



RED HAT  
**FORUM**  
Europe, Middle East & Africa

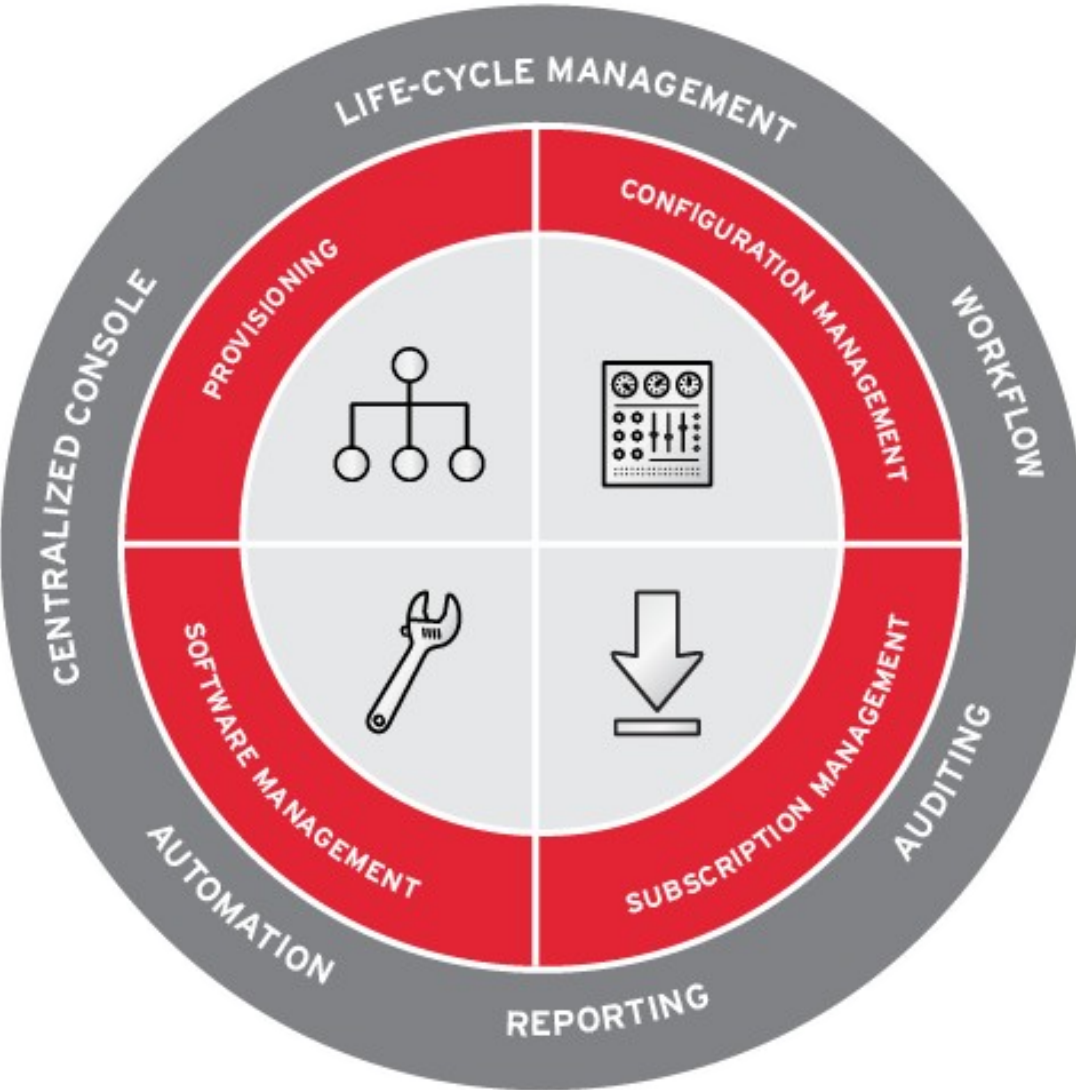


# SATELLITE 6

Peter Gustafsson  
Solutions Architect  
Red Hat

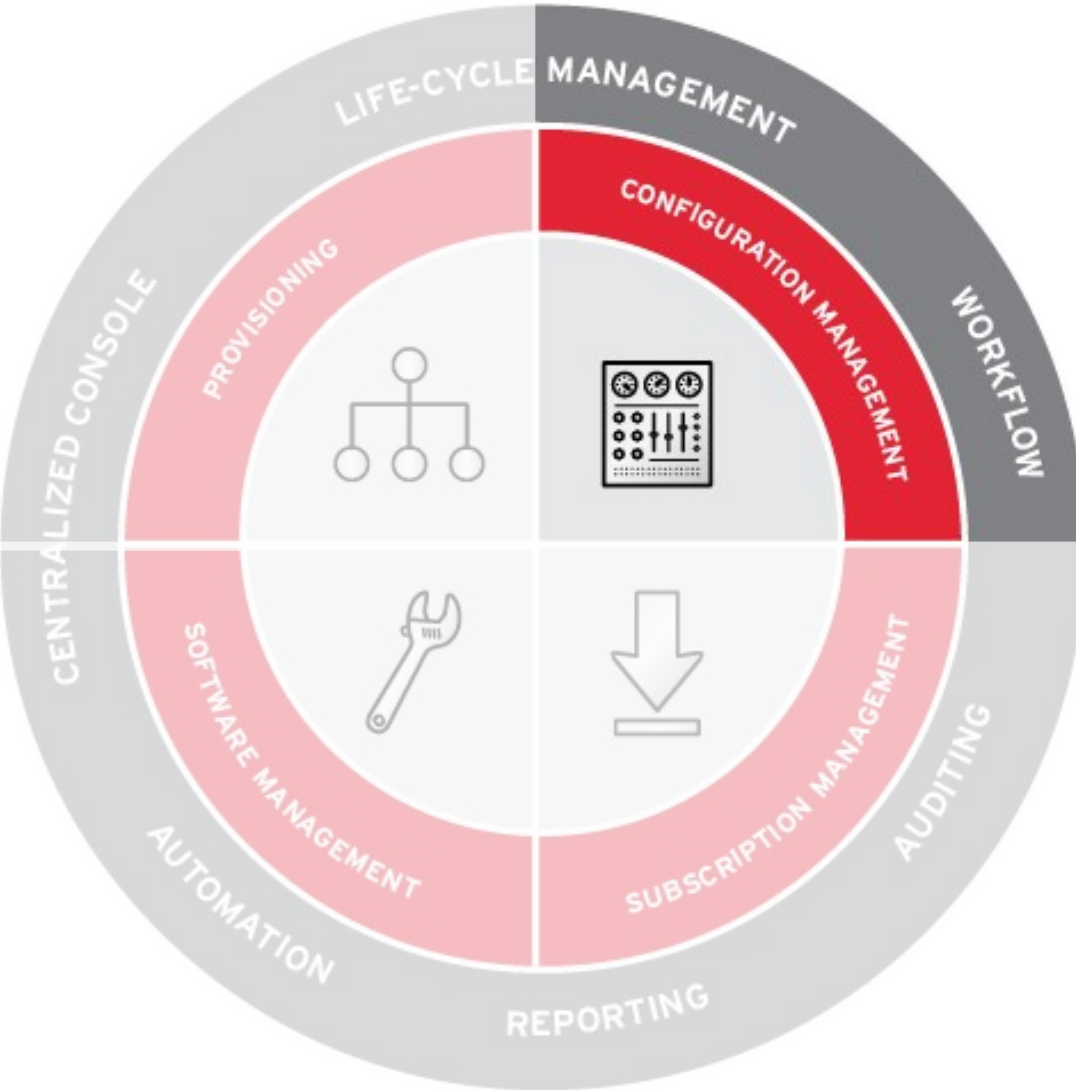
[peter@redhat.com](mailto:peter@redhat.com)

