

## AGENDA

**13:30 - 14:25** Gestion des patches, du provisioning et de la configuration de RHEL avec Satellite 6.1, par Michael Lessard, Red Hat

**14:25 - 14:35** Capsule : Surveiller les accès aux fichiers avec Auditd, par Philippe Leblond, Telus

**14:50 - 15:40** Gestion d'identité avec IDM et intégration avec Active Directory, par Nicolas Zin, Savoir Faire Linux

**15:40 - 15:50** Capsule : Démonstration de RHEL Atomic Host, par Eric Gaulin, CGI

**16:00 - 17:00** Voyage au coeur de systemd, par Pierre Lemay, CSPQ

**17:00 - 17:30** Cocktail et réseautage



# RED HAT SATELLITE 6.1 OVERVIEW

Michael Lessard

Senior Solutions architect

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 [michaellessard](#)

June 2015

# Agenda

What is Satellite ?

Satellite Overview

Satellite 6.x new features

Lifecycle Management

Content view

Host Group

Discovery

Demo

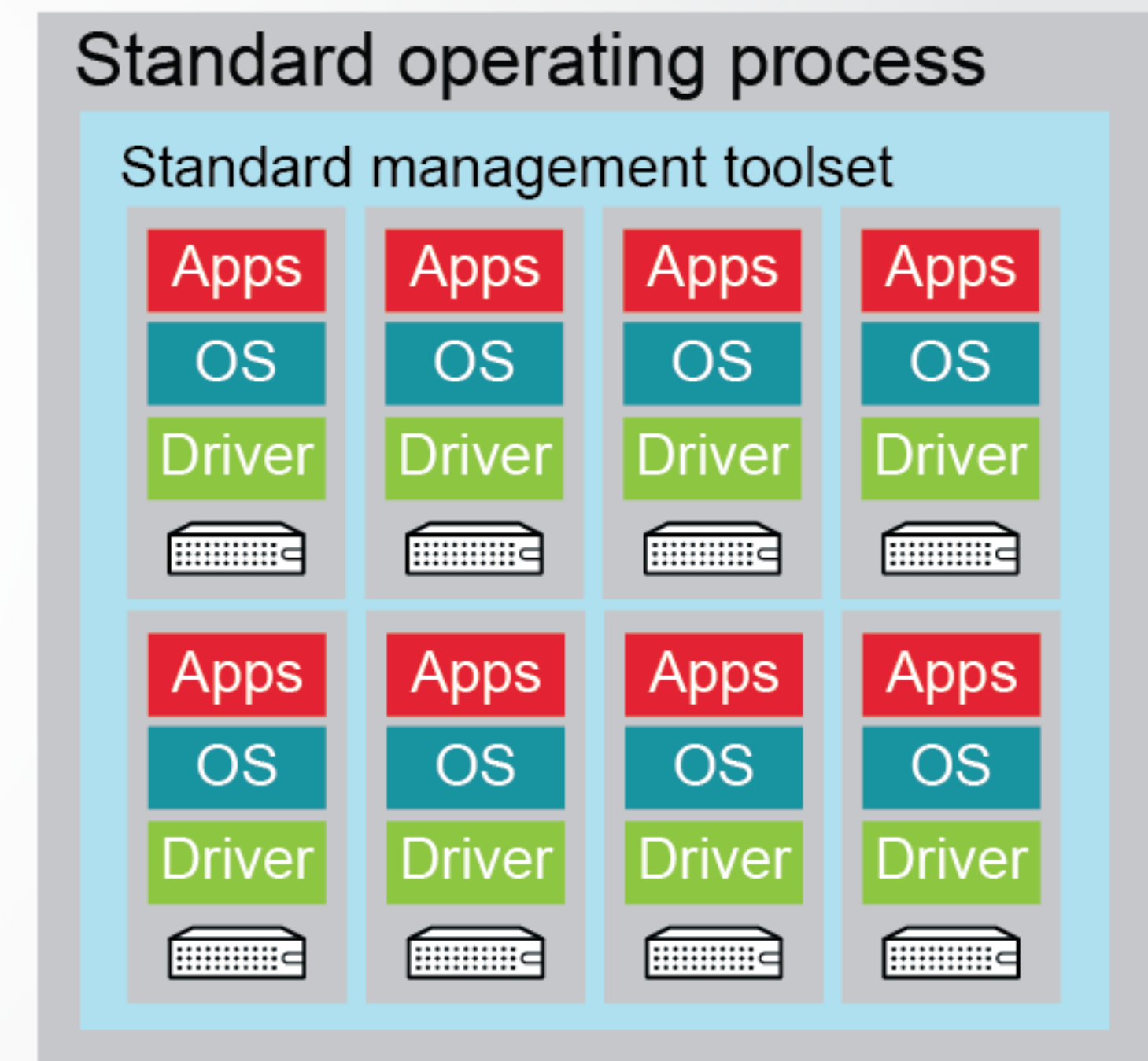
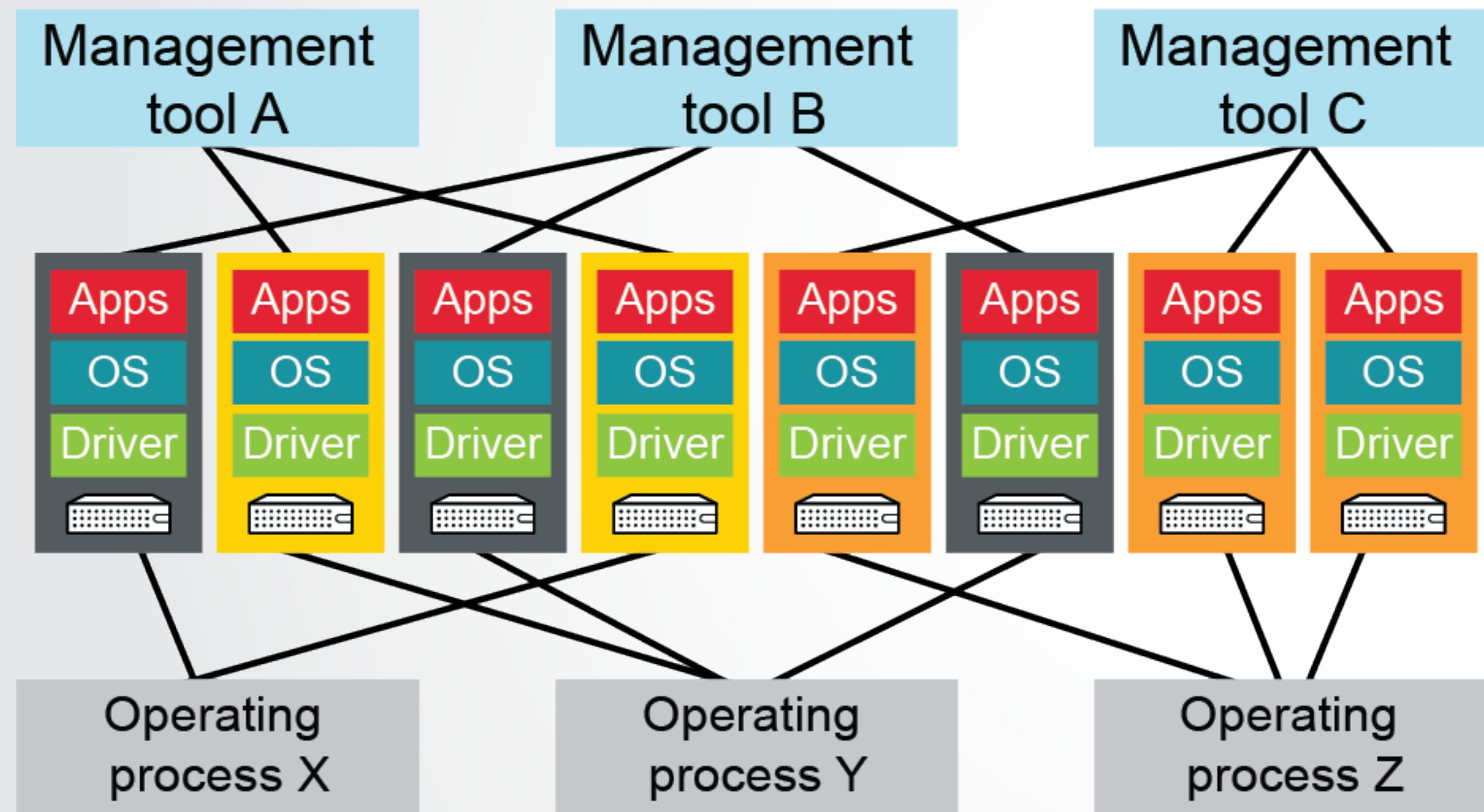
Satellite 6 transition

**Standardized  
operating  
environments  
for cost control  
and efficiency**

# Simplified infrastructure for higher efficiency

Non-standardized environment

Standardized operating environment



Boost productivity and uptime

# Benefits of standardized operating environments



- Simplified infrastructure
- Easier management and administration
- Less downtime
- Increased automation and efficiency
- Higher productivity

**Reduce costs**

**Increase business agility**

# Standardizing on Red Hat technologies

**RED HAT<sup>®</sup>  
ENTERPRISE  
LINUX<sup>®</sup>**

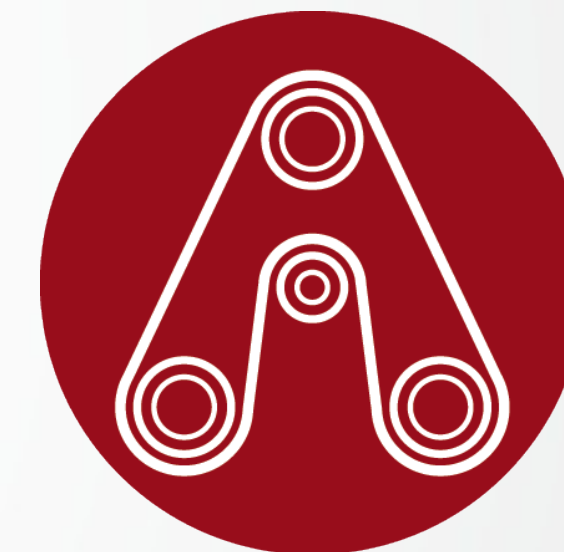
+

**RED HAT<sup>®</sup>  
SATELLITE**

Lower total cost  
of ownership



Greater IT  
efficiency



Increased  
productivity



# Red Hat Satellite



# Satellite makes Red Hat Enterprise Linux...

## **Deployable**

- Easier to define and provision new systems

## **Scalable**

- Datacenters can add more systems without adding extra admins
- Built to handle thousands of managed systems

