



# Red Hat Smart Management

## What's New

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# HOW TO USE THIS SLIDE DECK

This slide deck is not meant to be used as a whole.  
Create your own copy by clicking: File > Make a copy  
Then delete any slides you don't need.

We'll try to keep the slides in a logical order, but there will certainly be some overlap  
in the deck as we add more in depth materials

If you have feedback or slides to contribute, please make a comment in the deck or  
email:

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# Agenda

- Red Hat Smart Management
- Red Hat Insights
- Cloud management services for RHEL
- Cloud management services Architecture
- Ansible Integration and Support
- Resources and Next Steps

# Your Challenges



**Complexity** of managing systems in a **hybrid and multi-cloud** environment



**Lack of flexibility to manage** these systems on-prem or in the cloud



Ensuring that systems are always **up to date and easily scalable**



Inability to proactively **assess, analyze, and remediate** any security **vulnerabilities**

# Red Hat Insights

Now included with all Red Hat Enterprise Linux subscriptions

Buy



**Red Hat**  
Enterprise Linux

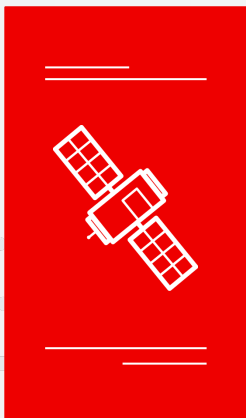
Get



**Red Hat**  
Insights

# Red Hat Smart Management

Red Hat Satellite



+

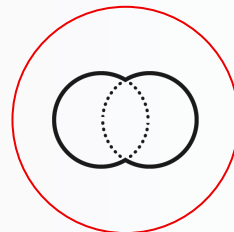
Cloud management services for Red Hat Enterprise Linux



Vulnerability



Compliance



System comparison

# Management Flexibility

Offering Red Hat Management on-premises or in the cloud

## Red Hat Satellite

Requirements for resource set up and configuration

Addresses on-prem or disconnected environment

Limited to viewing hosts registered to the individual Satellite servers

**Use cases:**

Content management, patching, configuration, subscription management, provisioning

## Cloud Management Services

No requirements for resource set up and maintenance

Adopt new features faster with a software-as-a-service preference

Single view of all hosts across your RH infrastructure

**Use cases:**

Vulnerability, Compliance, System Comparison

Smart Management Packaging gives access to both Satellite AND cloud management services



The rest of this deck focuses on Cloud Management Services as there is a stand alone deck for Red Hat Satellite.

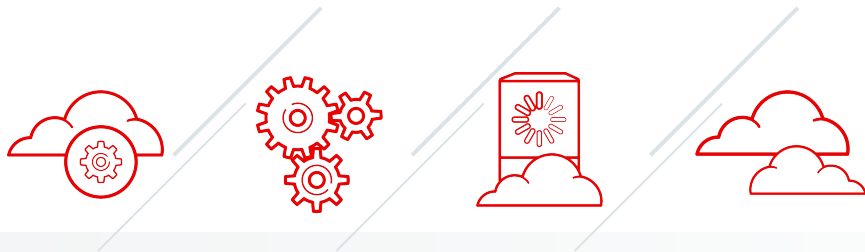
The Satellite 6.5 master deck is located at:

<https://docs.google.com/presentation/d/1k5nqlcW35eYQzocwSFxZA7GSaYAWmFRKkGFeiiuwyJY/edit?usp=sharing>



# Cloud management services for Red Hat Enterprise Linux

# Cloud management services for Red Hat Enterprise Linux



- Cloud-based management of Red Hat Enterprise Linux hosts
- Managing instances on-premise and in multi-cloud environments
- Focusing on the functionality that customers need
- Offering key benefits of Software-as-a-Service

# Software as a Service Benefits



No infrastructure  
to maintain



Register Once



Easy Setup



Always on the  
latest version

Easier to access and scale capabilities

## Manage my Red Hat infrastructure



### Red Hat Insights

Predict Risk. Get guidance. Stay secure.

