

RED HAT
SUMMIT

SECURING YOUR CONTAINER SUPPLY CHAIN

Subheading goes here

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The bottom line regarding supply chain security is a multi-layered approach to a secure, end-to-end chain of custody that includes well-defined and enforced protocols, an understanding of worldwide regulations, employee training, physical security measures, thorough carrier vetting and driver identification, video surveillance of warehouses, loading docks and gate areas as well as the use of secure facilities, lots and drop yards.

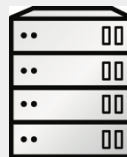
SecurityMagazine.com, April 2016, <http://www.securitymagazine.com/articles/87010-the-daily-challenges-of-supply-chain-security>

RED HAT IT

Our footprint - datacenter



- 1 Primary Data Center
- 4 Regional Data Centers
- 9 Engineering labs
- 1 External (Cloud) Provider
- 111 Network Circuits for Internet
- 68 Voice Circuits



- ~4550 Supported Nodes (90% VMs)
- 35 Production LDAP Servers
- 37 Red Hat Satellite & Proxy Nodes
- 545 Physical Nodes
- 11 RHV Clusters (119 hypervisors)
- 628 IaaS Instances (public cloud)
- 506 Linux Container Instances



90% of on-prem production systems virtualized on RHV



8.3PB Online Storage (70% NAS)
Combination of NetApp and Red Hat Storage

Our footprint - Red Hat



PLATFORM
RHEL Server
RHV
Satellite 5 and 6
Ansible



MIDDLEWARE
JBoss EAP
JBoss FUSE
JBoss AM-Q
JBoss Data Virt
JBoss BPM
Keycloak
Directory Server
Certificate Server



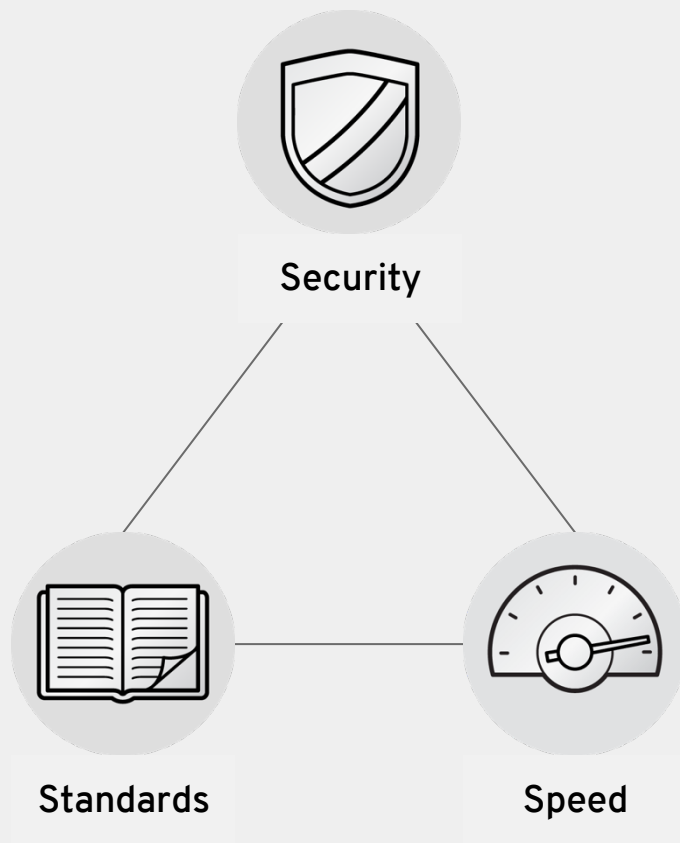
STORAGE
Red Hat Storage



CLOUD
OpenShift Container Platform
OpenShift Enterprise (legacy)
RHEL Atomic (legacy)

CONTAINERS

Three forces



Three forces

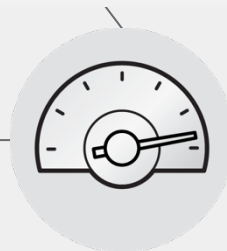


Security

Innovation



Standards



Speed

Principles



Start from a secure place



Standards by default



Appdev teams do appdev stuff

How we think about images



Base Image



Blessed Image



Augmented Image

BASE IMAGE

Where-what is it?



