

RED HAT  
**SUMMIT**

# Red Hat Satellite

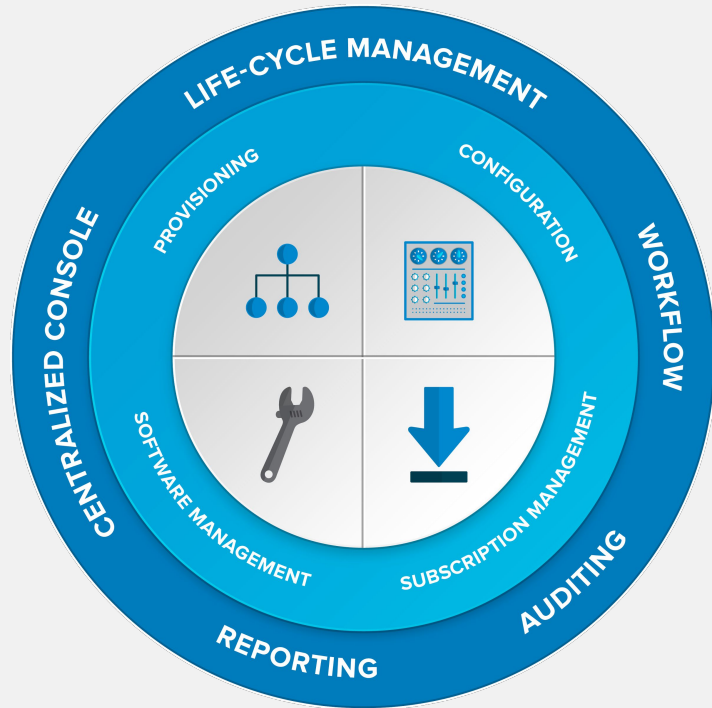
## Roadmap and Futures

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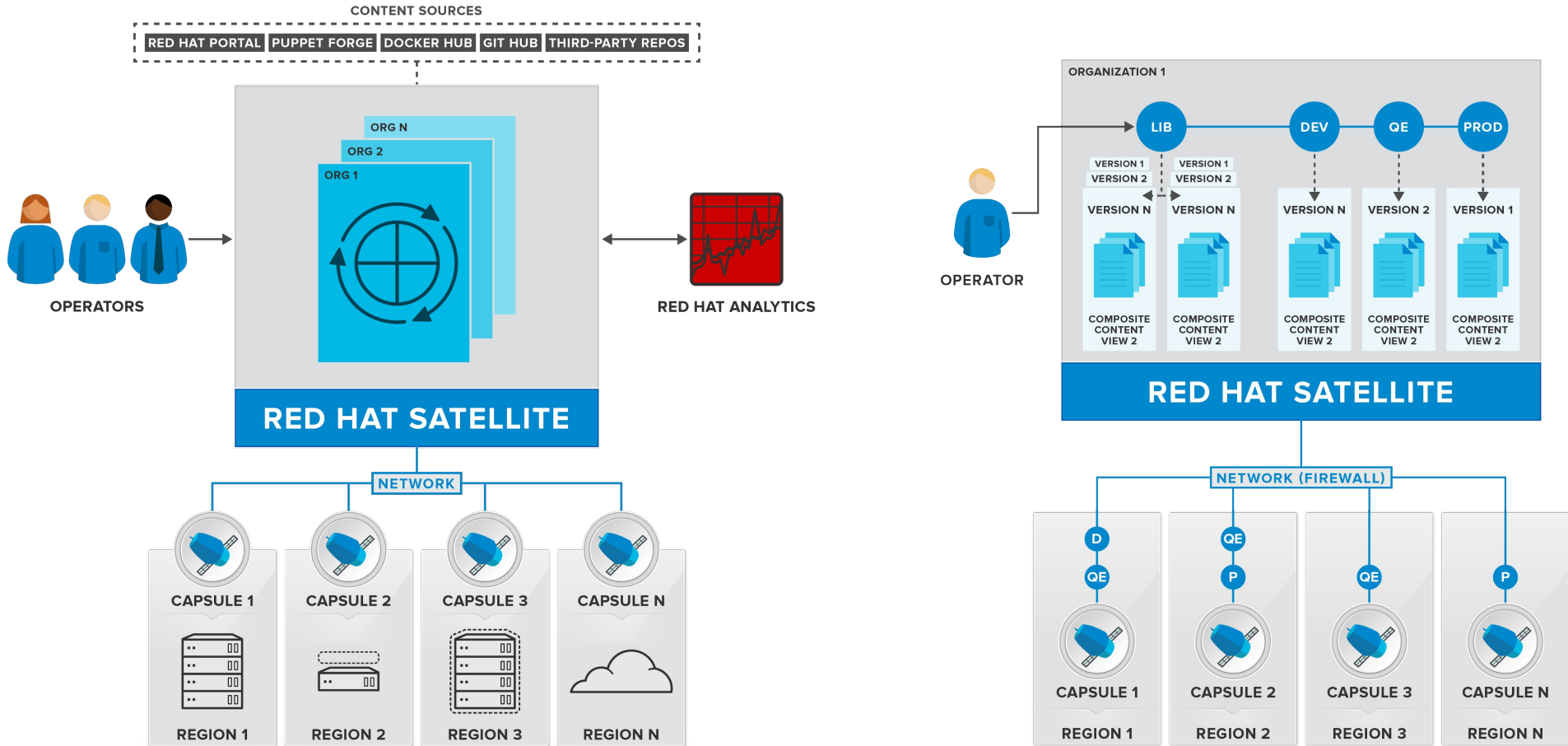
# RED HAT® SATELLITE