[Open](#) →



### Cloud Management Services for Red Hat Enterprise Linux

Operate and protect your Red Hat platforms.

[Open](#) →



### Red Hat OpenShift Cluster Manager

Manage your highly available public and private clouds.

[Open](#) →

## Support and resources

[Get support](#)

[Contact customer service](#)

## About

[Red Hat Insights](#)

[Red Hat Smart Management](#)

[Red Hat OpenShift](#)

## Feedback



Tell us about your experience using Red Hat Cloud Services software, and how we can improve.

# Red Hat Insights

All Smart Management customers will have Insights through their Red Hat Enterprise Linux Subscription

# Red Hat Insights

Included with your Red Hat Enterprise Linux subscription

## Assesses

customer's Red Hat environments

## Remediates

findings with prescriptive remediation steps or an Ansible playbook

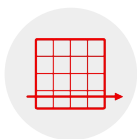
## Insights

rule contributions directly from Red Hat subject matter experts

Identifying risks for Availability, performance, stability and security

# Key risks discovered

Tailored resolution steps included for resolution



## Performance issue

Network interface is not performing at maximum speed



## Recommended action

Check cable, connections, and remote switch settings



## Security risk detected

Privilege escalation



## Recommended action

Apply mitigation and update the kernel



## Availability

OpenShift operations fail if insufficient CPU or memory



## Recommended action

Increase CPU and/or memory reservation



## Stability

Filesystem has exceeded 95% capacity

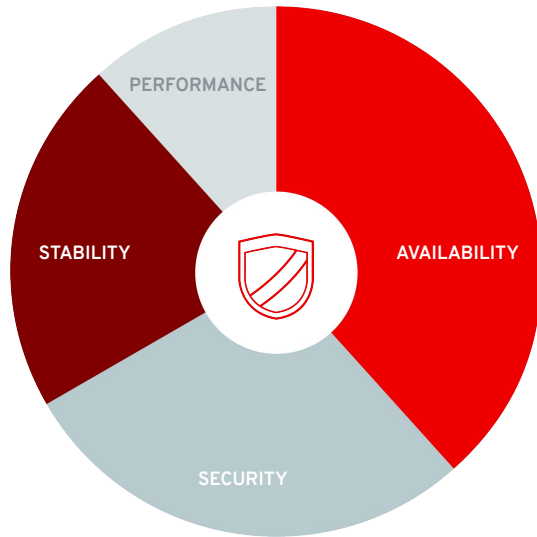


## Recommended action

Increase free space on the host.

# More than just security

Red Hat Insights has more than 700 rules—here is how they stack up across categories



- **Availability** 38.6%
- **Security** 28.1%
- **Stability** 21.7%
- **Performance** 11.6%



