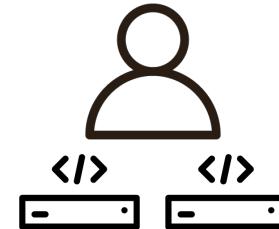




# Red Hat Smart Management

# Real World Challenges

# Gartner: Customers losing \$300,000 per hour on average due to IT downtime



## Manage sprawl

More infrastructure and complexity than ever to manage

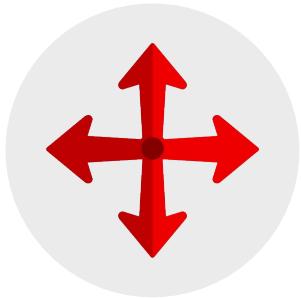
## Reducing risk

Lack of proactive assessment and management of known issues creates exposure

## Limited resourcing

Teams are stretched and lacking Linux skills being asked to do more with flat or decreasing budgets

# How do you currently manage your IT environment?



Do your processes scale?



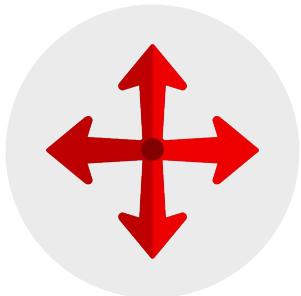
Are you confident you can  
quickly respond?



Are your systems compliant?

# Red Hat Smart Management

# Red Hat Smart Management can help



Do your processes scale?



Increase efficiency



Are you confident you can  
quickly respond?



Address security easily



Are your systems compliant?



Audit and remediate systems

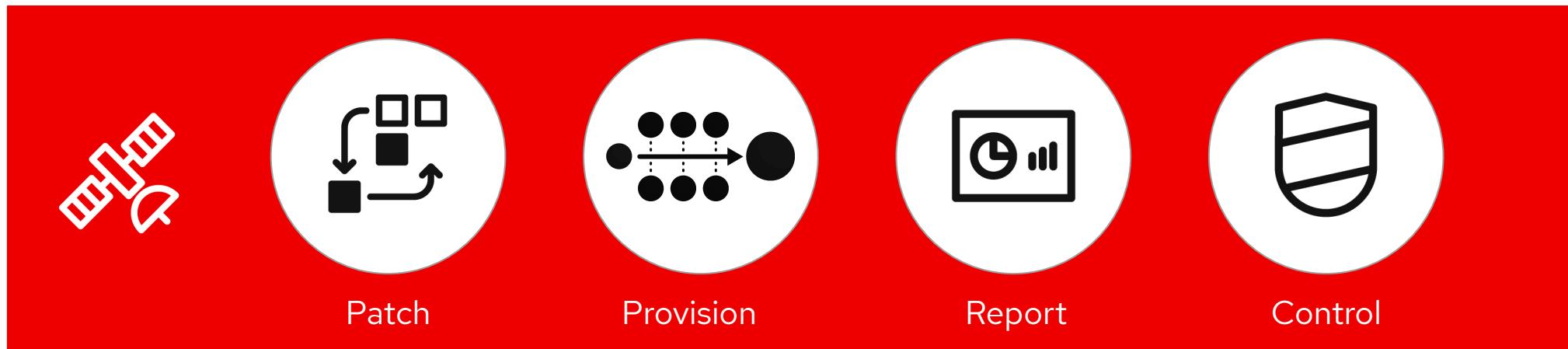
**Smart Management enables you to improve the reliability, availability, security and compliance of your RHEL systems, running on any platform, while reducing TCO and repetitive tasks**

# Smart Management for Red Hat Enterprise Linux

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

Improve operational efficiency by 28%\*

Overcome scale, skill, and security gaps



\*Source: [Satellite IDC Business Value Whitepaper](#)

# What's included with Smart Management?

Smart Management includes:



Red Hat Satellite



Cloud Connector

# Introduction to Cloud Connector

# Cloud Connector



## Cloud Connector

Cloud Connector manages the communication between Satellite and Red Hat Insights at [cloud.redhat.com](https://cloud.redhat.com) and enables push-button remediation from Insights.