## **Manageable**

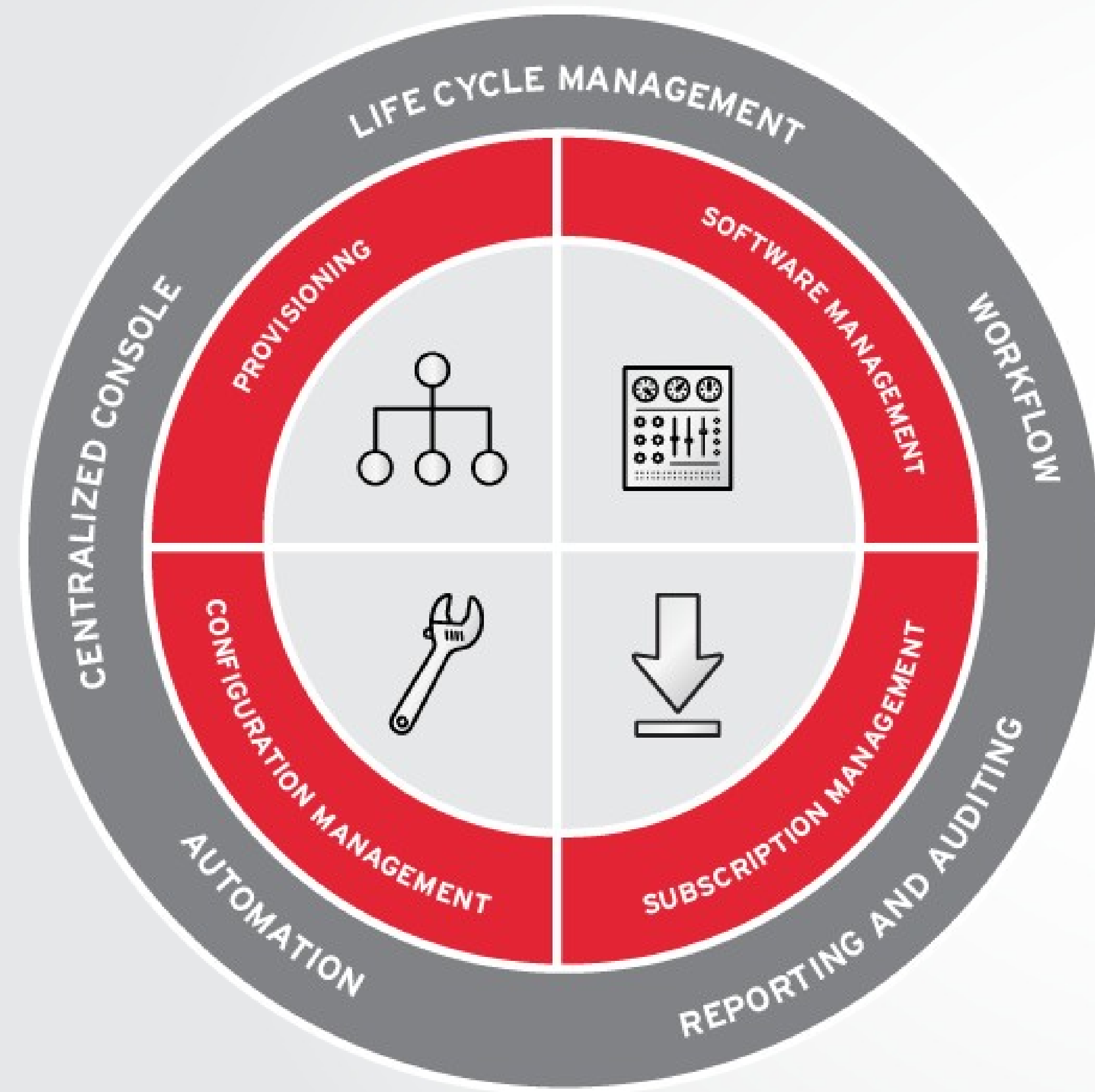
- Intuitive web-based GUI, making it easy to work with groups of systems
- Extremely rich CLI & API for integration and automation

## **Consistent**

- Use views to maintain a master software definition for systems
- Centralized configuration management reduces errors and inconsistencies

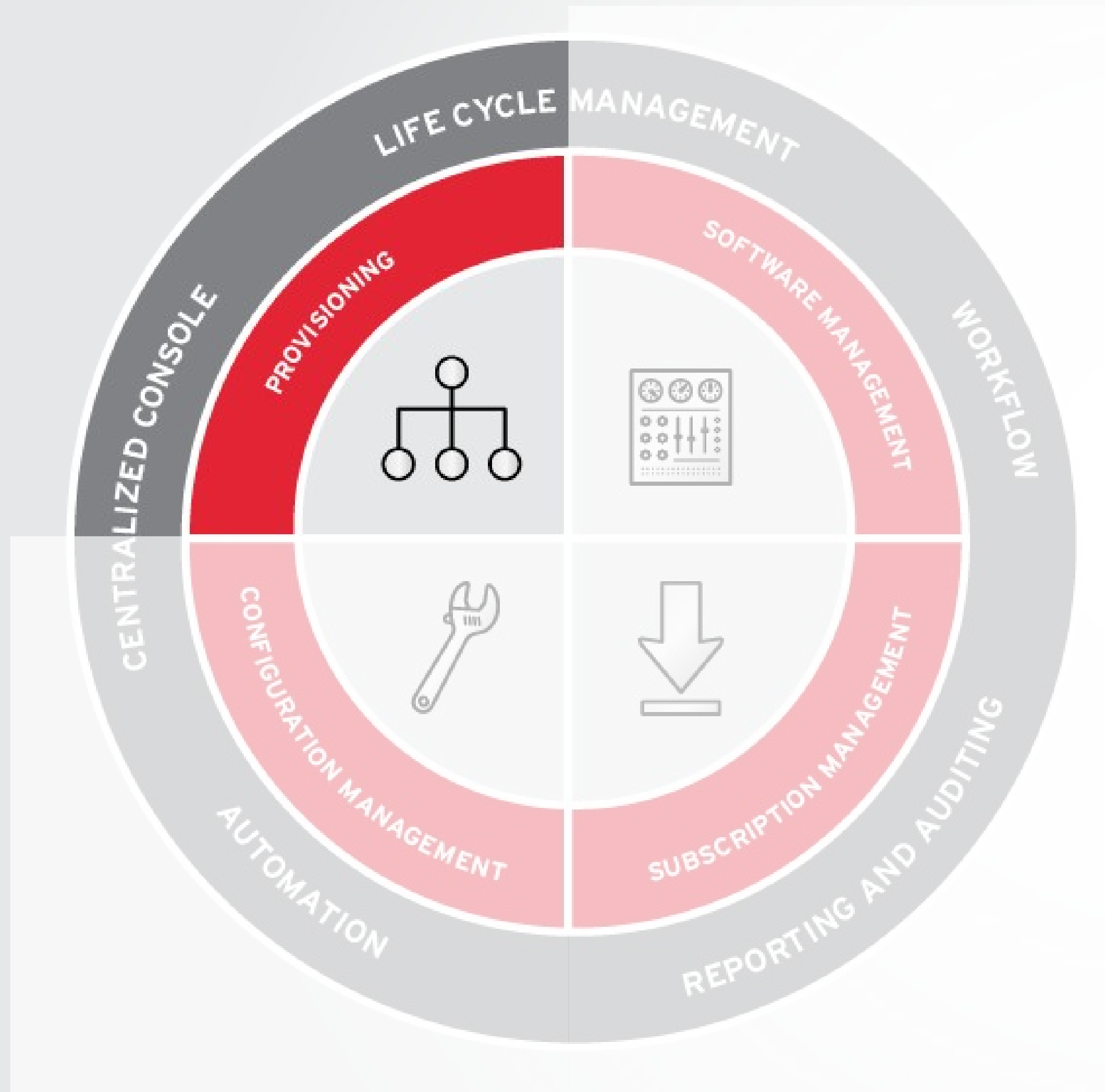


# Satellite 6 Overview



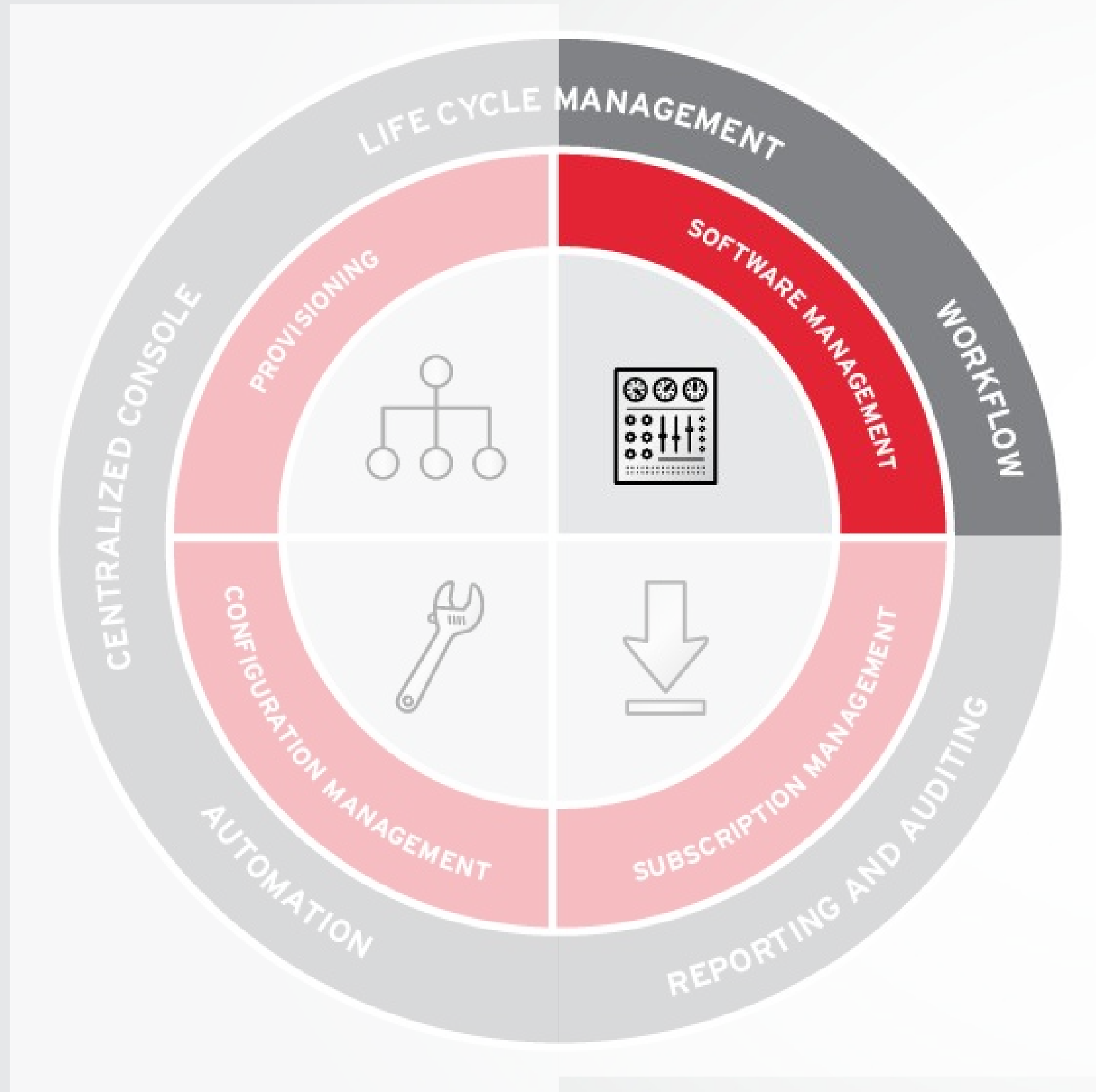
- Provision to bare metal, private, and public clouds(6)
- Declarative configuration management with Puppet (6)
- Automated software distribution
- Life cycle management
- Drift remediation (6)
- Simplified content management

