

Some Call it Crazy, Others Call it OpenSCAP

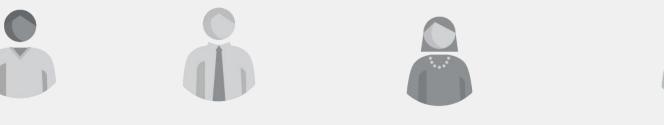
Amy Farley Technical Account Manager North American Public Sector Red Hat, Inc.

Abstract

Corporations have been hit hard with a number of cyber breaches often due to application stacks running on hosts lacking essential security patches. The business of monitoring critical Linux Enterprise infrastructure is complex and often hindered by poor governance, fragmented management applications, and unnecessary exposure to the public Internet. Satellite 6 has been design to address these all too common vulnerabilities by offering its users highly structured workflows for deploying standard Linux builds from early stage through to production. Satellite goes further with integrated Security Content Automation Protocol (SCAP) scanning that rolls up common vulnerability reporting and misconfigurations into an actionable dashboard tailored for large scale Linux estates. And it this is not enough, Satellite 6 offers all of its essential security services in a fully disconnected capacity further protecting critical computing assets from infiltration and common exposures.



WHY DOES THIS PRESENTATION MATTER?



CEO

• I don't want to end up on the news.

CIO

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My Security Officer keeps talking about a STIG or something.

DEV MANAGER

- I want root and I want it now!
- yum -y install *

OPERATIONS MANAGER

 Does your Security Officer annoy you? Ask me how to make them go away today!



Security & Compliance Management



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Security Automation with OpenSCAP

- NIST validated and certified Security Content Automation Protocol (SCAP) scanner by Red Hat
- Scans systems and containers for:
 - known vulnerabilities = unpatched software
 - compliance with security policies (PCI-DSS, US Gov baselines, etc)
- Ansible remediation playbooks provided (new with RHEL 7.5)
- Included in Red Hat Enterprise Linux base repository





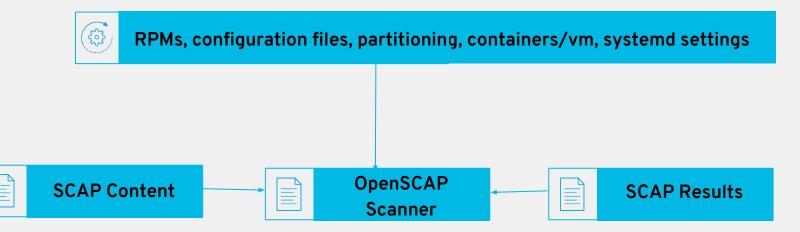
Security Automation with OpenSCAP

- Red Hat natively ships NIST validated National Checklist content
- SCAP Workbench
 - GUI front end tool for OpenSCAP that serves as an SCAP scanner
 - Local scanning of a single machine
 - Provides tailoring functionality for SCAP content



OpenSCAP Scanning

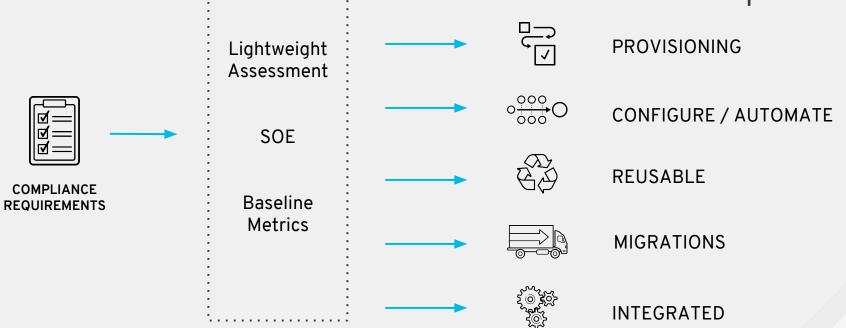








OpenSCAP Everywhere





OpenSCAP

Portfolio Capabilities

Use-case

RED HAT[®] ENTERPRISE LINUX[®]

RED HAT° SATELLITE



SE	I want to scan a single system I want to remediate a single system I want to author a new Policy I want to modify an existing Policy
ΓE	I want to scan groups of systems I want to delegate scanning OR reporting to an external identity I want to ensure a standard, secure SOE to build the foundation for DevOPS
⊤ ° LE°	I want to delegate and automate remediation I want to ensure compliance at build time across my entire RHEL-estate I want to empower my Organization to become more independent



Vulnerability Management



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Why so serious?



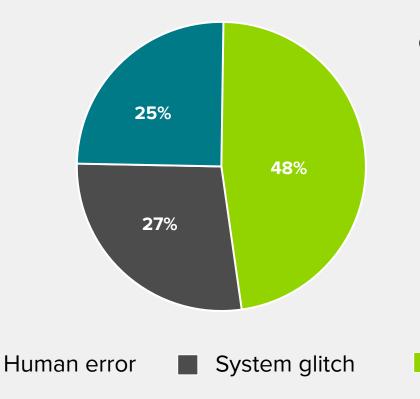


"99% of the vulnerabilities exploited by the end of 2020 will continue to be ones known by security and IT professionals at the time of the incident"

<u>Focus on the Biggest Security Threats, Not the Most Publicized</u> Gartner, November 2017



MULTIPLE SOURCES OF RISKS



Cyber criminals and hackers are more:

- Dangerous
- Sophisticated
- Global
- Profit-oriented
- Nation state sponsored

Malicious or criminal attack



RED HAT° SATELLITE

Responsive SOE with Red Hat Satellite

Establish the core to manage change



Provisioning

bare metal, virtual, and public or private clouds

Configuration

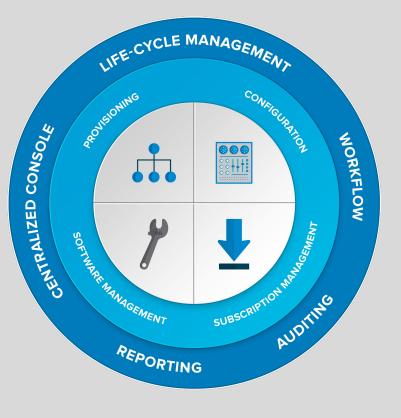
analyze and automatically remediate configuration drift and enforce desired host state

Software Management

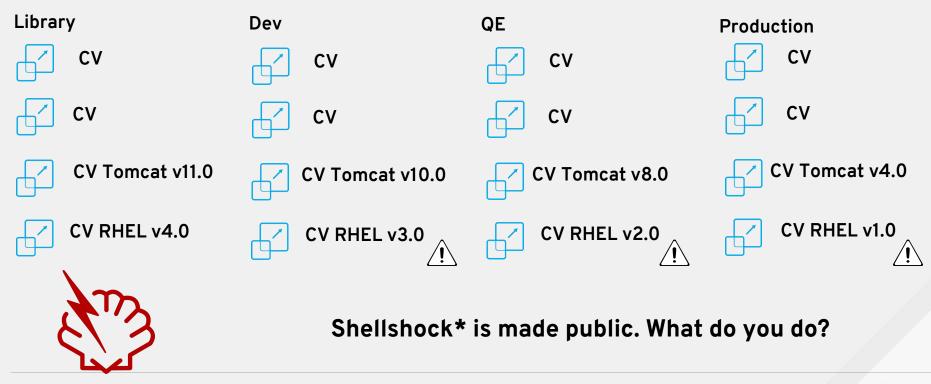
systematic process to apply content, including patches, to deployed systems in all stages, from development to production

Subscription Management

report and map Red Hat-purchased products to registered systems for end-to-end subscription consumption visibility.

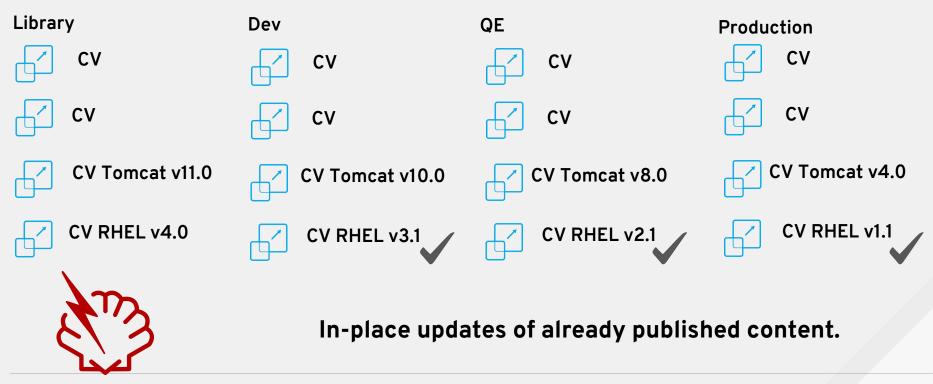


Vulnerability Management with Satellite



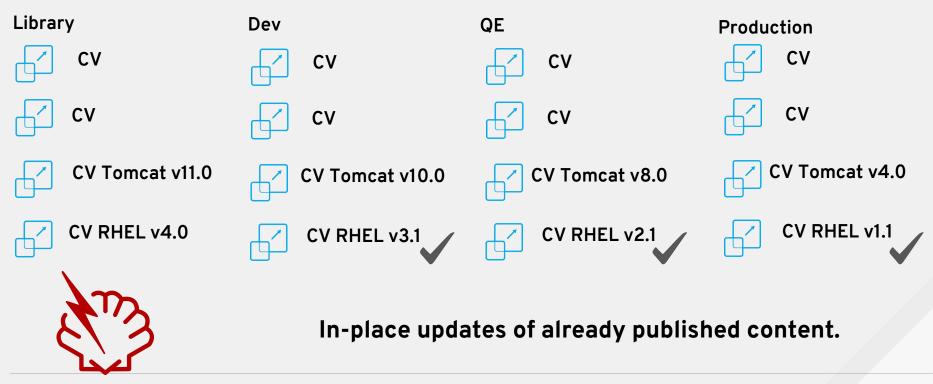


Vulnerability Management with Satellite





Vulnerability Management with Satellite













Q & A



Resources

- Satellite 6 Disconnected Operations Guide
 https://github.com/sideangleside/sat6-disconnected-operations-guide
- Subscription-manager for the former Red Hat Network User: Part
 - 7 understanding the Red Hat Content Delivery Network https://access.redhat.com/blogs/1169563/posts/2641311
- Understanding Red Hat Content Delivery Network Repositories and their usage with Satellite 6

https://access.redhat.com/articles/1586183



Resources

- Alternate Content Sources and You (or How to rebuild your Satellite and not have to download all the content from the CDN again)
 http://www.outsidaz.org/2017/12/21/alternate-content-sources-and-you-or-how-to-rebuild-your-satellite-and-not-have-to-download-all-the-content-from-the-cdn-again/
- Satellite 6: sync repository from an alternate / local content source <u>https://access.redhat.com/articles/1531833</u>
- Addressing CVE-2015-7547, CVE-2015-5229, and any other scary errata via Red Hat Satellite 6.1 <u>https://access.redhat.com/blogs/1169563/posts/2171601</u>

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