Red Hat Summit

Connect

RHELS best kept secret Red Hat Insights

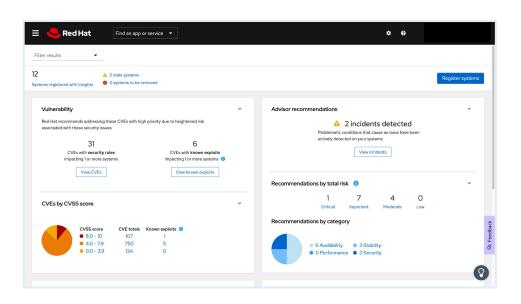For Red Hat Enterprise Linux

Jamie Hackett
Cloud Consultant
Red Hat

Red Hat
Insights

Red Hat

What is Red Hat Insights?

Helping you better manage your hybrid and cloud environments

Predicting risks

Recommending actions

Analyzing costs

What does Red Hat Insights do?

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

Red Hat
Insights

Red Hat
Enterprise Linux

Red Hat
Ansible Automation
Platform

Red Hat
OpenShift

▶ **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

Red Hat

How does Red Hat Insights help me?

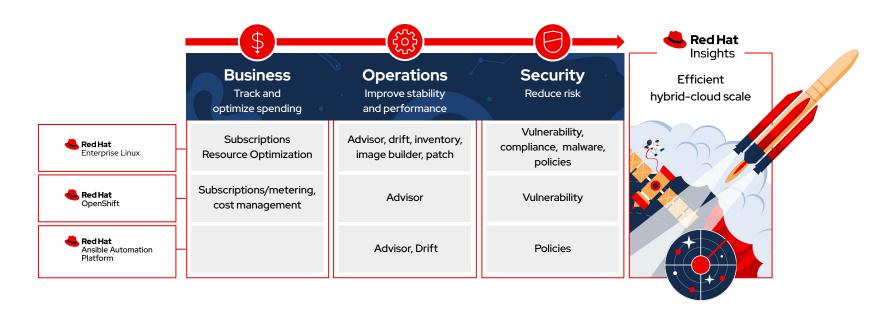## Use Red Hat's expertise and knowledge to evaluate your systems

- ▸ 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

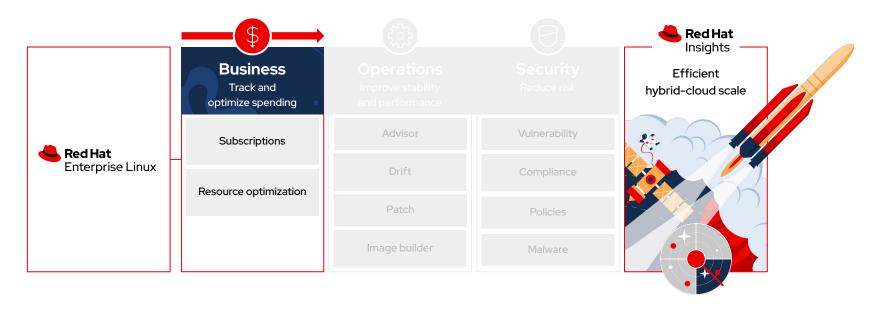- ▸ Know how many subscriptions you are using in seconds

Red Hat Insights
Aligning themes to services across platforms

	Business — Track and optimize spending	Operations — Improve stability and performance	Security — Reduce risk
Red Hat Enterprise Linux	Subscriptions Resource Optimization	Advisor, drift, inventory, image builder, patch	Vulnerability, compliance, malware, policies
Red Hat OpenShift	Subscriptions/metering, cost management	Advisor	Vulnerability
Red Hat Ansible Automation Platform		Advisor, Drift	Policies

Red Hat Insights

Efficient hybrid-cloud scale

Red Hat Insights for Red Hat Enterprise Linux

For all your hybrid-cloud challenges

Red Hat Enterprise Linux

Business
Track and optimize spending

Subscriptions

Resource optimization

Operations
Improve stability and performance

Advisor

Drift

Patch

Image builder

Security
Reduce risk

Vulnerability

Compliance

Policies

Malware

Red Hat Insights

Efficient hybrid-cloud scale

Red Hat

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 – Q2 2022:

● Current subscriptions tab

● Activation keys visible from Red Hat connector dashboard

● Data export via CSV or JSON

● Auto-registration for GCP

◢◣ **Red Hat**

Resource Optimization

Helping you to rightsize your public cloud environments

▸ Uses RHEL Performance CoPilot (PCP) to monitor system CPU, Memory, and I/O.

