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.

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

Security

Standards

Speed
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
- 13,100,000 visitors
- 2,400,000 searches
- 108,300,000 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

Hooks for Standards

Consistent Versions

Red Hat IT Registry

Technology Policy

Consistent Configurations
Augmented images

Application Artifacts
Augmented images
PUTTING IT ALL TOGETHER
Putting it together

Red Hat Container Catalog

Blessing

Augmenting

Validating

Deploying

Red Hat IT Registry
Three forces

- Security
- Standards
- Speed

Innovation
LEARN. NETWORK. EXPERIENCE OPEN SOURCE.