# Red Hat Insights

Included with all Red Hat Enterprise Linux subscriptions

Buy

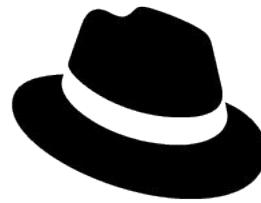


**Red Hat**  
Enterprise Linux

Get



**Red Hat**  
Insights



# Red Hat Insights

**PREDICT RISK. GET GUIDANCE. STAY SECURE.**

**PREDICTIVE I.T. ANALYTICS**

**AUTOMATED EXPERT ASSESSMENT**

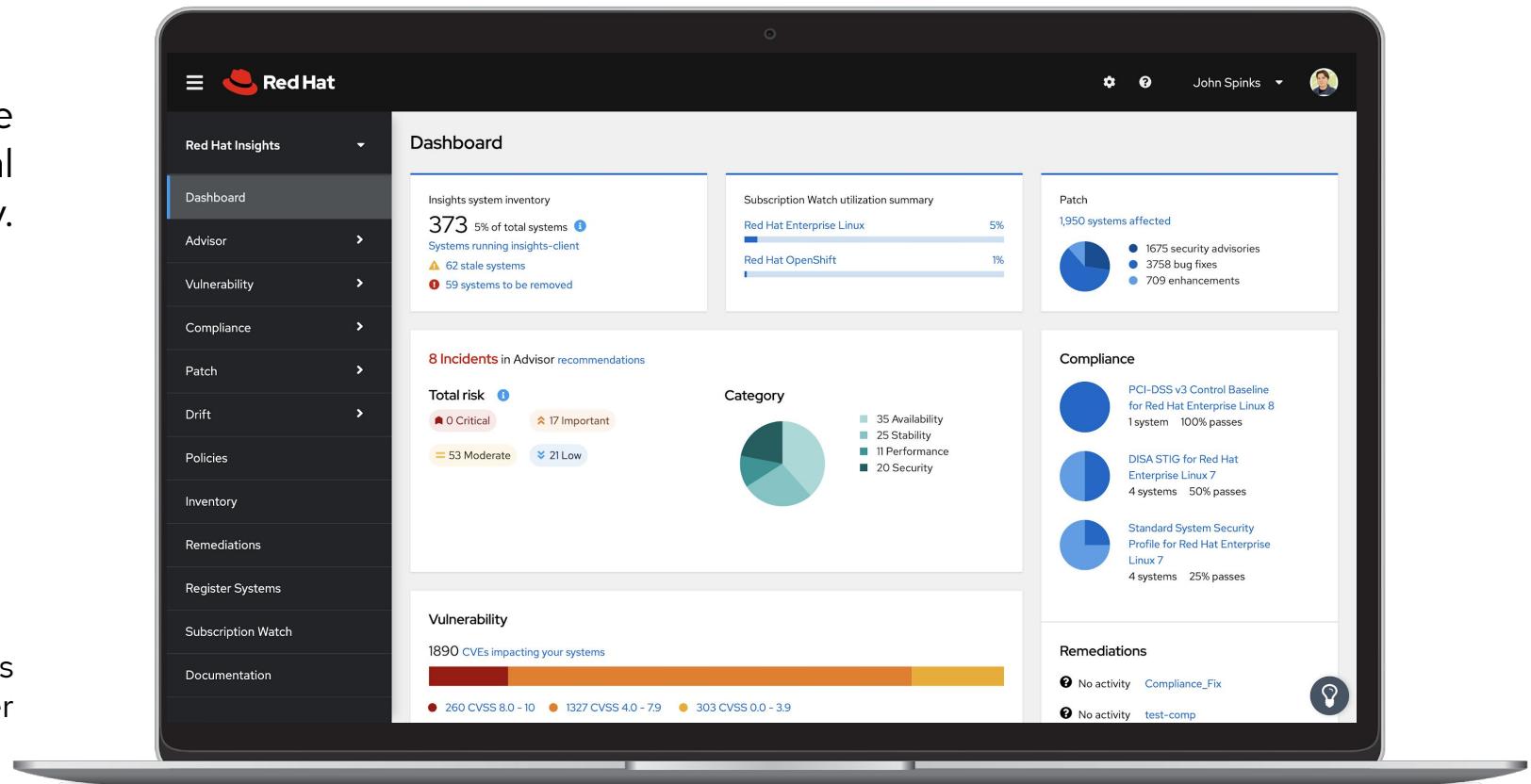
**SIMPLE REMEDIATION**

# Red Hat Insights

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



# Red Hat Insights Services



## Advisor

Availability, performance, stability, and security risk analysis



## Vulnerability

Assess Common Vulnerabilities and Exposures (CVEs) with advisories



## Compliance

Assess and monitor compliance, built on OpenSCAP



## Subscriptions

Track progress of your Red Hat subscription usage efficiently and confidently



## Drift

Create baselines and compare system profiles



## Policies

Define and monitor against your own policies to identify misalignment



## Patch

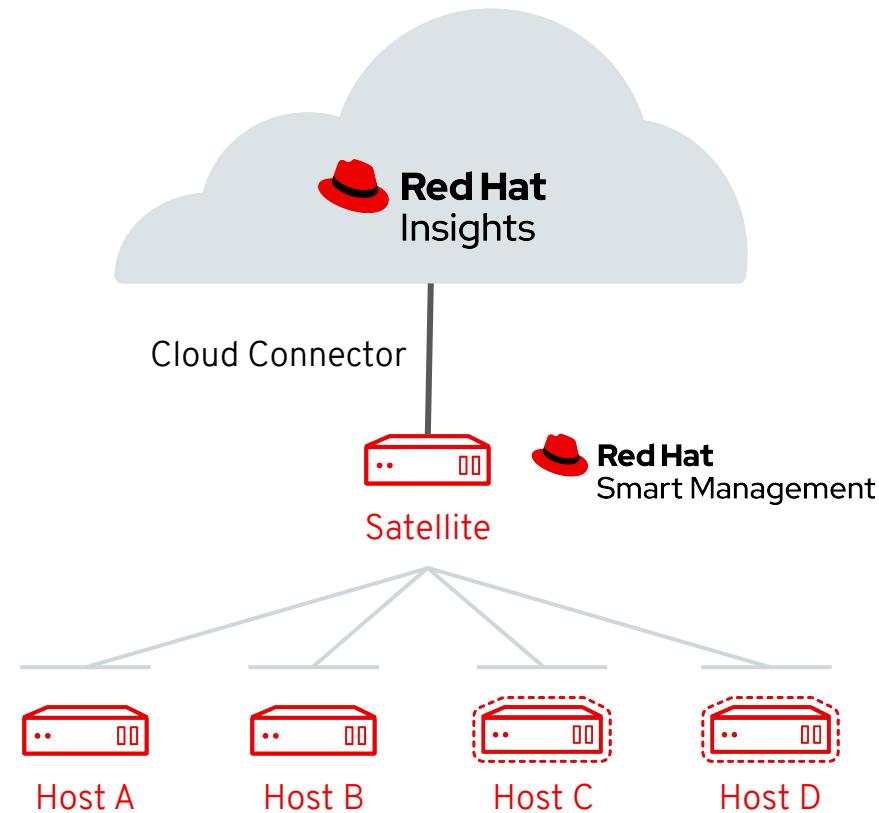
Analyze for Red Hat product advisory applicability to stay up to date

# What is Cloud Connector?

Using Red Hat Insights and Smart Management you can easily identify risks, Vulnerability, and Compliance issues in your environment and fix them via your trusted Satellite infrastructure with the click of a button.

- Connects your Satellite infrastructure to cloud.redhat.com
- Create playbooks via Insights and run them using existing Satellite and Capsules
- Included with your Smart Management subscription

For more information, refer to the intro [blog](#) or [video](#)



Red Hat Insights

Dashboard

Advisor &gt;

Vulnerability &gt;

Compliance &gt;

Patch &gt;

Drift &gt;

Policies

Inventory

Remediations

Register Systems

Subscription Watch

Documentation

Remediations &gt; CVE-2020-10713

## CVE-2020-10713

[Download playbook](#)

### Put Insights into action

Enable push-button remediation across your hybrid cloud environment with Red Hat Smart Management.

[Learn more](#)

### Playbook summary

**Total systems**

102 systems

### Playbook settings

Auto reboot: **Enabled** 2 systems require reboot[Turn off auto reboot](#)

**Without a Smart Management subscription**

You can only download the playbooks from Insights

[Actions](#)[Activity](#) Search actions[Remove action](#)

1 - 1 of 1



1

of 1

 [Actions ↑](#)**Resolution****Reboot requ...****Systems****Type** [CVE-2020-10713](#)

Upgrade packages affected by CVE-2020-10713



102

Vulnerability

## Red Hat Insights

## Dashboard

## Advisor

## Vulnerability

## Compliance

## Patch

## Drift

## Policies

## Inventory

## Remediations

## Register Systems

## Subscription Watch

## Documentation

Remediations &gt; CVE-2020-10713

## CVE-2020-10713

[Execute playbook](#)[Download playbook](#)

⋮

## Do more with your Find it Fix it capabilities

Configure your systems with Cloud Connector to fix systems across all your Satellite instances.

[Learn how to configure](#)

## Playbook summary

Total systems

102 systems

## Playbook settings

Auto reboot: **Enabled** 6 systems require reboot[Turn off auto reboot](#)**With a Smart Management subscription,  
but Cloud Connector is not configured**Execute playbook button is shown, but not available since  
Cloud Connector isn't set up

Actions Activity

Search actions



Remove action

1 - 1 of 1

&lt;&lt; &lt; &gt; &gt;&gt;

1

of 1

 Actions ↑

Resolution

Reboot requ...

Systems ↑

Type ↑

 CVE-2020-10713

Upgrade packages affected by CVE-2020-10713



102

Vulnerability

Red Hat Insights

Dashboard

Advisor

Vulnerability

Compliance

Patch

Drift

Policies

Inventory

Remediations

Register Systems

Subscription Watch

Documentation

Remediations &gt; CVE-2020-10713

## CVE-2020-10713

Execute playbook

Download playbook

⋮

## Playbook summary

## Total systems

102 systems

## Playbook settings

Auto reboot: **Enabled** 102 systems require reboot[Turn off auto reboot](#)**With Cloud Connector configured**

Execute playbook button is available and issues can be fixed through Satellite.

Actions Activity

Search actions



Remove action

1 - 1 of 1 ▾



1

of 1



Actions ↑

Resolution

Reboot requ...

Systems

Type



CVE-2020-10713

Upgrade packages affected by CVE-2020-10713



102

Vulnerability

1 - 1 of 1 ▾



&lt;

1

of 1



## Execute playbook

### Execute → Pre-flight check → Remediation

Clicking the execute playbook button performs a pre-flight check to validate that all hosts selected are connected via a Satellite.

If a host isn't connected, or if the connection is not working, manually remediation will need to be performed.

## Execute playbook



Playbook contains **1 action** affecting **101 systems**.

Systems connected to a Satellite instance and configured with Receptor can be automatically remediated. To remediate other systems, download the Ansible Playbook.

### Connection status of systems

Connection type	Syste...	Connection status
ip-172-31-38-54.us-eas...	7	Ready
wallsat67.usersys.redh...	1	Ready
Satellite 5a6f8d67-cc3...	4	Cannot remediate - Satellite not configured Satellite not registered for Playbook execution
dell-per320-3.gsslabs.p...	2	Connection issue Receptor not responding
dhcp145-118.rdu.redhat...	1	Connection issue Receptor not responding
Direct connection	80	Cannot remediate - Direct connection. Connect your systems to Satellite to automatically remediate. <a href="#">Learn how to connect</a>

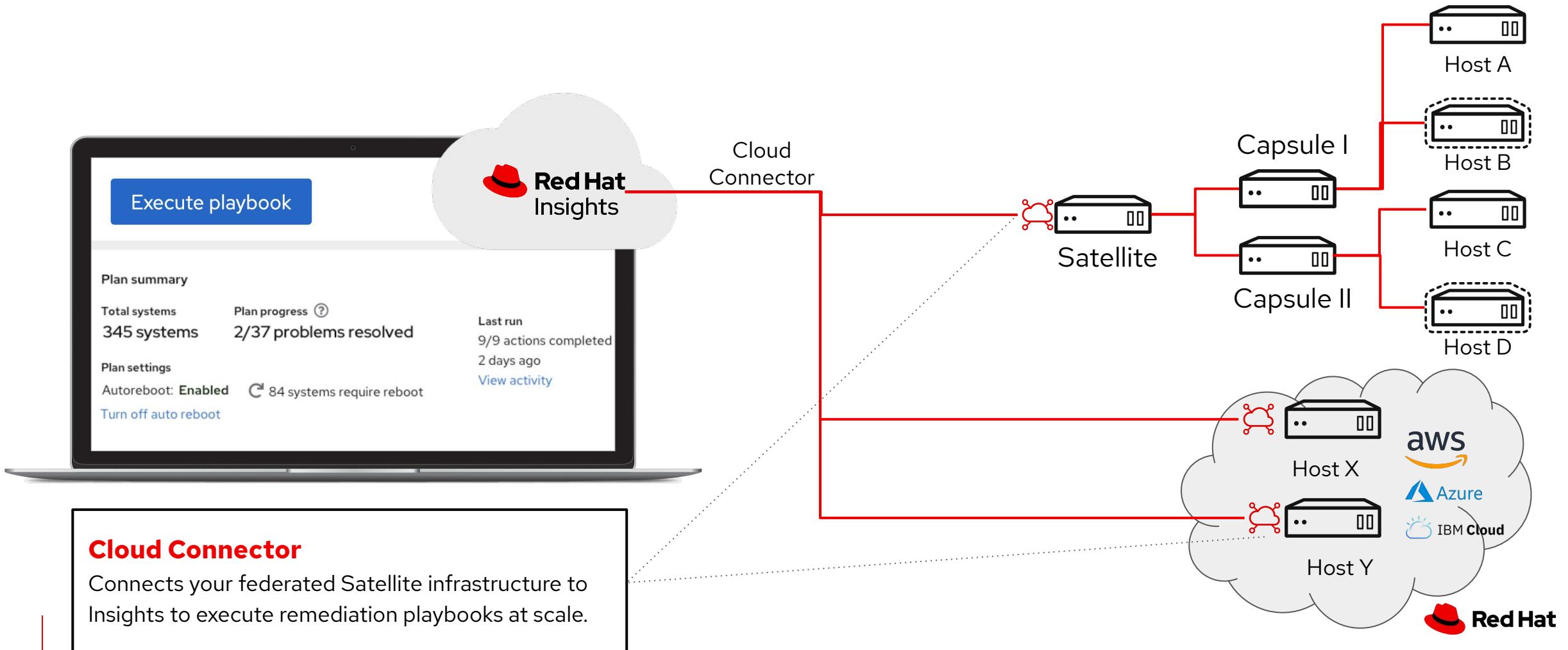
[Execute playbook on 8 systems](#)

