

Red Hat
Summit

Moving from CentOS Linux to Red Hat Enterprise Linux

Save time and money

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Setup for the lab:

<https://red.ht/convert-lab>



What we'll discuss today

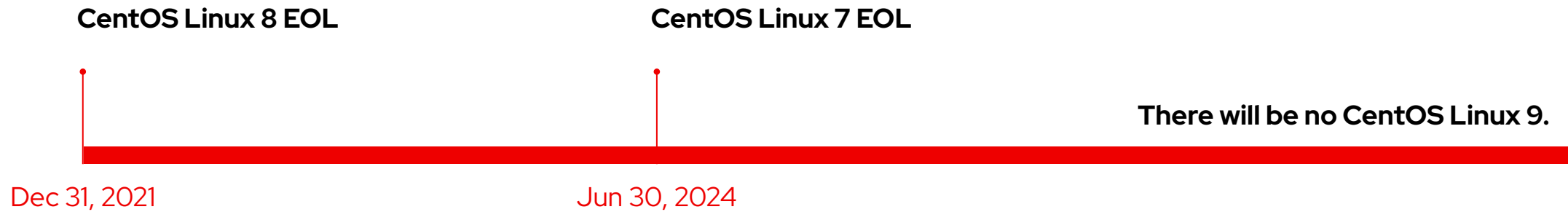
- ❑ The state of CentOS Linux
- ❑ Benefits of migrating to Red Hat Enterprise Linux
- ❑ Planning your migration
- ❑ Convert2RHEL demo
- ❑ Migrate with confidence
- ❑ Q&A

<https://red.ht/convert-lab>



CentOS Linux end-of-life (EOL) timeline

Migration gives you an opportunity to gain more value for your organization



Plan your migration

Top questions to ask as you choose your CentOS Linux replacement

1

How will my new operating system support day-to-day operations and business needs

2

How will my new operating system mitigate the risks my organization faces

3

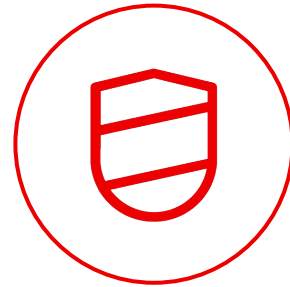
How do I migrate to my new operating system without disrupting business operations

Top customer challenges with CentOS Linux



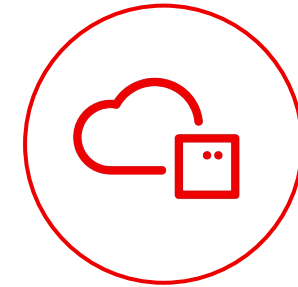
Support

Organizations require a supported enterprise-level platform



Security

No certification, with patches and fixes delayed or limited based on version



Ecosystem

Limited ecosystems of hardware vendors and third-party applications

Red Hat Enterprise Linux delivers more value for your organization

Derivative operating systems do not offer the same value



Management and observability tools

Includes access to advanced management and analytics tools and services



Long-term supported life cycle

Includes certified patches, upgrades, and long-term support for major and minor releases



Security and patching

Certified to security standards and includes Red Hat-developed live kernel patches



Red Hat portfolio integration

Certified with other Red Hat platforms, management tools, and cloud services



Certified partner ecosystem

Certified for use with thousands of hardware, software, and cloud vendors



Developer programs and support

Includes built-in resources and access to cost-effective developer programs

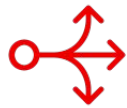
Create, manage, and secure operating system images more easily

Take advantage of our image builder service and Red Hat Insights, both included with your subscription

Image builder service



Create custom system blueprints



Deploy across multiple targets



Manage custom image life cycles

Red Hat Insights



Create profiles and baselines



Compare systems and analyze drift



Scan and patch images for CVEs*

Deploy consistent images to all your public cloud inventories with the image builder service.

