Satellite 6 Update and Roadmap

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Technical Marketing Engineer

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Satellite 6 Coat of Arms
Satellite 6

- Automate Provisioning using PXE, Images, & containers, discover bare-metal servers & auto-provision with policies
- Blend RPMs, Puppet Modules, & Containers in a single versioned construct, and promote thru life cycles
- Configure using Puppet with fully managed & versioned content across your customized environments
- Deploy Red Hat content with confidence that your subscriptions are delivering their full value
Satellite 6 Architecture

RED HAT PORTAL  PUPPET  DOCKER  GIT  SCAP  CUSTOM CONTENT

Lifecyle management

Red Hat Analytics

Operator

VERSION 1
VERSION 2
LIB

VERSION N
Content View 1
Composite Content View 1

VERSION N
Content View 2
Composite Content View 2

DEV

VERSION 1
VERSION 2
QE

VERSION N
Composite Content View 2

PROD

VERSION N
Composite Content View 2

MANAGED HOSTS
VMware
RHEV
OpenStack
KVM
EC2

Network

Network (firewall)

#redhat #rhsummit
Federated Services with Capsules

- Puppet Master
- Content Mirror
- Provision Discover
- Security Scan & SCAP Reports
- Enroll in IdM
- Message Router
- Power on/off
What's New in Satellite 6.1?
Red Hat Satellite 6.1

- ✔ All New Documentation
- ✔ Cleaner User Interface
- ✔ Greater Responsiveness
- ✔ Improved Errata Handling
- ✔ Containers Managed As Content
- ✔ Capsule Isolates Host Traffic
- ✔ Policies Added To Discovery
- ✔ Integrated with Red Hat Access Insight
- ✔ Integrated Openscap
- ✔ Multiple Nic Support
Comprehensive Documentation

System Engineering

System Administration

Advanced System Management
2 Step Errata Management
## 2 Step Errata Management

<table>
<thead>
<tr>
<th>Satellite 6.0</th>
<th>Step</th>
<th>Satellite 6.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Login on to Satellite to find new errata</td>
<td>0</td>
<td>Errata email notification arrives</td>
</tr>
<tr>
<td>Identify Errata for Tomcat</td>
<td>![Warning]</td>
<td>Identify Errata for Tomcat</td>
</tr>
<tr>
<td>Publish Errata to Tomcat CV v4 in the library now v5</td>
<td>1</td>
<td>Add Errata to CV v4, now v4.1 in QE &amp; to applicable hosts CCV v3, now V3.1</td>
</tr>
<tr>
<td>Promote CCV Lib → Dev now v11</td>
<td>2</td>
<td>Add Errata to CV v4, now v4.1 in Prod &amp; to applicable hosts CCV v2, now V2.1</td>
</tr>
<tr>
<td>Promote CCV Dev → QE</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Promote CCV QE → Prod</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>2(^{nd}) Promote CCV QE</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>2(^{nd}) Promote CCV QE</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select applicable content-host(s) or host-collection</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Push errata as bulk operation</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>
2 Step Errata Management

1. Add Errata to CV & Hosts in QE
   ○ Minor Version is incremented for CV & CCV
2. Repeat for CV and Hosts in Production
Red Hat Access Insights

Overview

Use this chart to drill down and discover problems within your organization.

There are 9 action(s) detected from systems in your organization.

2 systems are not checking in

View systems and details
Red Hat Access Insights

Analytic Engine

Rules Database

Analysis and findings

Anonymized Host Information
Isolated Capsule

Satellite 6.0

Satellite 6.1
Container Management

- **Container Registries**
  - Red Hat Registry
  - Docker Hub Registry
  - Private On-Prem Registry

- **Satellite 6** serves as an on-premise registry for Linux Containers

- **Containers managed through lifecycle environments versioned with Content Views**
  - Dev
  - QE
  - Production
    - CCV-a Version 10
    - CV-a Version 4
    - CV-a Version 2

- **Environments are mirrored to Capsules**

- **Docker Pull to host**
Open SCAP Integration
Discovery

1. DHCP, DNS, TFTP

2. RED HAT SATELLITE
   - Default Organization@Default Location
   - Monitor
   - Content
   - Containers
   - Hosts
   - Configure
   - Infrastructure
   - Access Insights
   - Administer