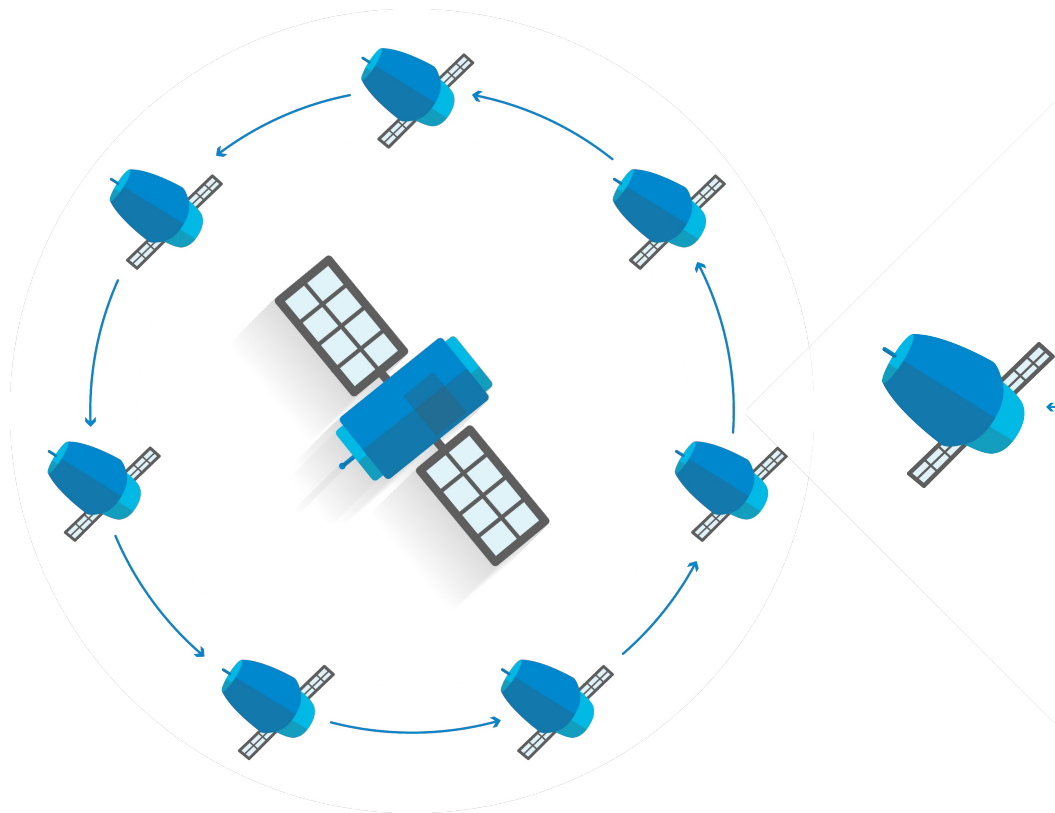
## EFFICIENT PLATFORM MANAGEMENT

- 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



# SCALE OUT WITH CAPSULES

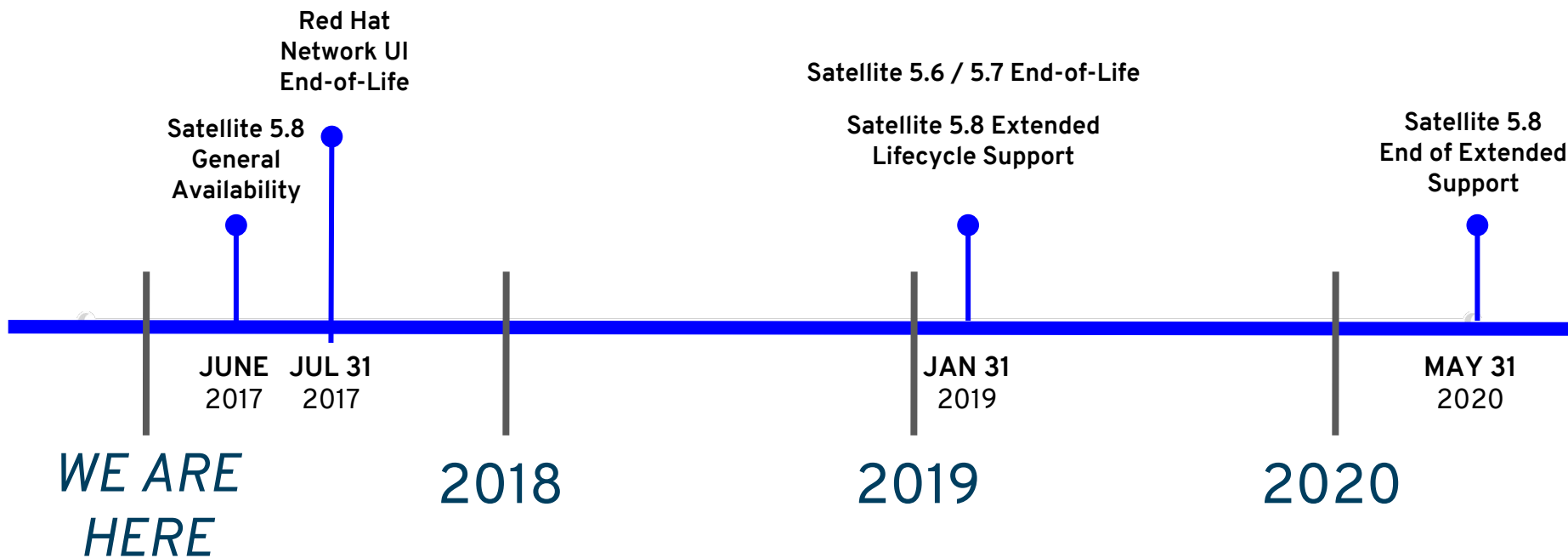


- Puppet master
- Content mirror
- Provision, discover, configure
- Vulnerability scanner
- Enrollment in identity
- SSH engine
- Power on/off

# Red Hat Satellite 5

## In brief...

# KEY EVENTS FOR SATELLITE 5



# KEY EVENTS FOR SATELLITE 5, cont.

*Your options as a Satellite 5 customer*

	End of Production Phase 3	End of Extended Life Phase
Satellite and Proxy 5.8	Jan 31, 2019	May 31, 2020
Satellite and Proxy 5.7 & 5.6	Jan 31, 2019	Not supported
Proxy 5.x Stand-Alone (No Satellite server)*	Oct 31, 2017	Not supported

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

The full Satellite 5 & 6 support lifecycle

<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

### Legacy feature removal

- *Monitoring*
- *Solaris management*
- *Subscription Asset Manager*



# Red Hat Satellite 6

*One company's journey from Satellite 5 to 6*

# NAVY FEDERAL CREDIT UNION

**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

# SATELLITE 6 RELEASE SUMMARY

## 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

# SATELLITE 6 RELEASE SUMMARY, cont.

## 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

DATE	VERSIONS	FOCUS	BUG FIXES	CUSTOMER ISSUES SOLVED
Aug 2016	6.2.1	Upgrade fixes	17	Unblocked customers from upgrading from 6.1 -> 6.2
Sept 2016	6.2.2	Improved management of bulk subscriptions renewals	36	Improved bulk management of subscriptions: Customers able to re-apply subs en-mass to 100s/1000s of systems
Oct 2016	6.2.3 async errata	Streamlined content synchronizations (Lazy Sync)	25	Customers save on disk space and time to complete initial setup.
Nov 2016	6.2.4	Virt-who performance improvements & memory leaks	13	UI efficiencies improved product scaling to 5,000+ systems.
Dec 2016	6.2.5 6.2.6	Stability, performance and scalability enhancements	40	Cut average upgrade time in half.
Jan 2017	6.2.7	Install / upgrades, performance and functional improvements	42	Bug fixes, performance, and scaling improvements.

