# Simplifying Security

## Through Red Hat Satellite and Insights

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Principal Solutions Architect

# Who Am I?

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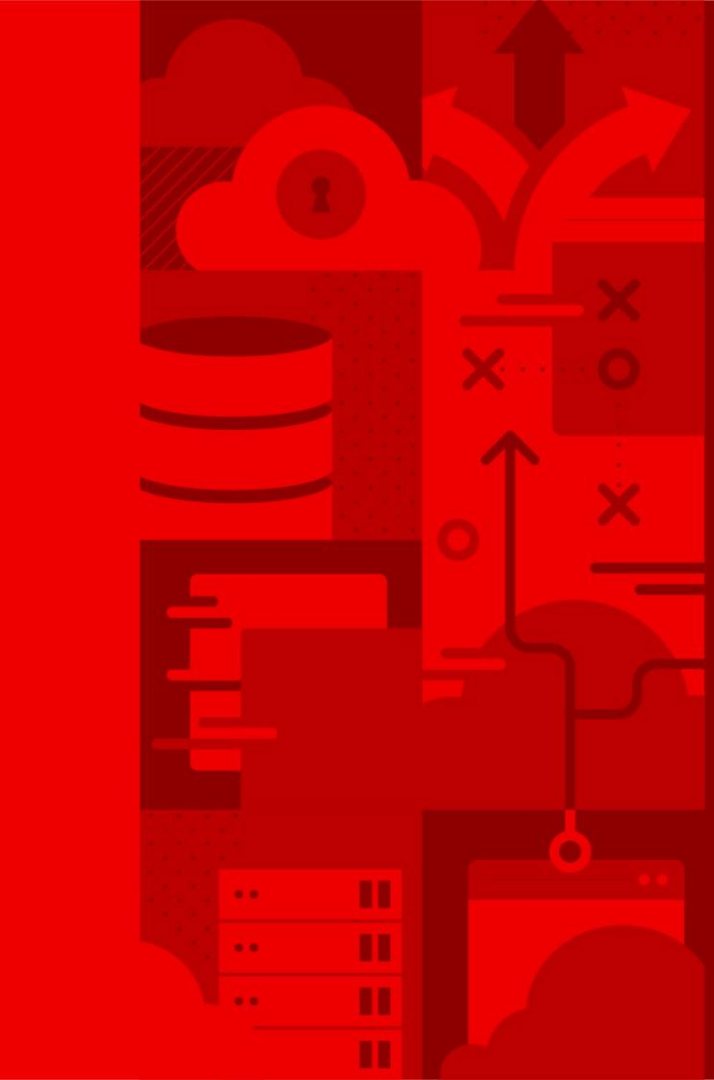
Principal Solutions Architect - RHCA, RHCE

Work in Public Sector helping government & EDU create better strategies for infrastructure management

Former Director of Infrastructure at a large healthcare company

Fun Fact: I “accidentally” became and I.T. guy while trying to be a film guy



# WHY SIMPLIFY?

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# Why Simplify Security?

## Top Management and Performance Challenges
## Oversight.Gov April 2018 Report


**Information Technology Security and Management**
Safeguarding sensitive assets against cyber-attacks

**Human Capital Management**
Recruiting, training, and retaining qualified staff



Source: https://www.oversight.gov/sites/default/files/oig-reports/CIGIE_Top_Challenges_Report_April_2018.pdf

# The Challenge of Complexity

"91% of security professionals express concern over their organizations' security complexity."