# Vulnerability

cloud management services for Red Hat  
Enterprise Linux

# Vulnerability

Remediate all Common Vulnerabilities and Exposures (CVEs) with errata

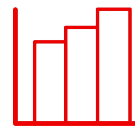
Vulnerability offers



**Assess and monitor** the risk of vulnerabilities that impact Red Hat products with operational ease



**Remediate** known Common Vulnerabilities and Exposures (CVEs)

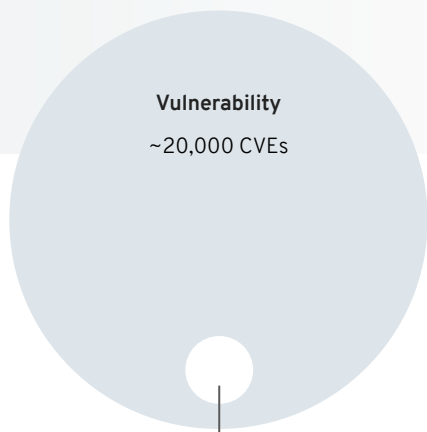


**Ability to generate** JavaScript Object Notation and CSV view-based **reports** to keep relevant stakeholders informed

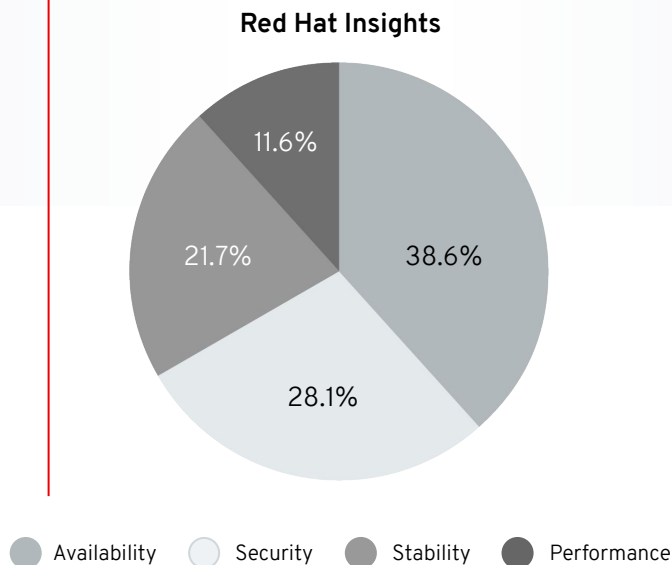
# Insights does this already, right?

Vulnerability is security-focused—all CVEs with errata

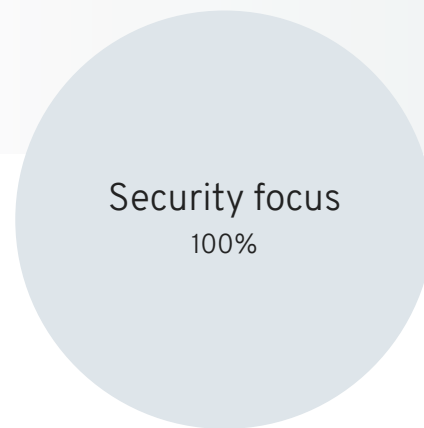
## CVEs covered



## Areas / Rules covered



## Vulnerability



# Compliance

cloud management services for Red Hat  
Enterprise Linux

# Compliance

Built on OpenSCAP reporting

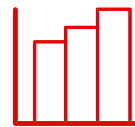
Compliance offers



**Assess and monitor** the degree/level of compliance to a policy for Red Hat products with operational ease



**Remediate** known issues of non-compliance in the Red Hat environment via Ansible playbooks based on business risk & relevance



**Ability to generate** JavaScript Object Notation and CSV view-based **reports** to keep relevant stakeholders informed

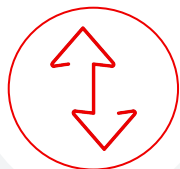
# System Comparison

cloud management services for Red Hat  
Enterprise Linux

# System Comparison

Compare system profiles

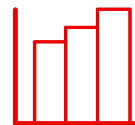
System Comparison offers



**Compare system configuration** of one host to other hosts



**Filter** displayed profile facts, highlighting areas that match, are different, or where information is missing.



**Ability to generate** CSV view-based output

# Architecture

Red Hat Insights &  
cloud management services for Red Hat  
Enterprise Linux



## Customers environment



Insights client(s)



Hybrid cloud  
infrastructure

Customers environment

cloud.redhat.com | hosted on OpenShift Dedicated



Insights client(s)



Common  
upload service



Hybrid cloud  
infrastructure

Core services

Customers environment

cloud.redhat.com | hosted on OpenShift Dedicated



Insights client(s)



