

RHEL by Numbers

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What we'll discuss today

- Red Hat Enterprise Linux (RHEL) by The Numbers
- RHEL Lifecycle Convert2Rhel & Leapp
- Image Mode
- RHEL AI



Red Hat Enterprise Linux by the numbers



BENEFITS OF RED HAT SUBSCRIPTION MODEL

EXPERTISE

- Customer portal and forums
- Knowledgebase

ONGOING DELIVERY

- Major release life cycle of up to 10 years
- Patches / Updates / Upgrades
- Pro-active Security
 - Security response team
 - Red Hat Insights

TECHNICAL SUPPORT

- 24x7
- Unlimited incidents
- Multi-vendor case ownership







Red Hat® Enterprise Linux® serves 33,818 customers







More than

of companies in the Fortune 500 rely on Red Hat technologies.

U.S. Fortune 500 companies and public sector organizations rely on Red Hat Enterprise Linux:



100%

of commercial banks



100%

of telecommunications companies



100%

of airlines



95%

of healthcare companies



100%

of U.S. Executive Departments

Red Hat





Industry leaders certify their products with Red Hat Enterprise Linux





Red Hat Enterprise Linux works with your preferred vendors

Rely on certified hardware, software, and cloud providers

>5,200

certified third-party hardware configurations

>4,900

certified third-party software applications

>200

certified cloud & service providers

Find certified hardware, software, and cloud providers in the Red Hat Ecosystem Catalog.





Red Hat Enterprise Linux is #1 in paid Linux server operating system shipments for 2022.





Red Hat Enterprise Linux is

#1 in paid Linux server

OS shipments for 2022, with:

78.7%

Market share for paid Linux server OS shipments.

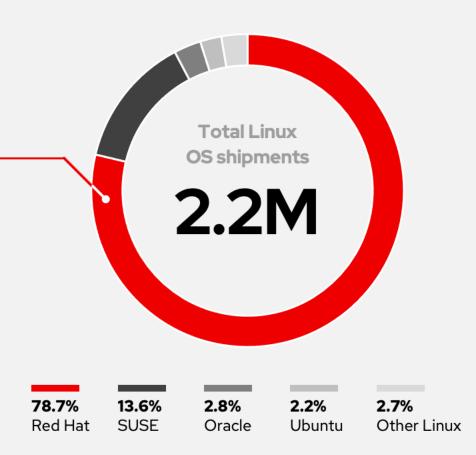


7.5%

Year-over-year (YoY) shipments growth



Worldwide paid physical Linux server operating system (OS) shipments, 2022



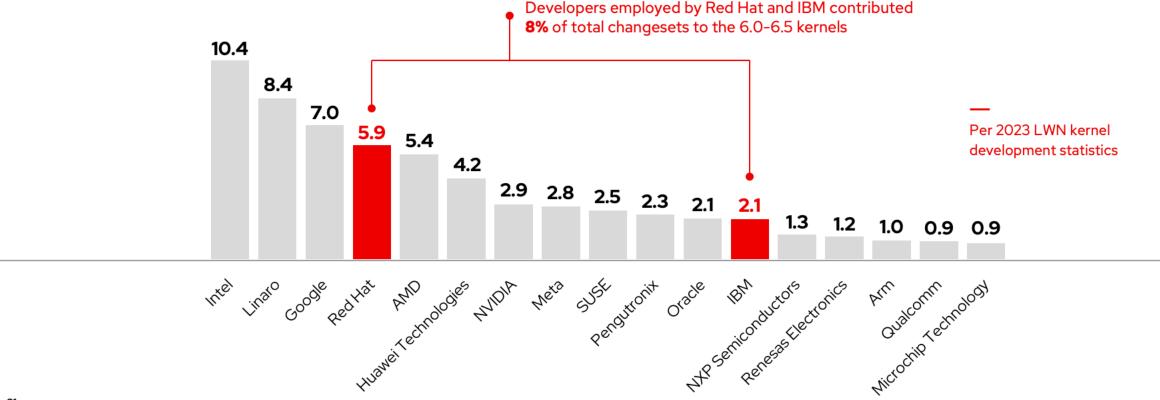


Red Hat is a leader in the open source community.