- Forrester, 2019



Complexity in Cybersecurity Report 2019

# Cost of Data Breaches

2017

## Large Consumer Credit Reporting Agency

**Loss:** Exposed 150 Million people's personal information

**Cause:** Outdated and vulnerable software

**Cost:** **$1.4 Billion**

2018

## Telecom Mobile Network Provider

**Loss:** Mobile network outage for less than 1 Day

**Cause:** Expired certificates

**Cost:** **$127 Million**

2019

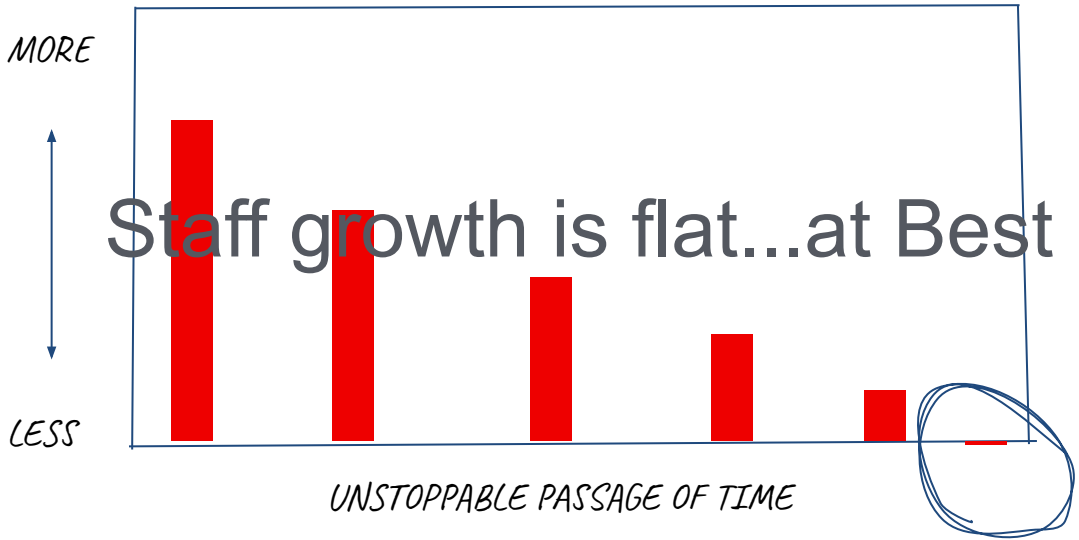
## Large Financial Firm

**Loss:** 106 Million credit card holders personal information

**Cause:** Public cloud misconfiguration

**Cost:** **Between $200 Million and $1 Billion**

# Resource Constraints

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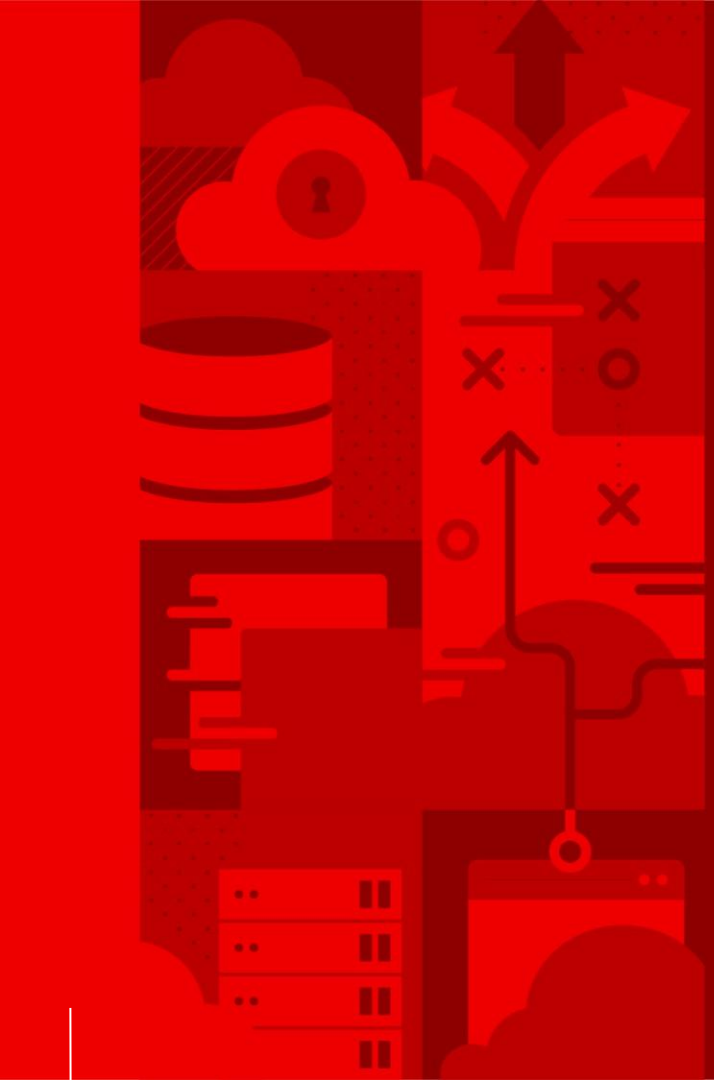