Core services

Common  
upload service

Message  
queue

API  
authorization

Notifications

Metrics &  
monitoring

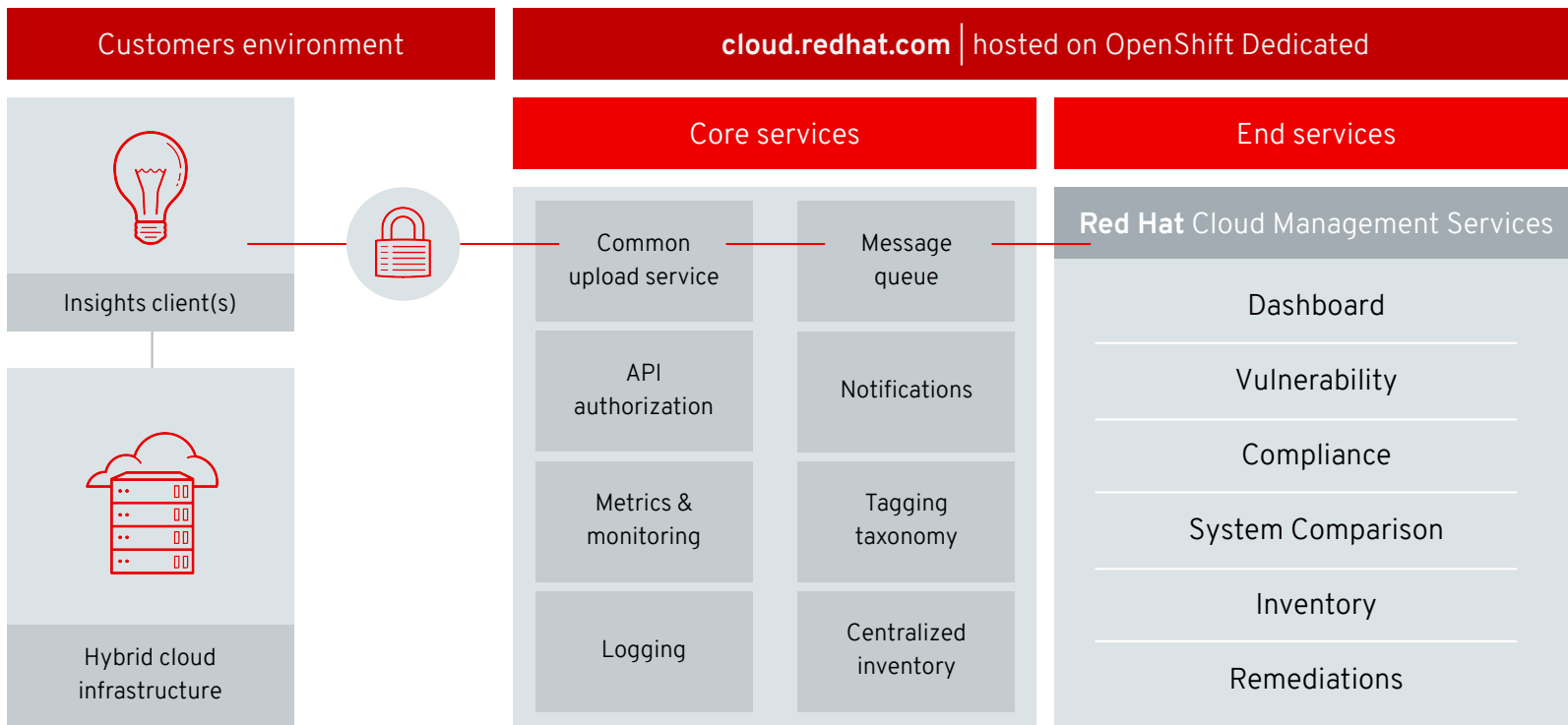
Tagging  
taxonomy

Logging

Centralized  
inventory



Hybrid cloud  
infrastructure



# Ansible Integration & Support

Red Hat Insights &  
cloud management services for Red Hat  
Enterprise Linux

# Ansible Playbook Generation & Execution

Insights and cloud services can generate Ansible playbooks to help remediate issues

- Both Insights and cloud services can natively generate playbooks
- How playbooks are executed depends on a few factors...