# WHAT IS SATELLITE 6 ?



SA0001

# CONFIGURATION MANAGEMENT

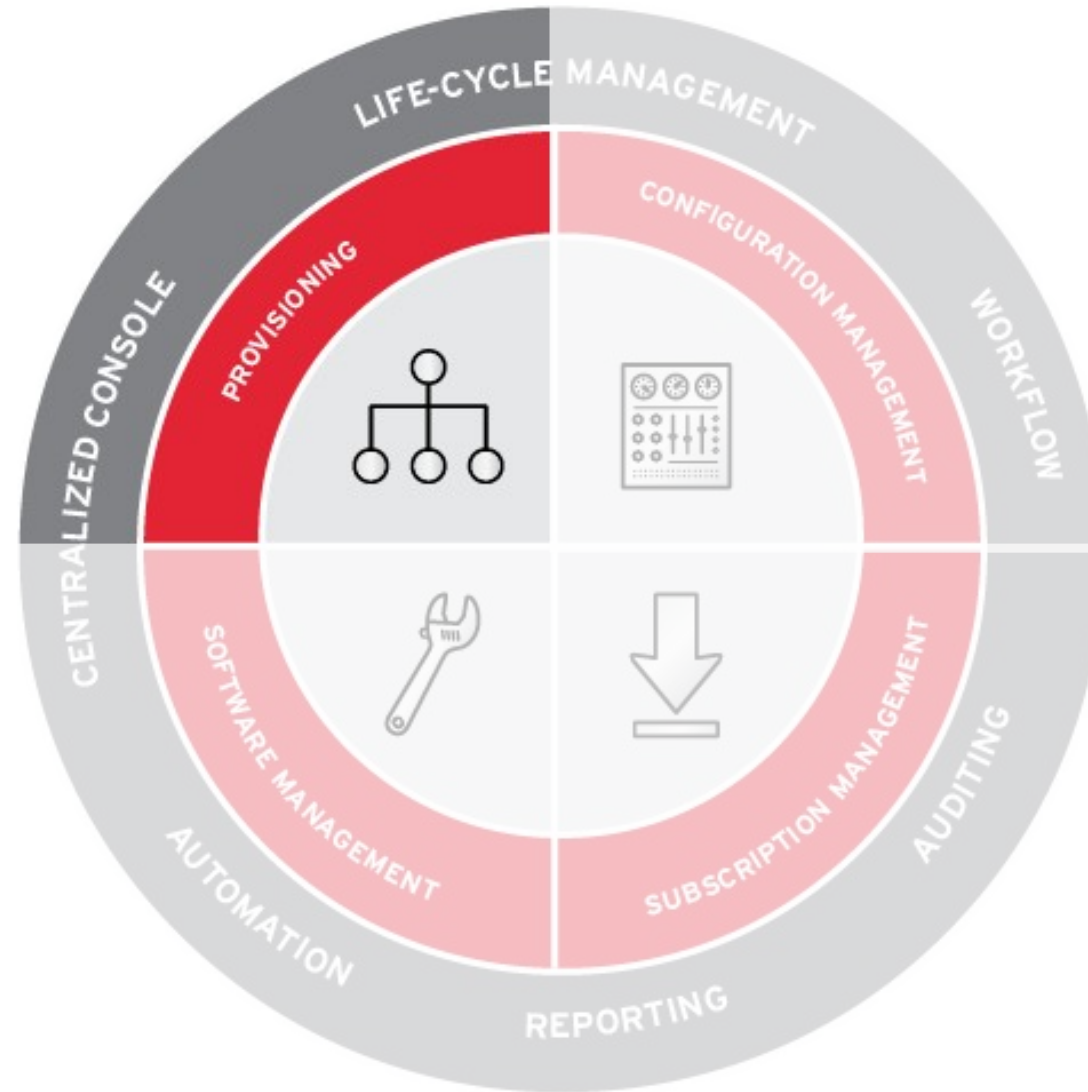


SA0001