# HOW TO SIMPLIFY

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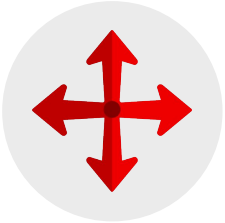
# How do you currently manage your IT environment?



Do your processes scale?

Are you confident you can quickly respond?

Are your systems compliant?

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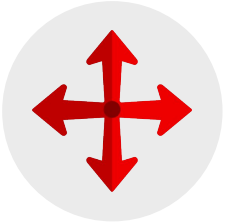
# Red Hat Satellite can help



**Do your processes scale?**

Increase efficiency

**Are you confident you can quickly respond?**

Address security easily

**Are your systems compliant?**

Audit and remediate systems

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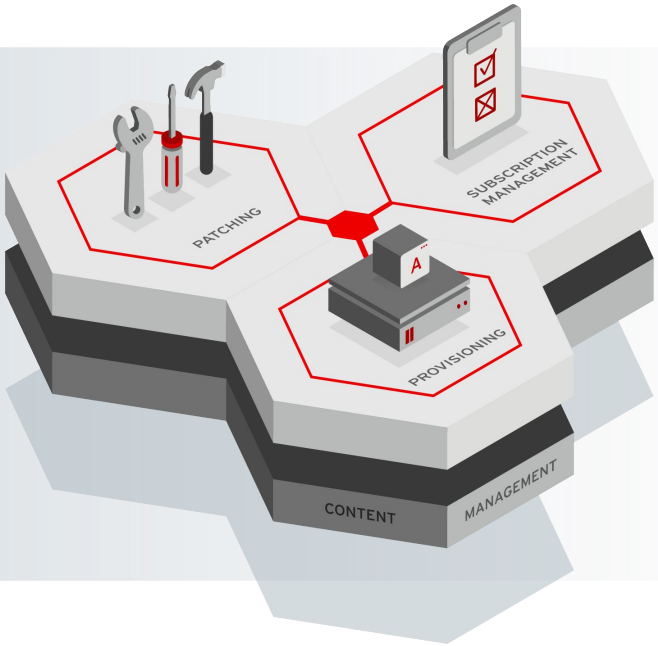
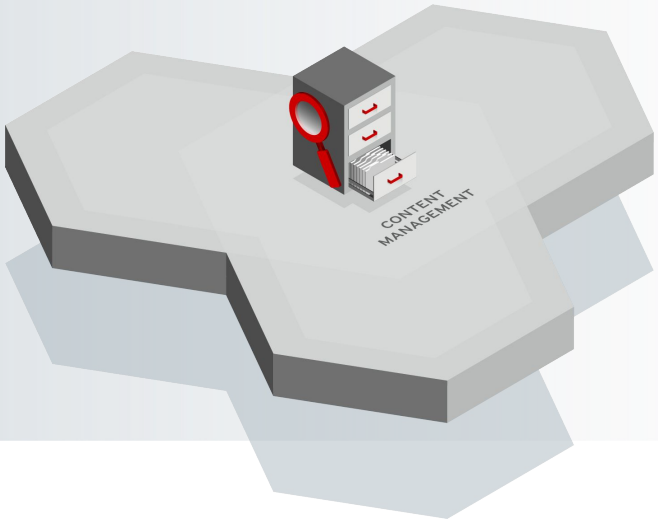