   Discovery Rules

<table>
<thead>
<tr>
<th>Name</th>
<th>Priority</th>
<th>Query</th>
<th>Host group</th>
<th>Hosts/Limit</th>
<th>Enabled</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>2_CPU</td>
<td>0</td>
<td>cpu_count = 1</td>
<td>RH116_Dev_Servers</td>
<td>0 / 0</td>
<td>true</td>
<td>Delete</td>
</tr>
<tr>
<td>16_GB,TE,MEM</td>
<td>0</td>
<td>memory = 16GB</td>
<td>RH116_Dev_Servers</td>
<td>0 / 4</td>
<td>true</td>
<td>Delete</td>
</tr>
<tr>
<td>DevOT_2x124</td>
<td>0</td>
<td>location = &quot;Default Location&quot; and subnet = 192.168.124.0</td>
<td>RH116_Dev_Servers</td>
<td>0 / 0</td>
<td>true</td>
<td>Delete</td>
</tr>
<tr>
<td>VM_Stg,Storage</td>
<td>0</td>
<td>model = &quot;EsM and disk.size &gt; 2TB&quot;</td>
<td>RH116_Dev_Servers</td>
<td>0 / 0</td>
<td>true</td>
<td>Delete</td>
</tr>
<tr>
<td>1_CPU</td>
<td>1</td>
<td>cpu_count = 1</td>
<td>RH117_Prod_Servers</td>
<td>1 / 0</td>
<td>true</td>
<td>Delete</td>
</tr>
</tbody>
</table>
High Level Roadmap for 6.2
Satellite 6 Release Schedule

- Q3CY14: Satellite 6.0 GA
- Q4CY14: Satellite 6.1 Private Beta
- Q1CY15: Satellite 6.1 Public Beta
- Q2CY15: Satellite 6.1.1 GA
- Q3CY15: Satellite 6.2 Beta
- Q4CY15: Satellite 6.2 GA
- Q1CY16: Satellite 6.3 Alpha
GENERAL IMPROVEMENTS
Remote Execution | Dynamic Host Collection | Inter-Satellite Sync

ATOMIC OSTREE AND CONTAINERS
On-premise Enterprise Registry for Atomic OS and Docker containers

SOE V2 with Content Views
Multi-version Support | Preview Function | Sharing Faster Puppet Module Updates | Centrally Managed Smart Variables

CAPSULE IMPROVEMENTS
Observability | Greater Resiliency | Improved Command and Control

HIGH AVAILABILITY
Satellite Server in Active Active Cluster | Capsules Load Balanced
# Satellite Related Talks

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Talk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wed: 2:30pm – 3:30pm</td>
<td></td>
<td><strong>Ikea vs Shellshock: 1-0</strong></td>
</tr>
<tr>
<td>Wed: 3:40pm – 4:40pm</td>
<td></td>
<td><strong>Transitioning from Satellite 5 to 6</strong></td>
</tr>
<tr>
<td>Wed: 3:40pm – 4:40pm</td>
<td></td>
<td><strong>Realworld perspectives: managing infrastructures with Satellite (panel)</strong></td>
</tr>
<tr>
<td>Thu: 1:20pm – 2:20pm</td>
<td></td>
<td><strong>Shellshock, heartbleed -- What’s the next headache for compliance?</strong></td>
</tr>
<tr>
<td>Thu: 3:40pm – 4:40pm</td>
<td></td>
<td><strong>Cloudforms, satellite 6 and puppet for automating JBOSS EAP 6</strong></td>
</tr>
<tr>
<td>Thu: 4:50pm – 5:50pm</td>
<td></td>
<td><strong>10 steps to build a standard operating environment</strong></td>
</tr>
<tr>
<td>Thu: 4:50pm – 5:50pm</td>
<td></td>
<td><strong>Puppet Enterprise and Satellite 6</strong></td>
</tr>
<tr>
<td>Fri: 9:45am – 10:45am</td>
<td></td>
<td><strong>Security compliance automation with Satellite</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Satellite 6 power user tips and tricks</strong></td>
</tr>
</tbody>
</table>
SATELLITE LABS, TRAINING & MORE

LABS
THUR 3:30PM-5:30PM
SECURITY COMPLIANCE MADE EASY WITH OPENSCAP

TASTE OF TRAINING
WED: 3:40PM – 4:40PM
MANAGING SOFTWARE & ERRATA DEPLOYMENT WITH SATELLITE 6

FRI: 9AM-11AM
MIGRATE FROM RED HAT SATELLITE 5 TO SATELLITE 6
FRI: 11:30AM-1PM
HAND-ON WITH SATELLITE 6.1

Come See Us!

Visit the Satellite Team
In the Red Hat Infrastructure
Booth #306

Visit the Foreman Team
In the Community
Booth

#redhat #rhsummit
DEMO