

Connect

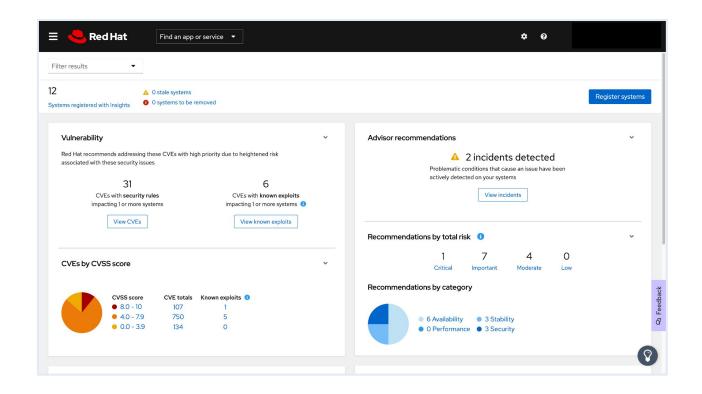
Czy na pewno nie potrzebuję dodatkowego admina w mojej organizacji? Red Hat Insights.

Zbigniew Parys
Senior Solution Architect



What is Red Hat Insights?

Helping you better manage your hybrid and cloud environments





What does Red Hat Insights do?

A cloud analytics platform that helps you better manage your hybrid and cloud environments







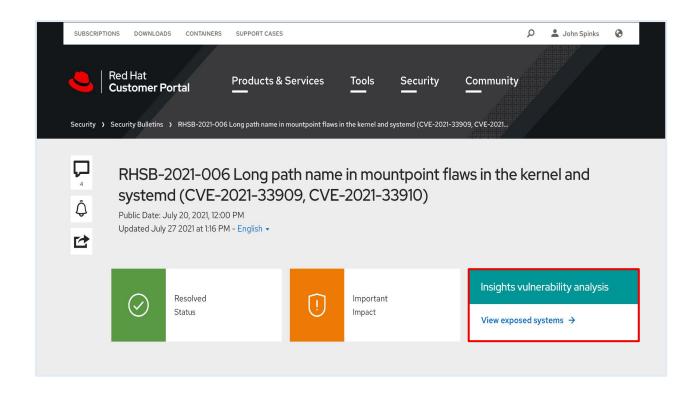


- ► **Gathers** configuration and utilization data from your Red Hat® products
- Analyzes the data based on Red Hat knowledge and expertise
- Generates and prioritizes insights for you to take action

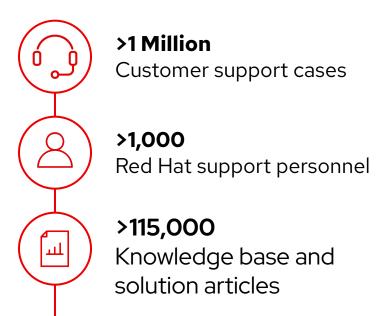


How does Red Hat Insights help me?

Use Red Hat's expertise and knowledge to evaluate your systems



Red Hat subscriptions include knowledge of:





How does Red Hat Insights help me?

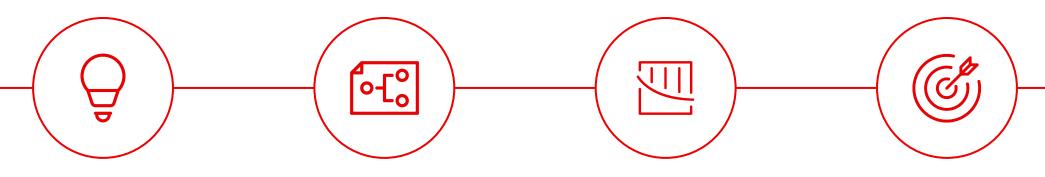
Use Red Hat's expertise and knowledge to evaluate your systems



- Configuration review to make sure systems are setup correctly
- Easily identify interoperability issues from the hypervisor or cloud,
 through the OS, and through the application stack
- Centralized view of all CVEs, patches, and compliance risks
- Identify drift to make sure systems are the same
- Know how many subscriptions you are using in seconds



How does it benefit my business?