# Download and run playbooks

Scenario applies to Insights and cloud management services

## Products entitled



Host A



Host B



Host C






Host D

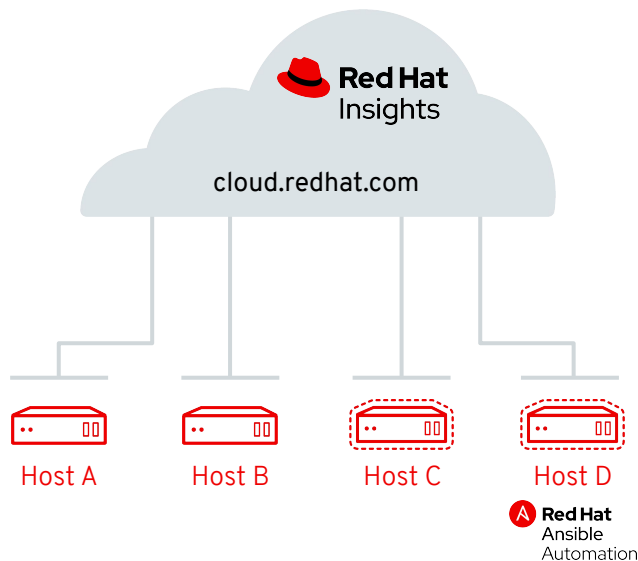


# Download and run playbooks

Scenario applies to Insights and cloud management services

Products entitled

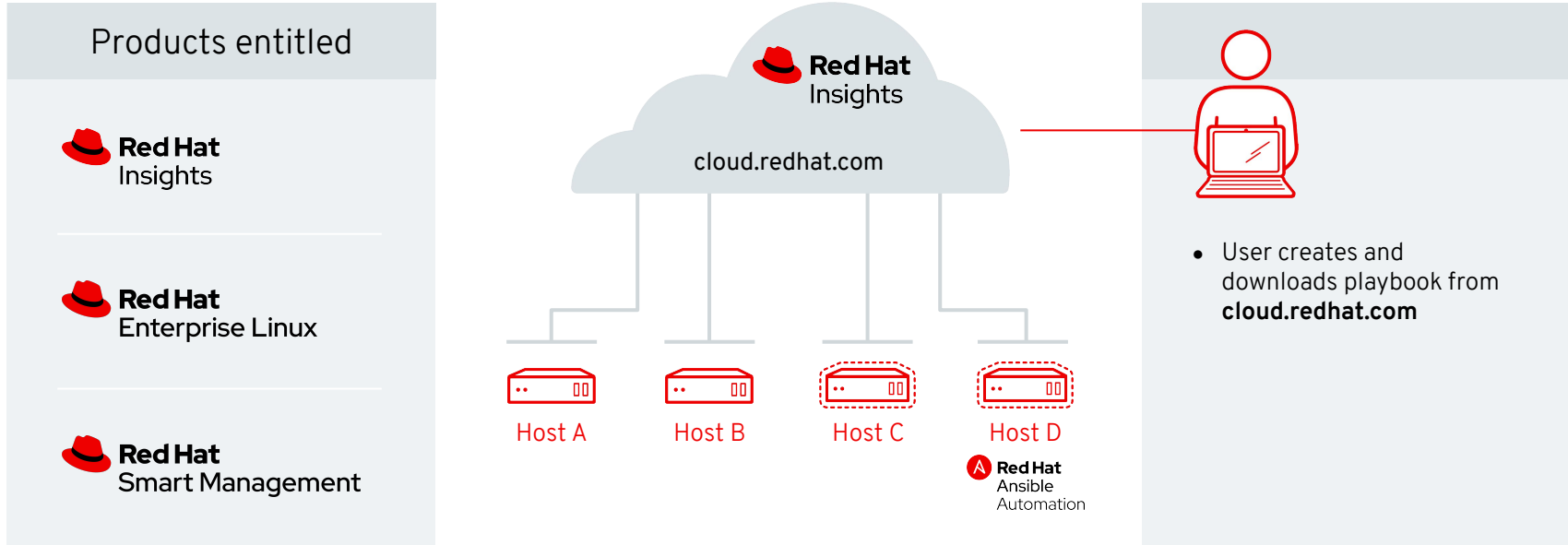
-  **Red Hat Insights**
-  **Red Hat Enterprise Linux**
-  **Red Hat Smart Management**





