

# Red Hat Insights -Compliance Service

Automating your Compliance Needs with Insights and Ansible

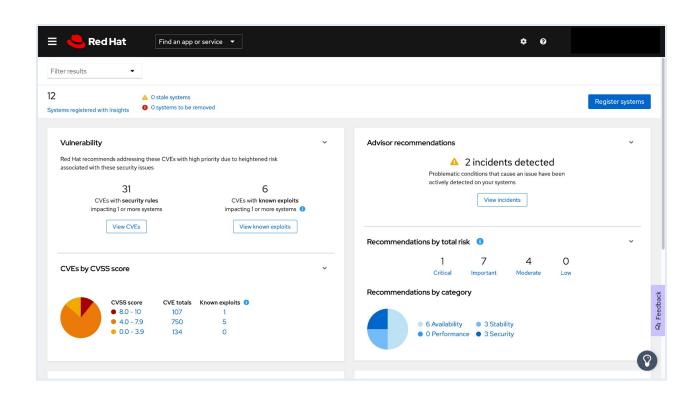
**Brian Dumont** 

Lt Principal 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







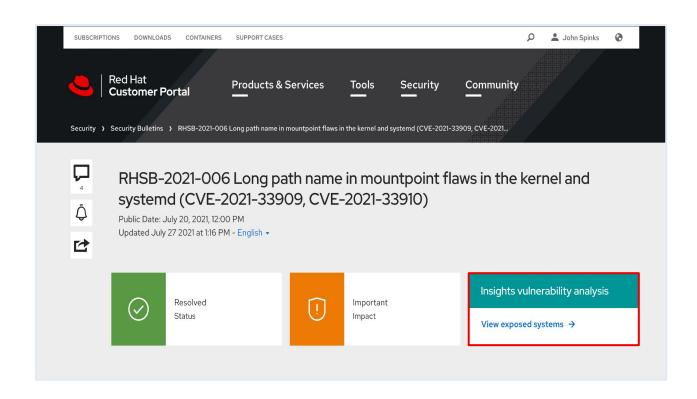


- ► **Gathers** configuration and utilization data from your Red Hat® products
- Analyzes the data based on Red Hat knowledge and expertise
- Generates and prioritizes insights for you to take action

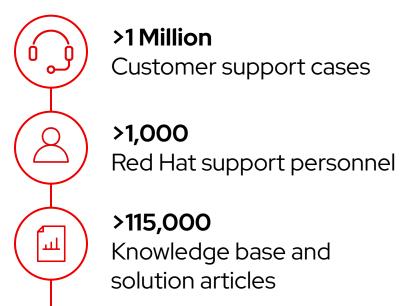


# How does Red Hat Insights help me?

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



## Modernized management with analytics and automation



96%	reduction in time to <b>detect</b> known risks to availability, performance, stability, and security
26%	reduction in administrator steps to <b>detect</b> these known risks
88%	less time to track <b>patch</b> status for all systems in environment, versus manual scripted workflow
1m 24s	to <b>discover</b> vulnerabilities in a 100-VM environment, versus over 15m when performed manually
91%	less task completion time to <b>address</b> a vulnerability









