

# Manage Red Hat Enterprise Linux the easy way

with Red Hat Insights

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**Red Hat Insights** assesses your Red Hat Enterprise Linux environment to help you **proactively identify and remediate threats**, avoiding outages, unplanned downtime and risks to security and compliance.

# Why Red Hat Insights?



**Comprehensive analysis  
with Red Hat expertise**



**Continuous  
vulnerability alerts**



**Increased visibility  
to security risks**



**Simple  
remediation**

Single, consistent management solution across on-premise, hybrid cloud, and public cloud.

# Why Red Hat Insights?

## Operational Efficiency



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## Security Risk Management

# Insights Experiences

- Insights was able to immediately identify 10 issues on an Oracle RAC system that has been **plaguing a customer for 6 months**.
  - Oracle RAC systems are EXPENSIVE. Why not keep them running at **optimal** capacity?
- Insights identified a misconfigured network bond, but the customer didn't use bonding. It was **accidentally enabled on a production server**. Insights was able to easily fix a problem then customer didn't even know they had!
  - Is your environment **correctly** configured? Has it drifted?

# Red Hat Insights

Included with all Red Hat Enterprise Linux subscriptions

Buy



**Red Hat**  
Enterprise Linux

Get



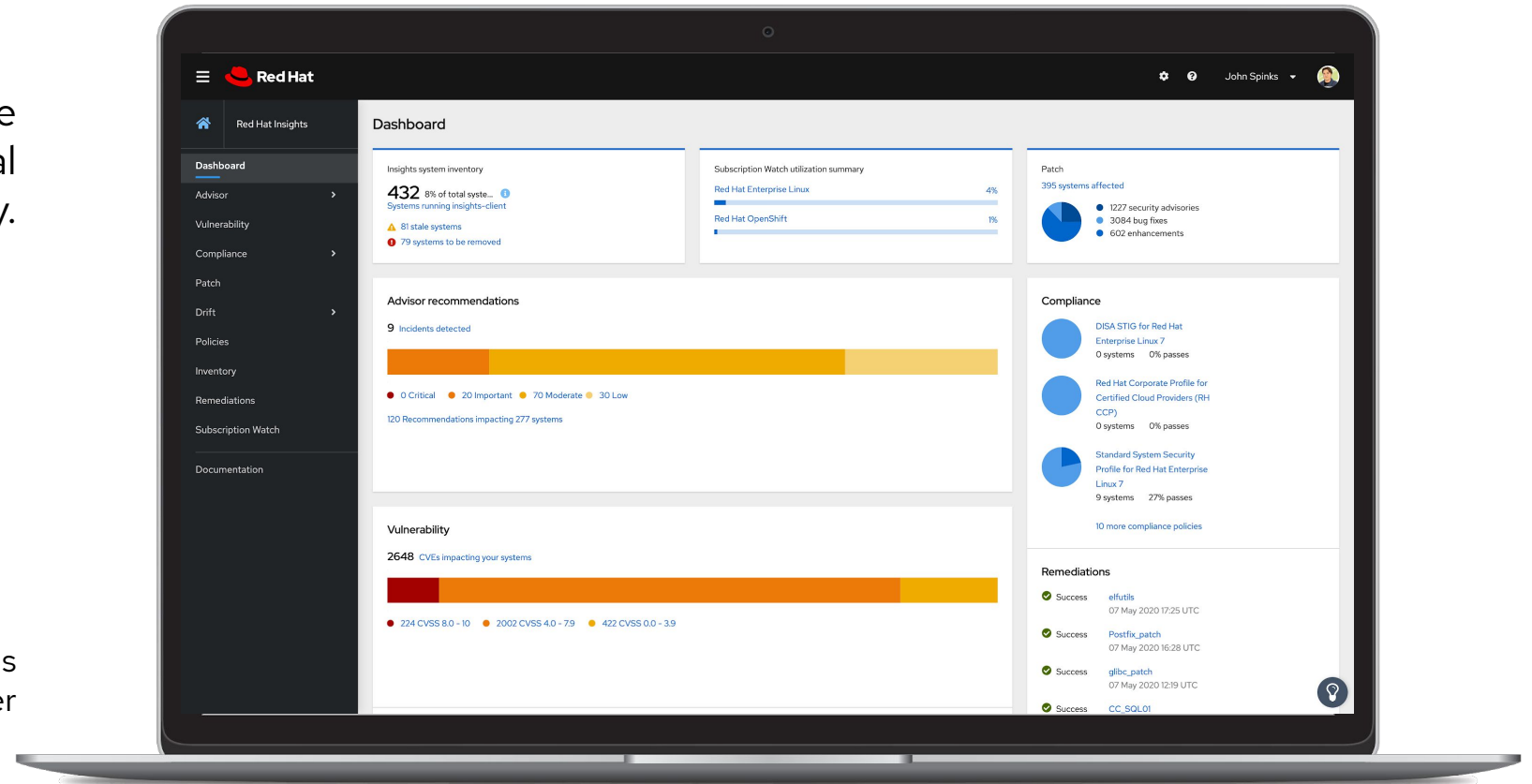
**Red Hat**  
Insights

# New and improved Red Hat Insights

Still included with Red Hat Enterprise Linux subscription, now with more value

New and expanded services provide additional security and operational efficiency.

\*Active RHEL subscriptions versions 6.4 & higher



# Dashboard

- Dashboard
- Advisor
- Vulnerability
- Compliance
- Patch
- Drift
- Policies
- Inventory
- Remediations
- Subscription Watch
- Documentation

### Insights system inventory

432 8% of total syste...  
Systems running insights-client

- 81 stale systems
- 79 systems to be removed

### Subscription Watch utilization summary



### Patch

395 systems affected



### Advisor recommendations

9 Incidents detected



0 Critical 20 Important 70 Moderate 30 Low

120 Recommendations impacting 277 systems

### Compliance



10 more compliance policies

### Vulnerability

2648 CVEs impacting your systems



224 CVSS 8.0 - 10 2002 CVSS 4.0 - 7.9 422 CVSS 0.0 - 3.9

### Remediations

- Success `elfutils` 07 May 2020 17:25 UTC
- Success `Postfix_patch` 07 May 2020 16:28 UTC
- Success `glibc_patch` 07 May 2020 12:19 UTC
- Success `CC_SQL01`