# SATELLITE 6.2 PERFORMANCE & SCALING

DATE	VERSIONS	FOCUS	BUG FIXES	CUSTOMER ISSUES SOLVED
Mar 2017	6.2.8	Virt-who requirement transparency. Better state awareness. Scale and stability.	54	<ul style="list-style-type: none"><li>• Applying Custom Configuration via the installer</li><li>• Red Hat Insights Weekly Summary Emails</li><li>• Remote Execution can be configured to prefer FQDN versus IP</li><li>• Dashboard &amp; Widget improvements</li></ul>
May 2017	6.2.9	Scale, stability, repair and performance	48	<ul style="list-style-type: none"><li>• Performance enhancement to Capsule Sync operation</li><li>• New ability to repair and resync missing RPMs</li><li>• Katello-backup critical issues resolved</li></ul>
Jun 2017	6.2.10	Remote execution performance improvements		
Jul 2017	6.2.11	Prioritized High Priority bugs		

# SATELLITE 6.2 PERFORMANCE & SCALING

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

FOCUS AREA	DETAILS
Management Integrations	<ul style="list-style-type: none"><li>● <b>Ansible Tower</b> – Automation and configuration</li></ul>
Public Cloud	<ul style="list-style-type: none"><li>● Support Satellite + Capsule running on EC2</li></ul>
Subscription Management	<ul style="list-style-type: none"><li>● Early consumption of purchased subscriptions</li><li>● Improvements to the subscription renewal workflow</li><li>● Subscriptions bulk upgrade tooling</li><li>● Virt-who configuration wizard</li></ul>
Puppet 4	<ul style="list-style-type: none"><li>● Puppet 4 &amp; Puppet 3.8 - you choose</li></ul>
Users & RBAC	<ul style="list-style-type: none"><li>● Org-Admin role formalized</li><li>● Organization and location assignment for LDAP users</li><li>● Email settings configurable via CLI/API</li></ul>
Ease of Use/Support	<ul style="list-style-type: none"><li>● Satellite cloning tool</li><li>● Satellite renaming tool</li></ul>
Security	<ul style="list-style-type: none"><li>● Tailoring file support</li></ul>

# SATELLITE 6.3 ROADMAP, cont.

FOCUS AREA	DETAILS
Content Management	<ul style="list-style-type: none"><li>● Lazy Synchronization of Content</li><li>● Add Arbitrary files and ISOs to Content Views</li></ul>
Provisioning	<ul style="list-style-type: none"><li>● UEFI Support</li><li>● Improved Compute Resource Configuration</li><li>● RHEV 4.0 compute resource support</li><li>● Improved hostname creation logic for clients with Discovery</li><li>● Parameterization support at the subnet level for hosts</li><li>● Pull templates from git</li></ul>
Migration / Registration	<ul style="list-style-type: none"><li>● Refactor transition guide</li></ul>
Polish and rounding-out features	<ul style="list-style-type: none"><li>● Notification drawer and other UI Improvements</li><li>● Tokenized authentication for Hammer CLI</li><li>● Company specific messages on the login page</li></ul>