Understand

Clearly understand your security risk profile

Plan

Stay ahead of critical operational issues

Reduce

Time to find and resolve issues from hours to minutes

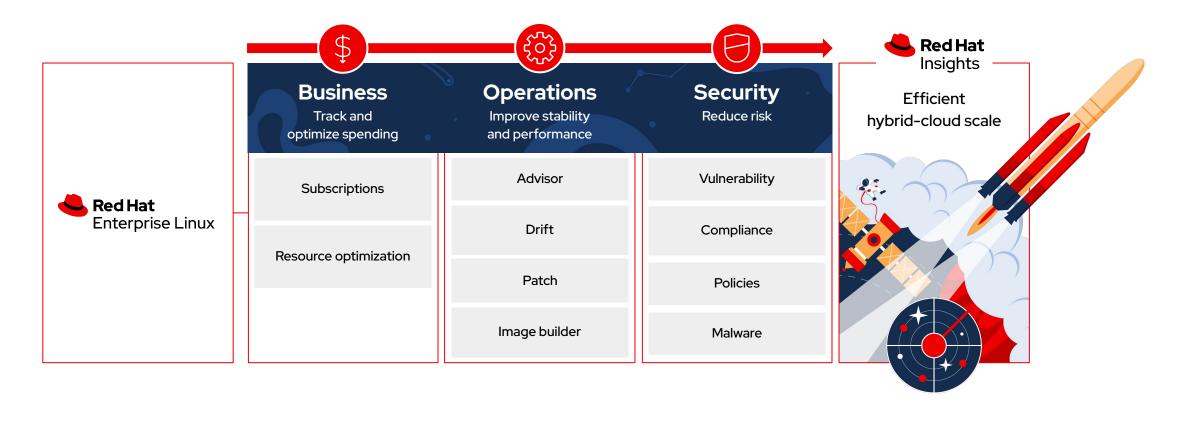
Innovate

Free up resources to focus on innovation and new capabilities

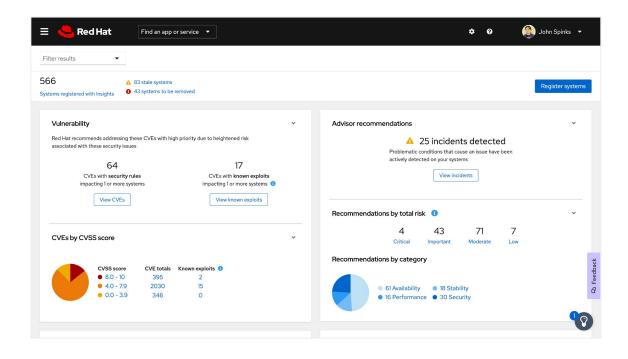


Red Hat Insights for Red Hat Enterprise Linux

For all your hybrid-cloud challenges



What's New Highlights



New services:

- Resource Optimization (Beta)
- Image Builder (Beta)

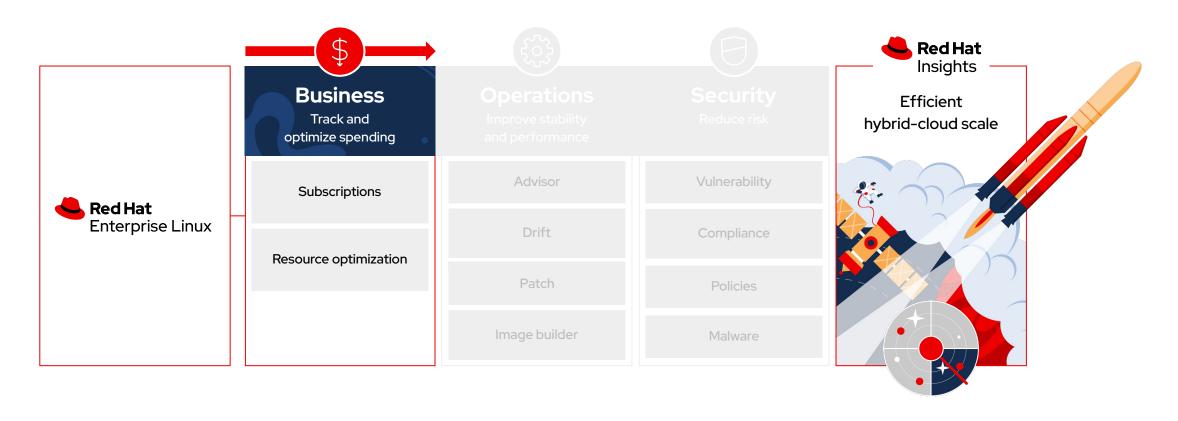
New Features:

- Advisor New recommendations for Ansible automation controllers
- Advisor expanded Microsoft SQL recommendations
- Vulnerability Enhanced vulnerability analysis via use of OVAL feed
- ...and more!



Red Hat Insights for Red Hat Enterprise Linux

For all your hybrid-cloud challenges



Subscriptions

Simple, immediate understanding of your account wide hybrid-cloud Red Hat Enterprise Linux subscription profile

- Account level view of subscription utilization
- Aggregated host level reporting
- Where subscriptions are being consumed
 - physical, virtual, or in the public cloud (and which public cloud)

What's New!

- Current subscriptions tab
- Activation keys visible from Red Hat connector dashboard
- Data export via CSV or JSON
- Auto-registration for GCP



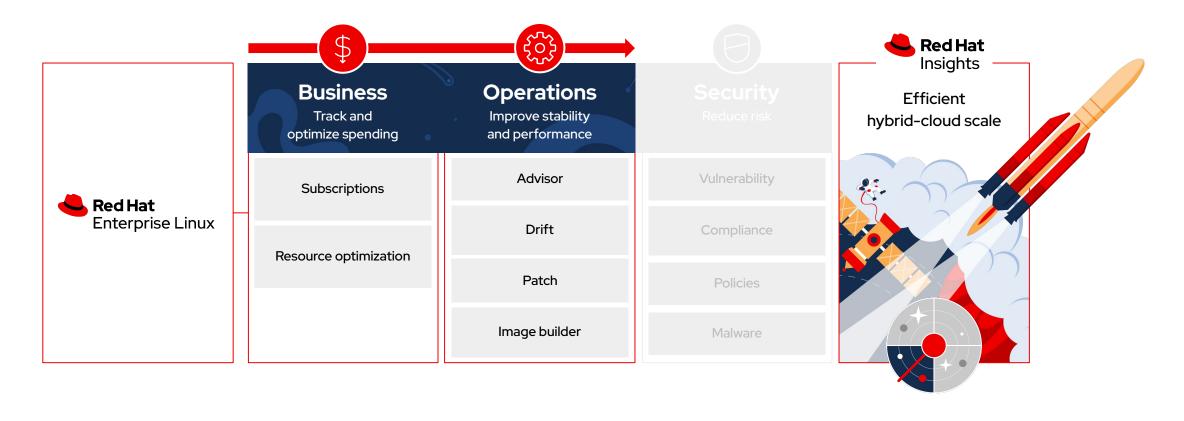
Subscriptions: Awareness of subscription utilization across your entire Red Hat Enterprise Linux estate CPU socket usage Daily -50 40 April 16 Public cloud 30 ■ Virtualized RHEL 5 20 Physical RHEL Apr 2 Apr 7 Apr 12 Apr 17 Apr 22 Apr 27 May 2 Physical RHEL Subscription threshold ■ Virtualized RHEL Public cloud Current systems Current subscriptions Q 1-88 of 88 -Filter by name Name 1 Type 1 Subscribed sockets 1 Last seen | Public cloud AWS 19 hours ago Public cloud AWS 19 hours ago Virtual 19 hours ago Public cloud AWS 19 hours ago Public cloud AWS 19 hours ago Virtual 19 hours ago



Business

Red Hat Insights for Red Hat Enterprise Linux

For all your hybrid-cloud challenges





Advisor

Identifies availability, performance, stability, and security risks

- Analyzes Insights data to provide recommendations
- These recommendations cover everything from the physical layer up to the application layer.
- Provides predictive findings and prescriptive information on how to resolve.
- Automate remediation via Ansible Automation playbooks

What's New!