# PROVISIONING

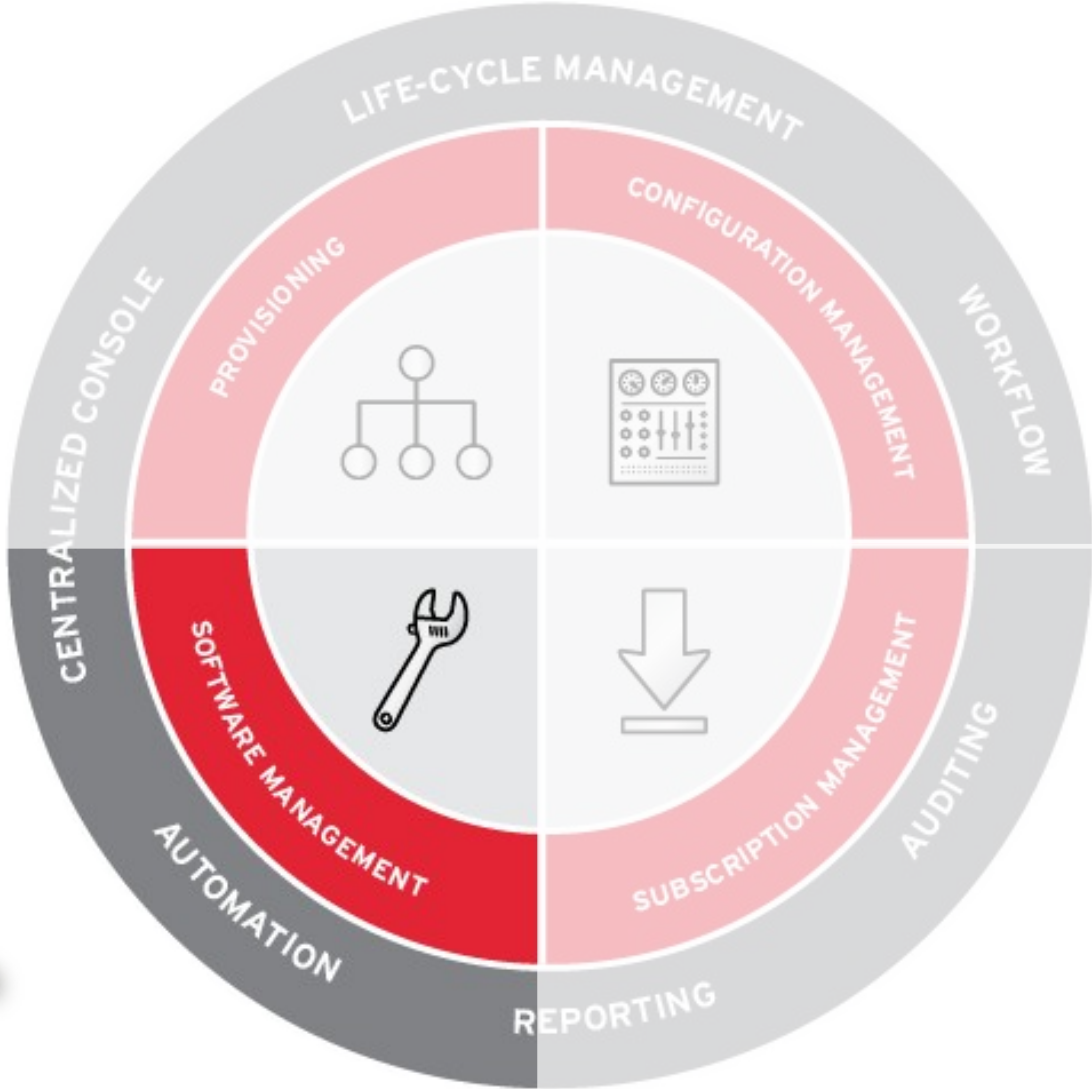


**FOREMAN**



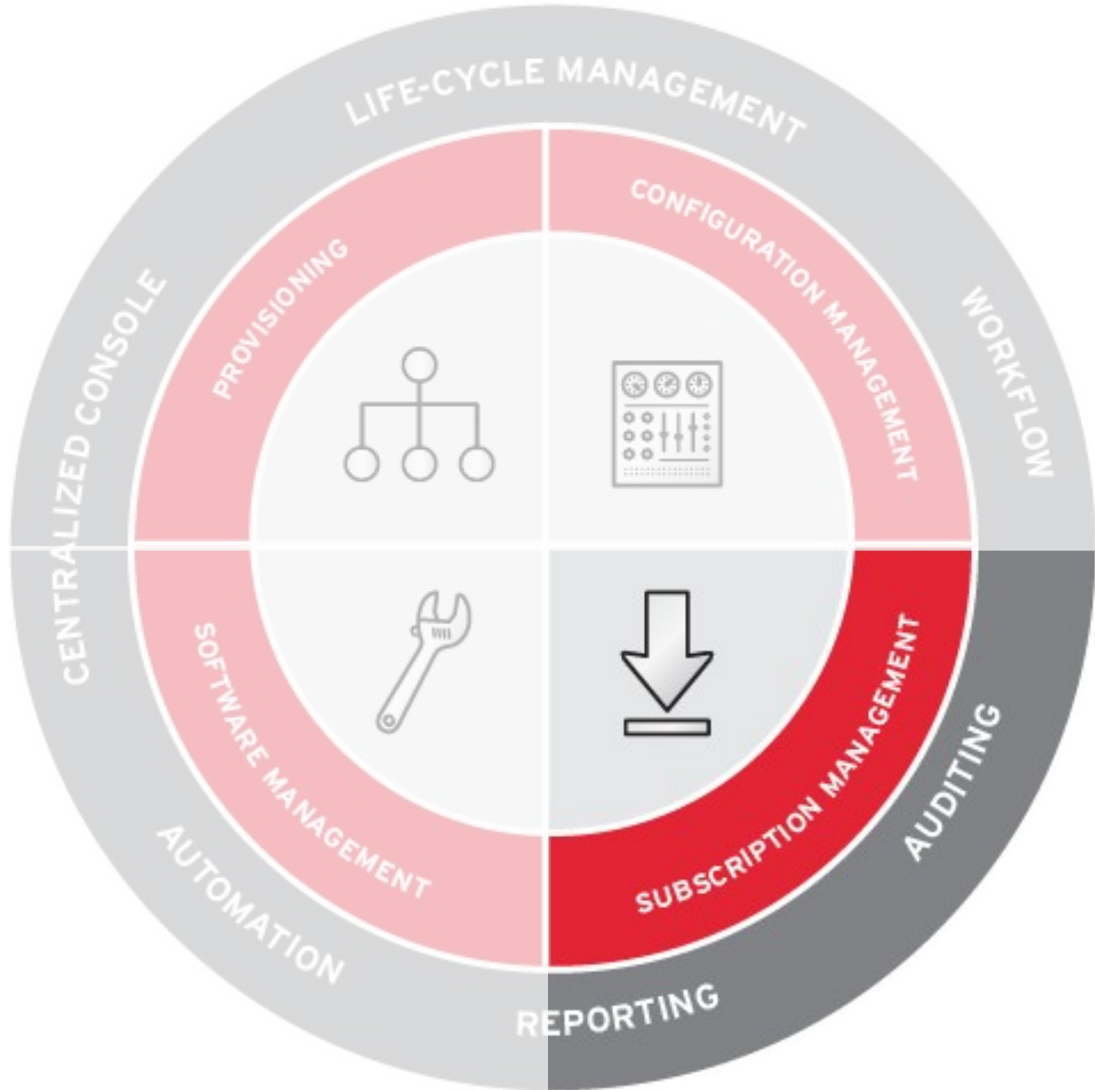
SA0001