Accelerate and simplify IT operations across environments

Red Hat Enterprise Linux helps you keep your systems—and business—up and running efficiently

Advisor

96%

Less time to detect known operational risks

Vulnerability

1m 24s

To detect security vulnerabilities across 100 virtual machines

Drift

89%

Less time to detect configuration drift

Patch

88%

Less time to track system patch status

Policy

69%

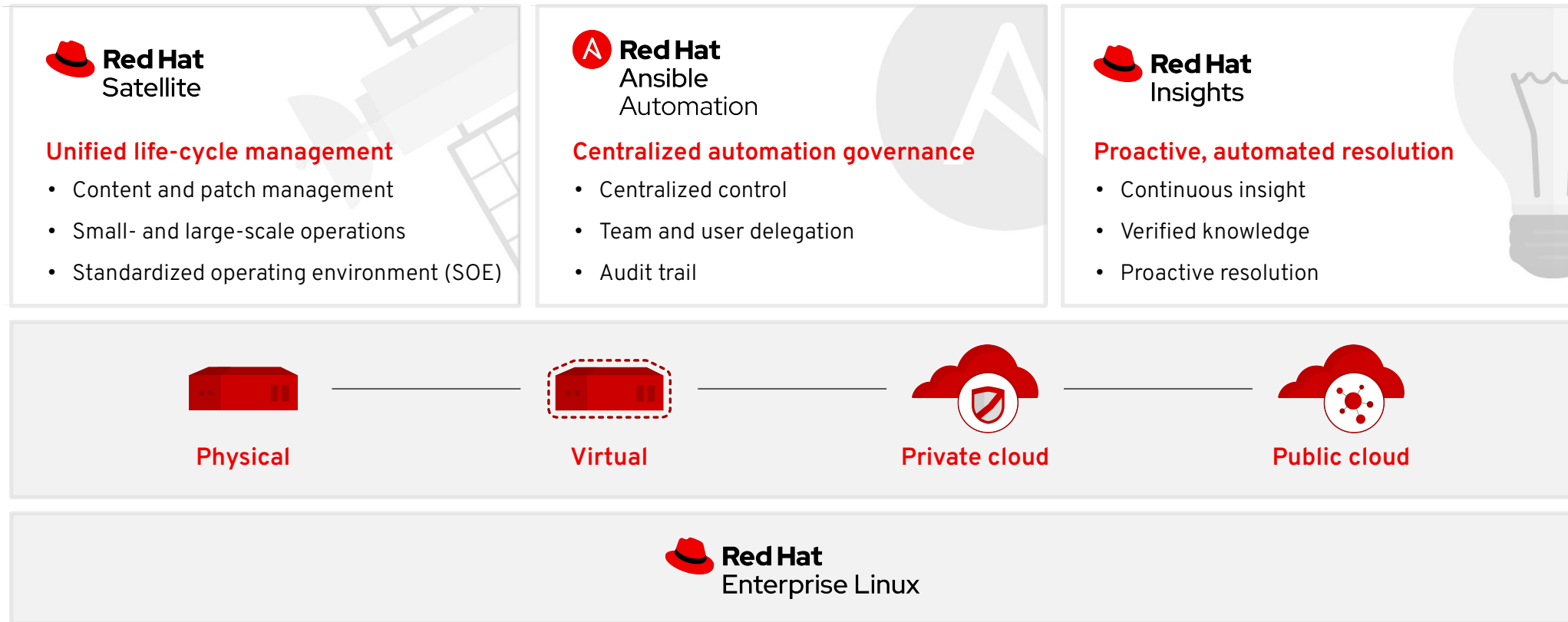
Less time to detect policy violations



Read the [analyst paper](#) to learn more about the benefits of Red Hat Insights.

Standard Operating Environment

Reduce complexity with Red Hat Enterprise Linux and its management ecosystem





Salesforce standardizes global infrastructure on RHEL

Migration of more than 200,000 systems from CentOS Linux to RHEL

Business challenge

- Application and service owners must be free to innovate, focus on **operational efficiency**, and not get caught up in day-to-day operations.
- **Security** is a top priority
- Downsizing to reduce costs, increase agility and raise productivity.

Technical challenge

- The **CentOS Linux 7** end-of-life
- A **migration to public cloud**. Salesforce needs an operating system to span a hybrid infrastructure
- Without a **single, standardized operating system**, products and services would have to be certified on multiple operating systems.

Press releases > Salesforce Standardizes Global Hybrid Cloud Infrastructure on Red Hat...

Salesforce Standardizes Global Hybrid Cloud Infrastructure on Red Hat Enterprise Linux

Salesforce is migrating more than 200,000 systems from CentOS Linux to Red Hat Enterprise Linux 9, building on the world's leading enterprise Linux platform to streamline IT operations and enhance customer experiences

RALEIGH, N.C. - September 18, 2023 – Red Hat, Inc., the world's leading provider of open source solutions, today announced that Salesforce (NYSE: CRM), the global leader in CRM, is standardizing its global hybrid cloud infrastructure on Red Hat Enterprise Linux. Helping the company to drive business transformation at scale to meet customer demand, Red Hat Enterprise Linux provides a more flexible and consistent foundation for security-enhanced hybrid cloud deployments. The platform enables Salesforce to free up valuable developer resources while at the same time consolidating IT systems, all helping to generate better business outcomes for customers.