# Take Insights to the next level

With Red Hat Smart Management

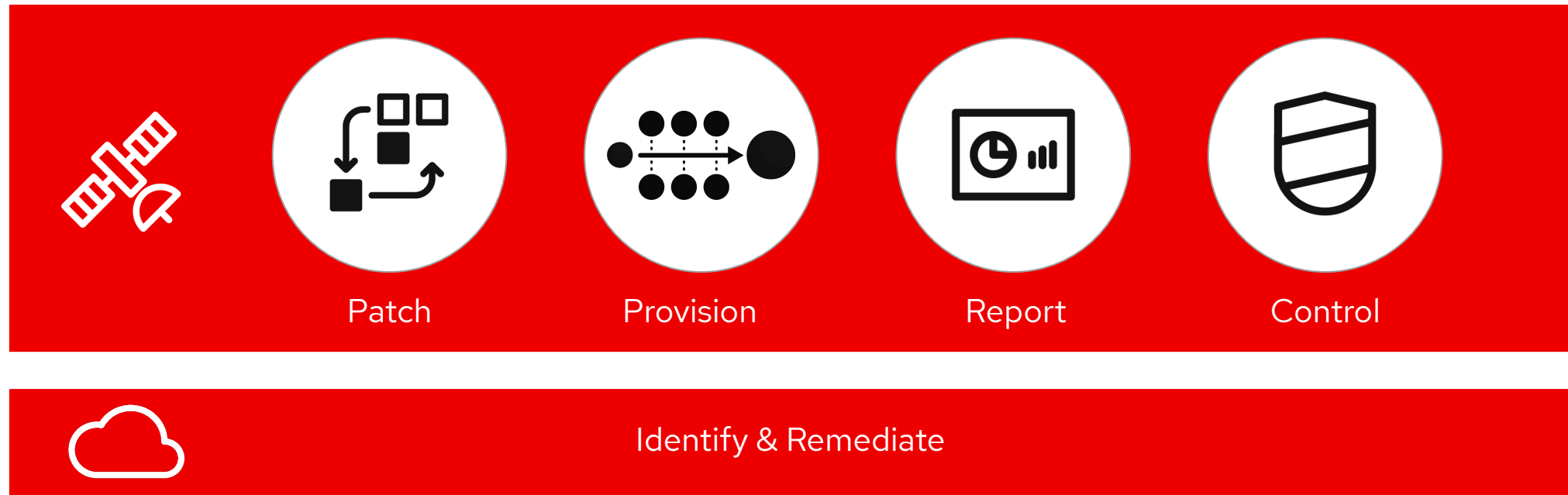


# Smart Management for Red Hat Enterprise Linux

Combine the powerful infrastructure capabilities of Red Hat Satellite with the simplicity of management from the cloud

Improve operational efficiency by 28%\*

Overcome scale, skill, and security gaps



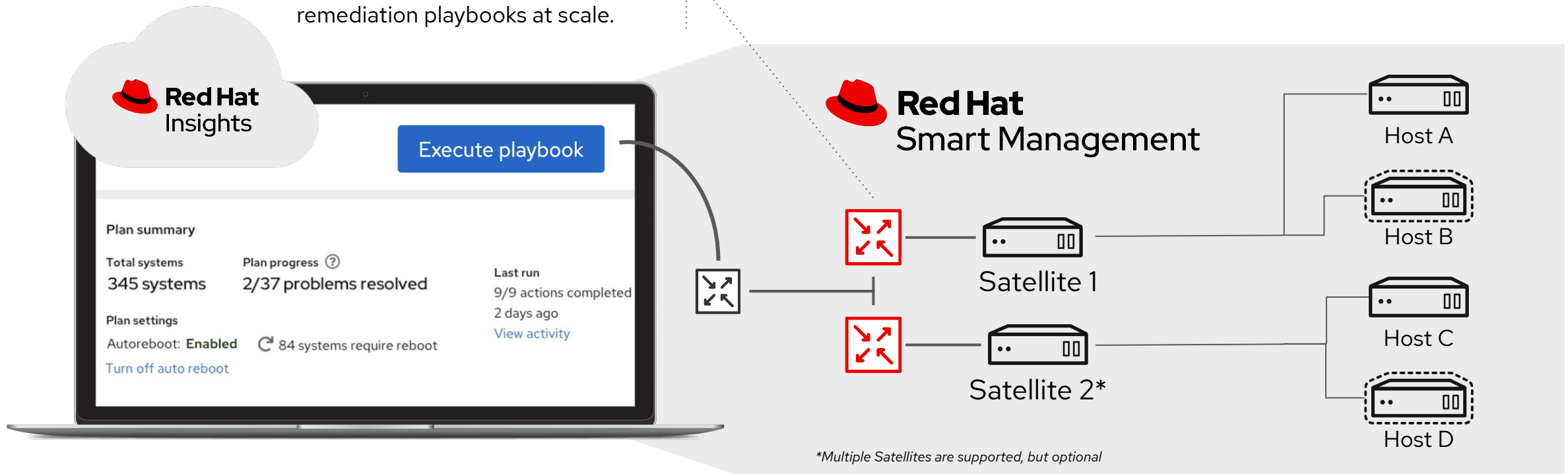
\*Source: Satellite IDC Business Value Whitepaper - [redhat.com/business-value-satellite](https://redhat.com/business-value-satellite)

# Introducing Cloud Connector

Smart Management subscription enables push-button remediation of issues identified by Insights

## Cloud Connector

Connects your federated Satellite infrastructure to Insights to execute remediation playbooks at scale.