# Red Hat Satellite

# Content Management

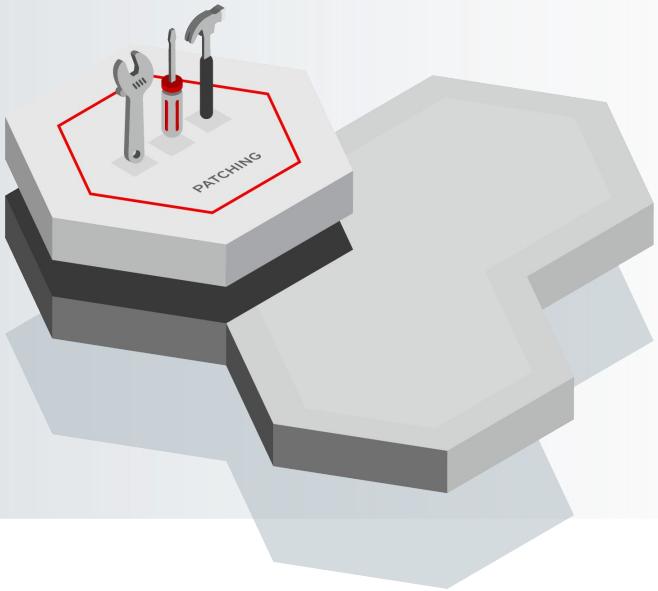



**Content Repository** any type of content made available to any host

**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

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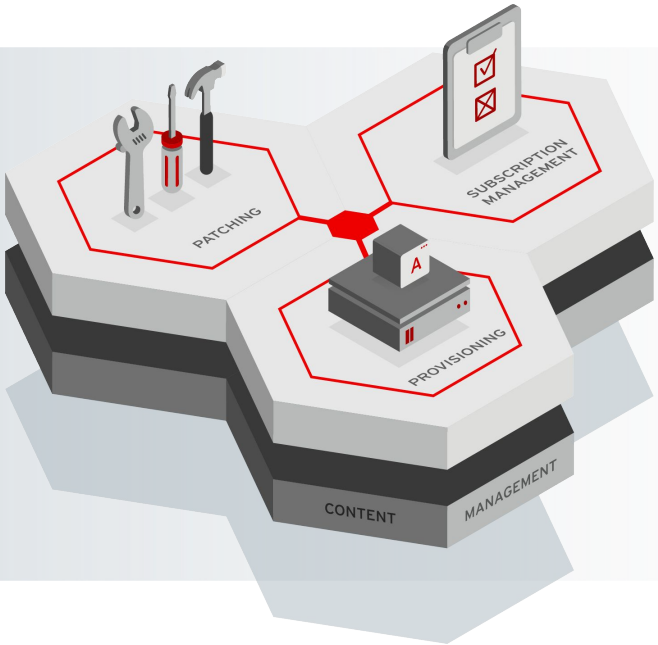
# Additional Satellite Capabilities




**Configuration Management** using Ansible or Puppet

**Automation** through integration with Ansible Tower

**Compliance** using OpenSCAP policies

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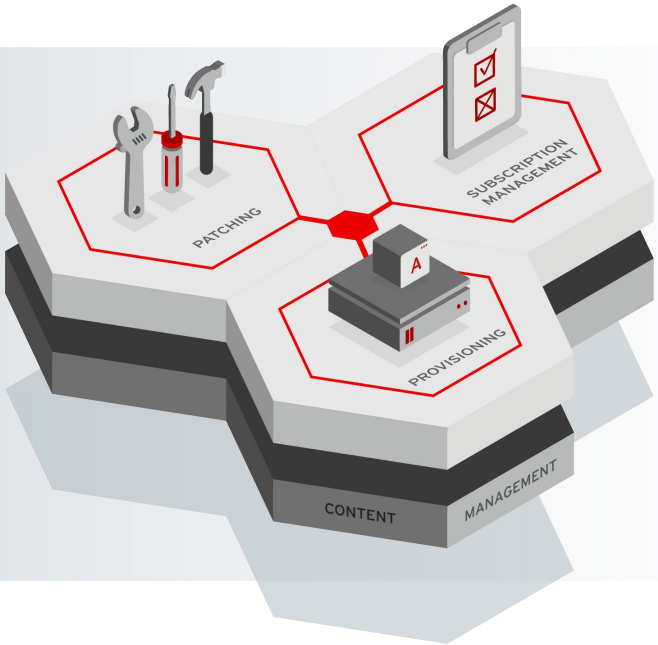
# Compliance Management with Satellite