## **Business**

Track and optimize spending



## **Operations**

Improve stability and performance



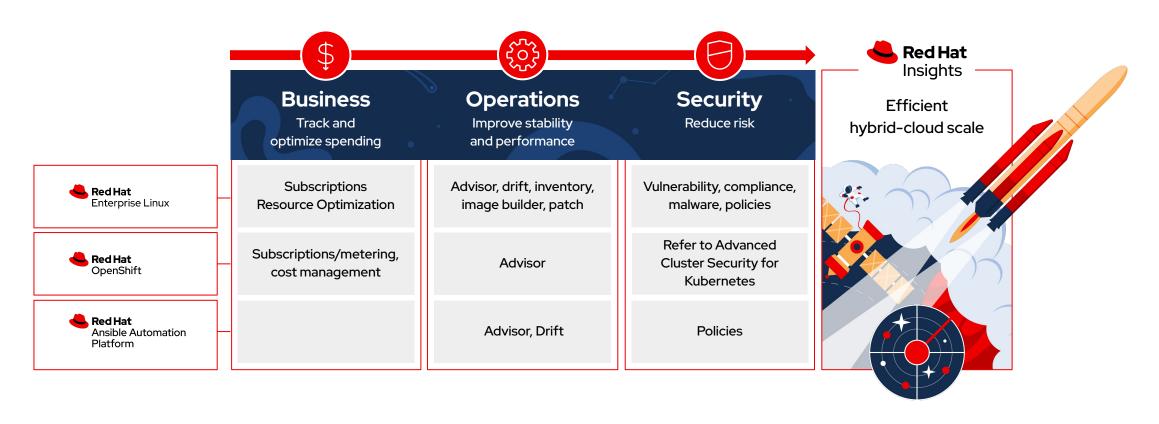
**Security** 

Reduce risk



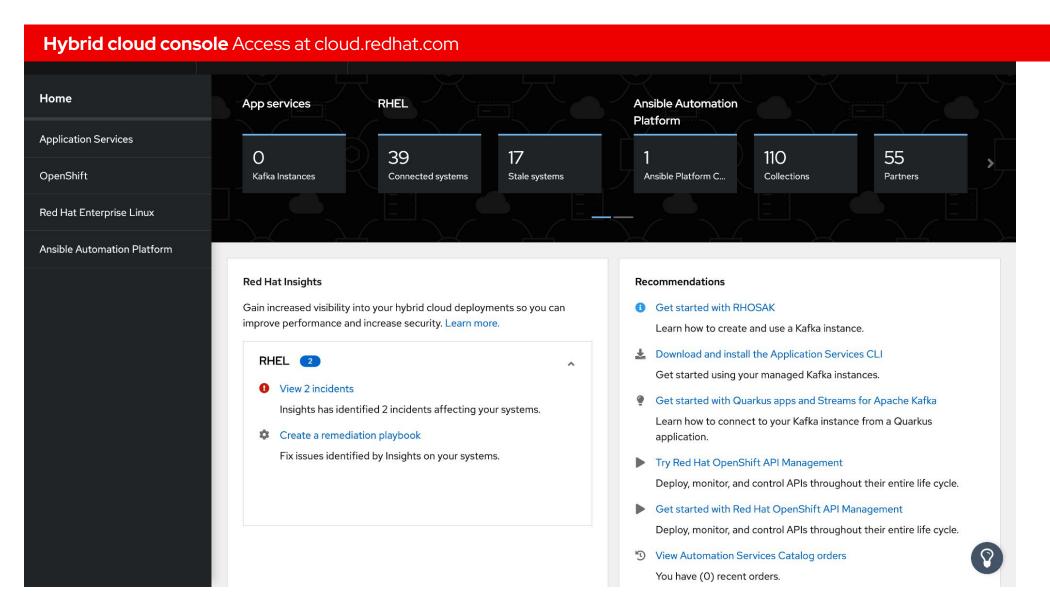
# Red Hat Insights

Aligning themes to services across platforms





#### **Red Hat Insights**



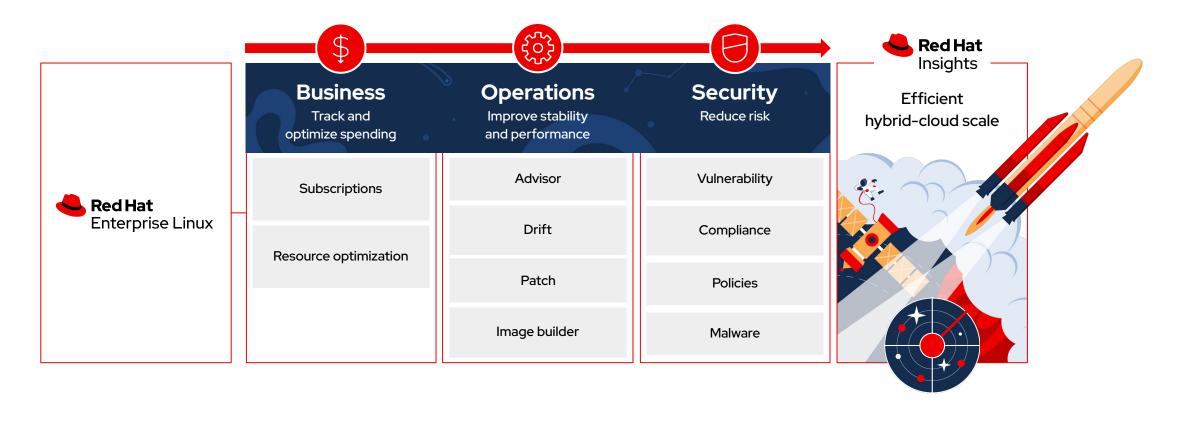


# Red Hat Insights for Red Hat Enterprise Linux



# Red Hat Insights for Red Hat Enterprise Linux

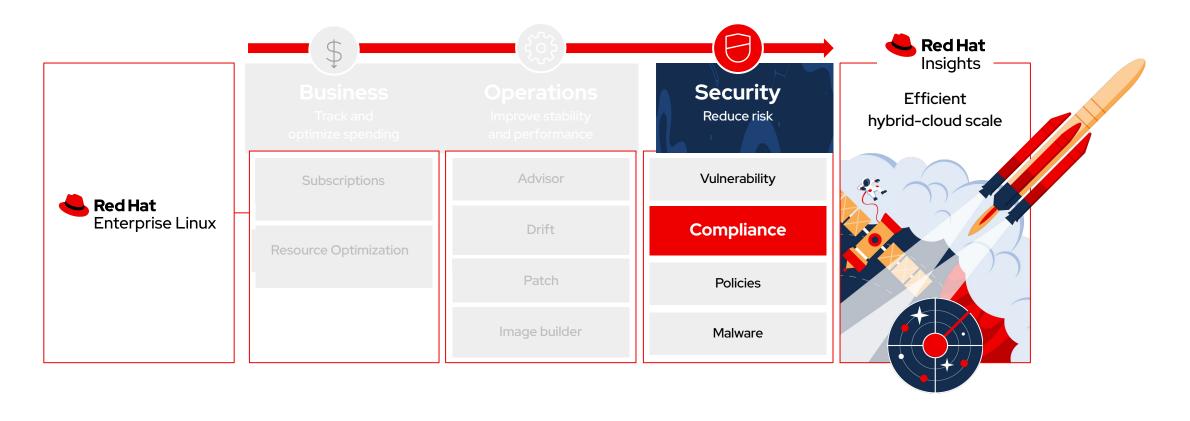
For all your hybrid-cloud challenges





# Red Hat Insights for Red Hat Enterprise Linux

For all your hybrid-cloud challenges





# 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



#### Compliance: Assess and monitor regulatory compliance, built on OpenSCAP Filter by status Compliance > Reports > Report: PCI-DSS v3.2.1 Control Baseline for Red Hat Enterprise Linux 8 Report: PCI-DSS v3.2.1 Control Baseline for Red Hat Enterprise Linux 8 Delete report **Download PDF** PCI-DSS v3.2.1 Control Baseline for Red Hat Enterprise Linux 8 Policy details Operating system RHEL 8 1 system compliant 7% Compliant ■ 10 systems non-compliant Compliance threshold 90.0% 1 system not supported ② **Business objective** To be in compliance with all the things 2 systems never reported ? View policy ▲ 1 systems not supported ② **T** Name □ 0 selected ▼ ▼ Filter by name Q Remediate 1 - 14 of 14 🔻 Name Tags SSG version Failed rules Compliance score Last scanned dur-rhc00.hcc-lab.com **A** 0.1.57 65 Unsupported 46 minutes ago RHEL 8.1 dur-rhc03.hcc-lab.com 0 0.1.54 6 **92%** 45 minutes ago RHEL 8.4