[Download playbook](#)



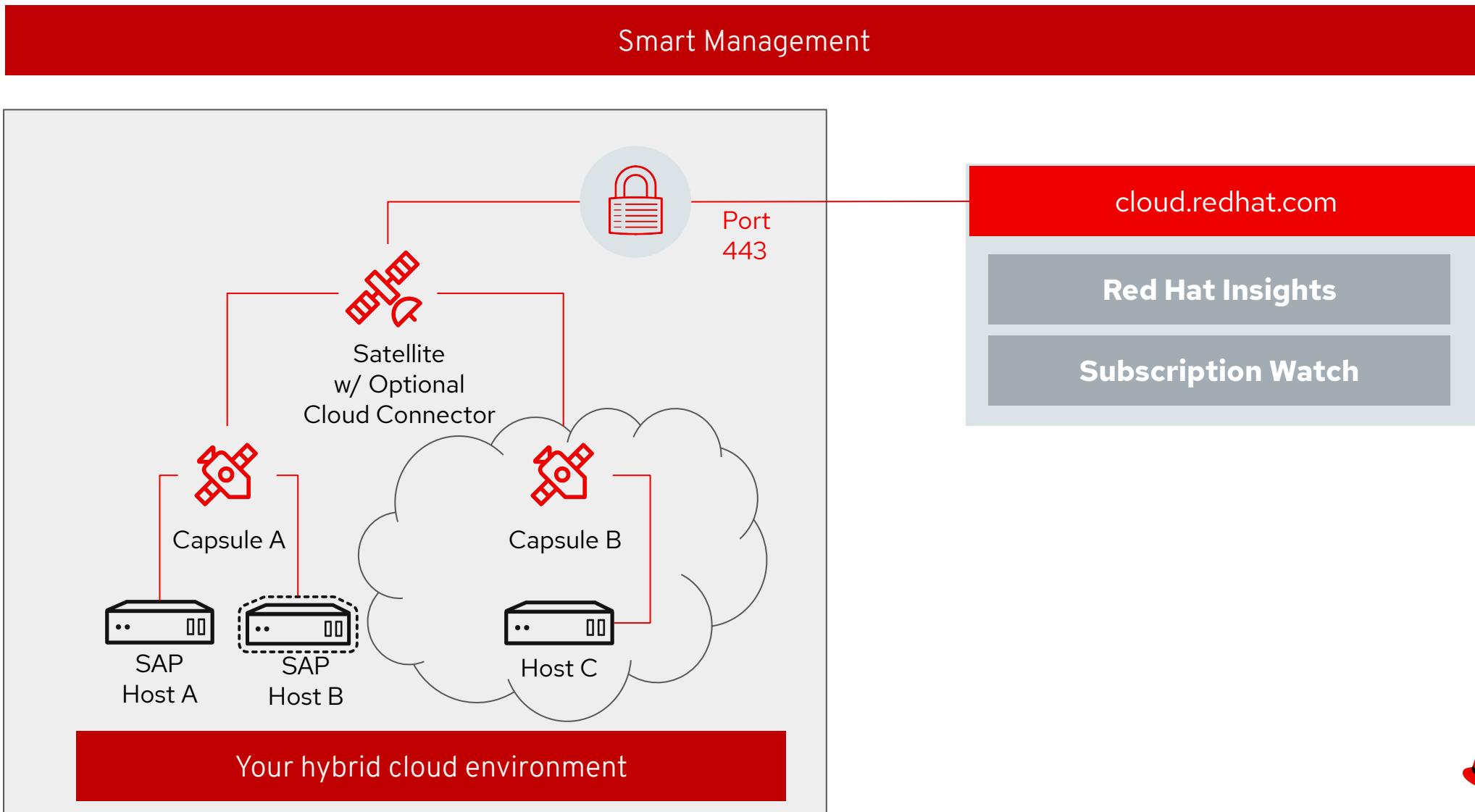
# Red Hat Smart Management and Cloud Connectivity

Smart Management subscription enables push-button remediation of issues identified by Insights, with and without Satellite



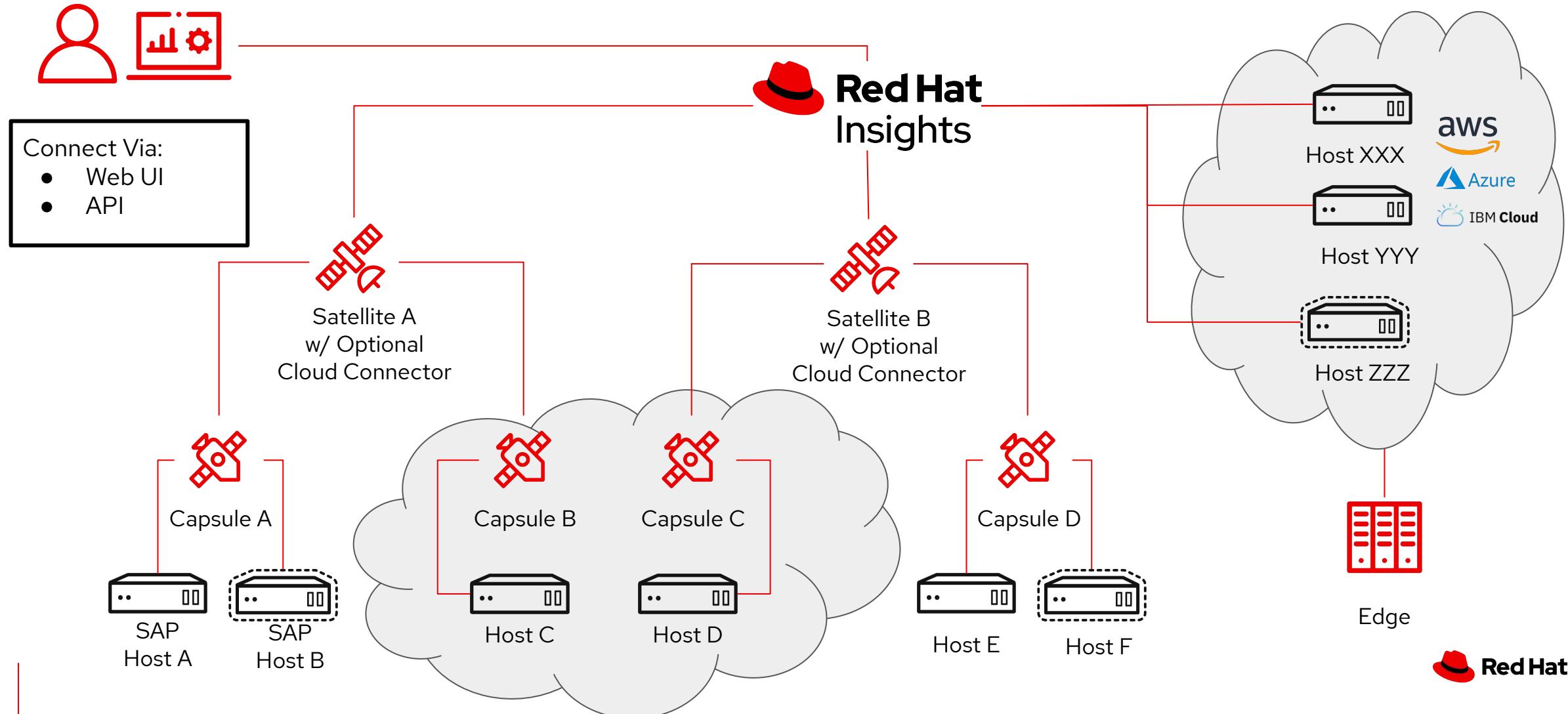
# Insights and Smart Management

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



# Insights and Smart Management

Use Insights to get a centralized view of all hosts in your environment, even across multiple Satellites

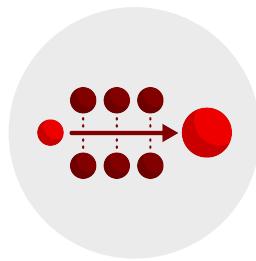


# Introduction to Satellite

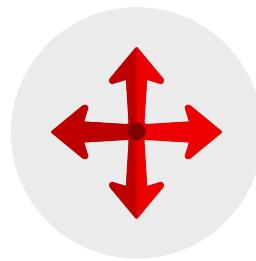
# Why Red Hat Satellite?