Red Hat continues to be one of the top kernel contributors

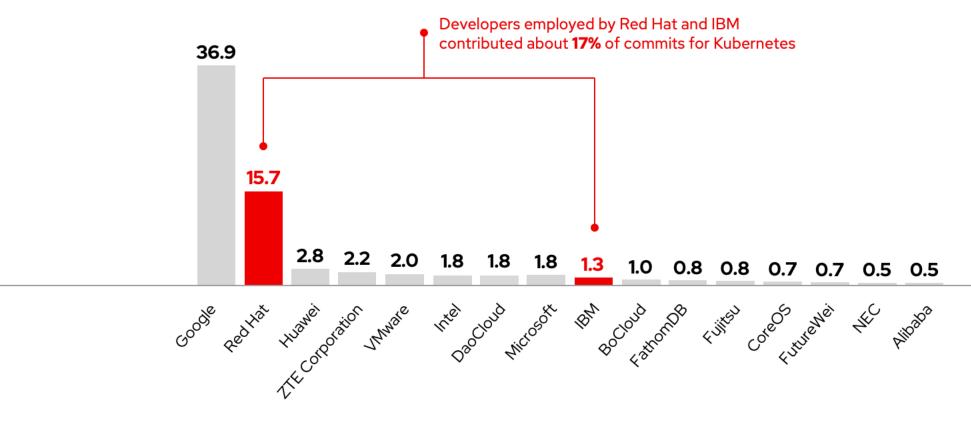
Companies most active on Linux 6.0-6.5 kernel (by percentage of total changesets made)





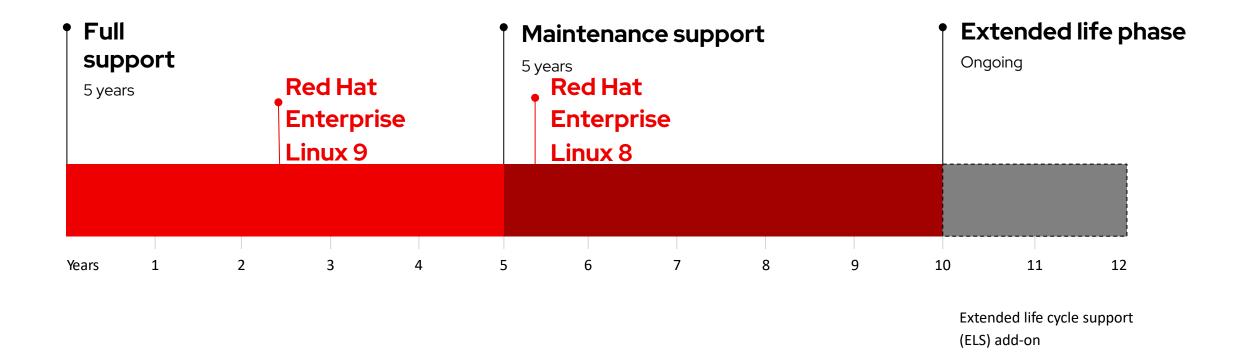
Red Hat is one of the top contributors to Kubernetes

Companies most active on Kubernetes (by percentage of total commits)





Red Hat Enterprise Linux 8 and 9



Key life cycle milestones



CentOS Linux 7

End of life

June 30th, 2024



CentOS Stream 8

End of life

May 31st, 2024



Red Hat Enterprise Linux 6

End of ELS support

June 30, 2024



Red Hat Enterprise Linux 7

End of maintenance

June 30, 2024 | Will require ELS add-on



Red Hat Enterprise Linux 8

Start of maintenance

May 31, 2024



Red Hat Enterprise Linux 9

End of full support

May 31, 2027





Migrations & Upgrades







Convert2RHEL

More options for converting to Red Hat Enterprise Linux

Convert from	Becomes
Alma Linux 8.10	Red Hat Enterprise Linux 8.10
Alma Linux 8.8	Red Hat Enterprise Linux 8.8
CentOS Linux 8.5	Red Hat Enterprise Linux 8.5*
CentOS Linux 7.9	Red Hat Enterprise Linux 7.9
Oracle Linux 8	Red Hat Enterprise Linux 8.10
Oracle Linux 7	Red Hat Enterprise Linux 7.9
Rocky Linux 8.10	Red Hat Enterprise Linux 8.10
Rocky Linux 8.8	Red Hat Enterprise Linux 8.8