Customer centricity lies at the heart of everything we do. With Red Hat Enterprise Linux, our global IT operations will innovate faster than ever to deliver the reliable, scalable experiences our customers demand.

Srini Tallapragada
President and Chief Engineering Officer, Salesforce

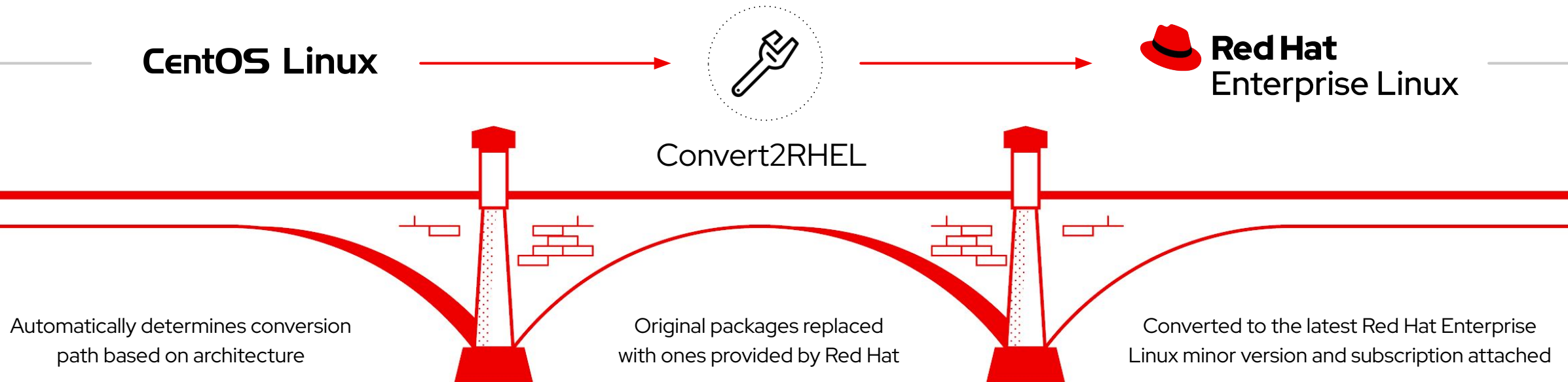
Migrate to Red Hat Enterprise Linux with ease

Simplify your migration with automated tools, flexible deployment options, and cost-effective programs and subscriptions.



Streamline your migration with an automated conversion tool

Red Hat Enterprise Linux helps you ensure business continuity during migration



Watch the video <https://www.youtube.com/watch?v=xX7P4BzOcNg>

Maintain continuity when you convert

Red Hat Enterprise Linux for Third Party Linux Migration with Extended Life Cycle Support

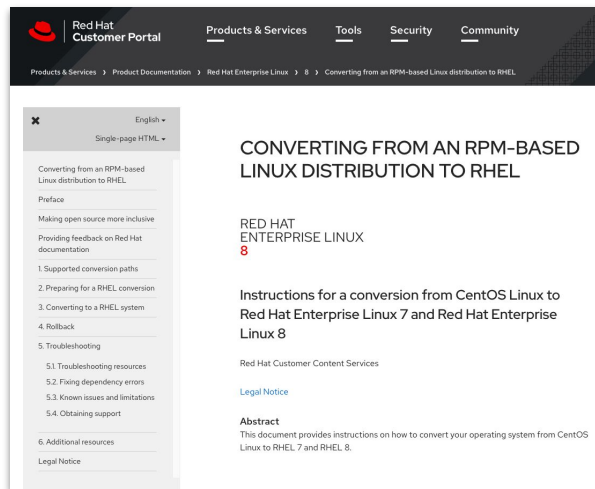
Low-cost subscription for CentOS Linux 7 users

Available on-premises and on AWS and
Microsoft Azure.

Coming soon to Google Cloud.

- ▶ Competitively priced subscription for Red Hat Enterprise Linux 7 Server
- ▶ Security patches and updates for 4 years after June 30, 2024¹
- ▶ Access to Developer Subscription for Teams²

Migration options



Self-service



Partner ecosystem

Convert on-site deployments and cloud instances in place

Convert2RHEL lets you convert CentOS Linux systems wherever they are

1



Convert on-site CentOS Linux systems using your existing or new subscriptions.

