

## Cloud Management Services for Red Hat Enterprise Linux

Managing Security w/ RHEL environments

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#### Context & what's happening in the market?

5 mins

#### Red Hat Smart Management

5 mins

Review of Vulnerability & Compliance App within Cloud Management Services for RHEL 10 mins

#### Demo

10 mins

#### Discussion & future use cases

15 mins



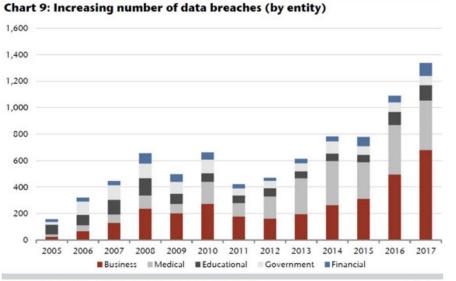
#### **CONFIDENTIAL** Designator

# Data breaches steadily increasing year over year. 2017 set a record!!

By this count, the number of significant breaches topped 1,300 last year, versus fewer than 200 in 2005



By VICTOR REKLAITIS MARKETS WRITER



Source: Jefferies, Identity Theft Resource Centre

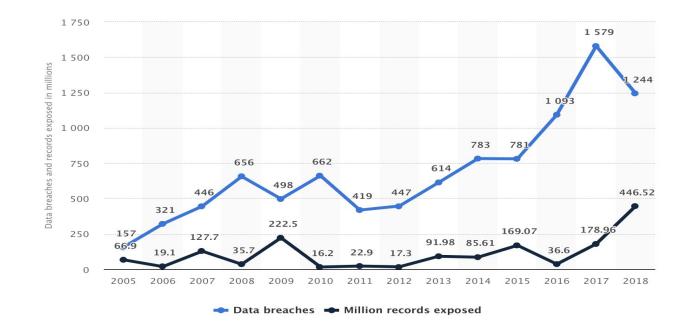
Jeiferles

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# Number of data breaches & records exposed is increasing



© Statista 2019 🎮



4 Source: Statista

### **Regulations and penalties are on the rise**

5







### CHALLENGES COMPLIANCE OFFICERS EXPECT IN 2018

#### Figure 22: The greatest compliance challenges I expect to face in 2018 is/are:



o Source: Thomson Reuters Regulatory Intelligence - Cost of Compliance 2018

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### **Red Hat Insights**

Now included with all Red Hat Enterprise Linux subscriptions





### Red Hat Smart Management





### 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

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



#### Easier to access and scale capabilities





#### Manage my Red Hat infrastructure

		<b>S</b>
Red Hat Insights Predict Risk. Get guidance. Stay secure.	Cloud Management Services for Red Hat Enterprise Linux Operate and protect your Red Hat platforms.	Red Hat OpenShift Cluster Manager Manage your highly available public and private clouds.
Open ->	Open >	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	Remediates	Insights
customer's Red Hat environments	findings with prescriptive remediation steps or an Ansible playbook	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



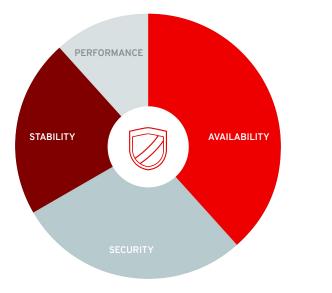
Stability Filesystem has exceeded 95% capacity Recommended action Increase CPU and/or memory reservation

Recommended action Increase free space on the host.



### More than just security

Red Hat Insights has more than 600 rules—here is how they stack up across categories