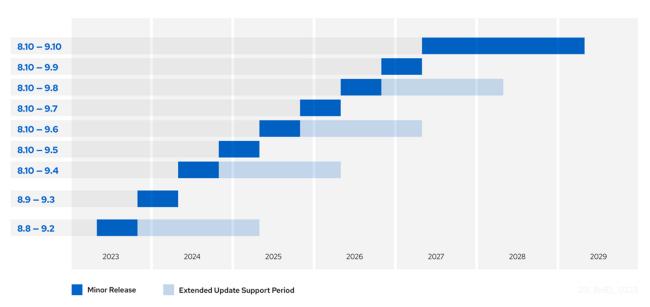
^{*}Note that RHEL 8.5 is now out of support, so users will need to update to a supported version of RHEL 8 after converting.

- Convert2RHEL now supports Rocky Linux and Alma Linux!
- Third-party Linux Migration offering available for on-premise, AWS, and Azure





Leapp in-place upgrades

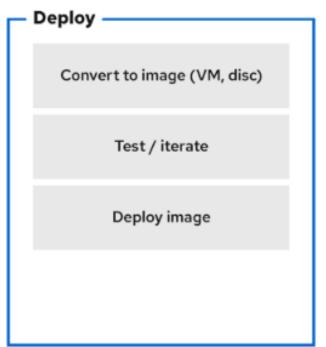


- Leapp was introduced in RHEL 7
- Available in RHEL 7, 8, 9, and planned for 10
- Available as a one-off utility or in bulk with Ansible Automation Platform or Satellite
- Pre-upgrade assessment available from the command line



Image mode for RHEL





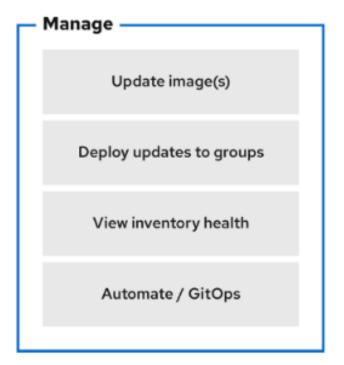
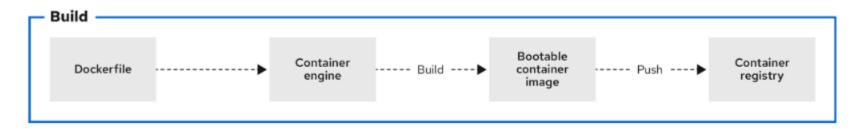




Image mode for RHEL



```
FROM registry.redhat.io/rhel9/rhel-bootc:latest

RUN dnf -y install [software] [dependencies] && dnf clean all

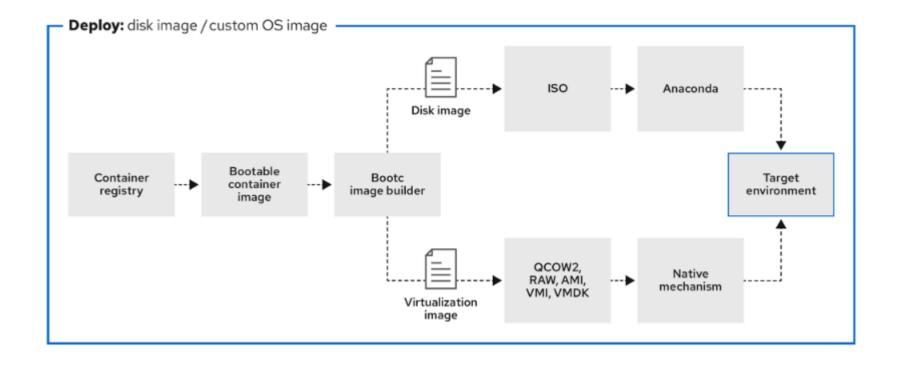
ADD [application]

ADD [configuration files]

RUN [config scripts]
```



Image mode for RHEL





Foundation Model Platform

Seamlessly develop, test, and run Granite family large language models (LLMs) for enterprise applications.

