lightspeed adds proactive, AI-powered management and advanced security capabilities to your Red Hat subscription. Gain visibility into business, operations, and security risks to identify and mitigate issues across your infrastructure, before they affect your bottom line. The tool works across on-site and cloud environments, so you can manage everything from a single interface.

Maintain security and compliance in the cloud

By increasing consistency across your entire environment, Red Hat Enterprise Linux makes it simpler to maintain security and compliance. Built-in security features and compliance with industry and government regulations set you up for success, and a modular package structure reduces your attack surface to help protect your systems in the cloud. Red Hat Lightspeed lets you scan your systems for Common Vulnerabilities and Exposures (CVEs). You can collect scan information and access remediation guidance using a single interface. Finally, best practice-based default settings configure your systems for increased cloud security from the start.

Gain flexibility and choice across clouds

Red Hat Enterprise Linux consistency and workload portability let you select the cloud environments best suited for your applications and business at all times. You can deploy and run your applications on your choice of [more than 1,400 certified cloud providers](#) to take advantage of different cloud services, reduce costs, or configure systems for resiliency and disaster recovery scenarios. To ease deployment across clouds, the included [image builder tool](#) allows you to create customized Red Hat Enterprise Linux images, save them as templates, and push them to multiple cloud provider inventories.

You can even move workloads back to your own datacenter if needed. Many cloud providers offer tools for moving applications and data to a cloud, but not many providers offer resources for moving them back to your datacenter. Red Hat Enterprise Linux gives you a foundation for portability, so you can place workloads and data where they make the most sense.

Learn more

By combining proven stability and a consistent user experience with the scalability of the cloud, Red Hat Enterprise Linux can help you migrate to a cloud environment more efficiently and effectively. Explore more at red.ht/rhelcloud.



About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with [award-winning](#) support, training, and consulting services.

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