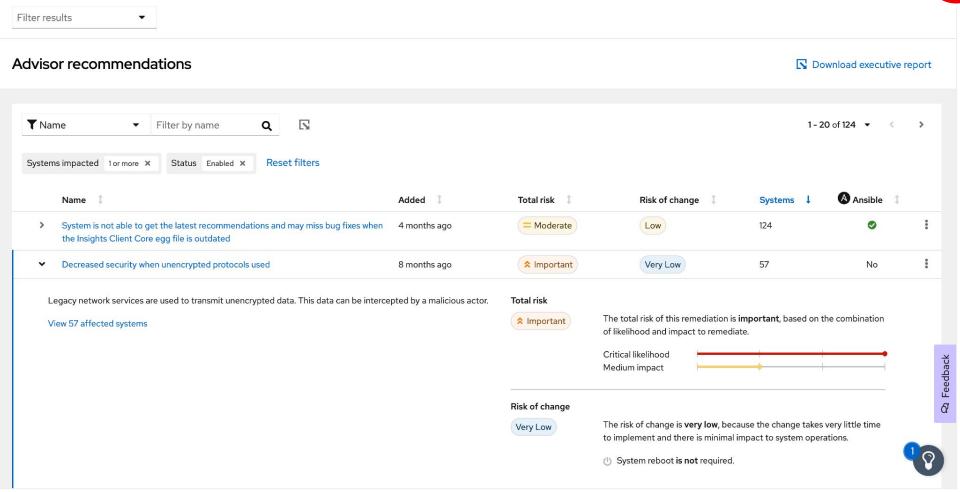
- New topic for DB2
- Recommendation impact date
- Updated recommendation events
- Update recommendations for RHEL 9
- Export list of systems impacted by a recommendation



Advisor: Availability, performance, stability, and security risk analysis



Operations





Patch

Analyze for Red Hat product advisory applicability to stay up to date

- See list of advisories and a list of systems where they need to be applied
- Look at a specific system and see what advisories are applicable
- See packages and which systems they are on as well as if an upgrade is needed
- Remediation playbooks are available to patch systems

What's New!

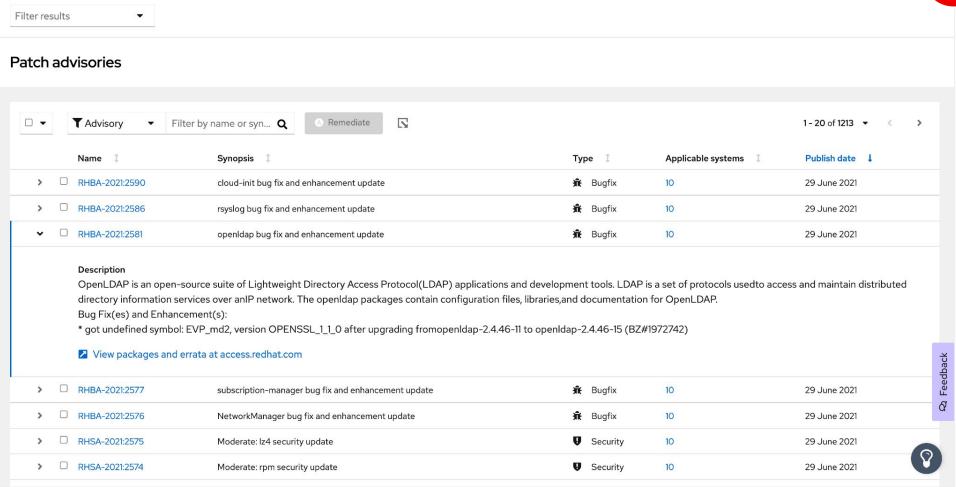
- Patch sets (apply same patches across multiple systems)
- Reporting against patch sets
- Updates for some 3rd party repos (RHUI, Azure, EPEL)