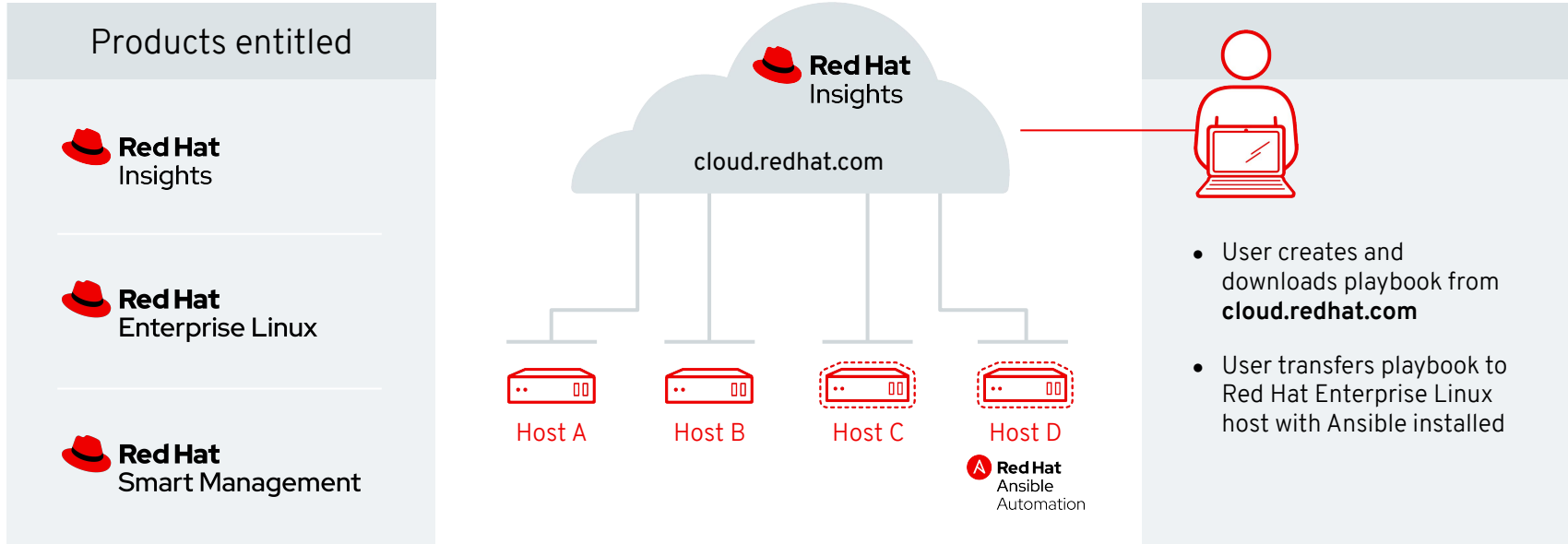
# Download and run playbooks

Scenario applies to Insights and cloud management services



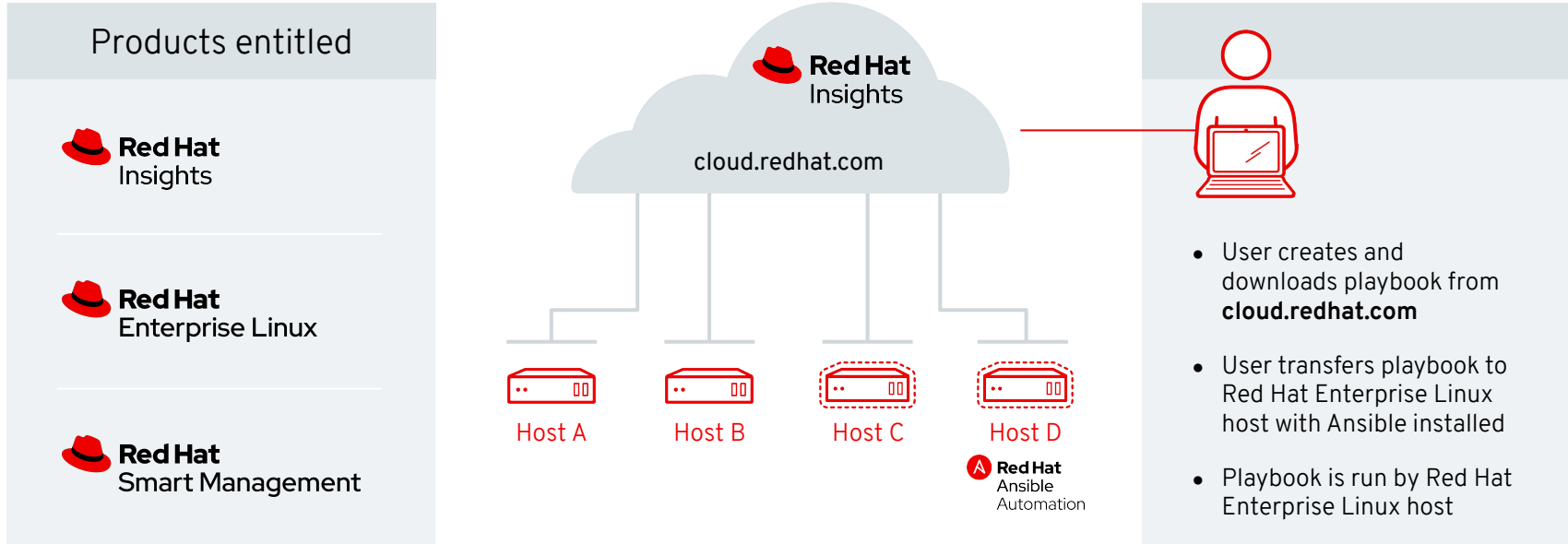
# Download and run playbooks

Scenario applies to Insights and cloud management services



# Download and run playbooks

Scenario applies to Insights and cloud management services



# How do I get Ansible for running playbooks?

You don't have to buy anything else to use playbooks generated by cloud management services

- Ansible can be easily installed per the directions here: <https://access.redhat.com/articles/3174981>
- Red Hat Enterprise Linux ships with the Ansible Engine Repository  