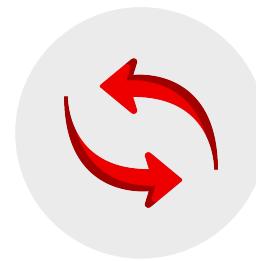
Manage Red Hat®  
infrastructure



Streamlined  
content management



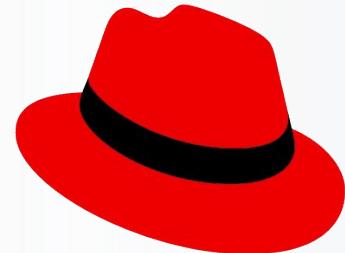
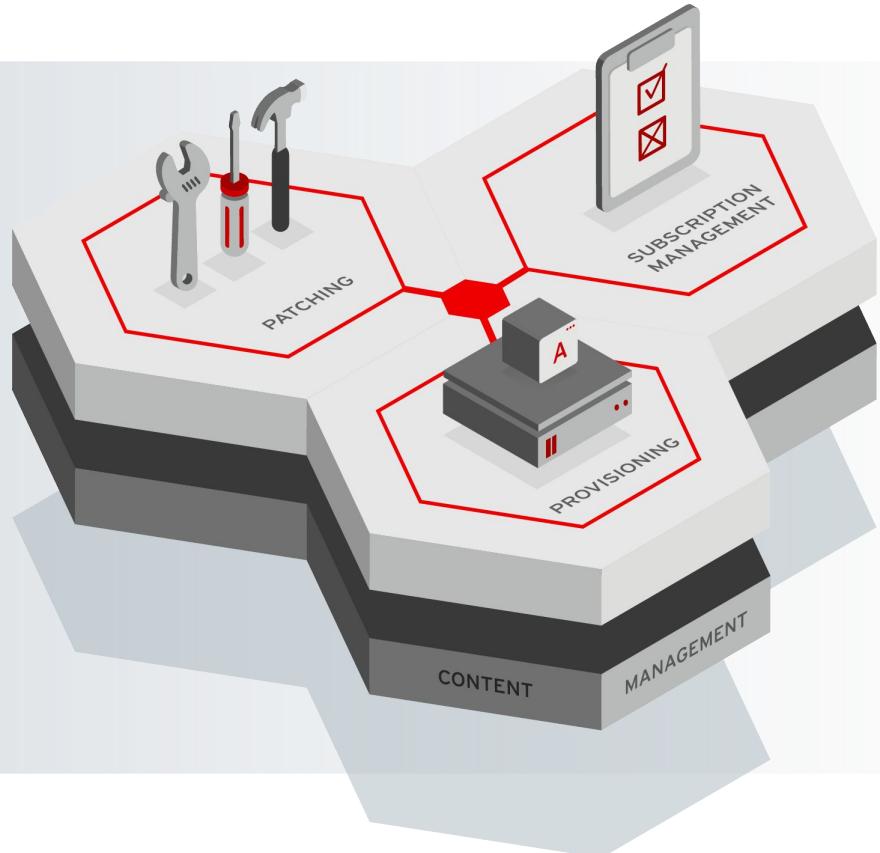
Developed to scale



Simplified  
system integration

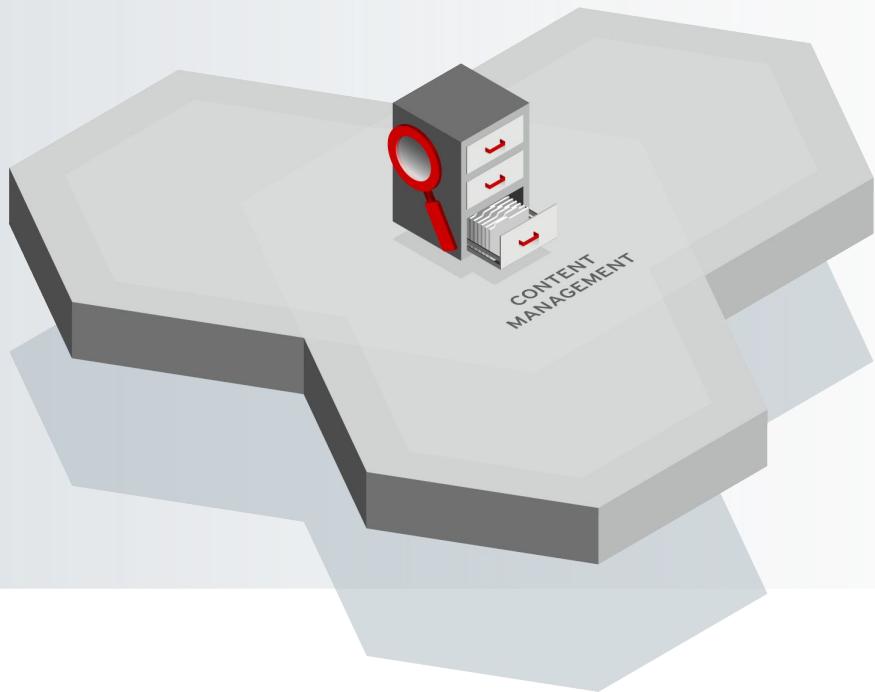


Enhanced drift  
and configuration  
management



# Red Hat Satellite

# Content Management



**Content Repository** any type of content made available to any host

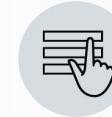
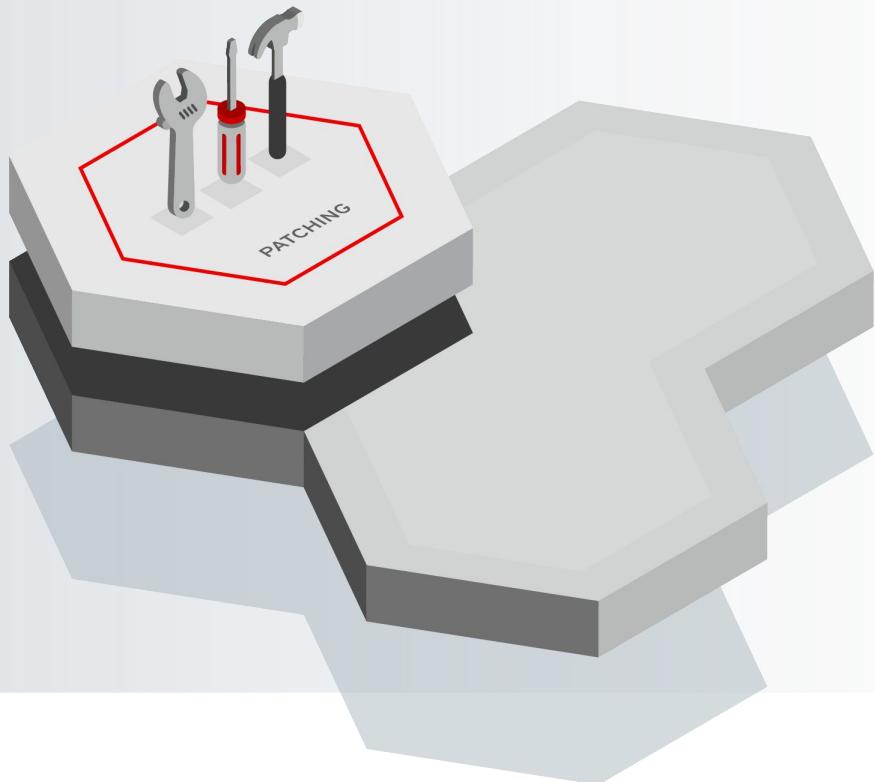