**Compliance** using OpenSCAP policies

- Security Content Automation Protocol
- Managed by National Institute of Standards and Technology (NIST)
- Vulnerability and configuration security baselines
- Helps comply with security standards
  - DISA STIG
  - PCI-DSS
  - Your own custom security standards
- Red Hat natively ships NIST validated National Checklist content

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# Red Hat Insights

## PREDICT RISK. GET GUIDANCE. STAY SECURE.

PREDICTIVE I.T. ANALYTICS

AUTOMATED EXPERT ASSESSMENT

SIMPLE REMEDIATION

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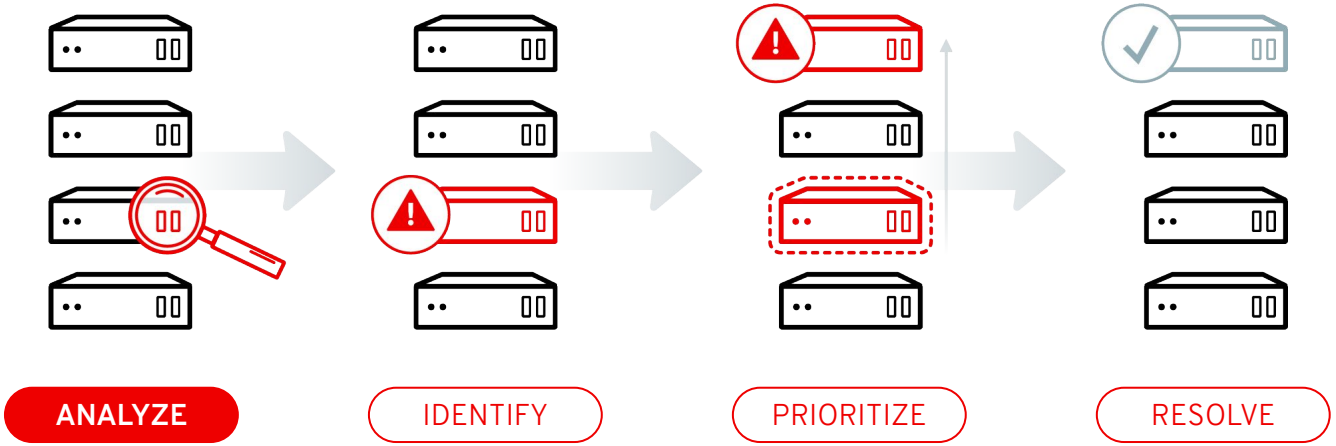
# Managing infrastructure risk