# SOFTWARE MANAGEMENT



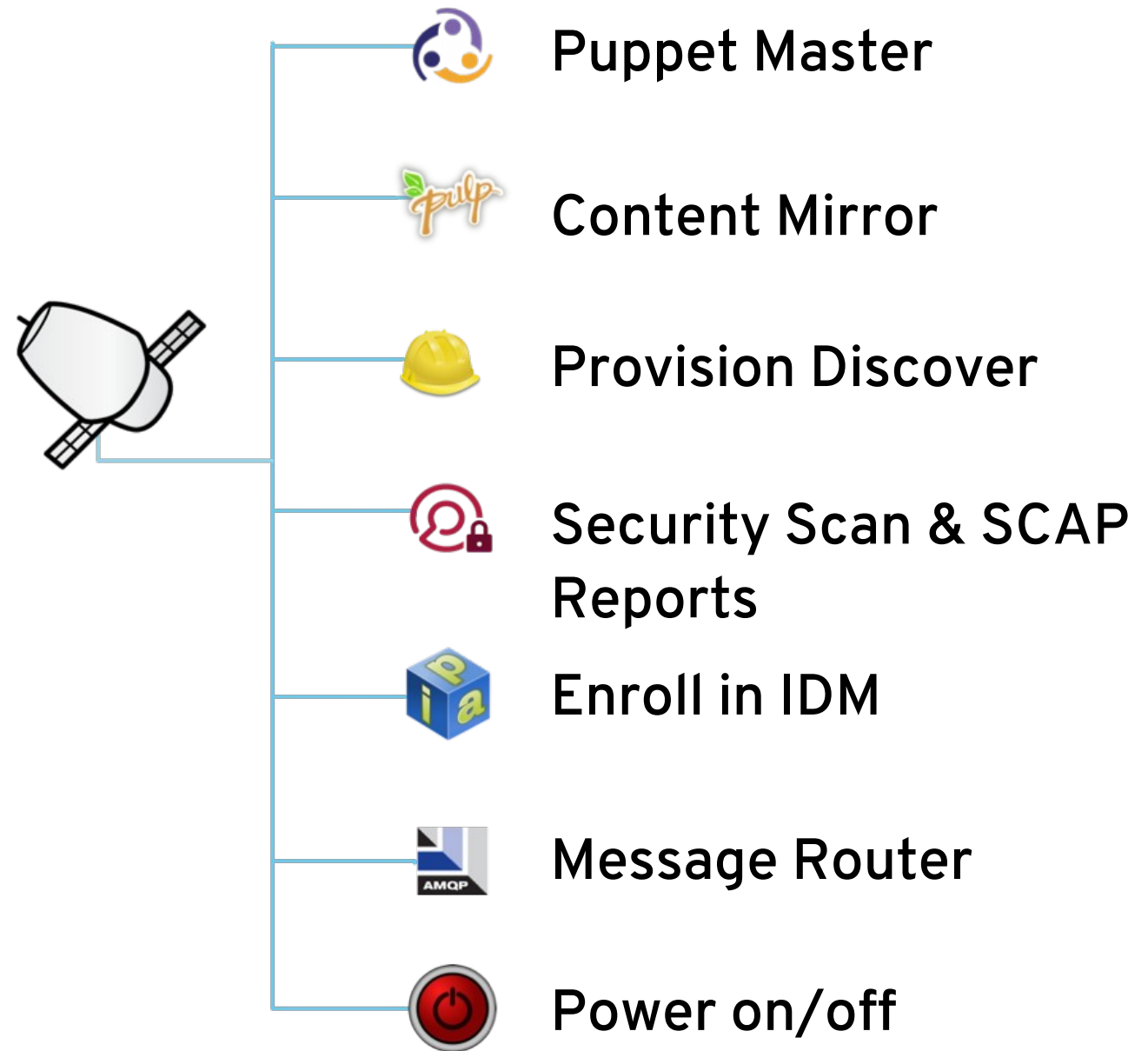
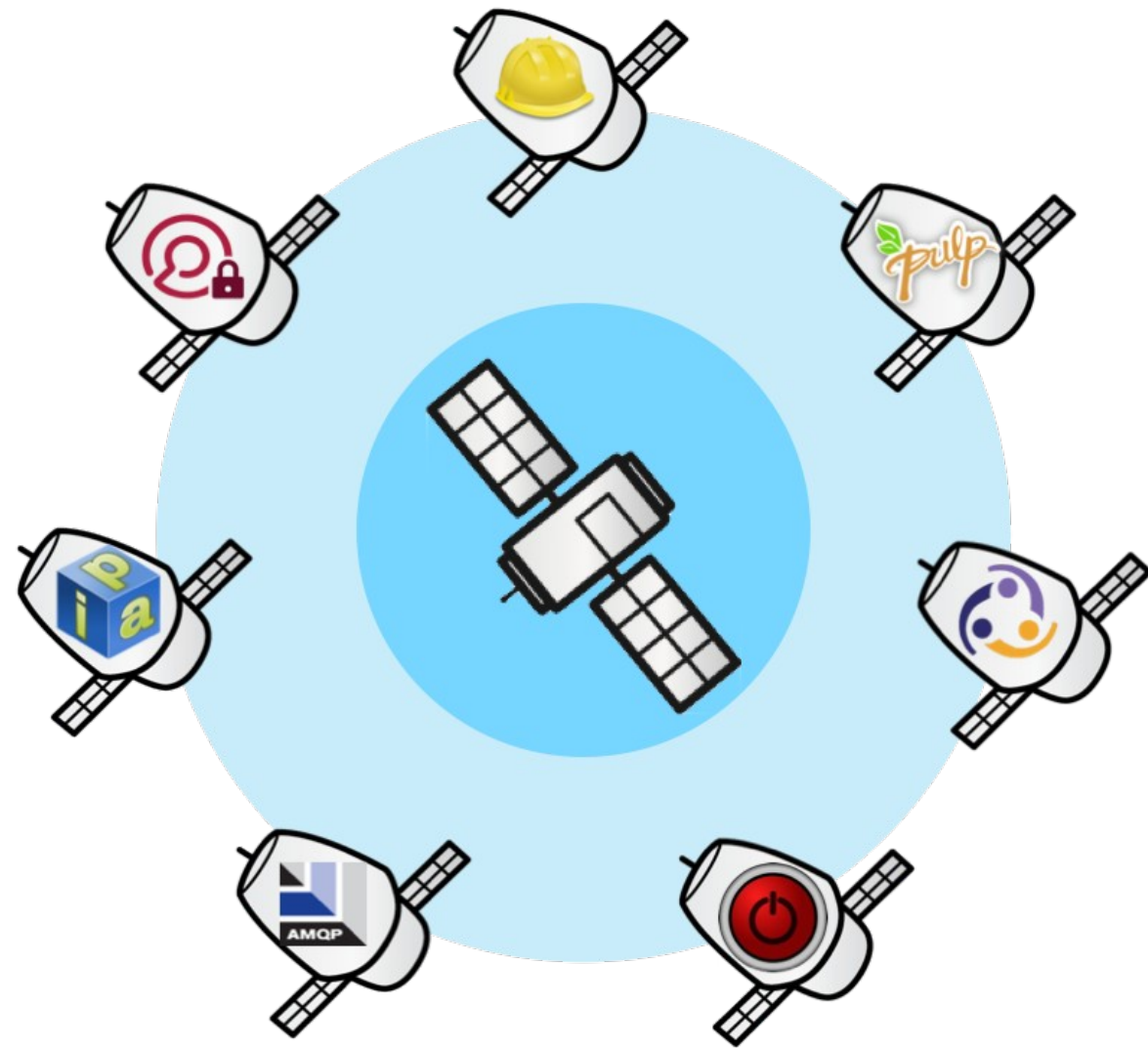
SA0001