(this does NOT confer an Ansible Engine subscription)
- You can use this same repository as a limited, supported version of Ansible for the express purpose of running RHEL system roles and playbooks created by Red Hat products.

# Build and run playbooks in Red Hat Satellite

Scenario applies to Insights only

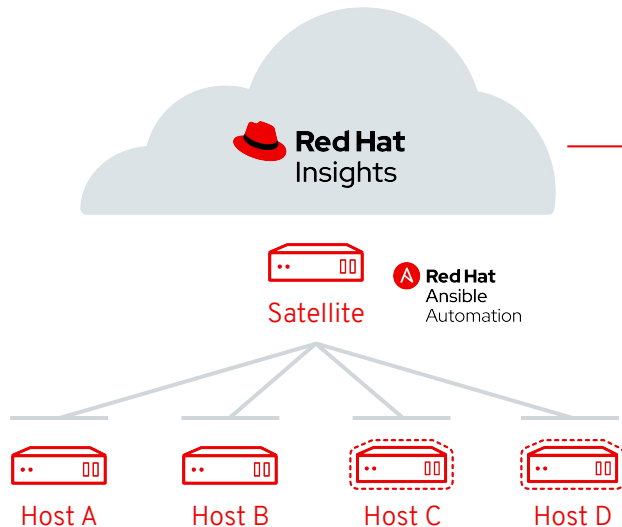
## Products entitled

 **Red Hat**  
Insights

 **Red Hat**  
Enterprise Linux

 **Red Hat**  
Smart Management

 **Red Hat**  
Satellite



- Satellite connects to cloud.redhat.com
- User creates playbook through Satellite
- Playbook is run by Satellite