# Provisioning



- Provision to bare metal, virtual private, and public clouds
- Compute resources : libvirt, RHEV, EC2, Vmware, Openstack, Rackspace, Google and Docker
- Provision Docker containers (6.1)
- Federate content delivery
- Discover non-provisioned hosts (6)
- Rules engine for automatic provisioning (6.1)

# Software Management



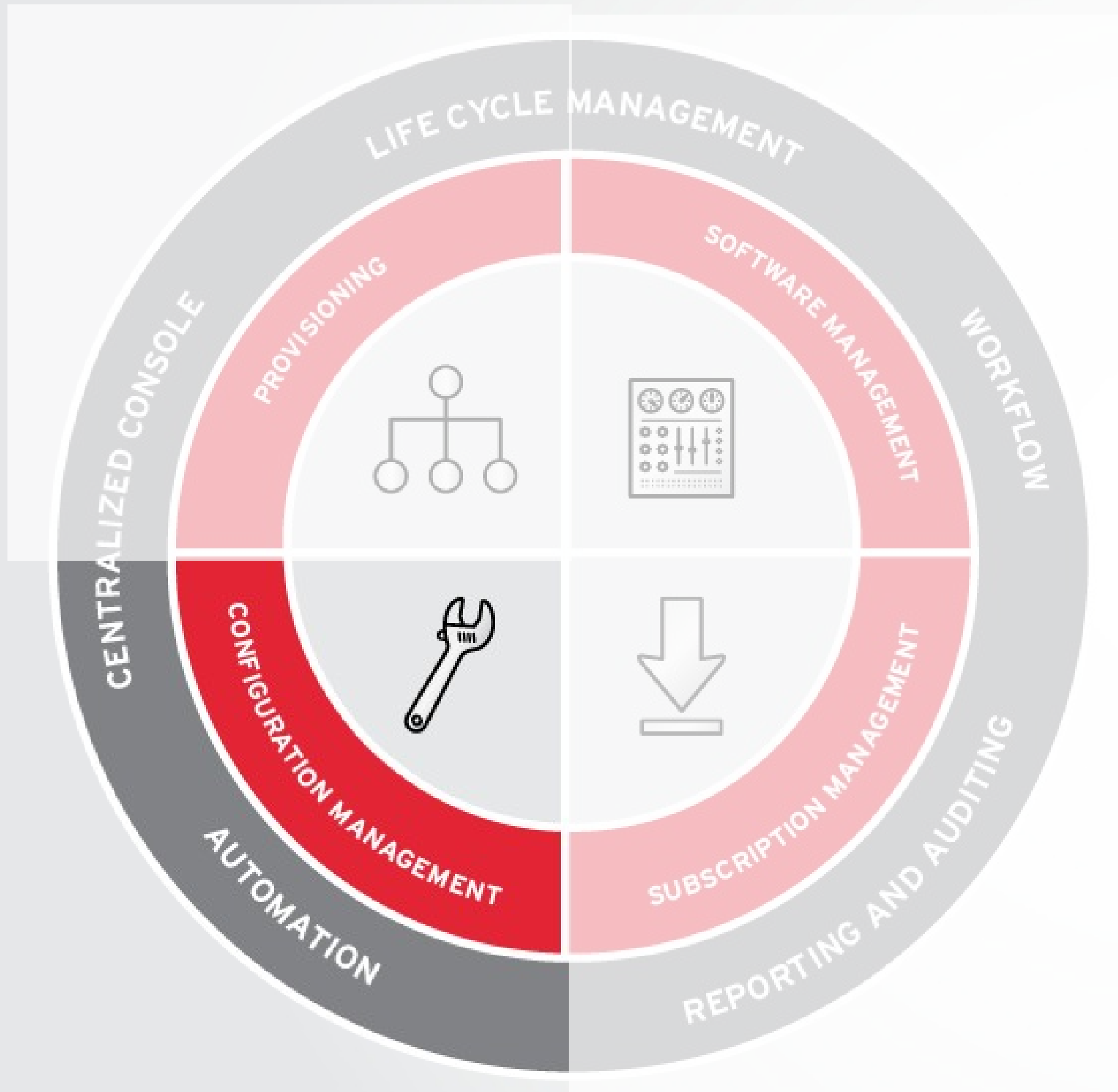
- Define & manage Standard Operating Environments
- Quickly respond to security vulnerabilities (Heartbleed/ShellShock)
- Deploy scalable and secure patching policies
- Centralized release management

# Subscription Management



- Centrally govern subscription usage (6)
- Accurate inventory and utilization information
- Helps “buy-up, re-up, true-up”
- Reporting

# Configuration Management



- Puppet based
- Define desired state of systems
- Enforce compliance to configuration standards
- Audit & report when changes are made

# WHAT IS RED HAT SATELLITE 6?

- New modern design, cutting-edge open source software
- Designed for software life cycle (SLC) management
- Bare metal, virtual machine (VM), docker containers and cloud deployment



Configuration  
management



Provisioning



Repository  
management



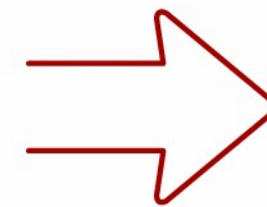
Content/life cycle  
management



Subscription  
management

# RED HAT SATELLITE 5 & 6 CORE CAPABILITIES

## RED HAT SATELLITE 5



## RED HAT SATELLITE 6



- Provision systems
- Configuration management
- Automated software distribution
- Life cycle management\*
- Drift reporting
- Can manage > 1000 servers

\* Satellite 5 provided Life cycle Management via channel-cloning.

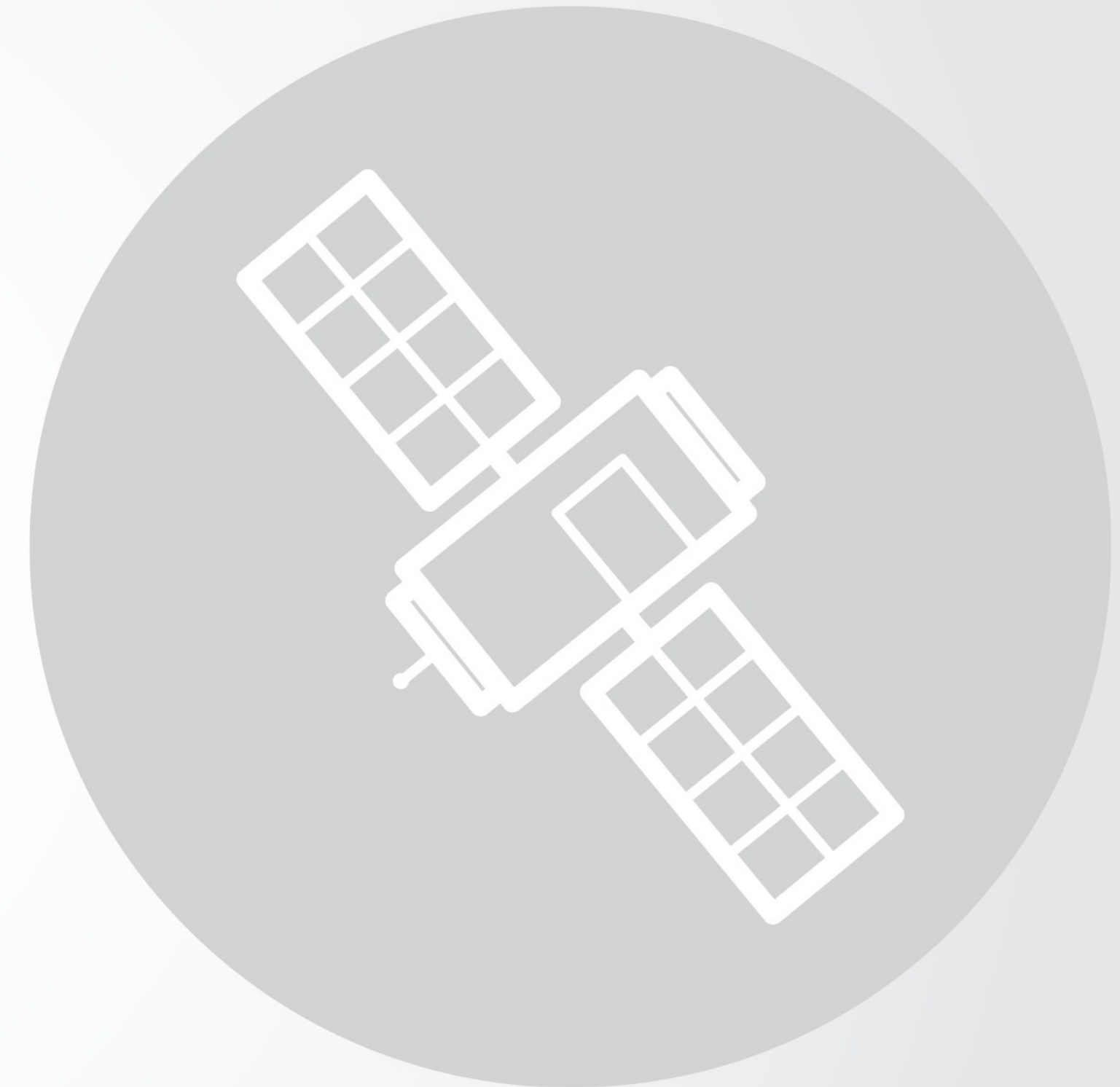
- Provision to bare metal, private, and public clouds
- Declarative configuration management
- Automated software distribution
- Life cycle management
- Drift remediation
- Simplified content management
- Federated services and management
- Localization
- Can manage > 10 000 servers
- Clients requirements 5.7 + 6.1+ 7.0+