**Curation** of content prior to distribution



**Distribution** of content as close as possible to the end point.

# Patch Management



**Report** on hosts that need updates, fixes, or enhancements

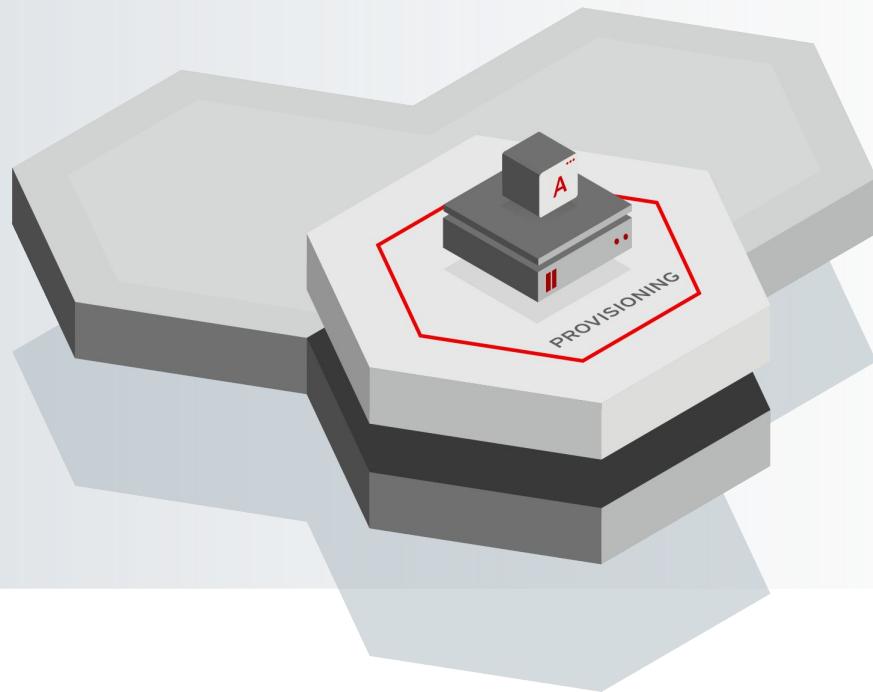


**Group** homogeneous systems so that you can easily work with them



**Respond** quickly to patching requirements using scalable automation

# Provisioning Management



**Provision** to bare metal, virtual, private, and public clouds

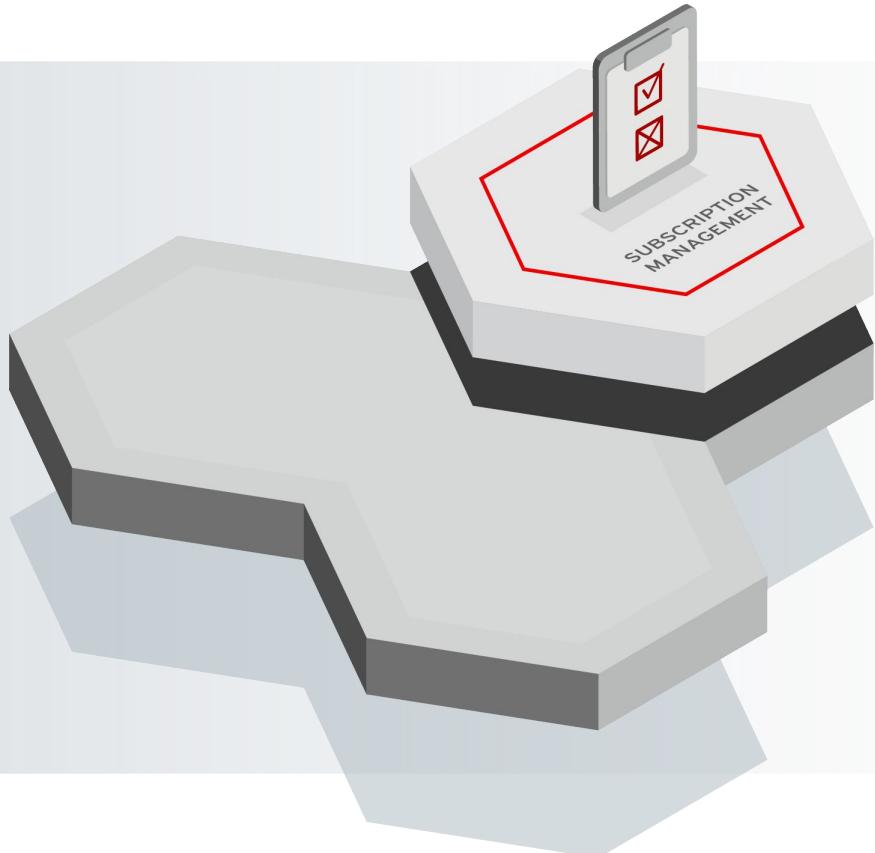


**Import** non-provisioned hosts



**Automate** using Ansible roles to perform post-provisioning steps

# Subscription Management



**Centrally manage** subscription usage

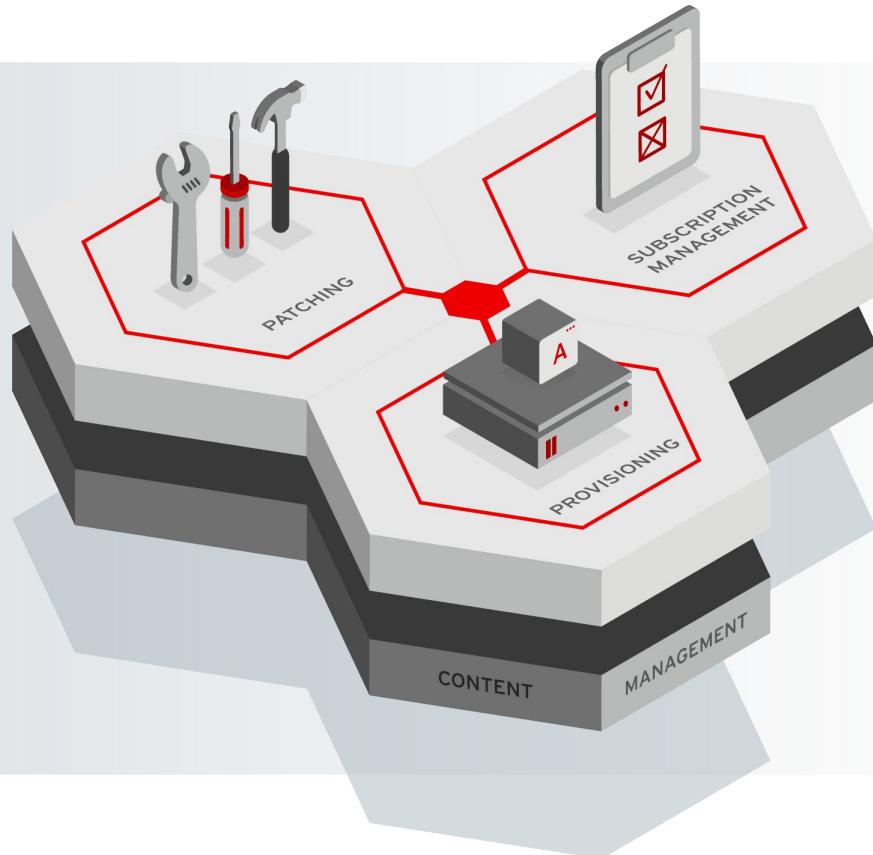


**Maintain** accurate inventory and utilization information



**Report** on subscription consumption

# Additional Satellite Capabilities



**Configuration Management** using Ansible



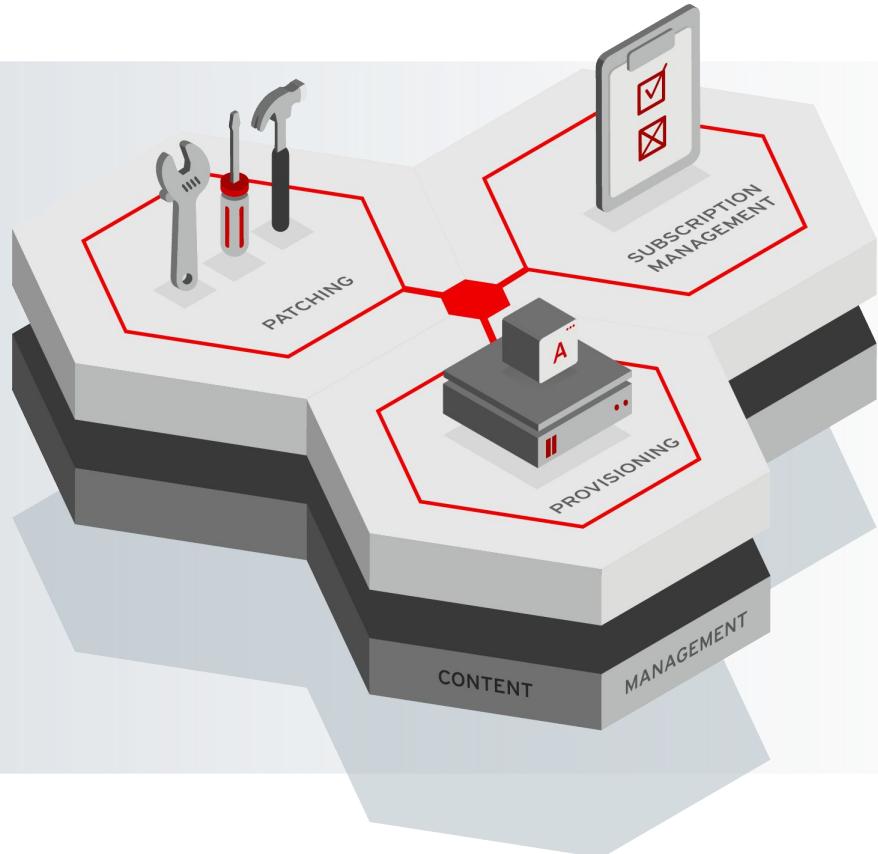
**Automation** through integration with Ansible Tower