Red Hat Registry Stats

- 227 repositories
- 2,169 images
- 1+ TB storage



Red Hat Security Statistics 2016

- 97 critical RHSA
- 286 important RHSA
- 100% fixed in <1d



Red Hat Customer Portal Stats 2016

- 13,100,00 visitors
- 2,400,000 searches
- 108,300,00 views



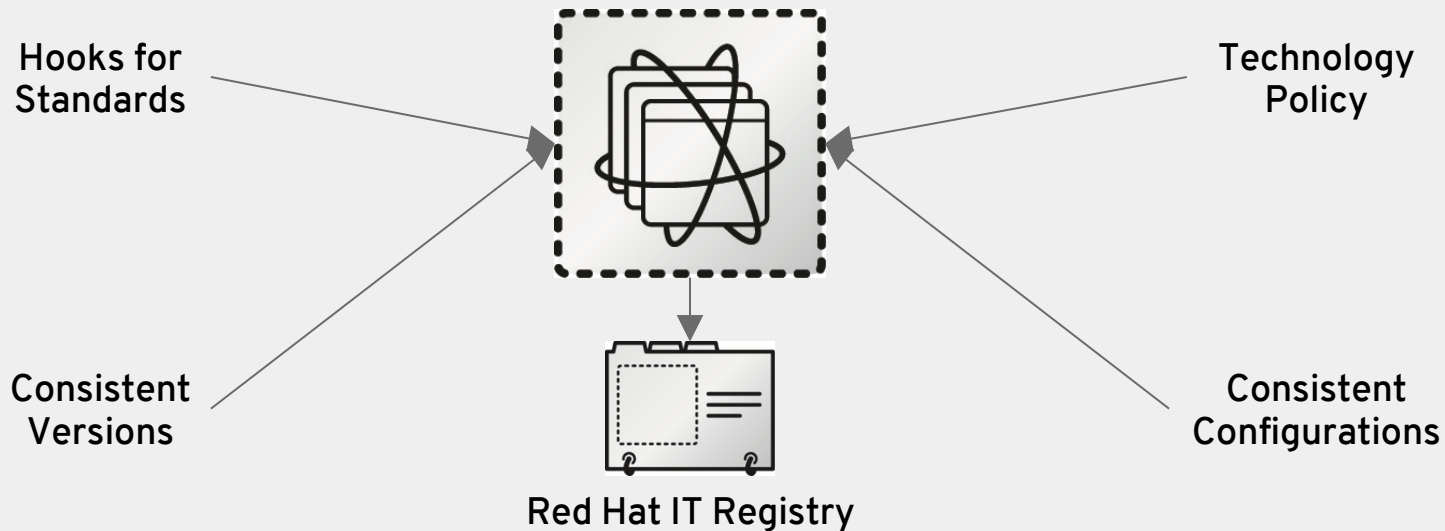
- Cross-team effort of 10 teams across 4 organizations
- Design driven approach focusing on end customer user experience

RED HAT® CONTAINER CATALOG

- Container Health Index
- Extensive Image Metadata
- Image Documentation
- Image Advisories

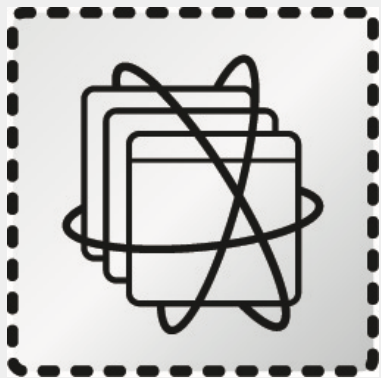
BLESSED IMAGE

Blessed images

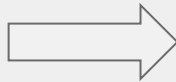


AUGMENTED IMAGE

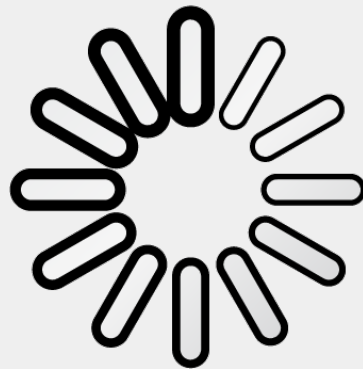
Augmented images



Application
Artifacts

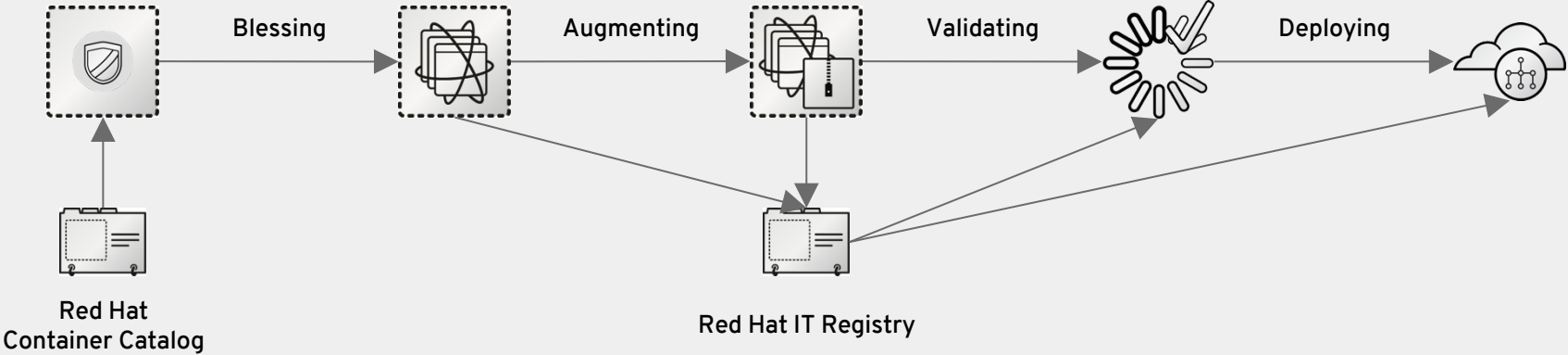


Augmented images

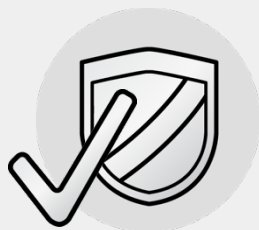


PUTTING IT ALL TOGETHER

Putting it together



Three forces



Security

Innovation



Standards



Speed

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THANK YOU



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The logo consists of a red speech bubble shape pointing downwards, containing the text "RED HAT" in a smaller font above "SUMMIT" in a larger, bold font.

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EXPERIENCE
OPEN SOURCE.