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



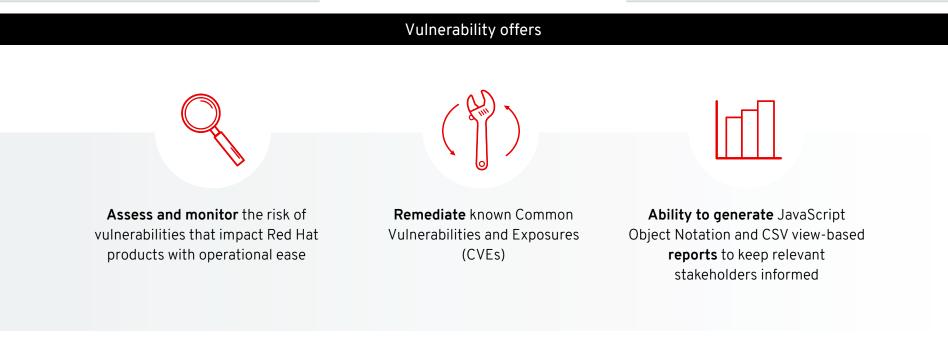
## Vulnerability

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### Vulnerability

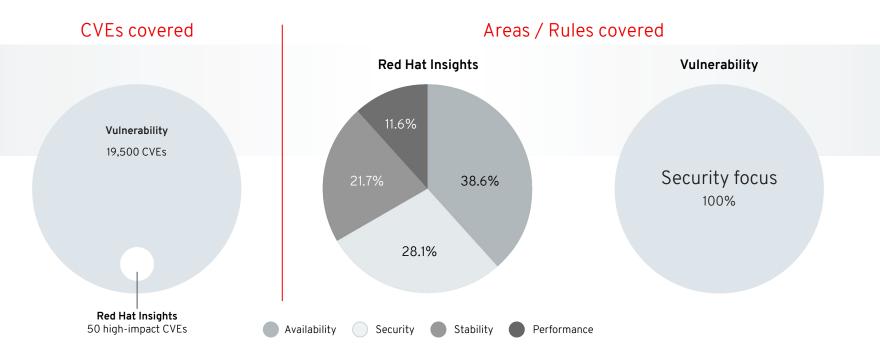
#### Remediate all Common Vulnerabilities and Exposures (CVEs) with errata





### Insights does this already, right?

Vulnerability is security-focused-all CVEs with errata





## Compliance

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## 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

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### 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

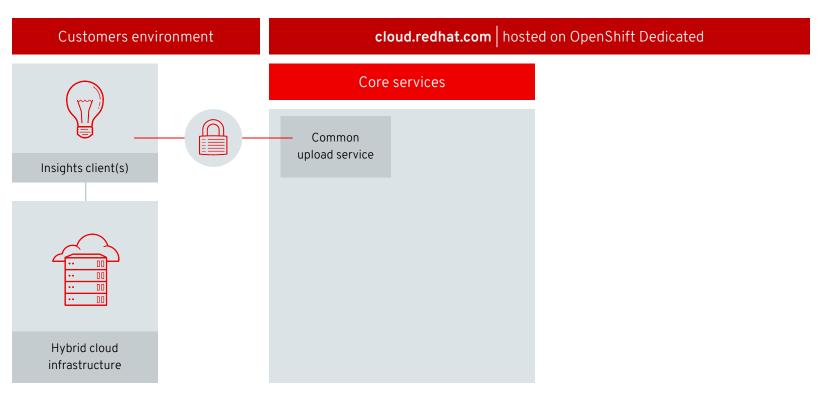
Red Hat Insights & Cloud Management Services for Red Hat Enterprise Linux



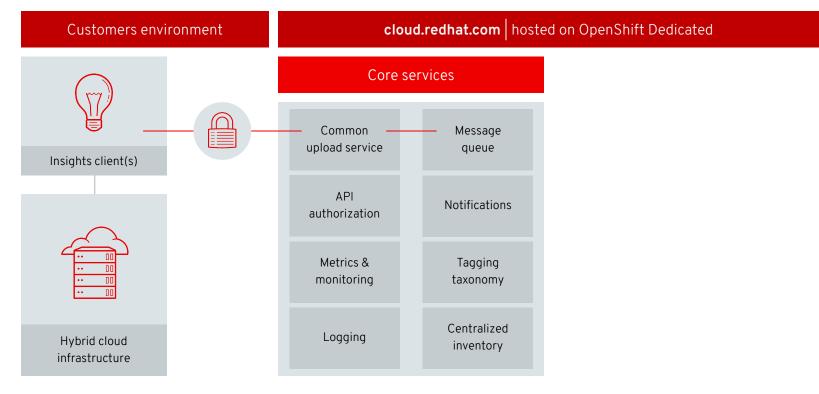
#### Customers environment



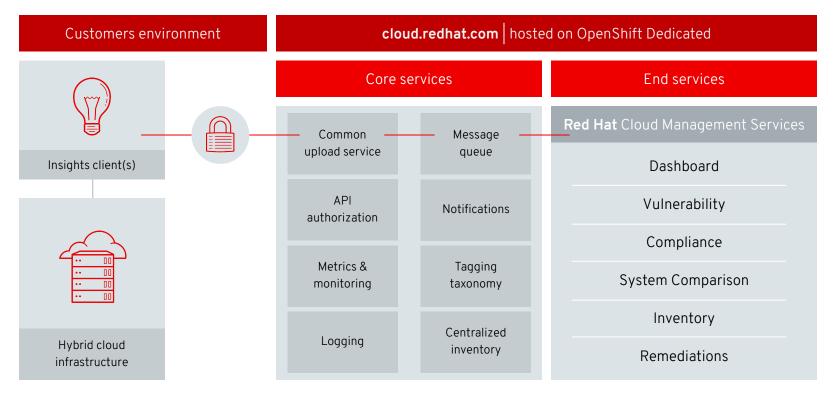














## Demo

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## Discussion

#### Future Use Cases & Customer Engagement



### Discussion

- Do you see value in this app and will you use it?
- What personas do you expect to use these services?
- What use cases would you like to see addressed?



## **Customer Engagement & Feedback**



- Want to participate in a pilot and provide feedback?
  - Cool Red Hat SWAG promised!!
- Have use cases you'd like to see incorporated?
- Mohit Goyal (Product Manager)
  - mgoyal@redhat.com



# Thank you

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- enterprise open source software solutions.
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