# SUBSCRIPTION MANAGEMENT

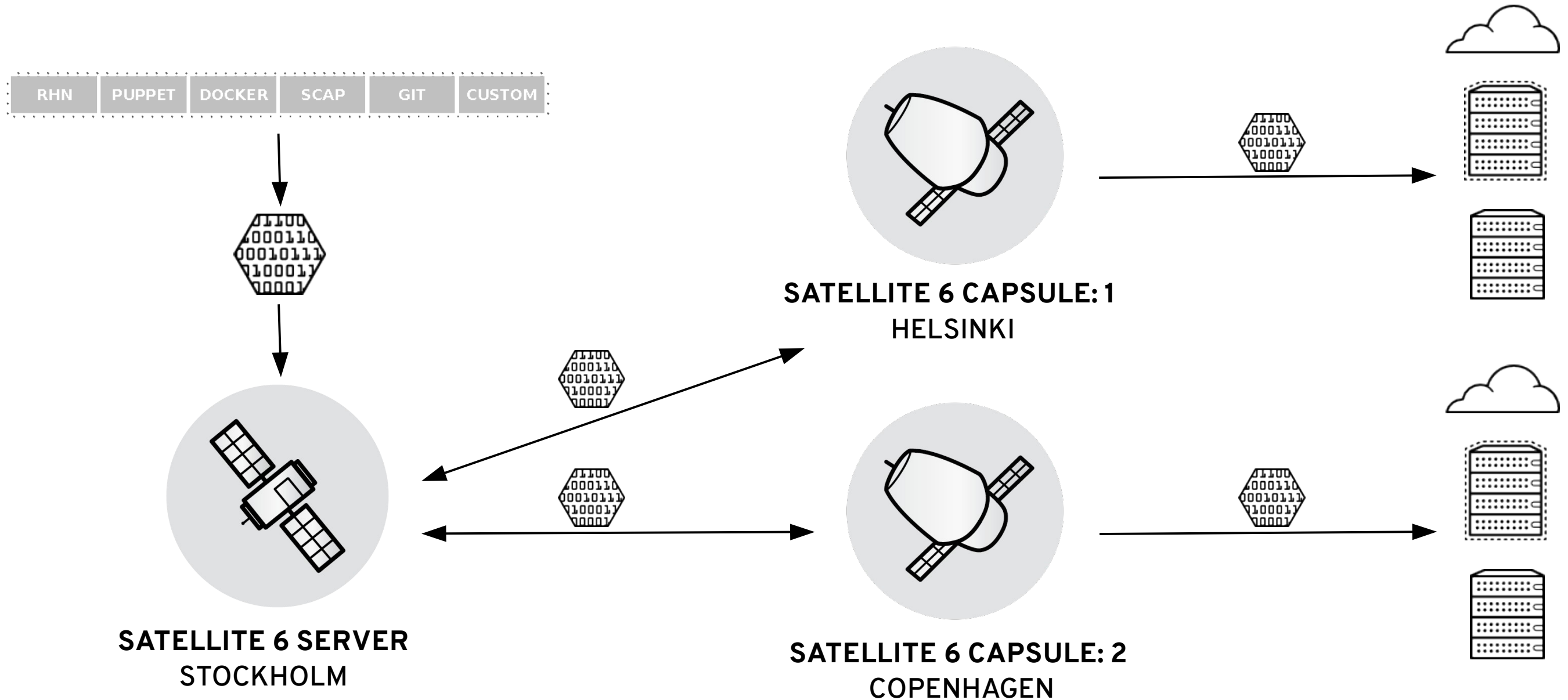


SA0001

# FEDERATED SERVICES WITH CAPSULES

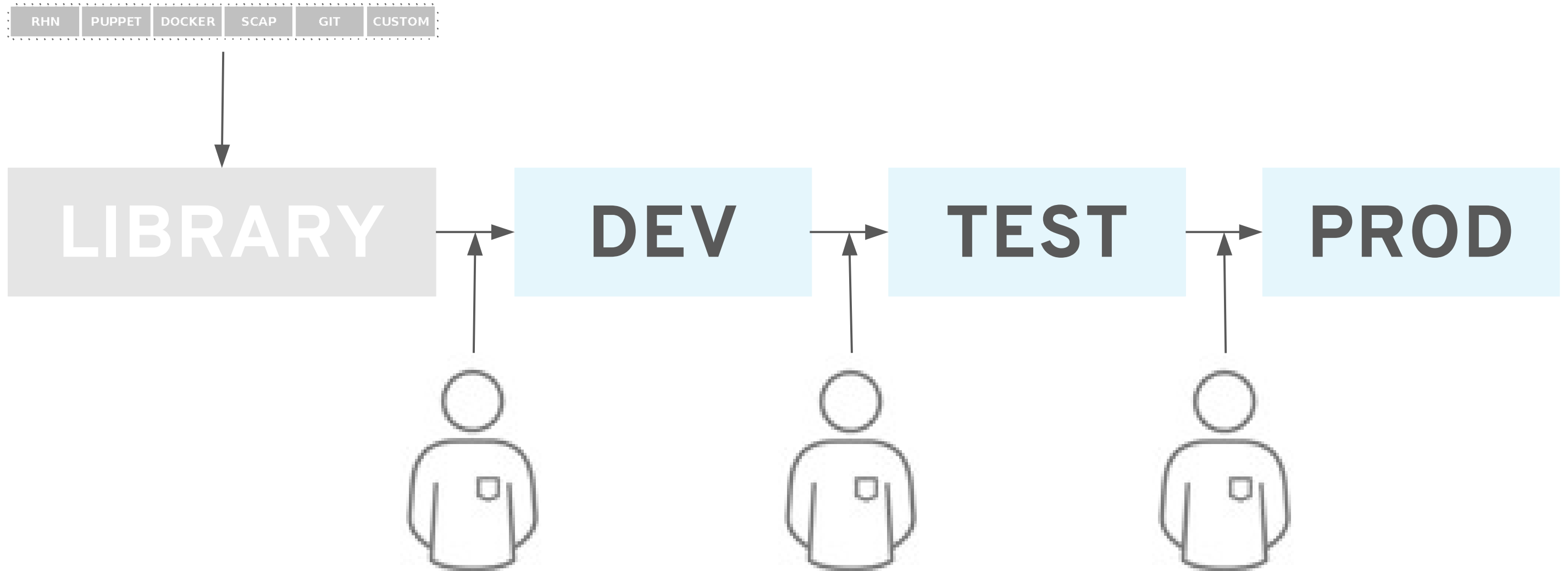


# HIGH-LEVEL TOPOLOGY

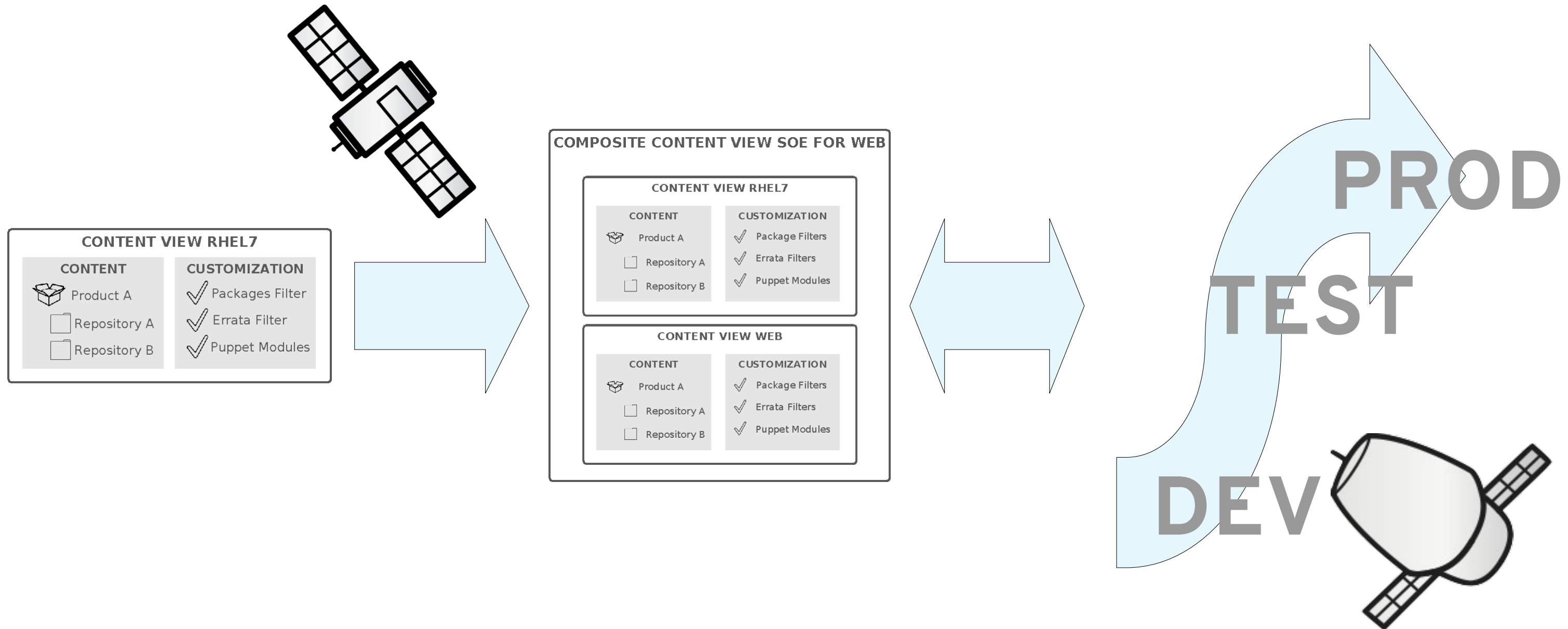




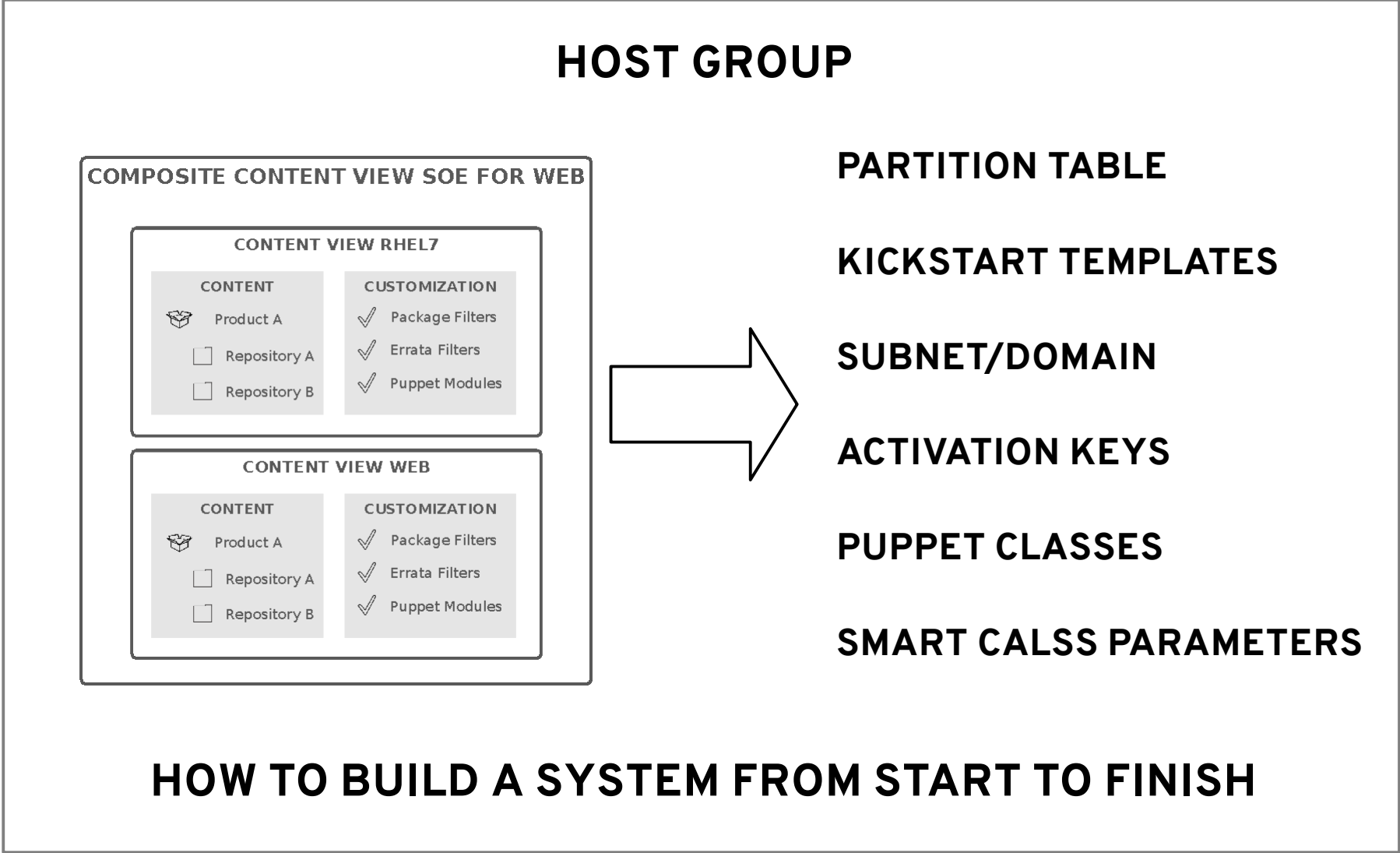
# LIFE CYCLE MANAGEMENT



# MODULAR CONTENT VIEW DEPLOYMENT



# AUTOMATED PROVISIONING



# GUI, API & CLI

- ✓ MODERN ARCHITECTURE
- ✓ API FIRST (REST BASED)
- ✓ ENABLES ADVANCED INTEGRATION

# DEPLOY A NEW SERVER VIA THE GUI

RED HAT SATELLITE

Red Hat Stockholm Demolab ▾ Monitor ▾ Content ▾ Containers ▾ Hosts ▾ Configure ▾ Infrastructure ▾ Access Insights ▾

## New Host

Host Puppet Classes Network Operating System Parameters Additional Information

Name \*

Organization \*

Location \*

Host Group

Deploy on

Lifecycle Environment

Content View

Puppet Environment \*  [Reset Puppet Environment to match selected Content View](#)

### Capsule Settings

Content Source  Use this as a source for installation and updates.

Puppet CA  Use this puppet server as a CA server

Puppet Master  Use this puppet server as an initial Puppet Server or to execute puppet runs