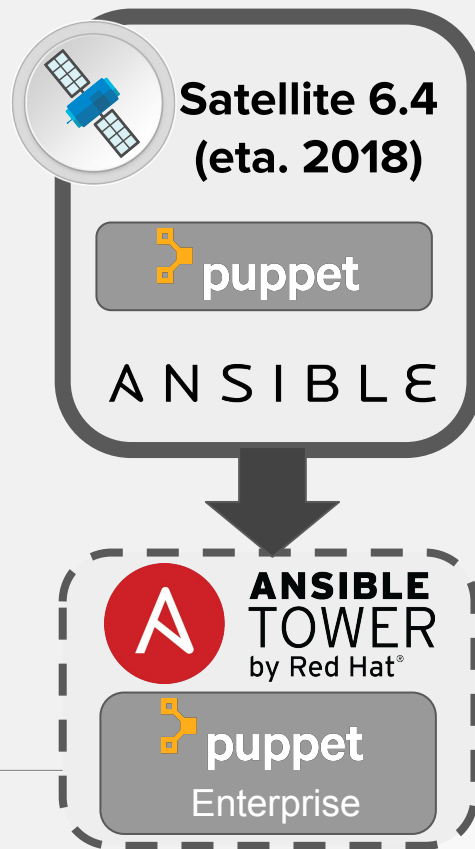
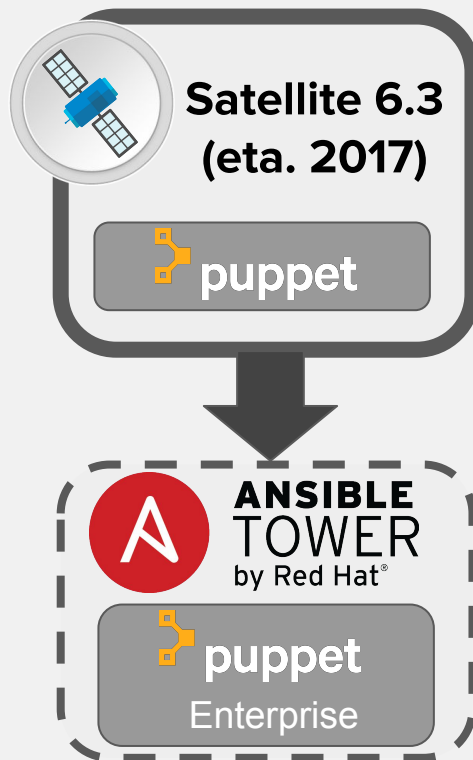
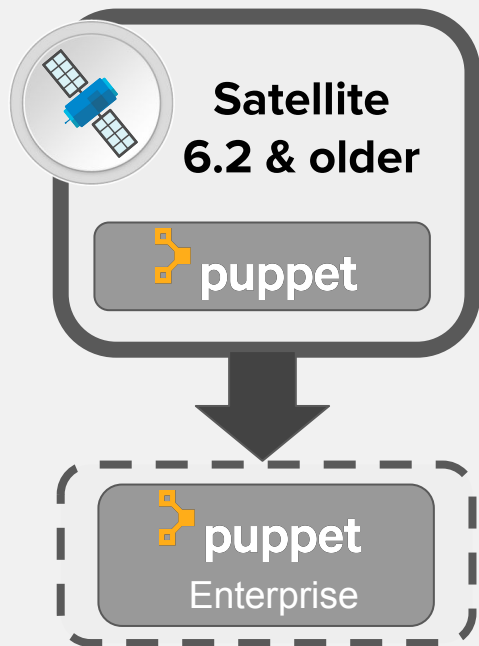
# Red Hat Satellite 6.4 and beyond

# SATELLITE 6.4 ROADMAP

FOCUS AREA	DETAILS
Full Ansible Support	<ul style="list-style-type: none"><li>• Ansible core automation as default for provisioning and configuration management</li><li>• Puppet support remains, inside or connected</li></ul>
Troubleshooting and Supportability	<ul style="list-style-type: none"><li>• Improved logging and audit capabilities</li><li>• “Health Check” tooling</li><li>• Better sub-system status indication</li></ul>
Content Management Simplification	<ul style="list-style-type: none"><li>• SOE v2 to make the process of defining Standard Operating Environments easier</li><li>• Improvements to Satellite-to-Satellite synchronization</li></ul>
Subscription Simplification	<ul style="list-style-type: none"><li>• Simpler assignment and management of license pools to reduce manual effort and potential mistakes</li></ul>
Cloud Enablement	<ul style="list-style-type: none"><li>• Full enablement for the major cloud providers - managing from your data center or running Satellite in the cloud</li></ul>
System Introspection	<ul style="list-style-type: none"><li>• Remote interactive engagement of individual host via Cockpit</li></ul>

# PLANS FOR SATELLITE & ANSIBLE

*Tower integration + Ansible Core 'inside'*



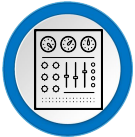
# Satellite Futures

# 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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The logo for Red Hat Summit, featuring the words "RED HAT" in a smaller font above "SUMMIT" in a larger font, both in white, set against a white speech bubble shape.

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