# WHAT ELSE COMES IN THE BOX?

## Red Hat Satellite 6 Server

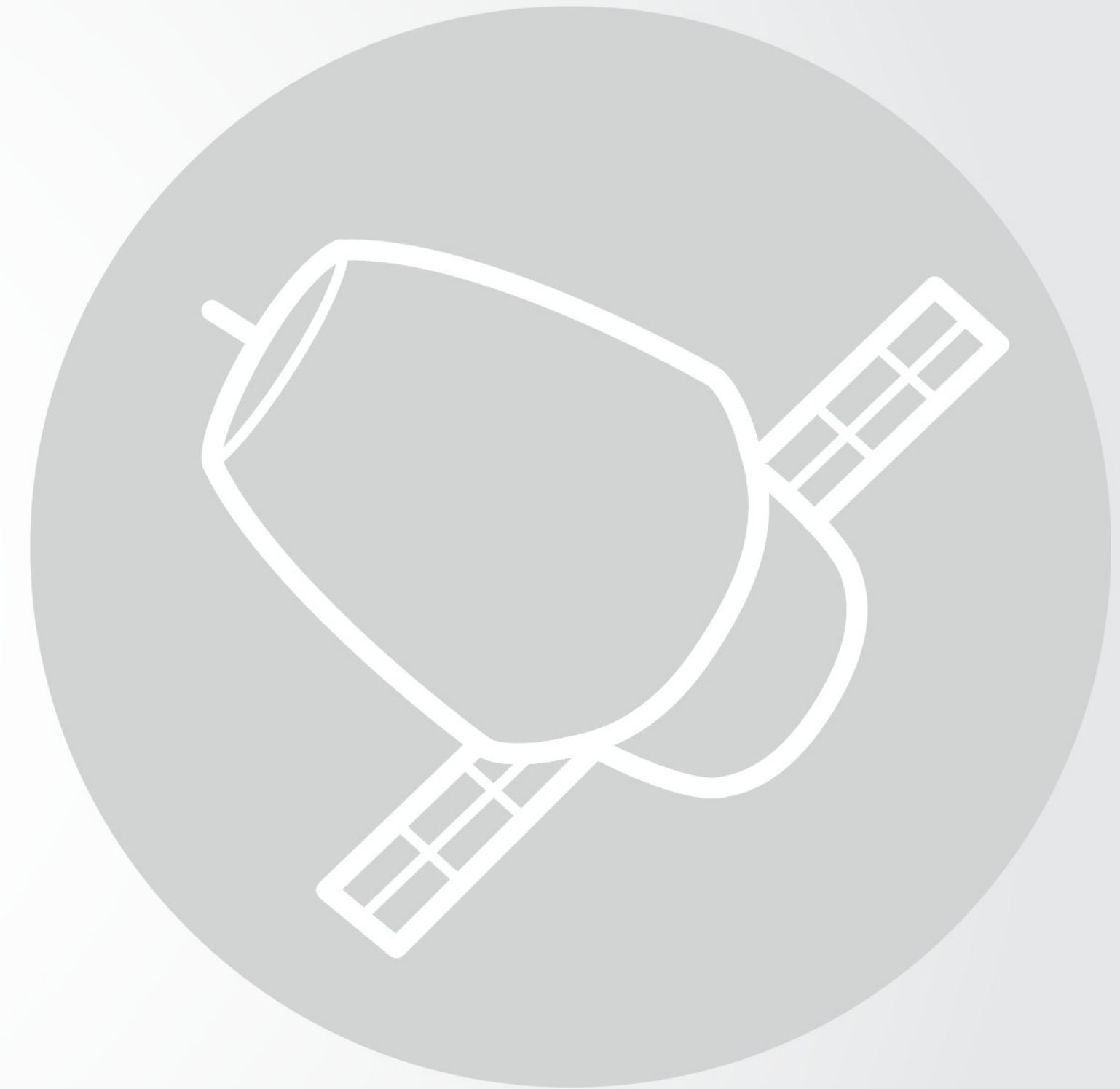
- Multi-tenant
- User and group role-based access control (RBAC) with external directories.  
Integration with IDM  
R/O user
- Powerful graphical user interface (GUI), command-line interface (CLI), and application programming interfaces (API)
- DHCP / DNS
- iPXE
- Single click to refresh the manifest (certificate)
- Customer portal integration



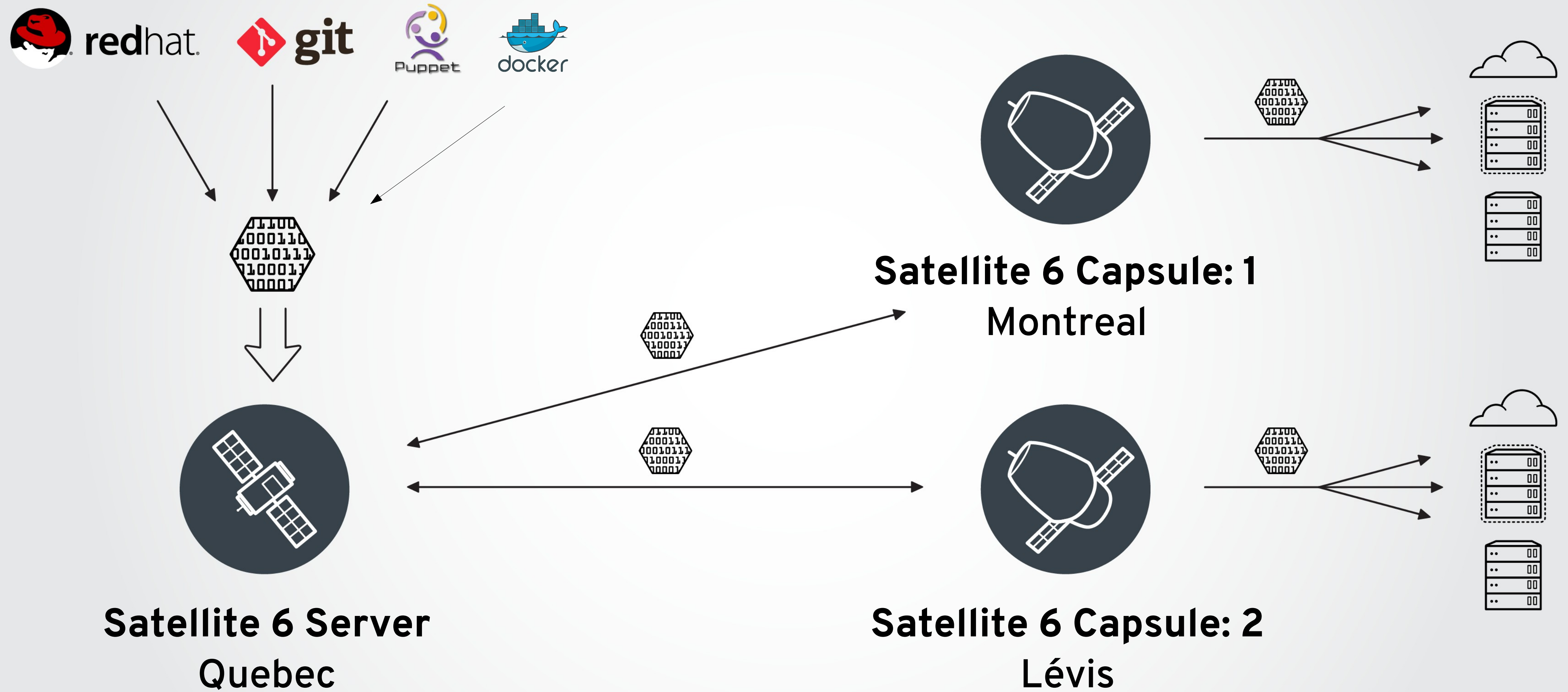
# WHAT ELSE COMES IN THE BOX?

## Red Hat Satellite 6 Capsule Server

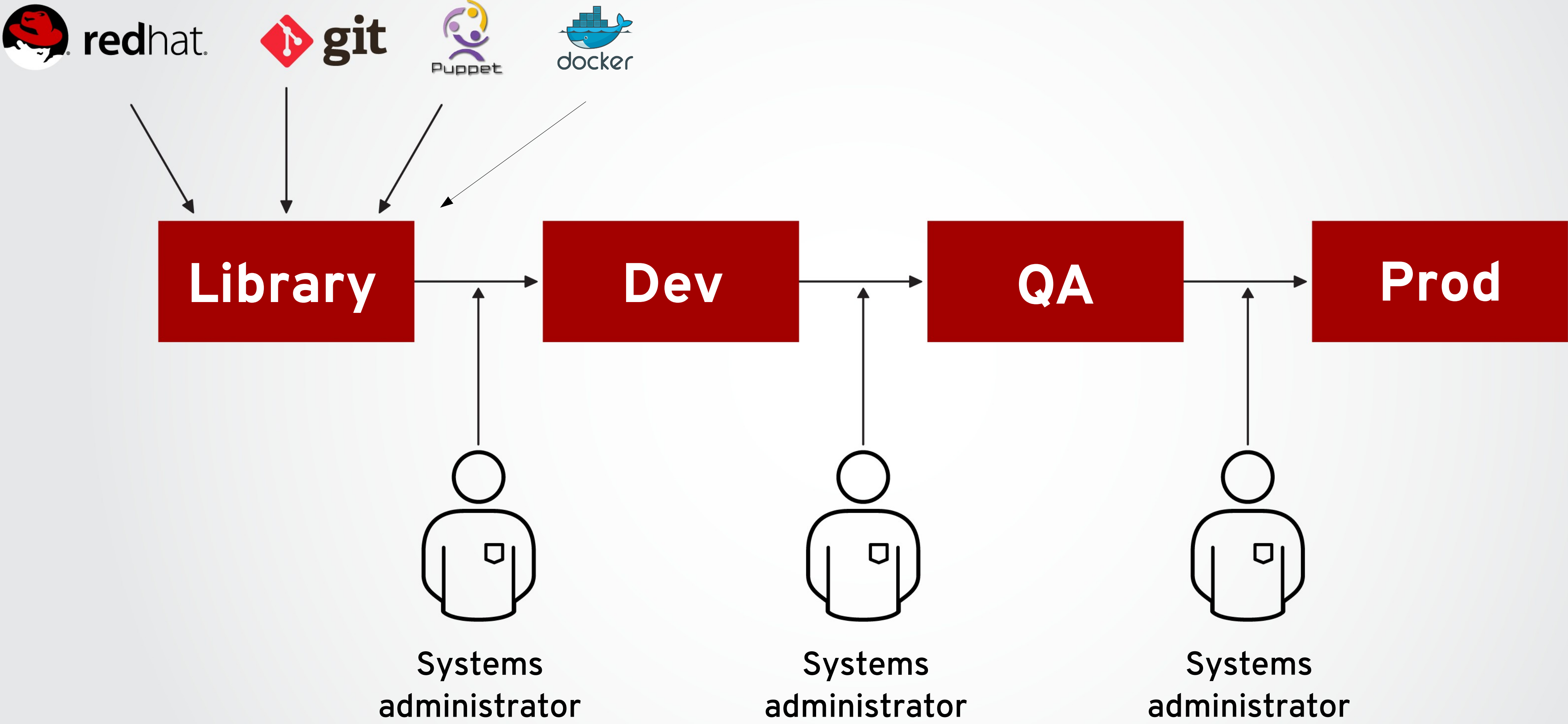
- Federated services
- Automated provisioning
- Everything but the user interface (UI)
- Evolution of Red Hat Satellite Proxy