# DEPLOY A NEW SERVER VIA THE API

```
# curl -k -u user:pass -X POST -d '{"host": {"name": "newhost.example.com", "location_id": "2",  
  "organization_id": "1", "managed": "true", "compute_resource_id": "1", "hostgroup_id": "1",  
  "compute_profile_id": "1", "enabled": "true", "build": "true" }}' -H "Accept: application/json"  
-H "Content-Type: application/json" https://satellite.example.com/api/v2/hosts
```

# FOREMAN HOOKS



# WHAT'S NEW IN SATELLITE 6.1 ?



# CLEANER USER INTERFACE & GREATER RESPONSIVENESS

RED HAT SATELLITE Red Hat Access Admin User Administer

Red Hat Stockholm Demolab Monitor Content Containers Hosts Configure Infrastructure Access Insights

### Overview

Filter ... Q Search Generated at 18 Sep 13:41 Manage dashboard

#### Latest compliance reports

Host	Policy	P	F	O
sthlab124.lab.arn.redhat.com	SSG_For_RHEL_7_w_RHCCP_Profile	35	32	1
sthlab125.lab.arn.redhat.com	SSG_For_RHEL_7_w_RHCCP_Profile	35	32	1
sthlab124.lab.arn.redhat.com	SSG_For_RHEL_7_w_RHCCP_Profile	35	32	1
sthlab125.lab.arn.redhat.com	SSG_For_RHEL_7_w_RHCCP_Profile	35	32	1
sthlab124.lab.arn.redhat.com	SSG_For_RHEL_7_w_RHCCP_Profile	35	32	1

