

# Improve performance with Red Hat subscription capabilities

Your Red Hat® Enterprise Linux® subscription covers a variety of different services, tools, and projects that can help you improve performance for your Red Hat Enterprise Linux environments, respond more quickly to security vulnerabilities, improve developer productivity, and provide more flexibility in how you deploy and maintain systems.

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## 1 End-to-end security

### Identity Management

Identity Management (Idm) allows you to centralize identities, apply secure access controls, and ensure regulatory compliance requirements are met.

- ▶ Centralized management for authentication, authorization, system-based access control, and privilege escalation
- ▶ Integrated public key infrastructure (PKI)
- ▶ Active Directory cross-realm trust
- ▶ One-time password generation

[Learn more](#) about identity management

### Security profiles

Red Hat Enterprise Linux includes security profiles, which can be customized and managed with the SCAP Workbench tool.

- ▶ FIPS 140-2 mode
- ▶ Supported security profiles include:
  - ▶ CIS
  - ▶ HIPAA
  - ▶ PCI
  - ▶ DISA STIGs
  - ▶ Operating system protection profile

[Learn more](#) about security profiles

## 2 Subscription portability

### Red Hat Cloud Access

Red Hat Cloud Access allows you to move your Red Hat subscriptions from physical or on-premise systems onto specific certified cloud providers with full support from Red Hat.

- ▶ Access to predefined images for specific cloud providers, and the ability to build your own with Image Builder
- ▶ Maintain a direct support relationship with Red Hat, and joint support with the cloud systems provider
- ▶ Help manage costs for long-running workloads

[Find out more](#) about Red Hat Cloud Access

### Switching subscription types

Any Red Hat Enterprise Linux subscription can be used for physical systems or switched to virtual systems (or used at the edge of the network or in a cloud environment, using Cloud Access) without ever having to contact Red Hat to make changes—and systems maintain the same level of support.

[Learn more](#) about your subscription

## 3 Red Hat Insights

Red Hat Insights is a hosted solution which continuously analyzes platforms and applications to predict risk, recommend actions, and track costs so enterprises can better manage hybrid cloud environments.

- ▶ Automatically and proactively identifies security, performance, and compliance issues at the hardware and operating system layer as well as in key application stacks such as SAP and MS-SQL
- ▶ Proactively resolves the majority of issues found
- ▶ Gets patching status by CVE or by system, and patch groups of systems
- ▶ Defines baseline configurations and identifies when systems diverge from the baseline
- ▶ Tracks subscription usage and where systems are deployed by hardware type or by cloud/physical environment
- ▶ Defines security and custom profiles and uses an OpenSCAP scanner to apply profiles to system configuration

[Learn more](#) about Red Hat Insights and [try it](#) now

## 4 Development

### Developer tool sets

Red Hat Enterprise Linux contains common runtime languages, web servers, databases, and compilers, including:

- ▶ Python, Ruby, PHP, Perl and Node.js
- ▶ Apache httpd and NGINX web servers
- ▶ PostgreSQL, MariaDB, and MySQL databases
- ▶ GCC, LLVM, Rust, and Go Compilers
- ▶ Eclipse Che

[Explore](#) CodeReady Builder

[Develop](#) on Red Hat Enterprise Linux

### Quarkus

Quarkus is a Java™ framework that is ideal for lightweight deployments—like edge—because it is designed to:

- ▶ Lower memory usage
- ▶ Minimize the size of generated jar files
- ▶ Allow for fast application startup

[Learn more](#) about Quarkus

### OpenJDK

The Red Hat build of OpenJDK is fully supported by Red Hat, with long-term support cycles. Red Hat maintains the upstream OpenJDK project and adds future features into the Red Hat builds.

[Learn more](#) about the Red Hat build of OpenJDK

### Universal base images

Red Hat Universal Base Image (UBI) contains a set of three base images (Minimal, Standard, and Multiservice), giving ideal starting points for a variety of use cases, along with runtimes and repositories with supporting packages.

[Learn more](#) about Red Hat UBI

## 5 Do more with Red Hat Enterprise Linux tools

Red Hat Enterprise Linux includes a variety of technologies to help with different projects and administrative tasks, from performance monitoring to virtualization. Key features include:

- ▶ [Image Builder](#), which creates custom Red Hat Enterprise Linux system images in a variety of formats, including compatible images for major cloud providers and virtualization technologies.
- ▶ [System Roles](#), which provide a stable and consistent configuration interface to automate and manage multiple releases of Red Hat Enterprise Linux.
- ▶ [Kernel-based virtual machines \(KVM\)](#), which turns a Linux system into a hypervisor that allows a host machine to run multiple, isolated virtual environments.
- ▶ [Container tools](#), including Podman and Buildah, to help build, run, and move Open Container Initiative (OCI)-compliant containers in a lightweight environment.
- ▶ [Performance and tuning](#) tools such as Performance Co-Pilot (PCP), which monitors, visualizes, stores, and analyzes system-level performance measurements, and bcc-tools, which provides kernel-level visibility into performance bottlenecks.
- ▶ [Virtual data optimizer](#), which works with block storage to provide zero-block elimination, deduplication of redundant blocks, and data compression.

- ▶ [Comprehensive security-focused features](#), which includes SELinux, network bound disk encryption, listing trusted programs, and session recording.

## 6 A guaranteed life cycle

Red Hat Enterprise Linux supported life cycle offers you flexibility and stability—at the same time—to maintain and upgrade systems.

- ▶ 10 years of complete maintenance support (with the initial 5 years offering new features, updates, and enhancements)
- ▶ In-place upgrade tools for easier updates
- ▶ Reliable 3-year cadence for major releases and 6-month cadence for minor releases
- ▶ Public product roadmaps to see planned and proposed features for upcoming releases

[Learn more](#) about Red Hat Enterprise Linux

### An active and growing ecosystem

Red Hat works directly with partners who can help build software, provide services, or provide hardware or cloud platforms. All partner offerings are tested and certified so they can be supported by Red Hat and you can build and adapt your infrastructure confidently.

[Browse](#) the Red Hat Ecosystem Catalog

### AppStreams

Application Streams (AppStreams) deliver multiple versions of runtime languages, web servers, and databases and ensure consistent choice of application build environments throughout the Red Hat Enterprise Linux life cycle. This means that Red Hat Enterprise Linux can maintain earlier versions of toolsets and deliver the latest enhancements to popular tools.

[Learn more](#) about AppStreams

### Multiple versions

A Red Hat Enterprise Linux subscription provides access to all supported versions of the product, not the most recent version or a single major version. You are not bound to a single version or deployment option.

[Explore](#) Red Hat Enterprise Linux release notes and documentation for complete details, by version

### Learn and experiment

Our series of 5-minute hosted demos show how technologies work within Red Hat Enterprise Linux.

[Explore](#) our demos or [learn more](#) about Red Hat Enterprise Linux common tasks.



### 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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