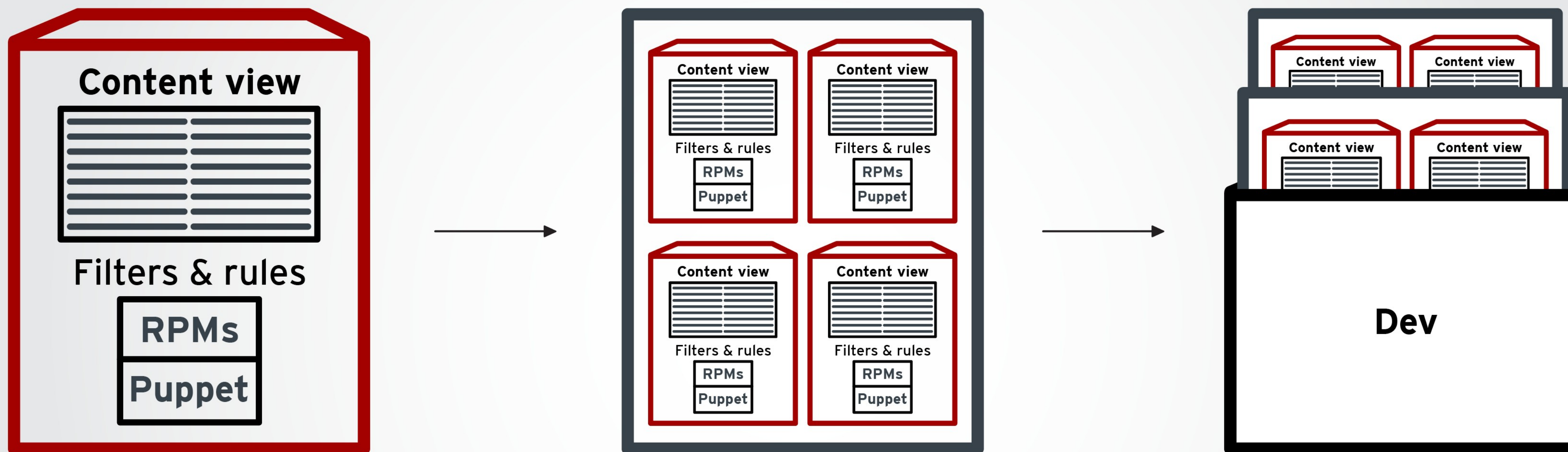
# RED HAT SATELLITE 6 HIGH-LEVEL TOPOLOGY



# LIFE CYCLE MANAGMENT



# GRANULAR CONTENT MANAGEMENT



## Content view

e.g. Red Hat Enterprise Linux 7  
e.g. Web server  
e.g. Red Hat JBoss Middleware  
e.g. RHEL 7 container

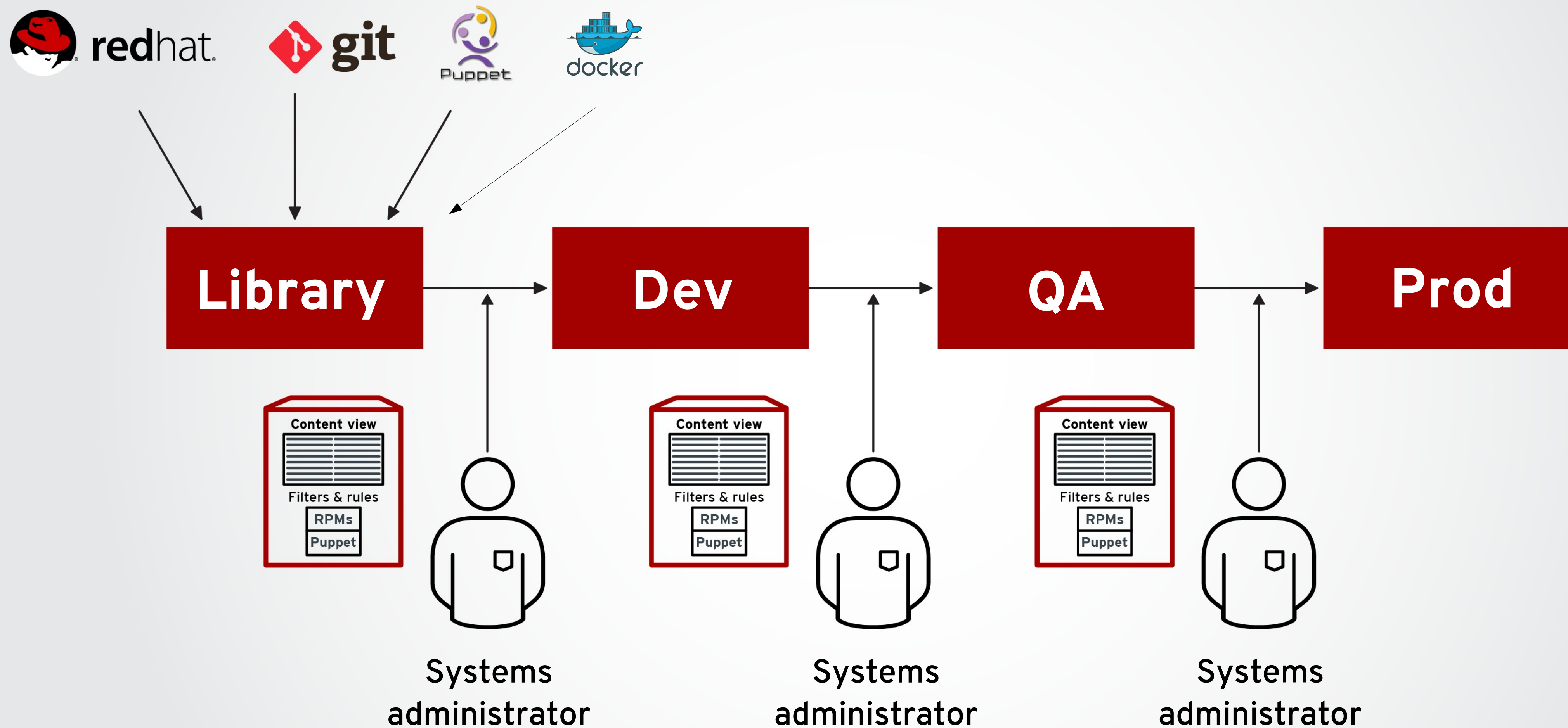
## Composite content view

e.g. SOE for web

## Environment

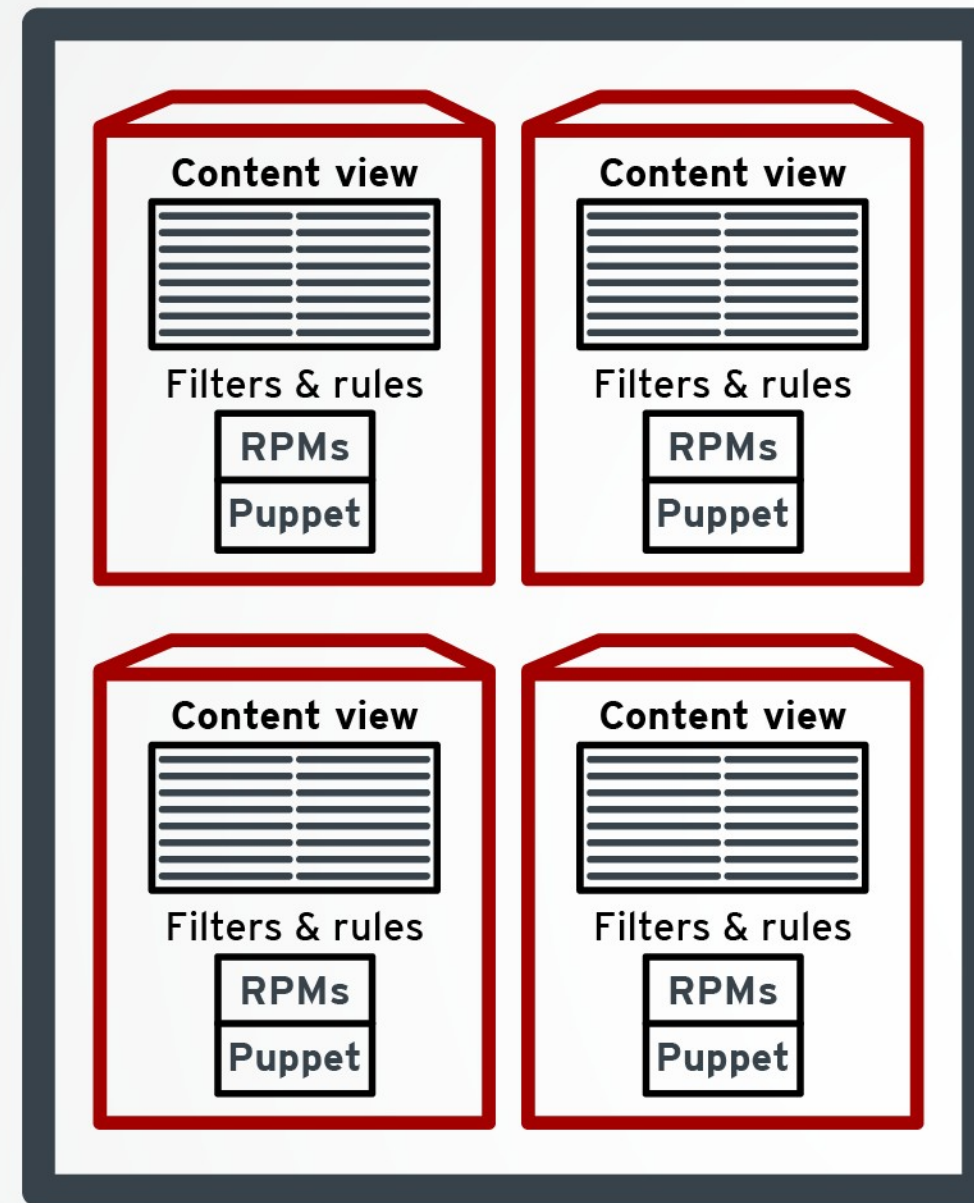
e.g. Production  
e.g. Development

# CONTENT LIFE CYCLE MANAGEMENT

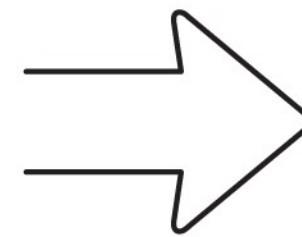


# PROVISIONING

How to build a system from start to finish



**Content**  
OS & packages  
Puppet modules



**PARTITION TABLE**

**KICKSTART FILE**

**SUBNET/DOMAIN**

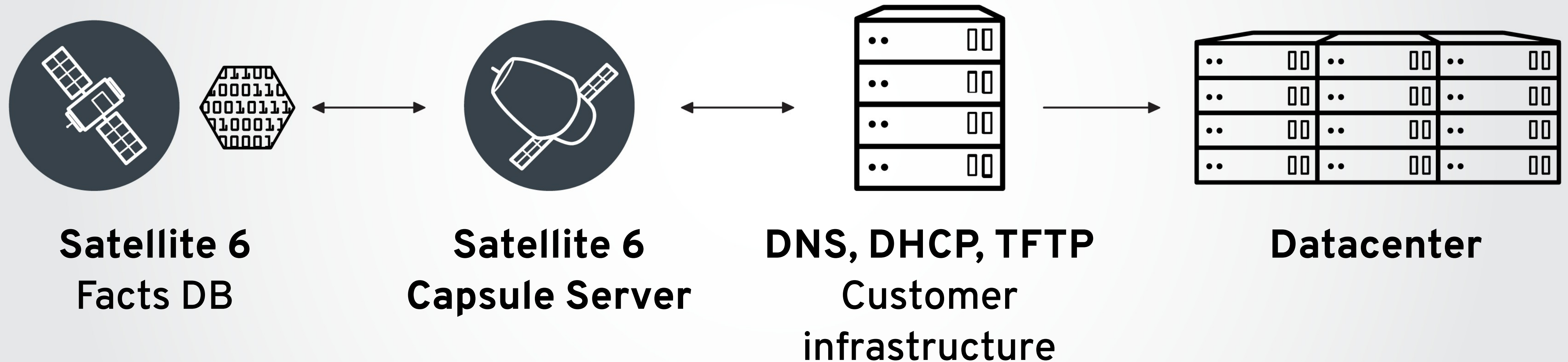
**ACTIVATION KEYS**

**PUPPET CLASSES**

**Host Group**

# DISCOVERY

- Auto-identification of non-provisioned hosts
- Foreman discovery plugin
- “Metal-as-a-Service”
- Automatic provisioning based on rules (6.1)