**Compliance** using OpenSCAP policies



## Red Hat Satellite



**Standard Operating Environment** hosts are the same across your environment



**Reliable and Resilient** Using Red Hat Insights



**Secure** your systems are patched, up to date, and compliant with security policies

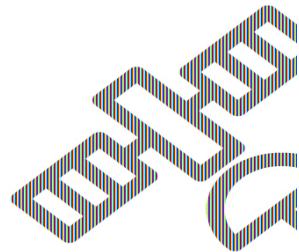


**Confidence** in your subscription utilization

# How Satellite Works

Deployment Models

# Red Hat Satellite components



## Red Hat Satellite Server

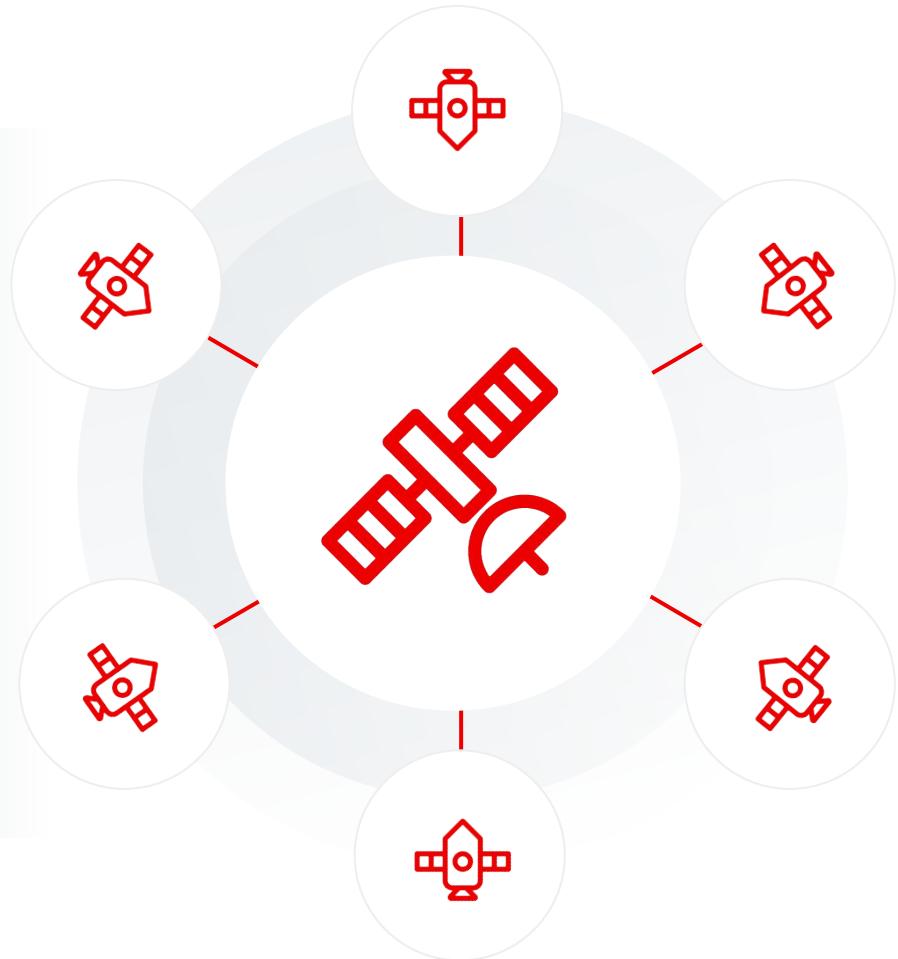
- Facilitates multi tenant services
- Offers on-premise repository management
- Gives user and group role-based access control (RBAC)
- Delivers powerful user interfaces (GUI, API, and CLI)\*
- Exports content to other Satellite servers



## Red Hat Capsule Server

- Allows scaling of your Satellite environment
- Provides local content, provisioning, and integration services
- Discovers new physical and virtual machines

\*Graphical user interface (GUI), application program interface (API), and command line interface (CLI)

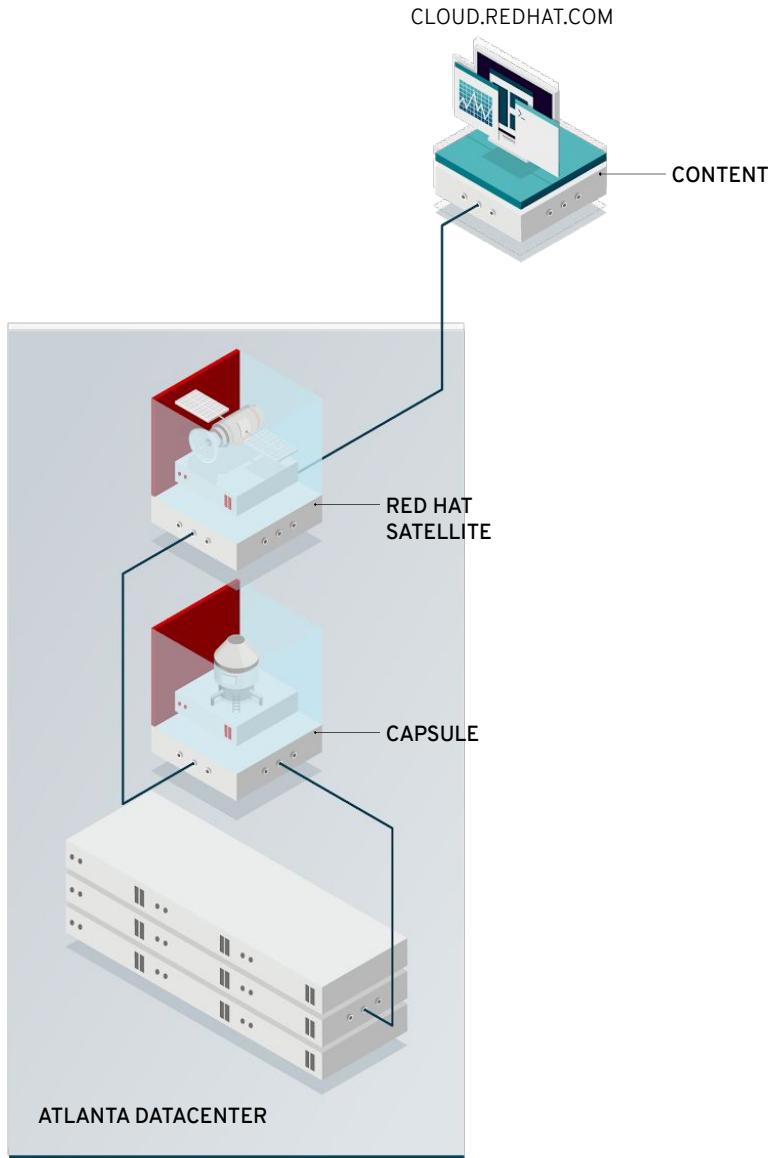


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Improve scalability  
and automation with  
capsule servers.