2



Convert CentOS Linux cloud instances using your existing or new subscriptions.

3



Convert CentOS Linux cloud instances using pay-as-you-go (PAYG) options.



Try it with a [self-paced lab](#).



Read the blog to learn about [converting systems on AWS](#).

Programs and subscriptions that work for you

Access programs and subscriptions that meet your needs and budget



[Red Hat Enterprise Linux standard subscriptions](#) ▶

Production environments running critical workloads and applications that need a stable, security-focused foundation



[Red Hat Enterprise Linux academic subscriptions](#) ▶

Academia-related and non-profit research organizations can enter Red Hat's academic subscription program



[Red Hat Developer subscription for teams](#) ▶

Single organizational subscription for as many physical or virtual developer nodes as needed. Available for organizations already running other Red Hat technologies.



[Red Hat Developer subscription for individuals](#) ▶

Single subscription for an individual using up to 16 physical or virtual nodes



[Red Hat Enterprise Linux for Open Source Infrastructure subscription](#) ▶

Open source projects or non-profit organizations that support the production of open source software

Move faster with RHEL

Convert2RHEL demo



Enterprise Linux Ecosystem



Fedora Linux



CentOS Stream



Red Hat Enterprise Linux

| Linux kernel | Community space | Shared space | Private space |
|--------------|--|--|--|
| | <ul style="list-style-type: none">▶ Contributions welcomed and encouraged▶ Integration of upstream packages▶ Take risks, do experiments▶ An open source community▶ Focused on more than the enterprise <hr/> <ul style="list-style-type: none">👤 Operating system developers🔍 OS innovation, architecture changes🕒 Fast moving, major release every 6 months | <ul style="list-style-type: none">▶ Contributions welcomed and encouraged▶ Variants are encouraged through SIGs▶ Contributions curated by Red Hat▶ Continuously delivers the next minor version of Red Hat Enterprise Linux▶ Focused on the future of the enterprise <hr/> <ul style="list-style-type: none">👤 Community and partners🔍 Develop, test, and contribute to the next version of Red Hat Enterprise Linux🕒 Continuous stream of new content | <ul style="list-style-type: none">▶ Private until after release▶ NDA and CVE work▶ Accessible only via subscription▶ Focused on today's enterprise▶ Life cycle management, including the ability to pin to a minor release▶ Errata feeds that contain only fixes, not features <hr/> <ul style="list-style-type: none">👤 Red Hat Enterprise Linux customers and partners🔍 Stability, security, performance🕒 Predictable release cadence |

2023 is the time to plan migrations

CentOS Linux timeline

CentOS Linux 8

Ended:
December 31, 2021

CentOS Linux 7

**Ends:
June 30, 2024**

There will not be
a CentOS Linux 9

Why choose Red Hat Enterprise Linux?



Monitor and manage your deployment environment



Ability to in-place upgrade



Consistently built and tested in the same environment



Government and security certifications



Certified by many hardware and software vendors



Certified to be used as a guest or host on cloud platforms



Includes advanced automation and management tools



Live kernel patches available



Fixed lifecycle and extended life cycle offerings



Enterprise-level platform support

What is Convert2RHEL?

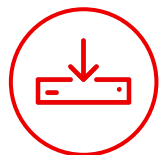
Simplified migration to Red Hat Enterprise Linux

| Convert from | Becomes |
|----------------|----------------------------|
| CentOS Linux 7 | Red Hat Enterprise Linux 7 |

- ▶ Self-service migration tool helps avoid costly redeployment projects
- ▶ Maintain existing customizations, configurations, and preferences
- ▶ Once migrated to Red Hat Enterprise Linux, take advantage of everything a Red Hat Enterprise Linux subscription has to offer

Features and benefits

Why Convert2RHEL to standardize your Linux systems?



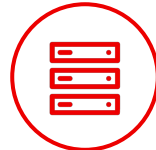
No redeployment of the operating system or apps



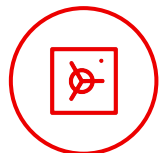
Shorter maintenance window



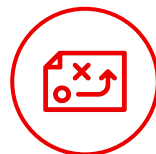
All configuration is preserved



Leverage Red Hat Enterprise Linux Subscription after conversion



Built-in fail safe and disaster recovery



Upgrade path to get on the latest Red Hat Enterprise Linux

In-Place Upgrades with Leapp

RHEL7 → RHEL8 → RHEL9

| | In-Place Upgrade | Re-Deployment |
|----|---------------------------------|--------------------------------------|
| 01 | Pre-assessment | Self assessment |
| 02 | Preserves configuration | Wipes out existing configuration |
| 03 | Bypass subscription management | Machines have to be re-subscribed |
| 04 | Save time and cost | Additional time and cost |
| 05 | Lower bar of seniority required | Requires expertise to ensure success |

