Red Hat Satellite

Roadmap and Futures

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EFFICIENT PLATFORM MANAGEMENT

- Provides life-cycle management for Red Hat infrastructure
- Enables provisioning on bare metal, virtualized and cloud-based infrastructures
- Provides centralized configuration and drift management
- Simplifies management of content, including security errata and containers
- Makes it easy to manage and track subscriptions
- Allows large scale remote command and control for managed hosts
RED HAT SATELLITE TOPOLOGY

CONTENT SOURCES
- RED HAT PORTAL
- PUPPET FORGE
- DOCKER HUB
- GIT HUB
- THIRD-PARTY REPOS

OPERATORS

RED HAT SATELLITE

RED HAT ANALYTICS

OPERATOR

ORGANIZATION 1
- LIB
- DEV
- QE
- PROD

VERSION 1
VERSION 2
VERSION N

COMPOSITE CONTENT
VIEW 2
COMPOSITE CONTENT
VIEW 2
COMPOSITE CONTENT
VIEW 2
COMPOSITE CONTENT
VIEW 2

RED HAT SATELLITE

NETWORK

CAPSULE 1
CAPSULE 2
CAPSULE 3
CAPSULE N

REGION 1
REGION 2
REGION 3
REGION N

NETWORK (FIREWALL)

CAPSULE 1
CAPSULE 2
CAPSULE 3
CAPSULE N

REGION 1
REGION 2
REGION 3
REGION N
SCALE OUT WITH CAPSULES

- Puppet master
- Content mirror
- Provision, discover, configure
- Vulnerability scanner
- Enrollment in identity
- SSH engine
- Power on/off
Red Hat Satellite 5

In brief...
KEY EVENTS FOR SATELLITE 5

Satellite 5.8 General Availability: JUNE 2017

Satellite 5.6 / 5.7 End-of-Life: JUL 31 2017

Satellite 5.8 Extended Lifecycle Support: JAN 31 2019

Satellite 5.8 End of Extended Support: MAY 31 2020

WE ARE HERE 2018 2019 2020
### KEY EVENTS FOR SATELLITE 5, cont.

**Your options as a Satellite 5 customer**

<table>
<thead>
<tr>
<th></th>
<th>End of Production Phase 3</th>
<th>End of Extended Life Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satellite and Proxy 5.8</td>
<td>Jan 31, 2019</td>
<td>May 31, 2020</td>
</tr>
<tr>
<td>Satellite and Proxy 5.7 &amp; 5.6</td>
<td>Jan 31, 2019</td>
<td>Not supported</td>
</tr>
<tr>
<td>Proxy 5.x Stand-Alone (No Satellite server)*</td>
<td>Oct 31, 2017</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

*Proxy server connects directly to the Red Hat Network.*

The full Satellite 5 & 6 support lifecycle

[https://access.redhat.com/support/policy/updates/satellite/](https://access.redhat.com/support/policy/updates/satellite/)
KEY EVENTS FOR SATELLITE 5, cont.

Satellite 5.8 is in beta! General Availability mid-year 2017.

- **Increased speed with channel install and content syncing**
  - First version of Satellite 5 to access the Customer Portal
  - Register, activate and update Satellite from the Customer Portal
  - Synchronize content via our modern Content Delivery Network (CDN)

- **Improved diagnostics of background tasks and jobs**
  - Taskotop monitors Taskomatic job scheduler, providing insightful information on those jobs.

- **Updated support of Oracle DB & PostgreSQL**
  - Expanding support for External Oracle Database 12c + Embedded/Managed PostgreSQL 9.5 DB

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**Legacy feature removal**
- Monitoring
- Solaris management
- Subscription Asset Manager
Red Hat Satellite 6
One company’s journey from Satellite 5 to 6
Satellite 5 was awesome, so why move on?
- Successes with Satellite 5
- Motivations for moving on

Satellite 6 - The early years

Red Hat Ecosystem, in relation to Satellite 6
Red Hat Satellite 6.2
Asynchronous (z-stream) releases with a focus on stability, performance, and scale
6.0 THEMES - “a more modern Satellite 5”
- New content workflow – Products/Repositories, Content Views
- New Life Cycle workflow – Environments and life cycle paths
- Recipe-based configuration management (Puppet)
- REST-based APIs