Patch: Analyze for Red Hat product advisory applicability to stay up to date



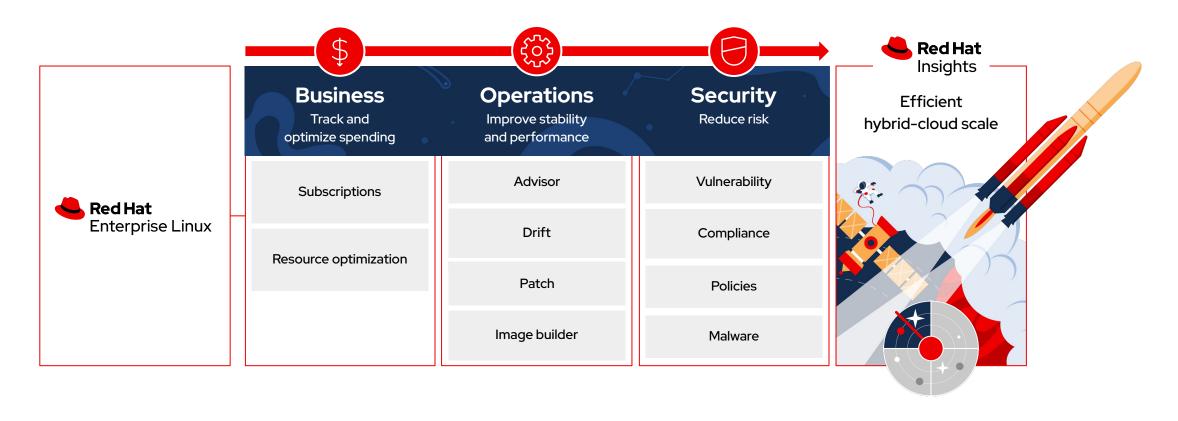
Operations





Red Hat Insights for Red Hat Enterprise Linux

For all your hybrid-cloud challenges



Vulnerability

Remediate common vulnerabilities and exposures (CVEs)

- Triage, prioritize, and remediate CVEs that impact your registered systems
- Threat intelligence
 - CVEs with known public exploits
 - Deep threat intelligence on specific high-profile branded CVEs
- Customize and triage CVEs based on your company's definitions of risk
- Customized reporting with the right dataset based on stakeholder profile
- Automate remediation via Ansible Automation playbooks for vulnerabilities

What's New!

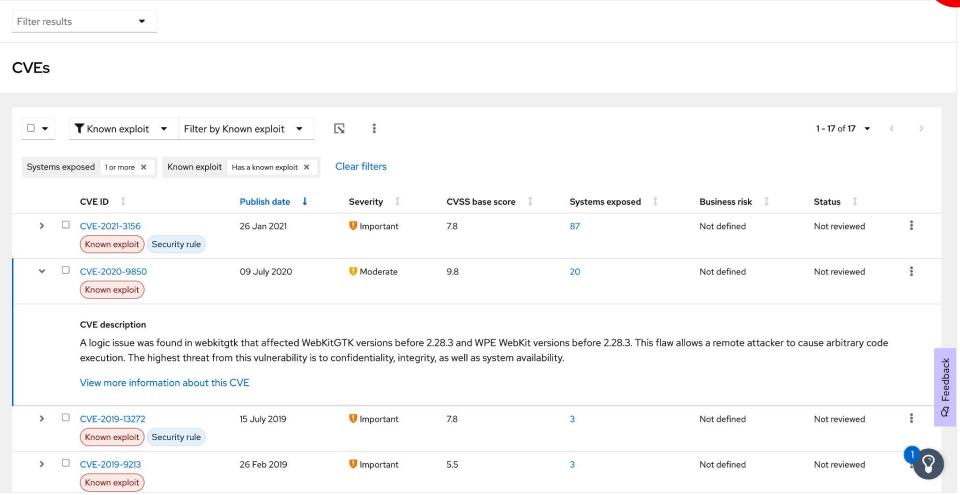
- Deep threat intelligence through known exploit feature
- Expose threat intelligence through security rules
- Enhanced vulnerability analysis via use of OVAL feed
- Filtering by RHEL version
- RBAC improvements
- Tag and OS filtering on reports



Vulnerability: Remediate all common vulnerabilities and exposures (CVEs)