# Getting Started with Red Hat Insights

# Installation and registration

## Simple and Straightforward

**Step #1:** Run # `yum install insights-client`

- Red Hat Enterprise Linux 8 users will not need to perform this step - the Insights client is pre-installed.

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# Installation and registration

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**Step #2:** Run # `insights-client --register`

**Step #3** See results at [cloud.redhat.com/insights](https://cloud.redhat.com/insights) and Remediate.

More information including automation playbooks are available at:

- <https://access.redhat.com/insights/getting-started>

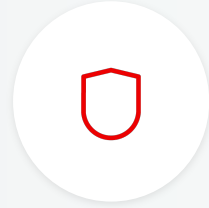
# Insights Services



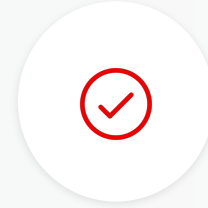
# Overview of expanded Red Hat Insights services



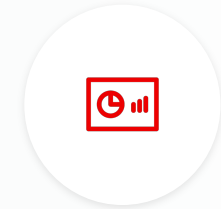
Advisor



Vulnerability



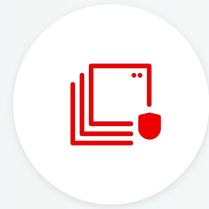
Compliance



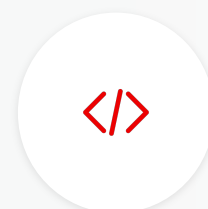
Subscription Watch



Drift



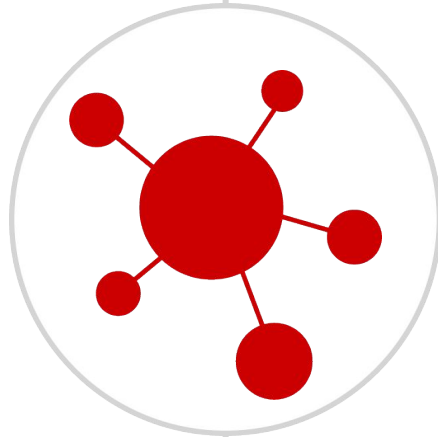
Policies



Patch

# Insights Demo

# Insights Summary



**Where are my systems?**

Insights has a single unified inventory to centralize all registered systems.



### What kinds of risks does Insights identify?

Each Insights services focuses on a different risk.

These could be CVEs, compliance issues, systems in need of patches, or Red Hat recommendations for availability or performance

## How do I fix issues that Insights find?

Most services provide remediation in the form of step-by-step instructions and in many cases an Ansible playbook.

Download the playbook and run it with Ansible Automation Platform





### How do I fix issues that Insights finds at scale?

With **Red Hat Smart Management**, you can use the combination of Red Hat Satellite and cloud connector to enable an “Execute Remediation” button and run remediation playbooks from Insights.

# Four ways Red Hat Insights can help you manage your Linux environment

1

## Where is my inventory?

Insights has a **single unified inventory** to centralize all registered systems.