#### Host Configuration Chart

100% OK

#### Compliance reports breakdown

53% Passed

S	P
0	0
0	0
0	0
15	0

#### Run distribution in the last 30 minutes

Total Hosts: 3

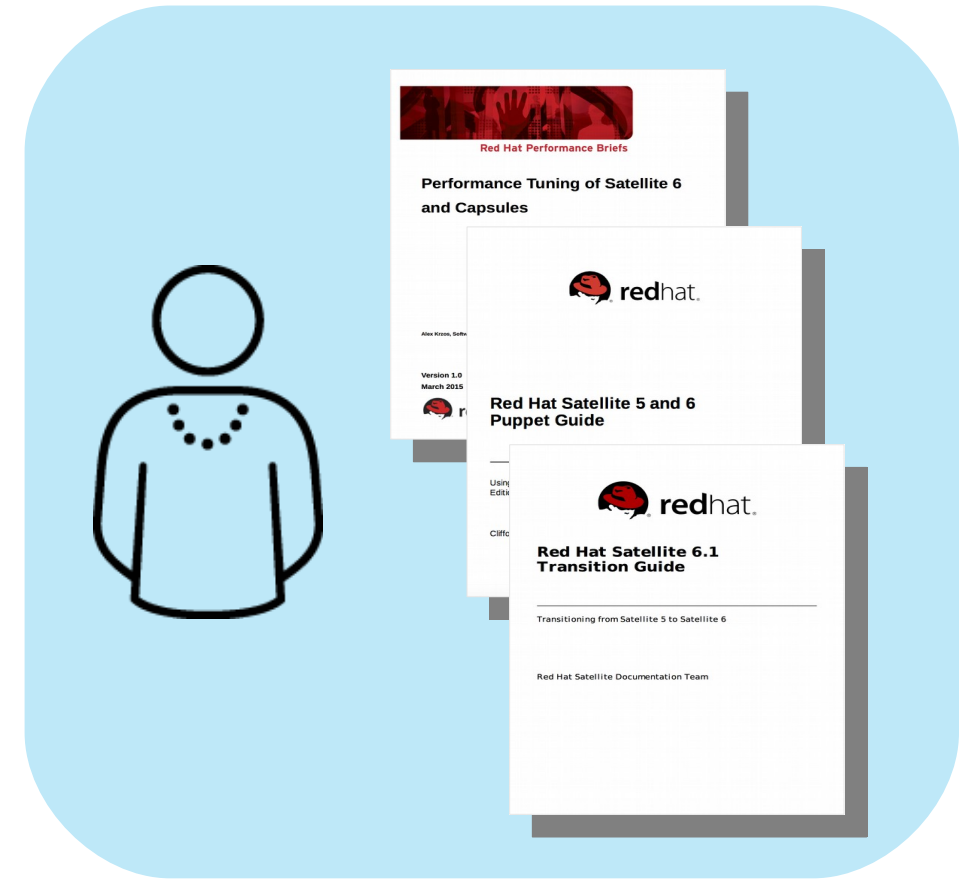
# COMPREHENSIVE DOCUMENTATION



System Engineering





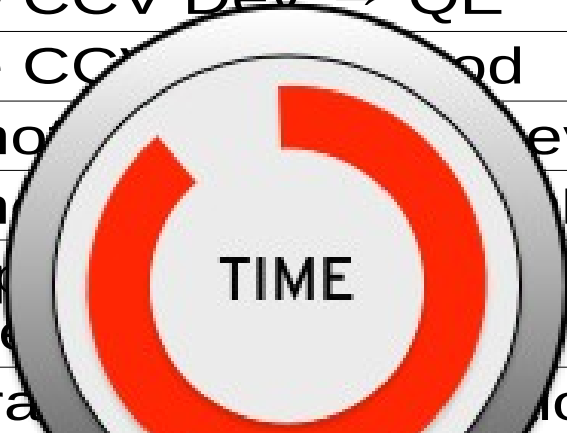




System Administration














Advanced System Management

# 2 STEP ERRATA MANAGEMENT


Satellite 6.0	Step	Satellite 6.1	
Login on to Satellite to find new errata	0	Errata email notification arrives	
Identify Errata for Tomcat 		Identify Errata for Tomcat 	
Publish Errata to Tomcat CV <b>v4</b> in the library now <b>v5</b>	1	Add Errata to CV <b>v4, now v4.1</b> in QE & to applicable hosts CCV <b>v3, now V3.1</b> 	
Promote CCV Lib → Dev now <b>v11</b>	2	Add Errata to CV <b>v4, now v4.1</b> in Prod & to applicable hosts CCV <b>v2, now V2.1</b> 	
Promote CCV Dev → QE	3	 	
Promote CCV Prod	4		
2 <sup>nd</sup> Promote CCV Dev	5		
2 <sup>nd</sup> Promote CCV QE	6		
Select applicable host(s) or host-collection	7		
Push errata to host(s)	8		
			


# 2 STEP ERRATA MANAGEMENT


















**RED HAT SATELLITE** Red Hat Access  Admin User 

Red Hat Stockholm Demolab  Monitor  Content  Containers  Hosts  Configure  Infrastructure  Access Insights  Administer 

## Errata

All Repositories   Applicable  Installable

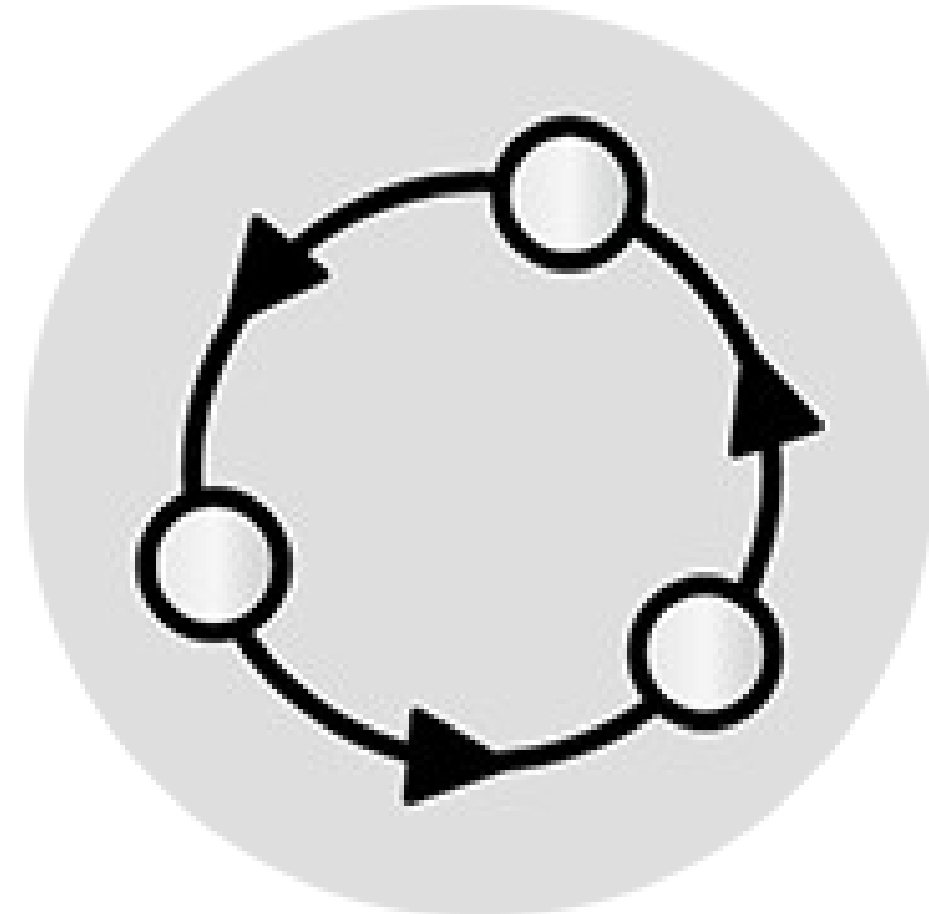
Search...  Showing 42 of 42 (42 Total) 1 Selected [Apply Errata](#)