**Security** 

# Red Hat Insights for Red Hat Enterprise Linux

**Advanced capabilities** 



# Remediation

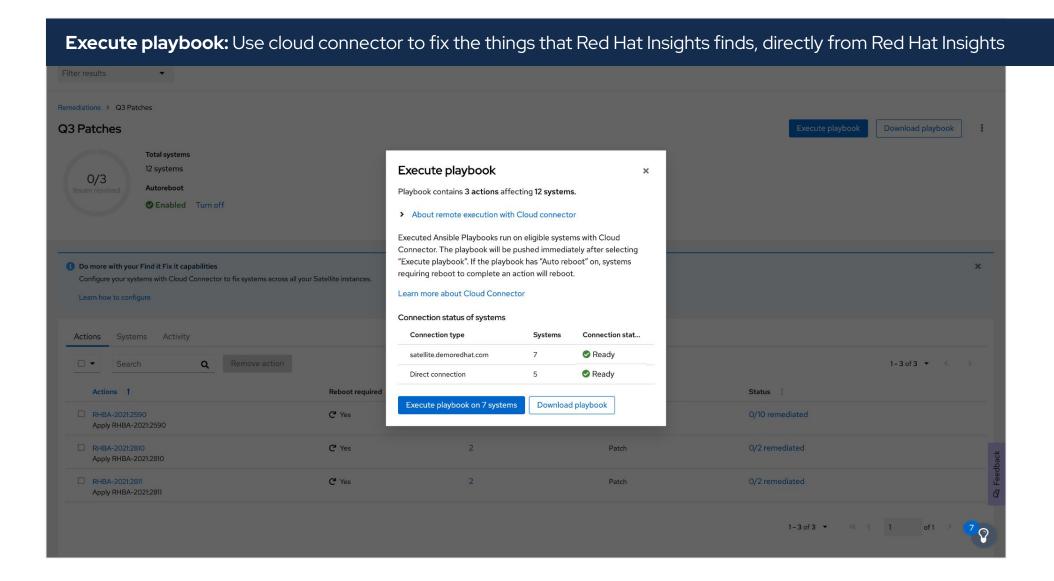
Built in playbooks for remediation provided by several Insights services

- Any Insights user can download playbooks
- Smart Management customers can execute the playbooks via Satellite or Remote Host Configuration (RHC)
- Ansible Automation Platform can sync playbooks from Insights



#### **Remediations:** Create Red Hat Ansible remediation playbooks to resolve the issues that Red Hat Insights finds • Filter results Remediations Download playbook 1-8 of 8 ▼ 〈 > Search playbooks : 0 : 0 CVE-2021-3543 glib2 patch **SUDO Fix** Last modified: 1 month ago Last modified: 20 days ago Last modified: 1 month ago Complete actions Complete actions Complete actions Systems Systems Systems **⊘**1 of 1 1 of 1 □ 1 of 1 glib2 - 206 AWS-kdump RHEL7 - RHSA-2021:1469 : 0 Last modified: 1 month ago Last modified: 2 months ago Last modified: 2 months ago Systems Complete actions Systems Complete actions Systems Complete actions 1 of 1 **⊘**1 of 1 1 of 1 SUDO\_Fix rhctest Last modified: 2 months ago Last modified: 3 months ago Complete actions Complete actions Systems Systems O of 0 1 of 1







# Red Hat Insights Compliance Demo

Getting started with Red Hat Insights and OpenSCAP for compliance reporting

https://www.redhat.com/en/blog/getting-started-red-hat-insights-and-openscap-compliance-reporting

Red Hat Compliance service and the Red Hat Insights API

https://www.redhat.com/en/blog/red-hat-compliance-service-and-red-hat-insights-api



## Demo Setup

#### **Automation Steps During Provisioning Process**

#### **Part of Automated Standard Operating Environment**

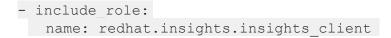


 Provision VM and assigned label/tag indicating what type of compliance policy should be assigned



Run the *Insights-Client* role to install and register Insights







- Run the Insights-Compliance role to install the OpenSCAP packages
  - Install task only

```
tasks:
   - name: install insights compliance
   import role:
      name: redhat.insights.compliance
      tasks_from: install
```



## Demo Steps

#### Help keep me honest

- 1. Show how to create compliance policy in Insights
- Execute an Ansible Automation Platform workflow that:
  - a. Assigns a host to a compliance policy
  - b. Runs the Insights-compliance scan on the hosts
- 3. Show the compliance reports in console.redhat.com
- 4. Demonstrate how to remediate the deficiencies

Github repo: <a href="https://github.com/bdumont01/insights-api-project.git">https://github.com/bdumont01/insights-api-project.git</a>

Ansible blog: When localhost isn't what it seems in Red Hat Ansible Automation Platform 2