6.1 THEMES - “Satellite 5 gap closure / scaling and polish / MaaS”
- Disconnected Satellite Support
- OpenSCAP integration (policy and compliance)
- Discovery and Deployment – Metal-as-a-Service
- Red Hat Insights integration
6.2 THEMES - “Expansion, Stability, Performance, and Scale.”
- Remote Execution
- Inter-Satellite Sync
- Bootstrap migration/registration script
- PXE-Less Discovery

6.3 THEMES - “Integration, Usability, and Subscription Improvement’
## Satellite 6.2 Performance & Scaling

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Focus</th>
<th>Bug Fixes</th>
<th>Customer Issues Solved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 2016</td>
<td>6.2.1</td>
<td>Upgrade fixes</td>
<td>17</td>
<td>Unblocked customers from upgrading from 6.1 -&gt; 6.2</td>
</tr>
<tr>
<td>Sept 2016</td>
<td>6.2.2</td>
<td>Improved management of bulk subscriptions renewals</td>
<td>36</td>
<td>Improved bulk management of subscriptions: Customers able to re-apply subs en-mass to 100s/1000s of systems</td>
</tr>
<tr>
<td>Oct 2016</td>
<td>6.2.3</td>
<td>Streamlined content synchronizations (Lazy Sync)</td>
<td>25</td>
<td>Customers save on disk space and time to complete initial setup.</td>
</tr>
<tr>
<td>Nov 2016</td>
<td>6.2.4</td>
<td>Virt-who performance improvements &amp; memory leaks</td>
<td>13</td>
<td>UI efficiencies improved product scaling to 5,000+ systems.</td>
</tr>
<tr>
<td>Dec 2016</td>
<td>6.2.5</td>
<td>Stability, performance and scalability enhancements</td>
<td>40</td>
<td>Cut average upgrade time in half.</td>
</tr>
<tr>
<td>Dec 2016</td>
<td>6.2.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jan 2017</td>
<td>6.2.7</td>
<td>Install / upgrades, performance and functional improvements</td>
<td>42</td>
<td>Bug fixes, performance, and scaling improvements.</td>
</tr>
</tbody>
</table>
# SATELLITE 6.2 PERFORMANCE & SCALING

<table>
<thead>
<tr>
<th>DATE</th>
<th>VERSIONS</th>
<th>FOCUS</th>
<th>BUG FIXES</th>
<th>CUSTOMER ISSUES SOLVED</th>
</tr>
</thead>
</table>
| Mar 2017| 6.2.8    | Virt-who requirement transparency. Better state awareness. Scale and stability. | 54        | • Applying Custom Configuration via the installer  
• Red Hat Insights Weekly Summary Emails  
• Remote Execution can be configured to prefer FQDN versus IP  
• Dashboard & Widget improvements |
| May 2017| 6.2.9    | Scale, stability, repair and performance                              | 48        | • Performance enhancement to Capsule Sync operation  
• New ability to repair and resync missing RPMs  
• Katello-backup critical issues resolved |
| Jun 2017| 6.2.10   | Remote execution performance improvements                            |           |                                                                                                                 |
| Jul 2017| 6.2.11   | Prioritized High Priority bugs                                        |           |                                                                                                                 |
Stabilization efforts have been focused on usability, performance, stability, and scale.

- Streamlining installs and upgrades
- Making managing subscriptions easier
- Streamlined content syncing via new content download options
- Remote execution performance and scaling improvements
- Hundreds of bug fixes
Red Hat Satellite 6.3
User experience, updated tooling, easier to support, integrations
## SATELLITE 6.3 ROADMAP