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# Knowledge is Power

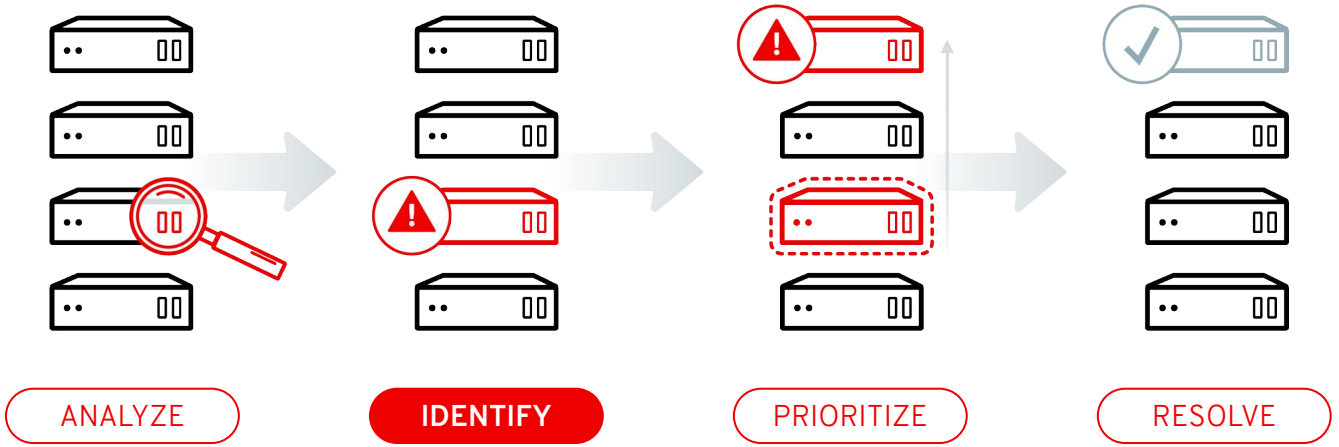
"99% of the vulnerabilities exploited by the end of 2020 will continue to be ones known by security and IT professionals at the time of the incident."

- Gartner, 2017



Focus on the Biggest Security Threats, Not the Most Publicized

# Managing infrastructure risk

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# Remediate the Right Vulnerabilities

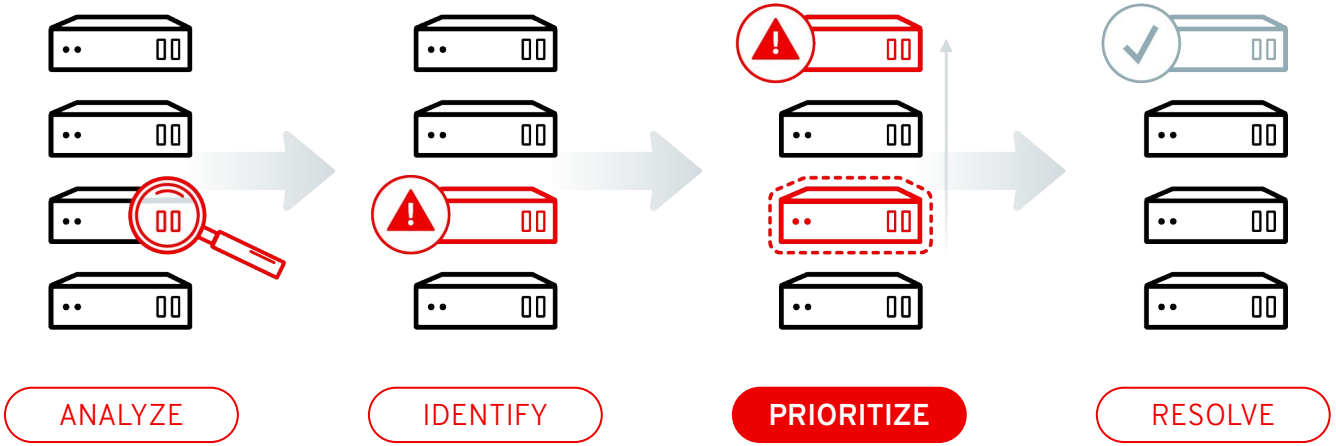
"While CVSS scores are an important aspect of understanding the risk a vulnerability poses to your organization, understanding the likelihood of its exploitability should also be given due consideration."