# Hybrid Cloud Console Settings

Insights is hosted on the Hybrid Cloud Console



# My User Access

Simple View of your permissions to Hybrid Cloud Console services

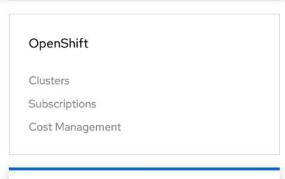
Shows your roles and permissions to all services

What's New - Q2 2022:



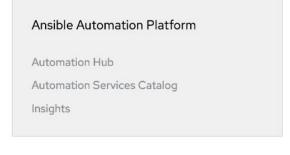
#### My User Access

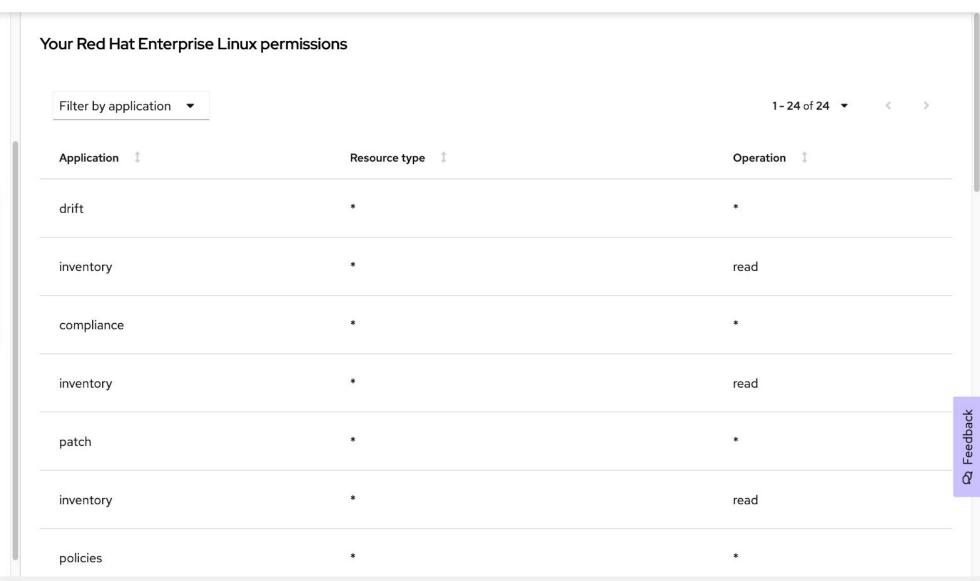
Select applications to view your personal permissions.





#### Not subscribed





# **User Access**

Role Based Access Control (RBAC) for the Hybrid Cloud Console

- Visibility into users on your account (Read only)
- View and create roles
- View and create groups.
- Assign users to groups

#### What's New - Q2 2022:

- Default admin access group
- Notifications integration



Red Hat **Hybrid Cloud Console** 

□ ▼ Fill	er by name Q	Create group				1-5 of 5 ▼	< >
Name ‡			Roles	Members	Last modified 1		
Default acce	ss ?		16	All	19 May 2021		
Default adm	n access		0	0	11 days ago		9 9
□ Limited Acce	ess Group		2	1	52 minutes ago		:
□ TMM_Admin	_Group		38	17	23 Feb 2022		
□ Viewer Grou	p		13	1	23 Feb 2022		:
					1-5 of 5 ▼	1 of 1 >	»
							C

# Sources

Sources are how we connect with public cloud providers and other services or tools to collect information.

- Connect to a cloud provider to enable
  - OpenShift Cost Management
  - · RHEL Management
- Depending on the cloud provider this may also
  - Unlock gold images
  - Enable auto registration
  - · Allow for more granular tracking of subscription utilization

#### What's New - Q2 2022:

- Notifications integration
- Satellite 6.11 Cloud Connector improvements
- RHEL Management for GCP (already supported for Azure and AWS)



#### Sources

Cloud sources

Red Hat sources

#### I connected to cloud. Now what?

#### **Gold images**

Connecting to Amazon Web Services or Microsoft Azure unlocks automatic access to Red Hat gold images. View gold images in your provider console.

Use Red Hat gold images on AWS

Use Red Hat gold images on Microsoft Azure

Learn more about Red Hat gold images →

#### Explore Red Hat Insights

Use RHEL instances in the cloud and gain other value-add services, such as predictive analytics.