<table>
<thead>
<tr>
<th>FOCUS AREA</th>
<th>DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management Integrations</td>
<td>● <strong>Ansible Tower</strong> – Automation and configuration</td>
</tr>
<tr>
<td>Public Cloud</td>
<td>● Support Satellite + Capsule running on EC2</td>
</tr>
<tr>
<td>Subscription Management</td>
<td>● Early consumption of purchased subscriptions</td>
</tr>
<tr>
<td></td>
<td>● Improvements to the subscription renewal workflow</td>
</tr>
<tr>
<td></td>
<td>● Subscriptions bulk upgrade tooling</td>
</tr>
<tr>
<td></td>
<td>● Virt-who configuration wizard</td>
</tr>
<tr>
<td>Puppet 4</td>
<td>● Puppet 4 &amp; Puppet 3.8 - you choose</td>
</tr>
<tr>
<td>Users &amp; RBAC</td>
<td>● Org-Admin role formalized</td>
</tr>
<tr>
<td></td>
<td>● Organization and location assignment for LDAP users</td>
</tr>
<tr>
<td></td>
<td>● Email settings configurable via CLI/API</td>
</tr>
<tr>
<td>Ease of Use/Support</td>
<td>● Satellite cloning tool</td>
</tr>
<tr>
<td></td>
<td>● Satellite renaming tool</td>
</tr>
<tr>
<td>Security</td>
<td>● Tailoring file support</td>
</tr>
<tr>
<td>FOCUS AREA</td>
<td>DETAILS</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Content Management</td>
<td>● Lazy Synchronization of Content</td>
</tr>
<tr>
<td></td>
<td>● Add Arbitrary files and ISOs to Content Views</td>
</tr>
<tr>
<td>Provisioning</td>
<td>● UEFI Support</td>
</tr>
<tr>
<td></td>
<td>● Improved Compute Resource Configuration</td>
</tr>
<tr>
<td></td>
<td>● RHEV 4.0 compute resource support</td>
</tr>
<tr>
<td></td>
<td>● Improved hostname creation logic for clients with Discovery</td>
</tr>
<tr>
<td></td>
<td>● Parameterization support at the subnet level for hosts</td>
</tr>
<tr>
<td></td>
<td>● Pull templates from git</td>
</tr>
<tr>
<td>Migration / Registration</td>
<td>● Refactor transition guide</td>
</tr>
<tr>
<td>Polish and rounding-out features</td>
<td>● Notification drawer and other UI Improvements</td>
</tr>
<tr>
<td></td>
<td>● Tokenized authentication for Hammer CLI</td>
</tr>
<tr>
<td></td>
<td>● Company specific messages on the login page</td>
</tr>
</tbody>
</table>
Red Hat Satellite 6.4 and beyond
### SATELLITE 6.4 ROADMAP

<table>
<thead>
<tr>
<th>FOCUS AREA</th>
<th>DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Ansible Support</td>
<td>● Ansible core automation as default for provisioning and configuration management</td>
</tr>
<tr>
<td></td>
<td>● Puppet support remains, inside or connected</td>
</tr>
<tr>
<td>Troubleshooting and Supportability</td>
<td>● Improved logging and audit capabilities</td>
</tr>
<tr>
<td></td>
<td>● “Health Check” tooling</td>
</tr>
<tr>
<td></td>
<td>● Better sub-system status indication</td>
</tr>
<tr>
<td>Content Management Simplification</td>
<td>● SOE v2 to make the process of defining Standard Operating Environments easier</td>
</tr>
<tr>
<td></td>
<td>● Improvements to Satellite-to-Satellite synchronization</td>
</tr>
<tr>
<td>Subscription Simplification</td>
<td>● Simpler assignment and management of license pools to reduce manual effort and potential mistakes</td>
</tr>
<tr>
<td>Cloud Enablement</td>
<td>● Full enablement for the major cloud providers - managing from your data center or running Satellite in the cloud</td>
</tr>
<tr>
<td>System Introspection</td>
<td>● Remote interactive engagement of individual host via Cockpit</td>
</tr>
</tbody>
</table>
PLANS FOR SATELLITE & ANSIBLE

Tower integration + Ansible Core ‘inside’

Satellite 6.2 & older

Satellite 6.3 (eta. 2017)

Satellite 6.4 (eta. 2018)

- puppet

ANSIBLE TOWER by Red Hat

puppet Enterprise
Satellite Futures
FUTURE RELEASES - WHAT TO ANTICIPATE

2018 and beyond

Additional Minor Releases of Satellite 6.x

Future Major Releases of Satellite will not require a migration/transition.
THANK YOU

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