- Skybox Security



2019 Vulnerability and Threat Trends

# Managing infrastructure risk

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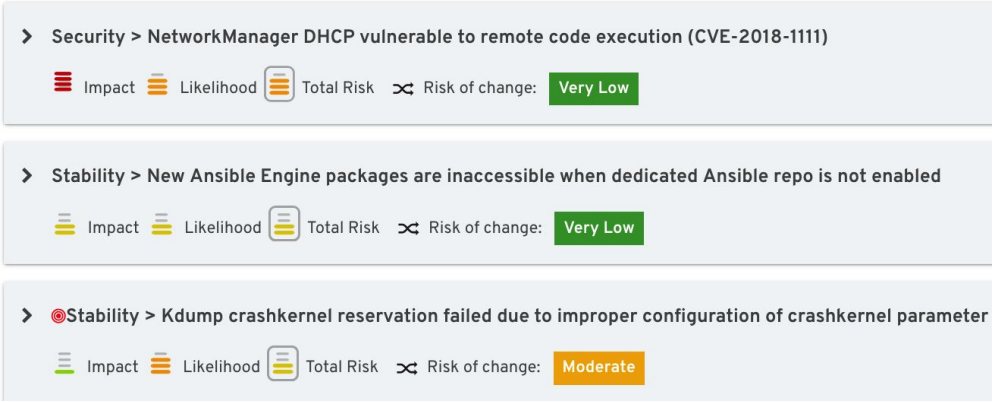
# Get ahead of key security risks

## Don’t wait for your security team to tap you on the shoulder




- Prioritizes security response by analyzing runtime configuration and usage
- Automates security analysis, beyond just CVEs

*“…when a vulnerability is released, it’s likely to be exploited within **40-60** days. However, it takes security teams between 100-120 days on average to remediate…”*

— KENNA SECURITY GROUP



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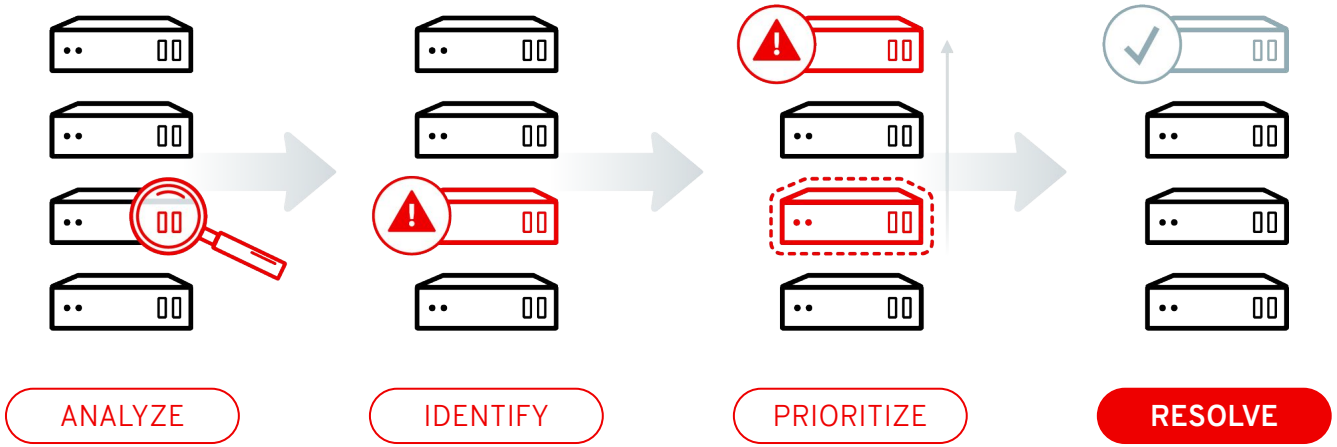
# Managing infrastructure risk