<https://access.redhat.com/blogs/1169563/posts/1420443>



# GUI, API, CLI

- Modern architecture
- API-first
- Enables advanced integration
- hammer

```
$hammer -u admin -p ***** product list --organization-id 'Red_Hat_SALAB' --enabled
```

| PRODUCT ID | NAME   | PROVIDER | ORGANIZATION  | REPOSITORIES |
|------------|--|----------|---------------|--------------|
| 2          | Red Hat Enterprise Linux Server  | Red Hat  | Red_Hat_SALAB | 0            |
| 12         | Red Hat Enterprise Linux Scalable File System for RHEL Server - Extended Upda... | Red Hat  | Red_Hat_SALAB | 0            |
| 15         | Red Hat Software Collections Beta for RHEL Server                                | Red Hat  | Red_Hat_SALAB | 0            |
| 18         | Red Hat Satellite 6 MDP  | Red Hat  | Red_Hat_SALAB | 0            |
| 6          | Red Hat Software Collections for RHEL Server                                     | Red Hat  | Red_Hat_SALAB | 0            |
| 9          | Red Hat Beta   | Red Hat  | Red_Hat_SALAB | 0            |
| 10         | Red Hat Enterprise Linux Server - Extended Update Support                        | Red Hat  | Red_Hat_SALAB | 0            |
| 1          | Red Hat Satellite Tools 6 MDP  | Red Hat  | Red_Hat_SALAB | 0            |
| 4          | Red Hat Enterprise Linux 7 Public Beta   | Red Hat  | Red_Hat_SALAB | 0            |

# DEMO

# Configure a client

```
# rpm -ivh http://satellite61beta.mlc.dom/pub/katello-ca-consumer-latest.noarch.rpm
# subscription-manager register --org=mlc --environment=Library
# service rhsmcertd restart
# subscription-manager list --available
# subscription-manager attach --pool 40288af84958977d01495ce88b130369
# subscription-manager refresh
# subscription-manager repos
# subscription-manager repos --enable rhel-7-server-rh-common-rpms
# yum clean all
# yum install katello-agent
# katello-package-upload
# yum list-sec (list all errata)
```

# Setup Puppet client

```
# rpm -ivh http://satellite61beta.mlc.dom/pub/katello-ca-consumer-latest.noarch.rpm UX
```

```
# yum install puppet
```

```
# echo "server=satellite6.mlc.dom" >> /etc/puppet/puppet.conf
```

```
# puppet agent --test --onetime
```

on the server, sign the certificate (Infrastructure - Capsules - Certificates (button))



```
# puppet agent --test --noop --onetime
```








## PERSISTANT

```
# systemctl start puppet
```



```
# systemctl enable puppet
```




# Errata Dashboard



RED HAT SATELLITE Red Hat Access  Admin User 








mlc       Administer 

## Content Hosts



Search...  Showing 1 of 1 (1 Total) 0 Selected  Bulk Actions [Register Content Host](#)

| <input type="checkbox"/> | Name                              | Subscription Status                  | Installable Errata   | OS                                  | Environment | Content View              | Registered By | Registered       | Last Checkin   |
|--------------------------|-----------------------------------|--------------------------------------|--|-------------------------------------|-------------|---------------------------|---------------|------------------|----------------|
| <input type="checkbox"/> | <a href="#">rhel71vm1.mlc.dom</a> | <span style="color: green;">●</span> | 5  1 <br>4  | Red Hat Enterprise Linux Server 7.1 | Library     | Default Organization View | Admin User    | 4/28/15 10:21 AM | 5/5/15 7:22 AM |

RED HAT SATELLITE Red Hat Access  Admin User 

mlc       Administer 

## Content Hosts

Search...  Showing 1 of 1 (1 Total) 0 Selected  Bulk Actions [Register Content Host](#)

Name

- [rhel71vm1.mlc.dom](#)


### Content Host rhel71vm1.mlc.dom








[Unregister Content Host](#) [Close](#)

Details [Provisioning Details](#) [Subscriptions](#) [Host Collections](#) [Tasks](#) [Packages](#) **Errata** [Product Content](#)

#### Installable Errata

Show from:

Search...  Showing 10 of 10 (10 Total) 0 Selected [Apply Selected](#)

| <input type="checkbox"/> | Type  | Id                             | Title   | Issued  |
|--------------------------|---|--------------------------------|---|---------|
| <input type="checkbox"/> |  Product Enhancement Advisory  | <a href="#">RHEA-2015:0855</a> | tzdata enhancement update                     | 4/16/15 |
| <input type="checkbox"/> |  Security Advisory - Moderate  | <a href="#">RHSA-2015:0749</a> | Moderate: libxml2 security update             | 3/29/15 |
| <input type="checkbox"/> |  Product Enhancement Advisory  | <a href="#">RHEA-2015:0731</a> | dracut enhancement update                     | 3/25/15 |
| <input type="checkbox"/> |  Bug Fix Advisory              | <a href="#">RHBA-2015:0741</a> | binutils bug fix update                       | 3/25/15 |
| <input type="checkbox"/> |  Product Enhancement Advisory  | <a href="#">RHEA-2015:0732</a> | dnsmasq enhancement update                    | 3/25/15 |
| <input type="checkbox"/> |  Security Advisory - Important | <a href="#">RHSA-2015:0726</a> | Important: kernel security and bug fix update | 3/25/15 |
| <input type="checkbox"/> |  Security Advisory - Moderate  | <a href="#">RHSA-2015:0716</a> | Moderate: openssl security and bug fix        | 3/22/15 |

# Email notification

## SATELLITE HOST ADVISORY

### Hosts with Installable Errata

|               |             |                  |
|---------------|-------------|------------------|
| 8<br>SECURITY | 8<br>BUGFIX | 9<br>ENHANCEMENT |
|---------------|-------------|------------------|

### Default Organization

The following hosts have errata that apply to them:

| Host                                      | Security | Bugfix | Enhancement |
|---|----------|--------|-------------|
| <a href="#">devnode-0001.example.com</a>  | 0 (3)    | 0 (4)  | 1 (1)       |
| <a href="#">devnode-0002.example.com</a>  | 0 (3)    | 0 (4)  | 0 (1)       |
| <a href="#">devnode-0004.example.com</a>  | 5 (0)    | 2 (0)  | 5 (0)       |
| <a href="#">devnode-0003.example.com</a>  | 5 (0)    | 2 (0)  | 5 (0)       |
| <a href="#">prodnode-0001.example.com</a> | 5 (0)    | 2 (0)  | 5 (0)       |
| <a href="#">prodnode-0002.example.com</a> | 5 (0)    | 2 (0)  | 5 (0)       |
| <a href="#">prodnode-0003.example.com</a> | 5 (0)    | 2 (0)  | 5 (0)       |
| <a href="#">prodnode-0004.example.com</a> | 5 (0)    | 2 (0)  | 5 (0)       |
| <a href="#">prodnode-0005.example.com</a> | 5 (0)    | 2 (0)  | 5 (0)       |
| <a href="#">devnode-0008.example.com</a>  | 5 (0)    | 2 (0)  | 5 (0)       |

Note: The number in parentheses reflects all applicable errata from the Library environment that are unavailable to the host. You will need to promote this content to the relevant content view in order to make it available.

## SATELLITE SYNC SUMMARY

The synchronization of "Red Hat Enterprise Linux 6 Server RPMs x86\_64 6Server" has completed. Below is a summary of new errata.

### New Errata

|               |             |                  |
|---------------|-------------|------------------|
| 0<br>SECURITY | 3<br>BUGFIX | 0<br>ENHANCEMENT |
|---------------|-------------|------------------|



### Bugfix Errata








|           |   |          |   |
|-----------|---|----------|---|
| Errata ID | <a href="#">RHBA-2015:0927</a>  | Severity | - |
| Title     | libsoup bug fix update  |          |   |
| Summary   | Updated libsoup packages that fix one bug are now available for Red Hat Enterprise Linux 6. |          |   |

|           |  |          |   |
|-----------|--|----------|---|
| Errata ID | <a href="#">RHBA-2015:0950</a>   | Severity | - |
| Title     | lvm2 bug fix update  |          |   |
| Summary   | Updated lvm2 packages that fix one bug are now available for Red Hat Enterprise Linux 6. |          |   |

|           |   |          |   |
|-----------|---|----------|---|
| Errata ID | <a href="#">RHBA-2015:0948</a>  | Severity | - |
| Title     | ca-certificates bug fix and enhancement update  |          |   |
| Summary   | An updated ca-certificates package that fixes several bugs and adds various enhancements is now available for Red Hat Enterprise Linux 6. |          |   |

# Sync Status

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My Organization  Monitor  Content  Hosts  Configure  Infrastructure  Administer 

## Sync Status

[Collapse All](#) [Expand All](#) [Select None](#) [Select All](#)  Only show syncing.

| PRODUCT   | START TIME         | DURATION           | DETAILS                        | RESULT            |
|---|--------------------|--------------------|--------------------------------|-------------------|
| ▼ Red Hat Enterprise Linux Server (Orphaned)  |                    |                    |                                |                   |
| ▼ 6Server   |                    |                    |                                |                   |
| ▼ x86_64  |                    |                    |                                |                   |
| <input type="checkbox"/> Red Hat Enterprise Linux 6 Server - RH Common RPMs x86_64 6Server                      | about 14 hours ago | less than a minute | New packages: 45 (5.51 MB).    | Syncing Complete. |
| <input type="checkbox"/> Red Hat Enterprise Linux 6 Server Kickstart x86_64 6Server                             | about 14 hours ago | 27 minutes         | New packages: 3690 (3.27 GB).  | Syncing Complete. |
| <input type="checkbox"/> Red Hat Enterprise Linux 6 Server RPMs x86_64 6Server                                  | about 14 hours ago | about 2 hours      | New packages: 12687 (20.6 GB). | Syncing Complete. |
| ▼ Red Hat Software Collections for RHEL Server (Orphaned)   |                    |                    |                                |                   |
| ▼ 6Server   |                    |                    |                                |                   |
| ▼ x86_64  |                    |                    |                                |                   |
| <input type="checkbox"/> Red Hat Software Collections RPMs for Red Hat Enterprise Linux 6 Server x86_64 6Server | about 14 hours ago | 5 minutes          | New packages: 835 (375 MB).    | Syncing Complete. |

[Synchronize Now](#)

# Repo sync and Statistics collected

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Expand each Red Hat Product below to examine the different repository sets available. When enabling a repository set, the different repositories within are discovered and may be enabled individually.