[Open Demo](#)



Migrate with confidence

Vincent Kiely - eir evo



About eir evo



Ireland's number one
telecoms and ICT provider

End-to-end solutions,
all from one partner



Operations Centres in
Ireland and New Zealand

We deliver award-winning
excellence 24x7x365



Our partnership with Red Hat

eir evo



eir evo has been a **Red Hat Premier Business Partner** since 2006



We are the **largest and longest established Red Hat Partner in Ireland** with extensive design, implementation and support services across the complete product portfolio.



We have full lifecycle experience delivering projects from inception through to design phase, implementation and support services, **right through to product upgrades.**

Red Hat Products and Services

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Consultancy

Full advisory on correct subscription and procurement for both on-premises and cloud offerings of Red Hat products.

Optimisation

Consolidation and management of subscriptions into a single product schedule with asset management and financial incentives.

Implementation

Full Professional Service offerings across the Red Hat product portfolio for the following categories:

- Red Hat Enterprise Linux and Storage
- Automation (Ansible, Satellite etc.)
- JBoss Middleware
- OpenShift and container suite of products
- Cloud deployment and consumption of Red Hat products

RHEL implementation with Azure

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Red Hat Enterprise Linux is interoperable with many products – from Red Hat and other vendors – to solve business problems. Together Red Hat and Microsoft give you more choice and flexibility for your hybrid cloud deployments, delivering enterprise operating systems, simplified container technologies, rigorous security and integrated support.

Learn more about converting CentOS Linux to RHEL on Azure here.

Licencing choices are important either RHEL_BASE (for PAYG) or RHEL_BYOS.



Microsoft Ireland
Partner of the Year 2023 Winner
Azure Infrastructure



Infrastructure
Azure

Specialist
Networking Services
Infra and Database Migration
Azure Virtual Desktop



Security

Specialist
Cloud Security
Identity and Access Management
Threat Protection

Government Department

VMware Virtualised environment with over 100 RHEL instances moving from RHEL 7 to RHEL 8

Key takeaways:



Review and analysis of existing environments



Generate compatibility matrix , with supported application versions and corresponding OS versions for all affected applications



Decide whether to use Leapp or migrate to new OS, hybrid approach can work



Automation using ansible / Satellite server



Full backups / rollback available prior to any changes



Test rigorously

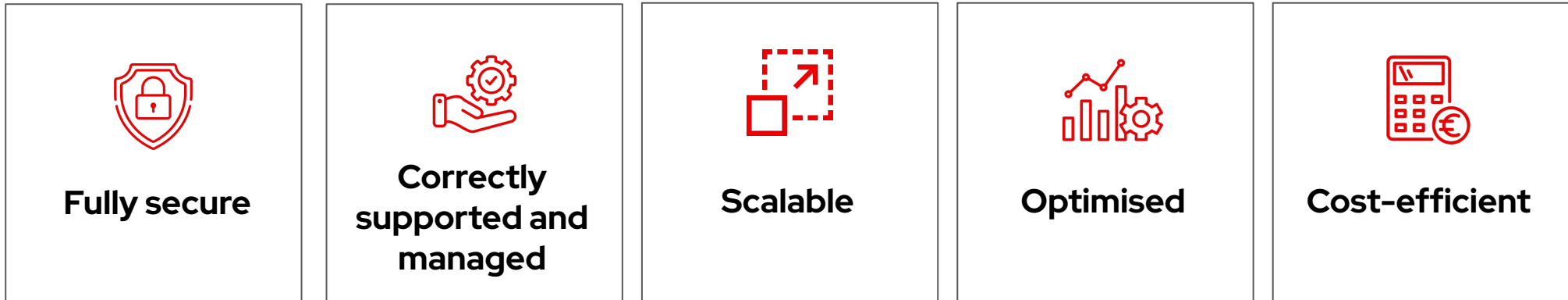


Staged upgrades

How we can help with your RHEL migration or upgrade

eir evo

We'll work with you to ensure your RHEL implementation is:



Our team of Red Hat experts will support you in delivering value across the whole of your business for a more innovative way of working.

Talk to eir evo today



Together, we make possible.

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Thank you



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