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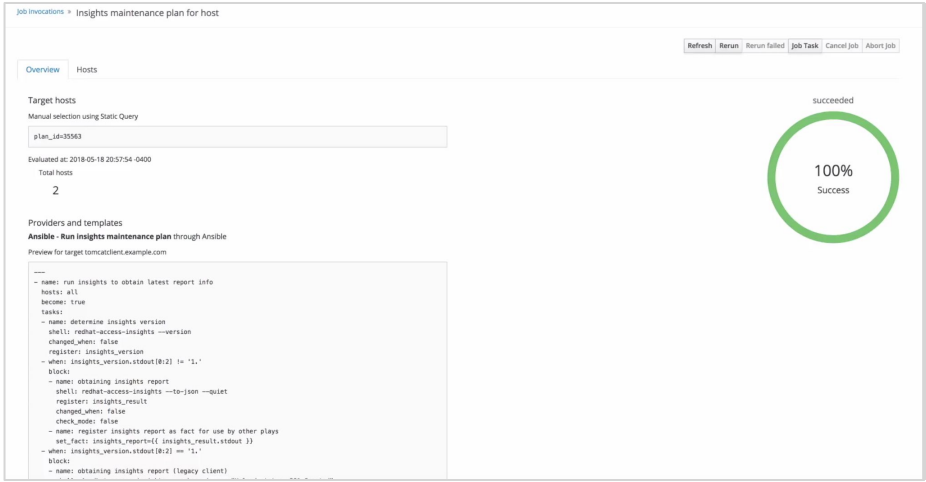
# Automatic remediation with Satellite 6.6

## Resolve issues with a click of a button




**Apply remediation plans** with a click of a button–and track activity and progress on your machines.



Source: https://access.redhat.com/products/red-hat-insights#getstarted

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# Customer Stories

- 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?
- One customer swore their 2,000 servers were up-to-date.
    - A demonstration of Red Hat Insights showed them that **400 of their servers were not up-to-date**, and therefore at **risk**.

# Thank you

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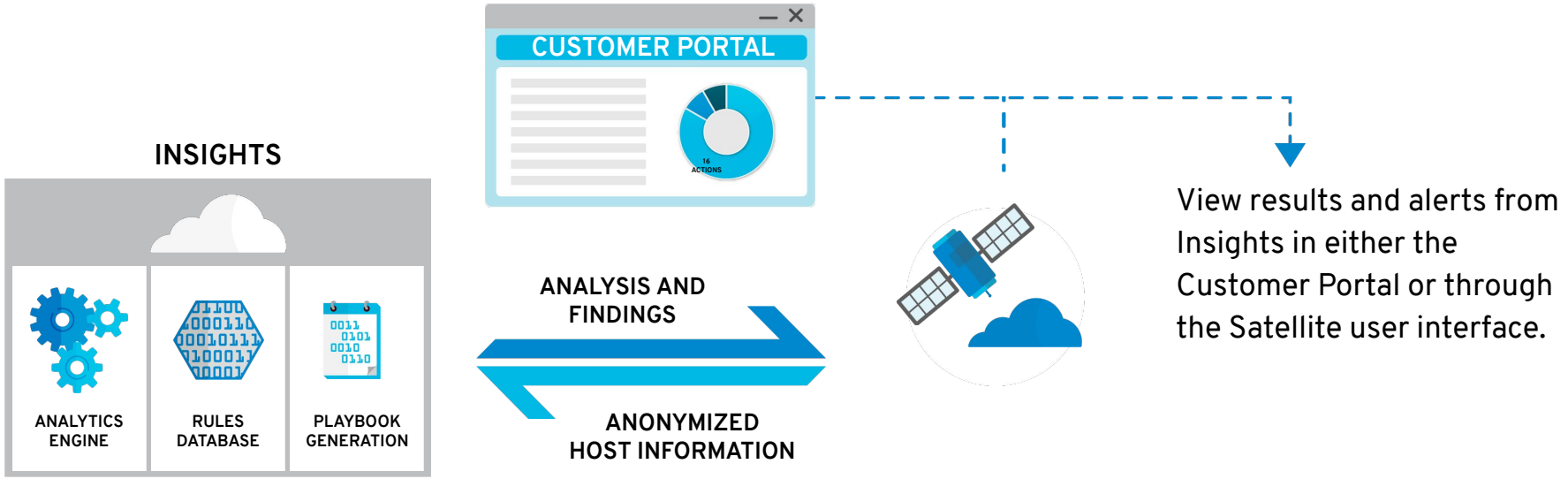
# How Insights Works

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