Granite family models



Open source-licensed LLMs, distributed under the Apache-2.0 license, with complete transparency on training datasets.

Scalable

InstructLab model alignment tools

Scalable, cost-effective solution for enhancing LLM capabilities and making Al model development open and accessible to all users.



Optimized bootable model runtime instances

Granite models & InstructLab tooling packaged as a bootable RHEL image, including Pytorch/runtime libraries and hardware optimization (NVIDIA, Intel and AMD).

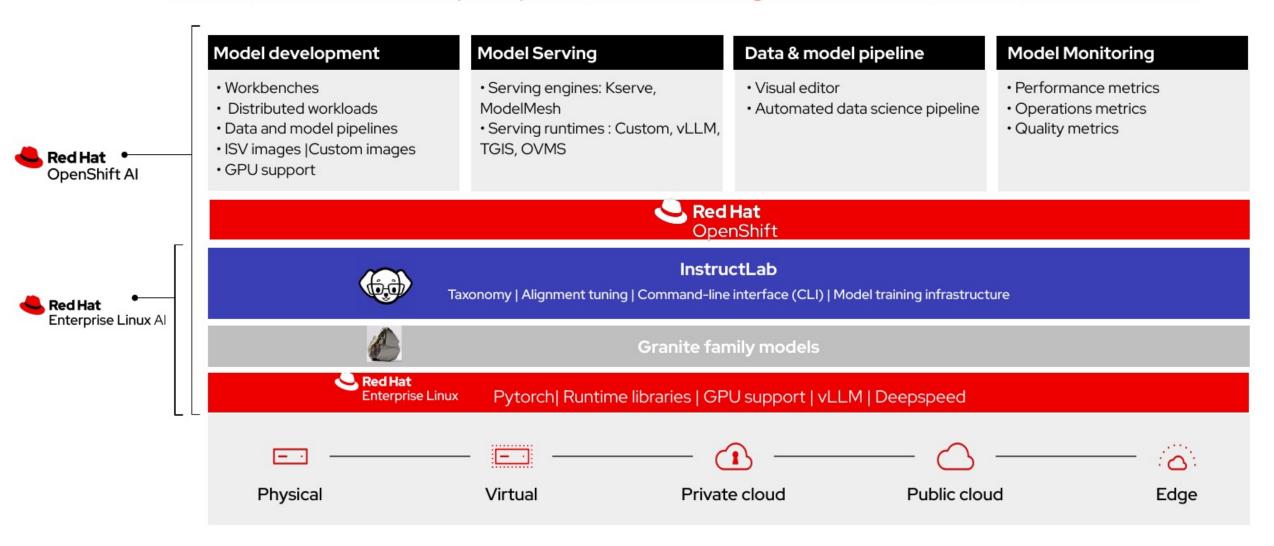


Enterprise support, lifecycle & indemnification

Trusted enterprise platform, 24x7 production support, extended model lifecycle and model IP indemnification by Red Hat.

Red Hat Al platforms

Generative AI and MLOps capabilities for building flexible, trusted AI solutions at scale



Red Hat Al Portfolio



Open Source

Learn & experiment via limited desktop-scale training method (qlora) on small datasets. Future potential Podman Desktop integration.





Small Scale

Production-grade model training using full synthetic data generation, teacher and critic models. CLI tooling with building blocks.





Large Scale

Production-grade model training, serving, and monitoring using full power of hybrid cloud app platform for scaling, automation, and MLOps services.







THANK YOU!