2

## What kinds of risks does Insights identify?

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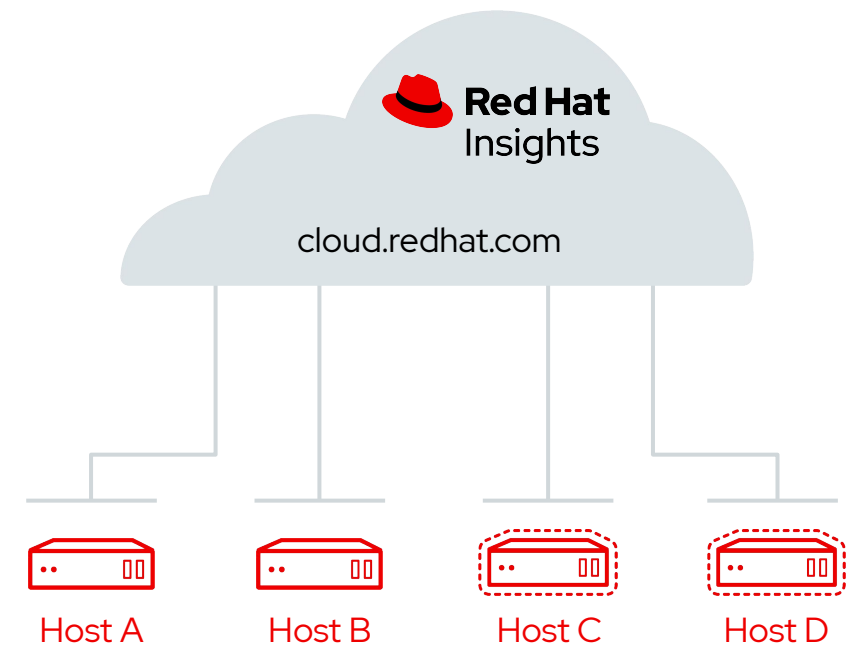
Most services provide **remediation** in the form of step-by-step instructions and in many cases an Ansible playbook.

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## How do I fix issues that Insights finds at scale?

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



- 1 Only portions of logs are collected.**  
Bits of information about server configuration, recommendation match to the line of a log file.
- 2 Data uploads are customizable.**  
For example, you can delete server names or IP addresses. Collection schedules are also customizable.
- 3 Information is encrypted.**  
From the client's servers through transmission to the Insights service.
- 4 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.

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Insights

# Resources & Next Steps

# Top 3 Insights Concerns

## **I can't use Software-as-a-Service (SaaS).**

Often we find that SaaS is already being used.

Services like Salesforce, ServiceNow, and New Relic are often deployed as SaaS.

## **Hostname / IP are sensitive, and we are concerned about sharing information about our systems.**

All data is encrypted in transit AND at rest, and you can easily redact that further.

## **I am located in <LOCATION>, and can't use Insights.**

Many regions have restrictions around citizen data storage, e.g., GDPR, but these types of laws are unrelated to the type of data Insights collects.

# Top 3 Insights Data Collection Concerns

## At a high level, what information does Insights collect?

Red Hat Insights Security Information article:

<https://red.ht/2V6doqq>

## How can my Security team review the actual Insights collection?

Generate a collection and inspect it in detail. Follow instructions in this article:

System Information Collected by Red Hat Insights

<https://red.ht/2yPIWsH>

## How can I redact information from the Insights collection?

See article on Obfuscating IP Addresses and Host Names in Red Hat Insights

<https://red.ht/2KebCgB>

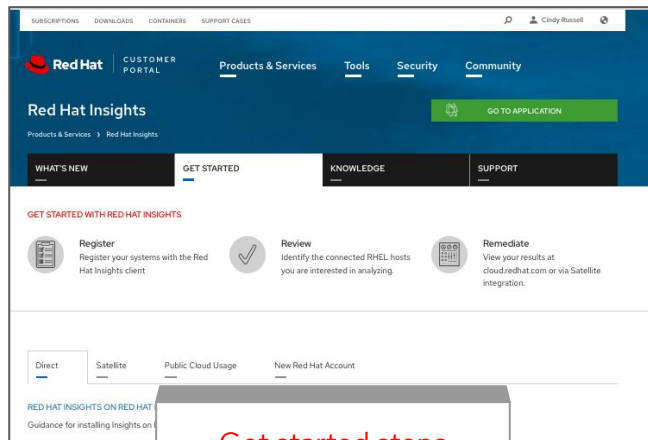
For more complicated redaction, refer to the: Use a YAML-style denylist Knowledgebase article:

<https://red.ht/36lo6gB>

# Three steps to advanced RHEL management

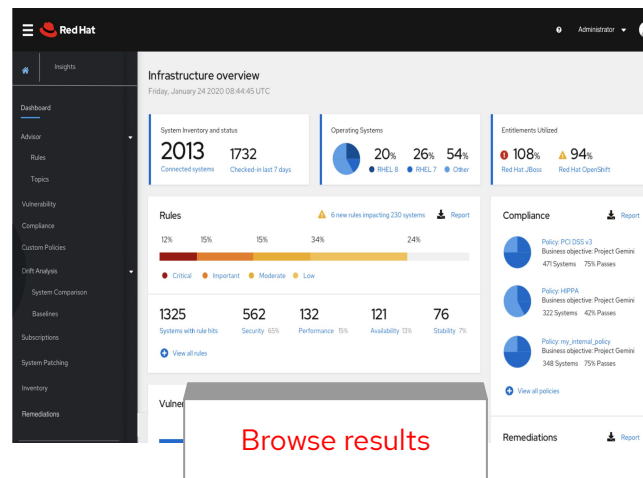
## Register

Install client for Red Hat instances on-premises, virtual, cloud.



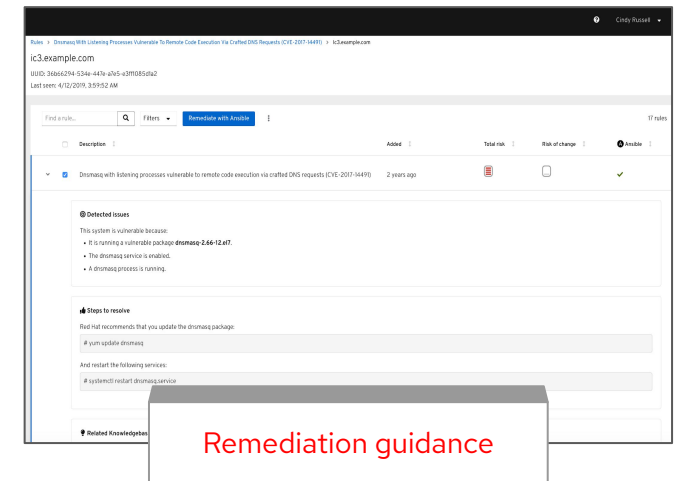
## Review

Insights client runs and issues found are reported in the Insights dashboard at cloud.redhat.com



## Remediate

Review issues and results in the dashboard and choose which you would like to remediate. Leverage guidance, and remediation options.



# A conversation with Red Hat Insights users

Morgan Peterman, Red Hat TAM, leads a panel discussion with two Red Hat Accelerators



**Insights is like having a full-time person** to review configurations and double check what we do, which is fantastic because **we cannot always be an expert in every single thing.** It takes care of performance tuning, setting up to align with best practices, and secure with patches installed to **ensure everything is running as it should be.**



If you have a very large environment, it is more like **adding a second team** because when you have more than 10,000 systems **it is a challenge of scale that cannot be solved with people,** you have to solve it with code - and Insights has done that... **we still get surprised by the issue Insights identifies.**

Hear more from Red Hat Insights users: [red.ht/Insights\\_April](https://red.ht/Insights_April)



# Red Hat Insights:

## Additional resources and next steps

### ALREADY A RED HAT® ENTERPRISE LINUX® CUSTOMER?

You have Red Hat Insights at no additional cost:

[https://red.ht/insights\\_start](https://red.ht/insights_start)

### WOULD YOU LIKE TO LEARN MORE ABOUT RED HAT INSIGHTS?

<https://redhat.com/insights>

For more info, visit: <https://access.redhat.com/insights/info>

Watch the [intro video](#)

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Read the [Insights blog](#)



# Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.



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