# Build and run playbooks in Ansible Tower

Scenario applies to Insights only

## Products entitled



**Red Hat**  
Insights



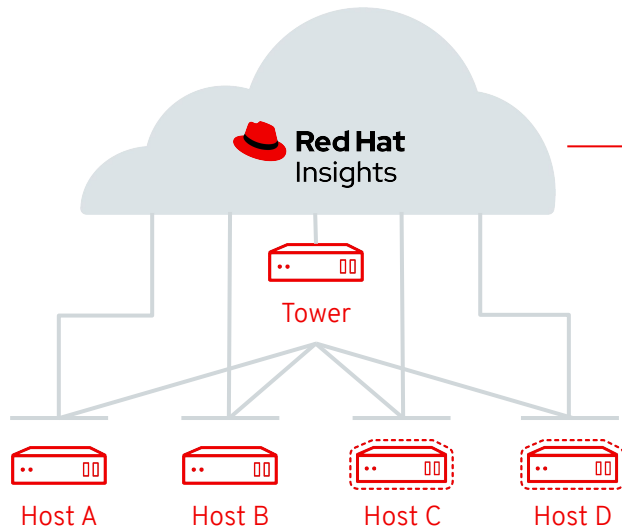
**Red Hat**  
Enterprise Linux



**Red Hat**  
Smart Management



**Red Hat**  
Ansible  
Tower



- Hosts are directly connected to cloud.redhat.com
- User creates playbook through Ansible Tower
- Playbook is run by Ansible Tower

# Demo

cloud management services for Red Hat  
Enterprise Linux

# DEMOS

The below videos are in the process of being reviewed by the brand team with the goal of being posted on the Red Hat channel on YouTube where they will be referenced as needed in blog posts and other collateral.

For now these videos are on Google Drive, but it is expected they will be posted publicly in the future.

- Introduction to Red Hat Insights - [https://drive.google.com/open?id=1uqC71czl4vuEzK6ig4j7nsH\\_j2wvJAfC](https://drive.google.com/open?id=1uqC71czl4vuEzK6ig4j7nsH_j2wvJAfC)
- Registration of Insights Client (including basic authentication) - <https://drive.google.com/open?id=1qinQ1ivvaKewLHuHBDC6mM-b7Hw0JDNI>
- Introduction to Smart Management - <https://drive.google.com/open?id=1Nmz5HjCMSLsBF37wD4K7oX3IOeHcDJEF>
- Vulnerability - <https://drive.google.com/open?id=119skKTdI9Wfb0ZQI7U17leWyOdhUSHKJ>
- Compliance - [https://drive.google.com/open?id=1WKCqblyBczWZtphaWriE\\_EPkRc2S\\_udu](https://drive.google.com/open?id=1WKCqblyBczWZtphaWriE_EPkRc2S_udu)
- System Comparison - [https://drive.google.com/open?id=18yL5XCSf\\_ZJhEluQWNhkFOxop-qQkBG5](https://drive.google.com/open?id=18yL5XCSf_ZJhEluQWNhkFOxop-qQkBG5)



# Resources & Next Steps

cloud management services for Red Hat  
Enterprise Linux

# Smart Management Resources

## External:

- [Red Hat Smart Management webpage](#)
- [Red Hat Smart Management documentation](#)
- [Datasheet](#)
- [Infographic](#)
- [Video](#)
- [FAQ](#)

## Internal/ Enablement:

- Smart Management [OneStop](#)
- Smart Management [PNT portal](#)
- [Technical videos](#)

Contact us : [smartmanagement@redhat.com](mailto:smartmanagement@redhat.com)

# Thank you

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