▸ Over a 24 hour period aggregates and scores each metric

▸ Presents a score for each metric and defines if the system is considered

- · Optimized
- · Undersized
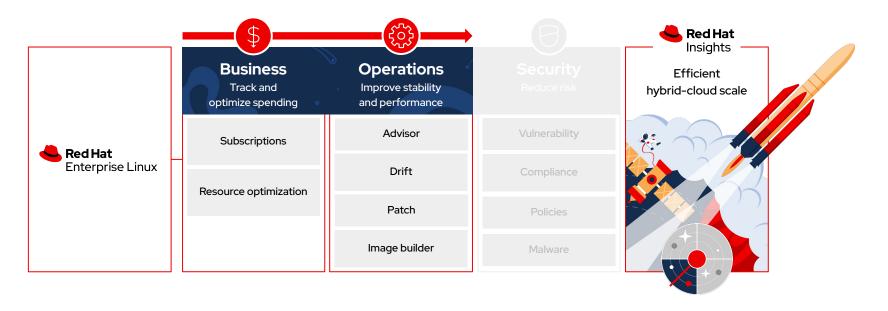- · Oversized
- · Under pressure
- · Idling

What's New – Q2 2022:

- ● Historical data (45 days)
- ● Reports
- ● UI enhancements

Red Hat Insights for Red Hat Enterprise Linux

For all your hybrid-cloud challenges

Red Hat Enterprise Linux

Business Track and optimize spending	Operations Improve stability and performance	Security Reduce risk
Subscriptions	Advisor	Vulnerability
Resource optimization	Drift	Compliance
	Patch	Policies
	Image builder	Malware

Red Hat Insights

Efficient hybrid-cloud scale

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 – Q2 2022:

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

Drift

Compares baselines and systems to help identify configuration changes

▶ Create a baseline of how you expect systems to look

▶ Identify configuration drift by comparing systems to:

- Baselines

- Other systems

- Historical system profiles

▶ Assign systems to a baseline and get notified if they drift from that baseline

What's New – Q2 2022:

- General user experience improvements
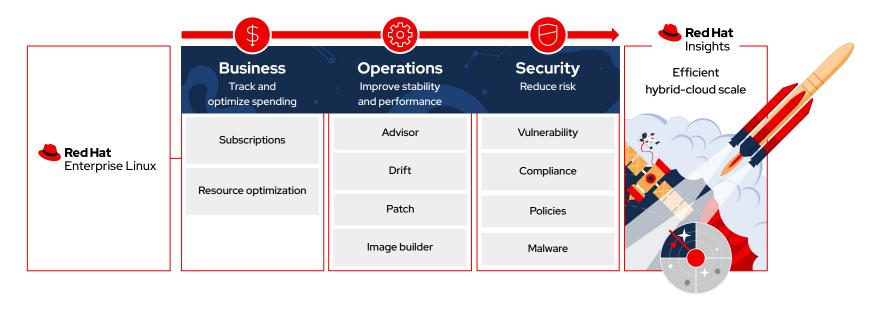- Minor fixes and enhancements

Image Builder

Create custom public cloud images to suit your unique business needs

▶ Create images on AWS, Azure, or Google.

▶ Include in the image exactly what you need.

▶ Copy the image from Red Hat's account over to your cloud provider account.