Security





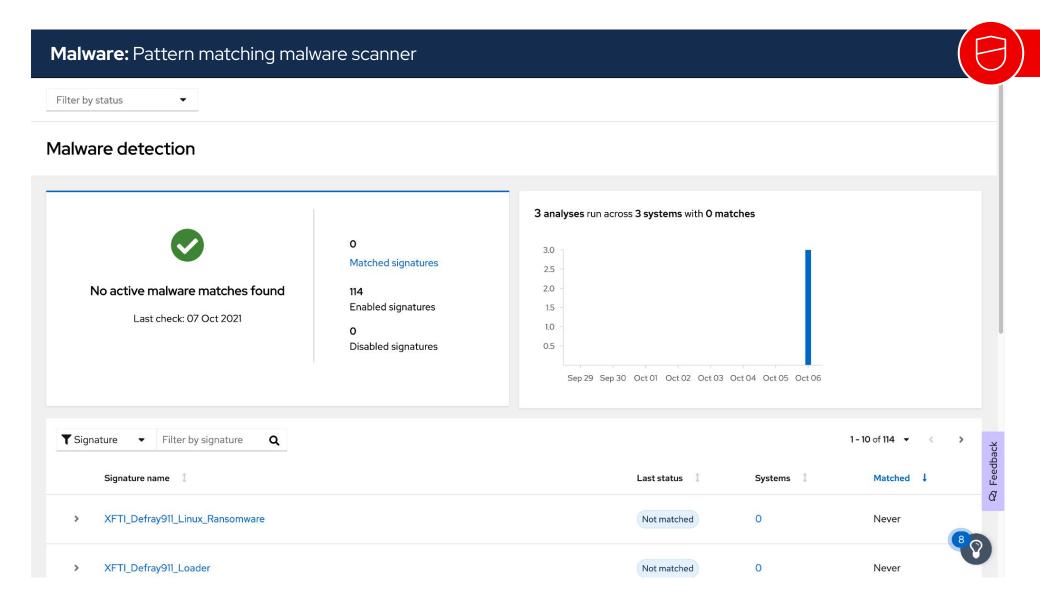
BETA Service:

Malware

Pattern matching malware scanner

- Leverages YARA, a popular malware detection tool
- Developed along with IBM's X-Force Incident Response and Threat Intelligence Services







Security

Four things you should know about data collection in

Insights



You control what data is sent

You have granular controls over the data you send. In addition to automatically removing sensitive data, you can also filter by file, command, or string.

Raw log files are not collected.

Bits of information about server configuration, rule match to the line of a log file.

Personally identifiable information is not targeted

Insights does not target Personally Identifiable Information (PII) and adheres to Red Hat policies and guidelines aligned to the European Union's General Data Protection Regulation (GDPR).

All Information is encrypted!

From the time collected on the client server to transmission to the Insights service.



Deconstructing what Insights collects





Data required

- System hostname
- Version of the RHEL kernel it's running
- Confirm it's one of those specified CPUs
- Determine system uptime
- Determine the clock source

How it is collected

- /bin/hostname -A
- /bin/uname -a
- /proc/cpuinfo
- uptime
- /sys/devices/system/clocksource/cloc ksource0/current clocksource

Advisor Recommendation:

Kernel panic after 200+ days of uptime on certain Xeon CPUs

Description: Intel Xeon P5, P5 v2, and P7 v2 CPUs running certain Red Hat Enterprise Linux kernels are susceptible to a bug that can lead to a system panic based on accumulated uptime.

Link on Insights:

https://cloud.redhat.com/insights/rules/ tsc_xeon_reboot_uptime|TSC_XEON_ REBOOT_UPTIME



See EXACTLY what Insights collects – without sending to Red Hat insights-client –-no-upload

```
# insights-client --no-upload
Starting to collect Insights data for <host>
Archive saved at /var/tmp/dfbbfuuy/insights-<host>-<date/time>.tar.gz
```

Collection file size on RHEL8 host above: 158 kb



Four things you should know about data collection in Red Hat Insights



Bits of information about server configuration, recommendation match to the line of a log file.

- Data uploads are customizable.
 For example, you can delete server names or IP
 addresses, Collection schedules are also customizable.
- Information is encrypted.
 From the client's servers through transmission to the Insights service.
- Data remains for a short period of time.

 Daily replace of server upload. If upload is not sent, the current upload is typically deleted after 14 days.

Demo





Connect

Thank you



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