Enable Red Hat Repositories

**RPMs** Source RPMs Debug RPMs Beta ISOs Other

**PRODUCT**

- ▶ Oracle Java for RHEL Server
- ▼ Red Hat Enterprise Linux Server
  - REPOSITORY SET**
    - ▶ RHN Tools for Red Hat Enterprise Linux 5 Server (RPMs)
    - ▶ RHN Tools for Red Hat Enterprise Linux 6 Server (RPMs)
    - ▶ RHN Tools for Red Hat Enterprise Linux 7 Server (RPMs)
    - ▶ Red Hat CloudForms Tools for RHEL 5 (RPMs)
    - ▶ Red Hat CloudForms Tools for RHEL 6 (RPMs)
    - ▶ Red Hat Enterprise Linux 4 AS (RPMs)
    - ▶ Red Hat Enterprise Linux 4 ES (RPMs)
    - ▶ Red Hat Enterprise Linux 5 Server (Kickstart)
    - ▶ Red Hat Enterprise Linux 5 Server (RPMs)
    - ▶ Red Hat Enterprise Linux 5 Server - Fastrack (RPMs)
    - ▶ Red Hat Enterprise Linux 5 Server - Optional Productivity Applications (RPMs)
    - ▶ Red Hat Enterprise Linux 5 Server - RH Common (RPMs)
    - ▶ Red Hat Enterprise Linux 5 Server - Supplementary (RPMs)
    - ▶ Red Hat Enterprise Linux 5 Server - Virtualization (RPMs)
    - ▶ Red Hat Enterprise Linux 6 Server (Kickstart)
    - ▼ Red Hat Enterprise Linux 6 Server (RPMs)
      - ENABLED?** **REPOSITORY**
      - Red Hat Enterprise Linux 6 Server RPMs x86\_64 6 Server

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### Statistics

|   |  |  |  |
|---|--|--|--|
| <b>OS Distribution</b><br>100%<br>RHEL Server 6.5 | <b>Architecture Distribution</b><br>100%<br>x86_64 | <b>Environments Distribution</b><br>100%<br>KT_My_Organiz... | <b>Number of CPUs</b><br>100%<br>2 cores       |
| <b>Hardware</b><br>100%<br>VMware, Inc.           | <b>Class Distribution</b>                          | <b>Average memory usage</b><br>86%<br>free memory            | <b>Average swap usage</b><br>100%<br>free swap |



# Dashboards

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Any Context Monitor Content Hosts Configure Infrastructure Administer

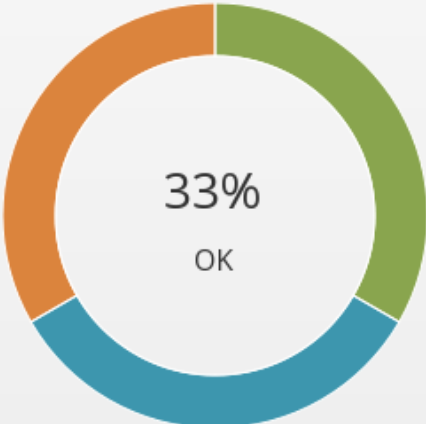
## Overview

Filter ... Search Generated at 09 Oct 08:28

### Host Configuration Status

|  |   |
|--|---|
| Hosts that had performed modifications without error | 0 |
| Hosts in error state                                 | 0 |
| Good host reports in the last 35 minutes             | 1 |
| Hosts that had pending changes                       | 0 |
| Out of sync hosts                                    | 1 |
| Hosts with no reports                                | 1 |
| Hosts with alerts disabled                           | 0 |

Total Hosts: 3



33% OK


### Host Pool

Unassigned hosts: 0

### Latest Events

| Host           | A | R | F | FR | S | P |
|----------------|---|---|---|----|---|---|
| cli-c639.rh... | 2 | 0 | 0 | 0  | 0 | 0 |
| cli-c639.rh... | 0 | 0 | 0 | 0  | 0 | 2 |
| cli-c639.rh... | 1 | 0 | 0 | 0  | 0 | 0 |
| cli-c639.rh... | 0 | 0 | 0 | 0  | 0 | 1 |
| cli-c639.rh... | 1 | 0 | 0 | 0  | 0 | 0 |

### Run distribution in the last 30 minutes



RED HAT SATELLITE Red Hat Access Admin User

Any Context Monitor Content Hosts Configure Infrastructure Administer

## cli-c639.rhps.opentlc.com

Reports from the last 1 days - 6 reports found Boot disk Edit Build Run puppet Delete

### Details

Audits Facts Reports **YAML**

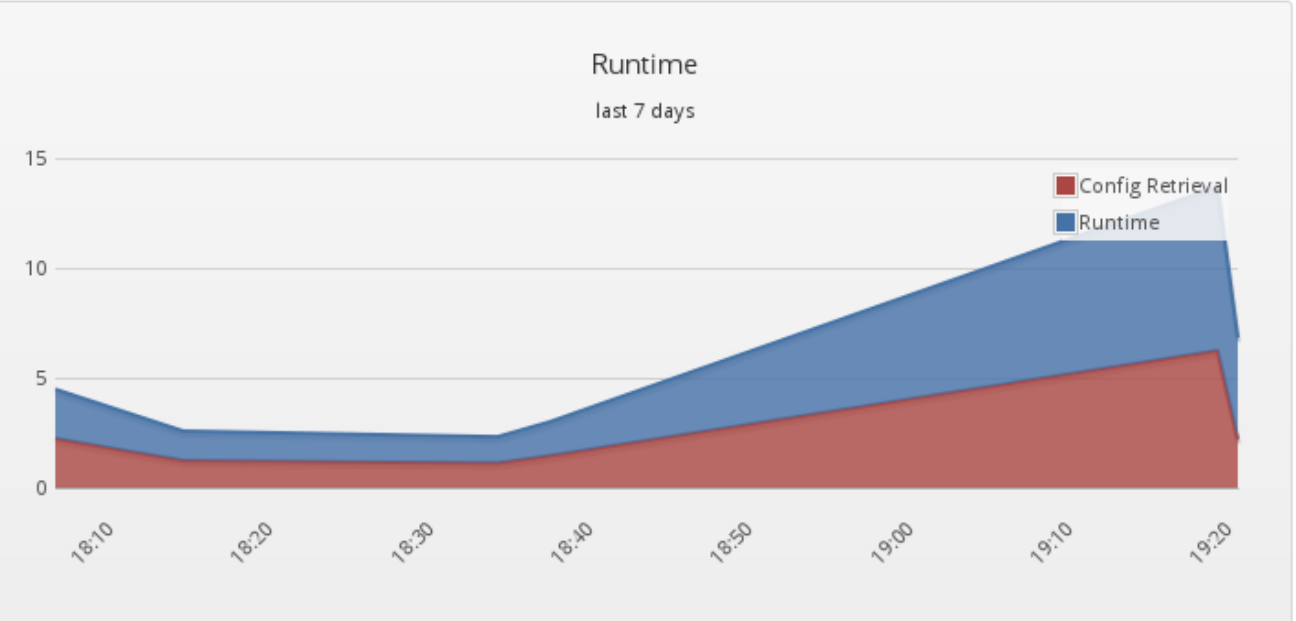
### Properties

Metrics Templates

|                     |  |
|---------------------|--|
| Subscription status | Not available                              |
| Domain              | rhps.opentlc.com                           |
| Realm               |  |
| IP Address          | 192.168.0.100                              |
| MAC Address         | 2c:c2:60:41:ed:68                          |
| Puppet Environment  | KT_My_Organization_Development_RHEL6_SOE_3 |
| Host Architecture   | x86_64                                     |
| Operating System    | RHEL Server 6.5                            |
| Host group          | RHEL6 SOE GROUP                            |
| Location            | My Location                                |
| Organization        | My Organization                            |
| Owner               | Admin User                                 |