Red Hat Insights for Red Hat Enterprise Linux

For all your hybrid-cloud challenges

Red Hat
Enterprise Linux

Red Hat
Insights

Efficient
hybrid-cloud scale

Business	Operations	Security
Track and optimize spending	Improve stability and performance	Reduce risk
Subscriptions	Advisor	Vulnerability
Resource optimization	Drift	Compliance
	Patch	Policies
	Image builder	Malware

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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 – Q2 2022:

● RBAC improvements

Compliance

Assess and monitor regulatory "compliance at scale"

▸ Easy to use policy creation and custom tailoring across many systems

▸ Compliance reports quickly highlight overall compliance level

▸ Highlight unsupported configs with OpenSCAP and RHEL so that you can address and get accurate reporting

▸ Includes remediation playbooks for many common compliance issues

What's New – Q2 2022:

● Show systems not uploading in policy reports

Policies

Define and monitor against your own policies to identify misalignment

▶ Create custom policies that suit your needs using conditional statements from gathered metadata

▶ Define what happens when a policy is triggered through the notification service

▶ See history of when the policy was triggered and by what system

What's New – Q2 2022:

● Minor fixes and enhancements

Malware Detection

Pattern matching malware detection scanner

▸ Leverages YARA, a popular malware detection tool

▸ Developed along with IBM's X-Force Incident Response and Threat Intelligence Services
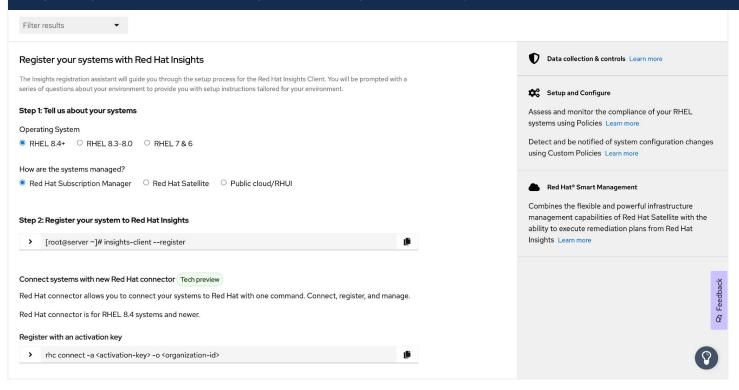
Register Systems

Guided steps to get Insights setup on Red Hat Enterprise Linux hosts

▸ Select your RHEL version, how the systems are managed, and how you want to configure Insights (manual or automated)

▸ Follow the on-screen directions to configure Insights

- RHC is GA
  - Use `rhc connect`

Register systems: Guided steps to get Red Hat Insights setup on all your Red Hat Enterprise Linux hosts

Filter results ▾

Register your systems with Red Hat Insights

The Insights registration assistant will guide you through the setup process for the Red Hat Insights Client. You will be prompted with a series of questions about your environment to provide you with setup instructions tailored for your environment.

Step 1: Tell us about your systems

Operating System

◉ RHEL 8.4+   ○ RHEL 8.3–8.0   ○ RHEL 7 & 6

How are the systems managed?

◉ Red Hat Subscription Manager   ○ Red Hat Satellite   ○ Public cloud/RHUI

Step 2: Register your system to Red Hat Insights

> `[root@server ~]# insights-client --register`   ⧉

Connect systems with new Red Hat connector `Tech preview`

Red Hat connector allows you to connect your systems to Red Hat with one command. Connect, register, and manage.

Red Hat connector is for RHEL 8.4 systems and newer.

Register with an activation key

> `rhc connect -a <activation-key> -o <organization-id>`   ⧉

🛡 **Data collection & controls** Learn more

⚙ **Setup and Configure**

Assess and monitor the compliance of your RHEL systems using Policies Learn more

Detect and be notified of system configuration changes using Custom Policies Learn more

☁ **Red Hat® Smart Management**

Combines the flexible and powerful infrastructure management capabilities of Red Hat Satellite with the ability to execute remediation plans from Red Hat Insights Learn more

Feedback

Red Hat

Red Hat
Insights

"It's like having another person working on the team."

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John Lemay
Systems Engineer
Greenway Health

Red Hat
Insights

"A bridge between Red Hat's expertise and my systems"

Will Darton
Support Lead III
Navy Federal Credit Union

Red Hat

Red Hat Summit

Connect

Thank you

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