Learn more about Red Hat Insights

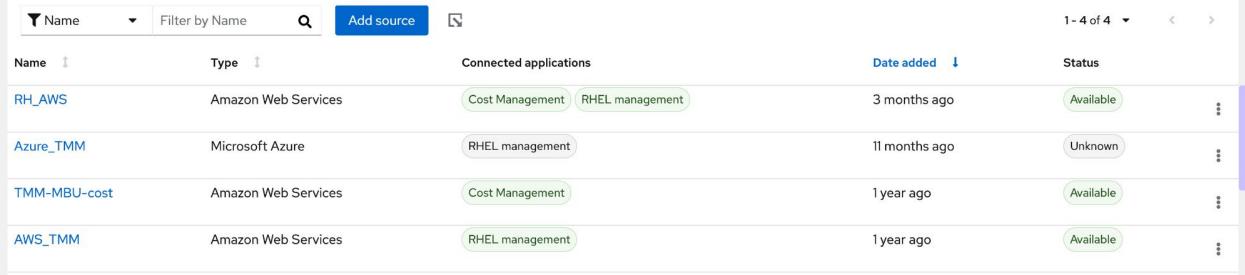
Enable additional Insights services >

#### 

Use the Subscriptions service to monitor account-level summaries of your Red Hat subscription profile.

Learn more about Subscriptions

Go to Subscriptions >



# **New Resources**

#### Videos:

#### **Overview Videos:**

Red Hat Insights Overview

#### Webinars & Livestreams

- March 30, 2022 <u>Comprehensive awareness</u>
   and proactive solutions for government
   agencies and departments
- October 20, 2021 <u>RHEL Presents</u>
   <u>Livestream E23 Insights Vulnerability Service</u>
- November 3, 2021 <u>Level Up Hour Insights</u>
- November 4, 2021 <u>Insights for Ansible</u>
   <u>Convergence webinar</u>

#### **Customer Success Stories**

YouTube Playlist for Red Hat Insights

## Blogs/ Analyst Reports / Press Releases:

#### Red Hat Blogs:

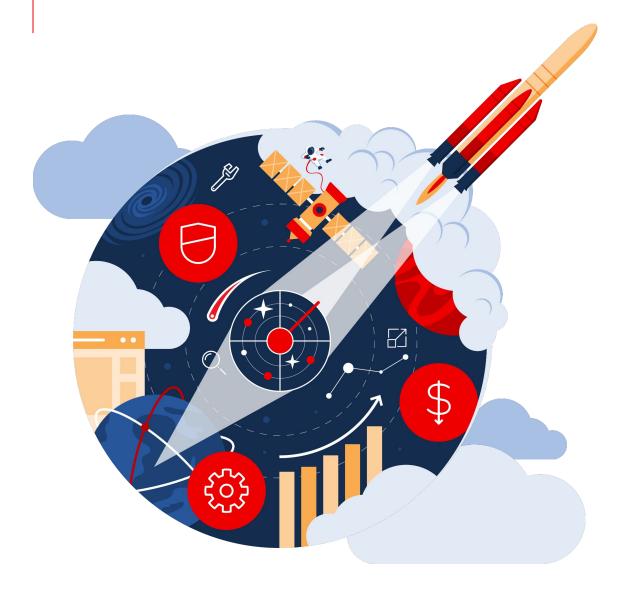
- <u>Finding and using disabled recommendations in Red Hat Insights</u>
   Advisor
- Self-healing infrastructure with Red Hat Insights and Ansible
   Automation Platform
- Red Hat Insights and the delivery of a new security recommendation
   Infographic:
- Boost your operations with Red Hat Insights

#### Analyst Reports:

- Graybar Boosts IT Infrastructure Automation and Management with Red Hat Enterprise Linux
- Save administrator time and effort by activating Red Hat Insights
- Achieving Intelligent DevOpsHow Open Source Software and Linux

  Fit into Today's DevOps and Digital Business Initiatives

  Red Hat
- Red Hat Insights predictive analytics for Red Hat Enterprise Linux



# Boost your IT operations

Go to cloud.redhat.com today



Read our blog:
https://www.redhat.com/en/blog/chann
el/red-hat-insights »





# 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.

- in linkedin.com/company/red-hat
- youtube.com/user/RedHatVideos
- facebook.com/redhatinc
- twitter.com/RedHat