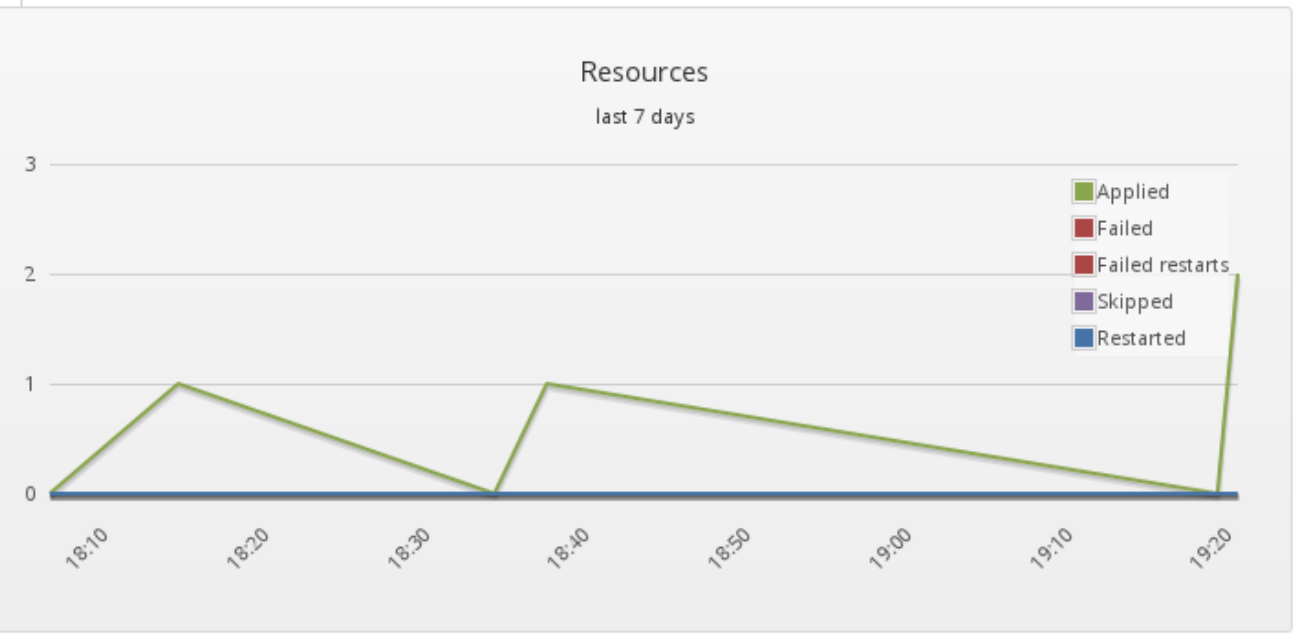
### Runtime

last 7 days



### Resources

last 7 days



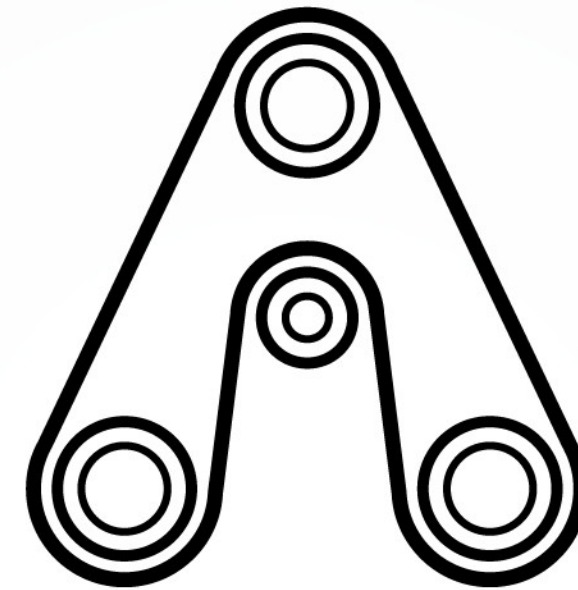
# Audits

| My Organization@My Location   |  | Monitor | Content | Hosts | Configure | Infrastructure | Administer |
|---|--|---------|---------|-------|-----------|----------------|------------|
| Host  |  |         |         |       |           |                | 1 day ago  |
| API Admin (192.168.0.254) updated Host: myclient.rhpds.opentlc.com    |  |         |         |       |           |                |            |
| Host  |  |         |         |       |           |                | 1 day ago  |
| API Admin (192.168.100.101) updated Host: myclient.rhpds.opentlc.com  |  |         |         |       |           |                |            |
| Hostgroup   |  |         |         |       |           |                | 1 day ago  |
| Admin (66.187.233.203) updated Hostgroup: RHEL6 SOE GROUP             |  |         |         |       |           |                |            |
| Hostgroup   |  |         |         |       |           |                | 1 day ago  |
| Admin (66.187.233.203) updated Hostgroup: RHEL6 SOE GROUP             |  |         |         |       |           |                |            |
| Host  |  |         |         |       |           |                | 1 day ago  |
| Admin (66.187.233.203) created Host: myclient.rhpds.opentlc.com       |  |         |         |       |           |                |            |
| Host  |  |         |         |       |           |                | 1 day ago  |
| Admin (66.187.233.203) destroyed Host: pxeclient.rhpds.opentlc.com    |  |         |         |       |           |                |            |
| Host  |  |         |         |       |           |                | 1 day ago  |
| API Admin (192.168.100.100) updated Host: pxeclient.rhpds.opentlc.com |  |         |         |       |           |                |            |
| Host  |  |         |         |       |           |                | 1 day ago  |
| Admin (66.187.233.203) updated Host: pxeclient.rhpds.opentlc.com      |  |         |         |       |           |                |            |
| Host  |  |         |         |       |           |                | 1 day ago  |
| Admin (66.187.233.203) updated Host: pxeclient.rhpds.opentlc.com      |  |         |         |       |           |                |            |

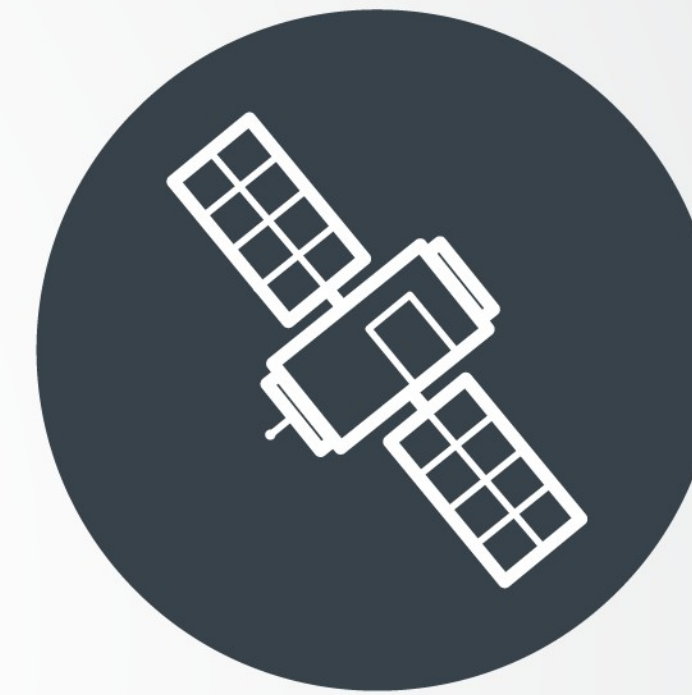
# TRANSITION



**Red Hat  
Satellite 5 Server**

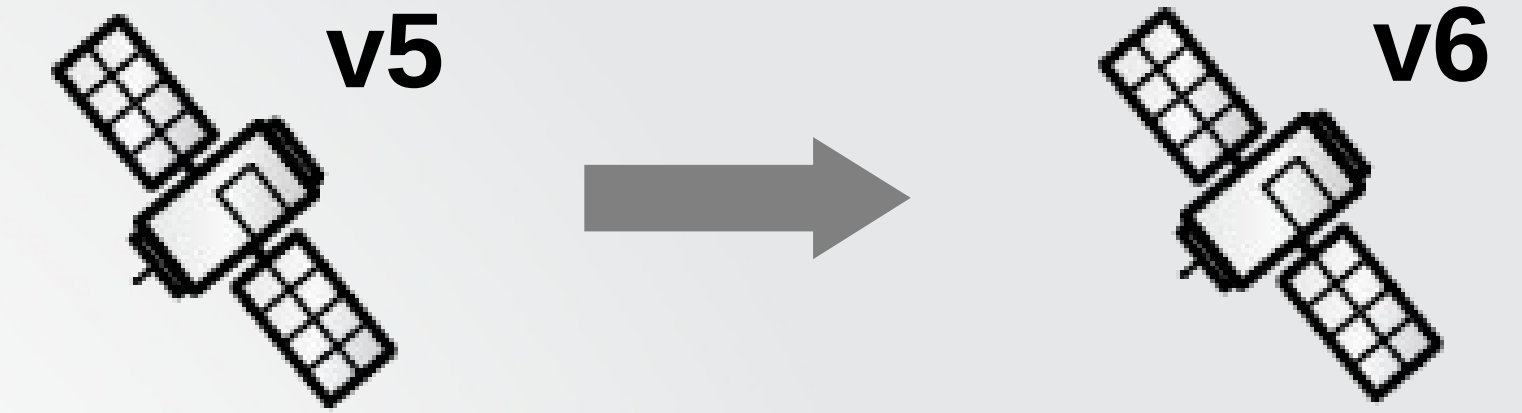


**Transition  
application**



**Red Hat  
Satellite 6 Server**

# Start with Sat 5



## What can we export?

- ```
spacewalk-export --list-entities
```

```
INFO: Currently-supported entities include:
```

```
INFO:          channels : Custom/cloned channels and repositories for all organizations
```

```
INFO:   activation-keys : Activation keys
```

```
INFO:  kickstart-scripts : Kickstart scripts for all organizations [CAVEATS]
```

```
INFO:          users : Users and Organizations
```

```
INFO:   system-groups : System-groups for all organizations
```

```
INFO: config-files-latest : Latest revision of all configuration files
```

```
INFO:   repositories : Defined repositories
```

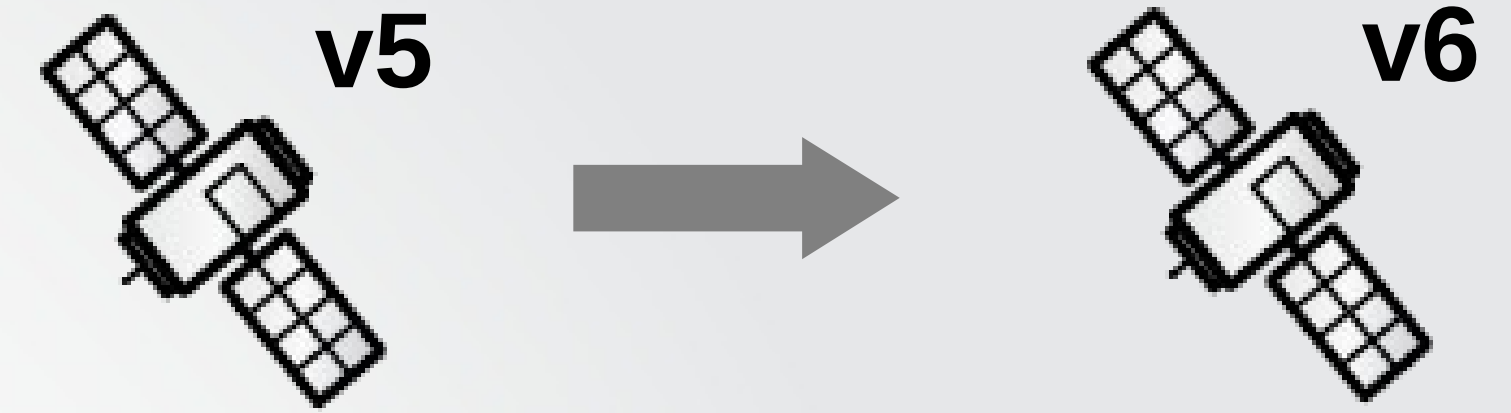
```
INFO:   system-profiles : System profiles for all organizations
```

- The Satellite transition tools do not migrate entire kickstart profiles. Due to significant differences between the Satellite 5 and Satellite 6 infrastructures, there is no suitable migration path between the two versions.
- The transition tools can migrate kickstart scripts, and these can be used in Satellite 6 Provisioning Templates, which are an approximation of kickstart profiles.

# Start with Sat 5

## What can't we export

- Activation-keys that use "Red Hat default"
- Anything history- or audit-related (events, oscap runs, and so on)
- Anything monitoring-related
- Configuration-channel ordering
- Distribution-channel mapping
- Kickstart data (other than snippets)
- Organization entitlement-distribution (users need to create their own manifests)
- Organization-trusts settings
- Snapshots
- Stored package-profiles
- Custom system information, such as key/value pairs, system notes, and system properties in general. The latter is completed when a system registers to Satellite 6 and connects to the created profile.
- User preferences



# ROADMAP

## **Remote execution**

**Schedule a rpm update at a specific time. (Possible today to do it through a puppet module)**

**Inter Satellite sync**

**Currency reports**

**External database support (included Oracle)**

**Snapshot and rollback (RFE)**

**Menu on pxe (RFE)**



**QUESTIONS?**