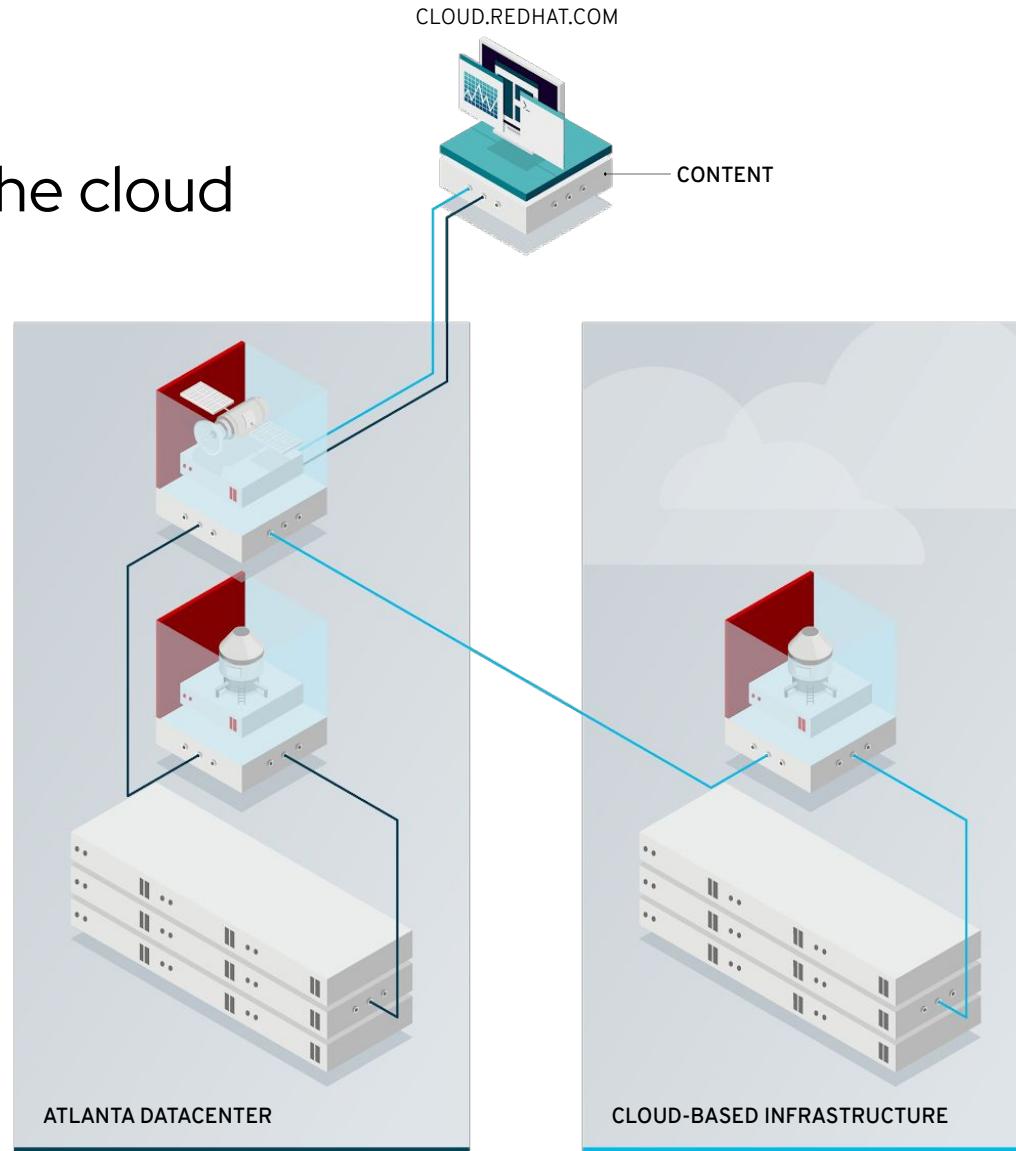
# Red Hat® Satellite

## Simple Scenario



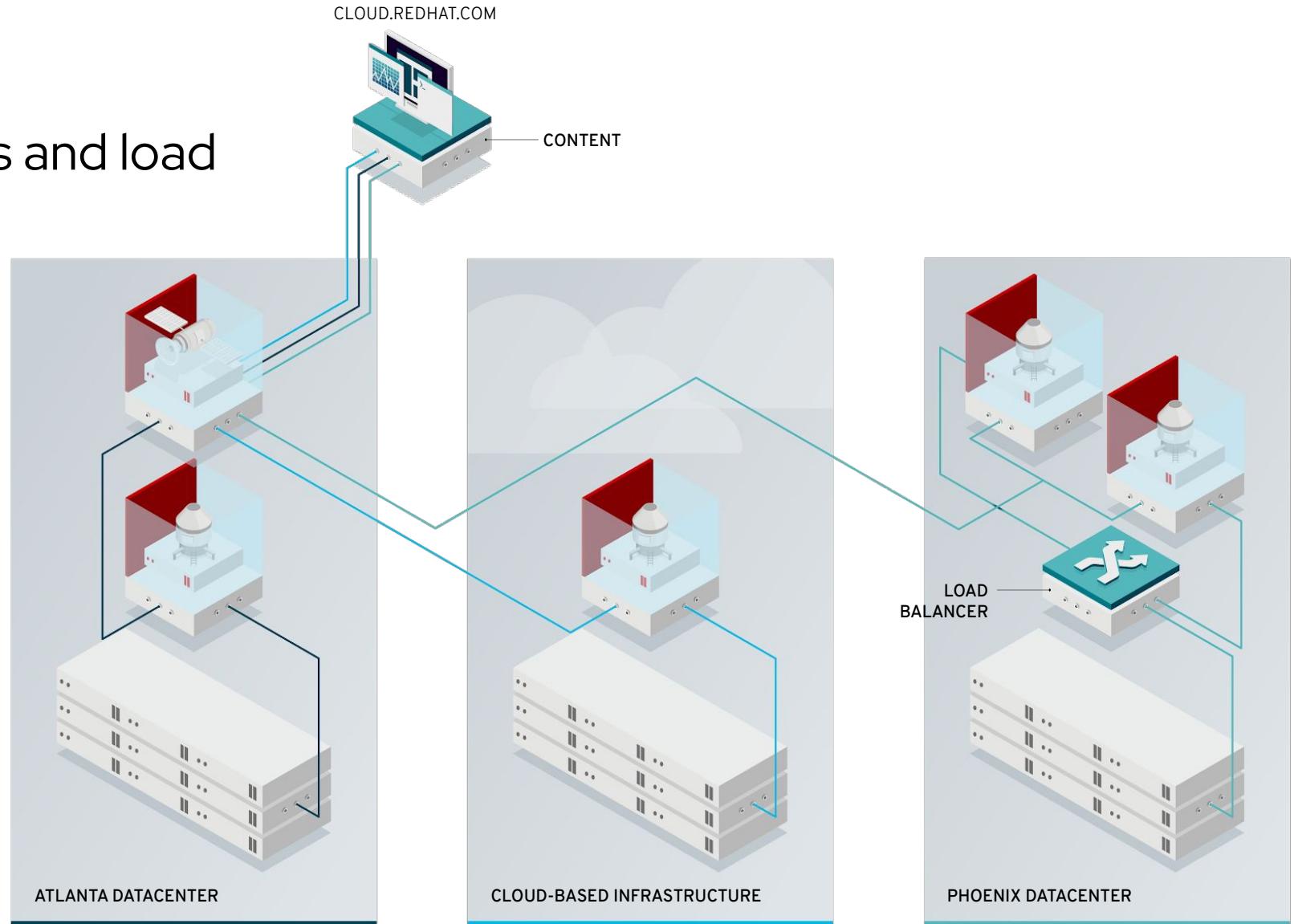
## Red Hat Satellite

On-premise and in the cloud

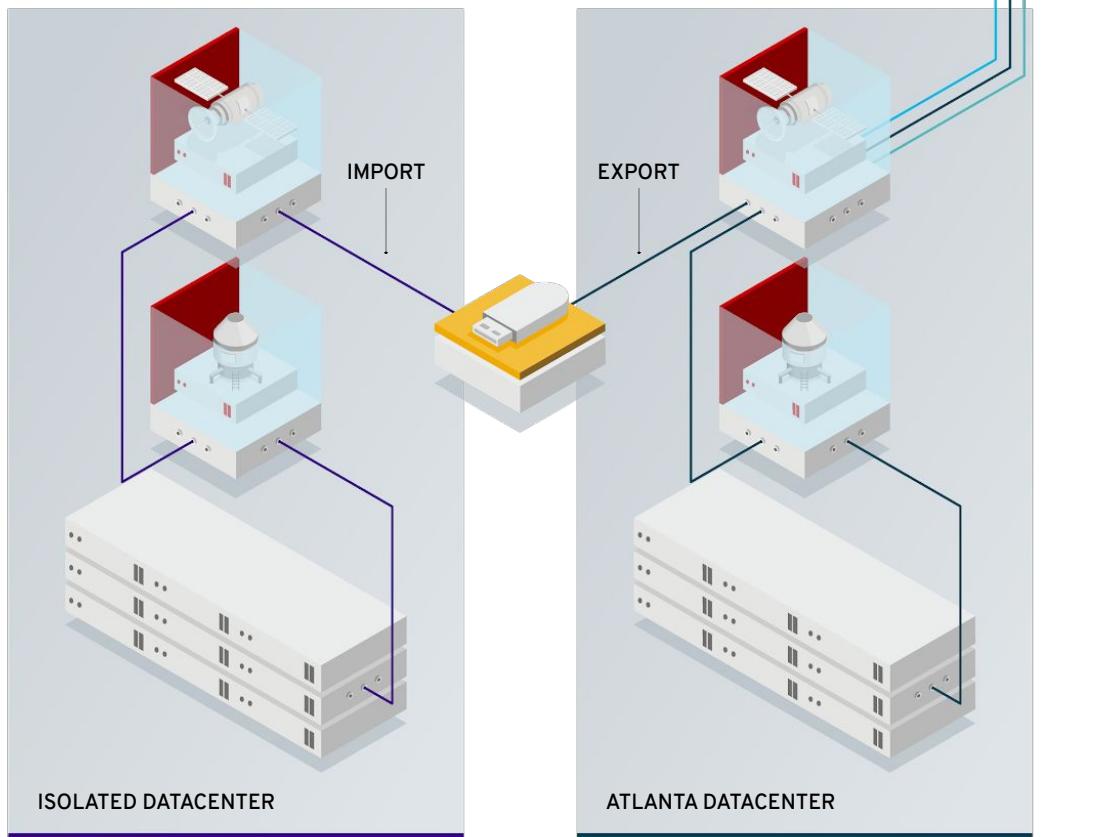


## Red Hat Satellite

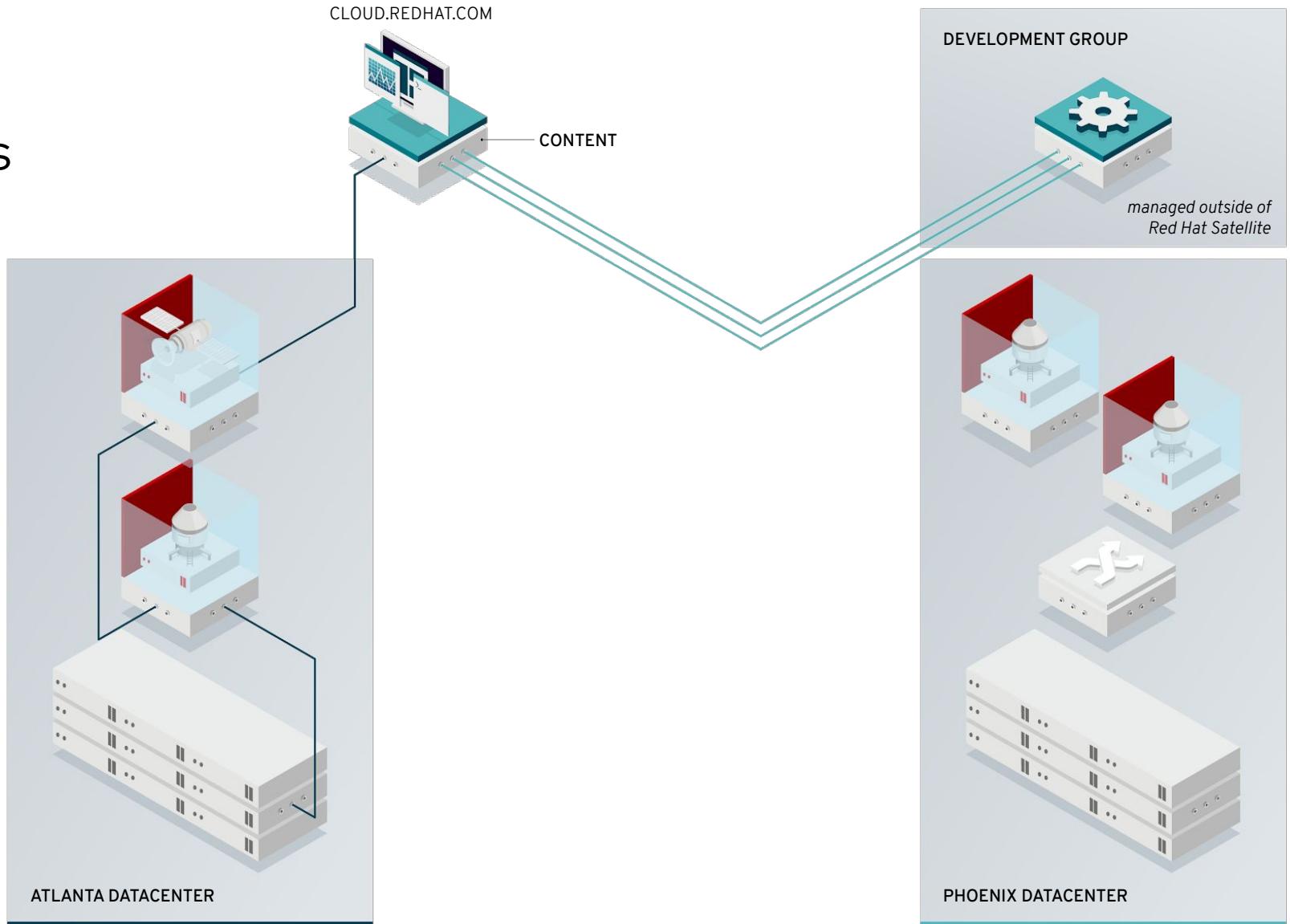
Multiple Datacenters and load balanced capsules



# Red Hat Satellite in an air-gapped environment

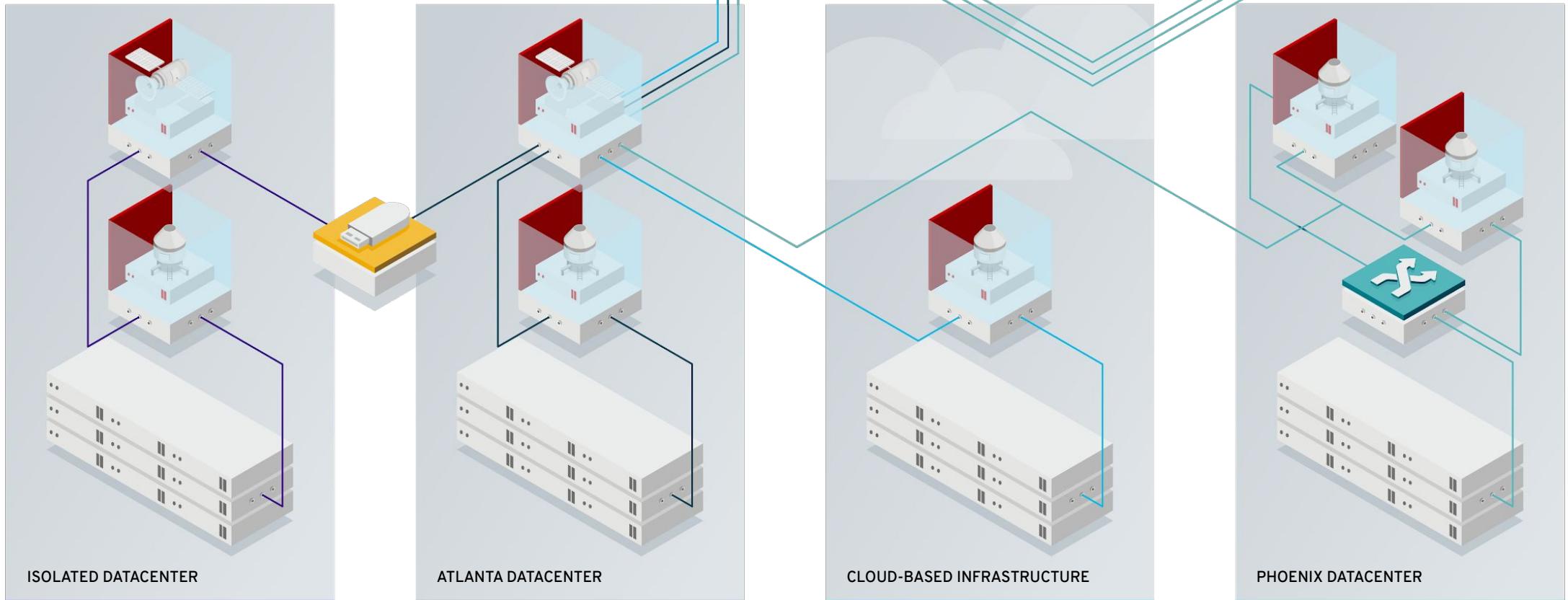


# Red Hat Satellite with Red Hat Insights



## Red Hat Satellite

Support for your  
complex environments



# Next Steps & Resources

Where to go to learn more

# Enable Insights!

Included with your Red Hat Enterprise Linux subscriptions

## GET STARTED WITH RED HAT INSIGHTS



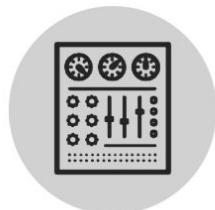
### Register

Register your systems with the Red Hat Insights client



### Review

Identify the connected RHEL hosts you are interested in analyzing.



### Remediate

View your results at [cloud.redhat.com](http://cloud.redhat.com) or via Satellite integration.

# Red Hat Smart Management:

Additional resources and next steps

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Learn more about Red Hat Smart Management

Visit the Smart Management product page

<https://red.ht/2EBAC26>

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Visit the FAQ

<https://www.redhat.com/en/resources/smart-management-faq>



▶ Watch the **intro video**.



▶ Read the **Smart Management 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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