<input type="checkbox"/>	Errata ID	Title	Type	Content Host Counts	Updated
<input checked="" type="checkbox"/>	<a href="#">RHSA-2015:1665</a> 	Moderate: mariadb security update	 Security Advisory - Moderate	5 Applicable, 5 Installable	8/24/15
<input type="checkbox"/>	<a href="#">RHSA-2015:1640</a>	Moderate: pam security update	 Security Advisory - Moderate	5 Applicable, 5 Installable	8/18/15
<input type="checkbox"/>	<a href="#">RHSA-2015:1636</a>	Moderate: net-snmp security update	 Security Advisory - Moderate	2 Applicable, 2 Installable	8/17/15
<input type="checkbox"/>	<a href="#">RHSA-2015:1635</a>	Moderate: sqlite security update	 Security Advisory - Moderate	5 Applicable, 5 Installable	8/17/15
<input type="checkbox"/>	<a href="#">RHEA-2015:1625</a>	tzdata enhancement update	 Product Enhancement Advisory	5 Applicable, 5 Installable	8/14/15
<input type="checkbox"/>	<a href="#">RHBA-2015:1536</a>	docker bug fix and enhancement update	 Bug Fix Advisory	1 Applicable, 1 Installable	8/5/15
<input type="checkbox"/>	<a href="#">RHBA-2015:1560</a>	irqbalance bug fix update	 Bug Fix Advisory	5 Applicable, 5 Installable	8/5/15
<input type="checkbox"/>	<a href="#">RHBA-2015:1535</a>	numactl bug fix update	 Bug Fix Advisory	5 Applicable, 5 Installable	8/5/15
<input type="checkbox"/>	<a href="#">RHBA-2015:1532</a>	python-urllib3 bug fix update	 Bug Fix Advisory	5 Applicable, 5 Installable	8/5/15
<input type="checkbox"/>	<a href="#">RHSA-2015:1534</a>	Moderate: kernel security and bug fix update	 Security Advisory - Moderate	5 Applicable, 5 Installable	8/5/15
<input type="checkbox"/>	<a href="#">RHBA-2015:1556</a>	dnsmasq bug fix update	 Bug Fix Advisory	5 Applicable, 5 Installable	8/5/15
<input type="checkbox"/>	<a href="#">RHBA-2015:1552</a>	selinux-policy bug fix update	 Bug Fix Advisory	5 Applicable, 5 Installable	8/5/15
<input type="checkbox"/>	<a href="#">RHEA-2015:1563</a>	fence-agents enhancement update	 Product Enhancement Advisory	2 Applicable, 2 Installable	8/5/15
<input type="checkbox"/>	<a href="#">RHBA-2015:1558</a>	NetworkManager bug fix update	 Bug Fix Advisory	5 Applicable, 5 Installable	8/5/15
<input type="checkbox"/>	<a href="#">RHBA-2015:1537</a>	util-linux bug fix update	 Bug Fix Advisory	5 Applicable, 5 Installable	8/5/15
<input type="checkbox"/>	<a href="#">RHBA-2015:1533</a>	nss-util, nss-softokn, and nss bug fix and enhancement update	 Bug Fix Advisory	5 Applicable, 5 Installable	8/5/15

# RED HAT ACCESS INSIGHTS

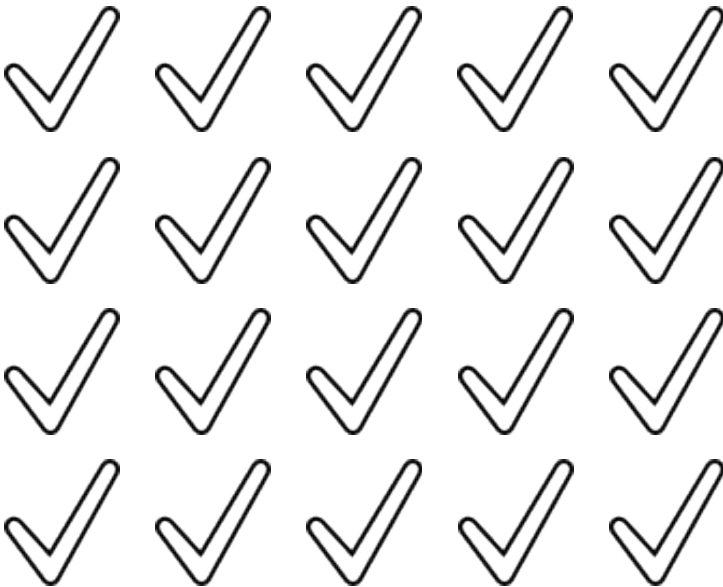
## PROACTIVE SYSTEM MANAGEMENT

- ✓ REDUCED DOWNTIME
- ✓ LESS TIME RESEARCHING
- ✓ IDENTIFY THREATS BEFORE THEY ARE THREATS



# THE INSIGHTS ENGINE

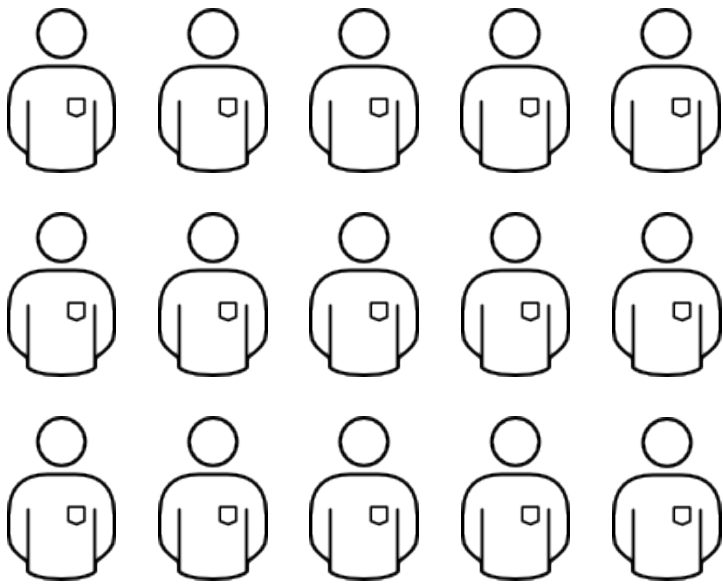
**1.000.000 SOLVED CASES**



**30.000 UNIQUE SOLUTIONS**



**700 ENGINEERS GLOBALLY**



# RED HAT ACCESS INSIGHTS

RED HAT SATELLITE Red Hat Access ▼ Admin User ▼

RHAI\_Demo ▼ Monitor ▼ Content ▼ Hosts ▼ Configure ▼ Infrastructure ▼ Access Insights ▼ Administer ▼

## Red Hat Access Insights

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

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

### Overview

Overview

ALL INFO WARN ERROR

Section	Count
Security	1
Performance	1
Stability	7

**2 systems are not checking in** [View systems and resolve](#)

# RED HAT ACCESS INSIGHTS

## ⚠ VMware guest NMI enabled

Guest virtual machines running under VMWare can be crashed by the NMI watchdog when a process accesses `/proc/slabinfo` if the host system has been under heavy memory pressure.

Red Hat recommends that you disable `nmi_watchdog`

1. Edit `/etc/sysctl.conf` and edit or add the following lines:

```
kernel.nmi_watchdog = 0
kernel.unknown_nmi_panic = 0
```

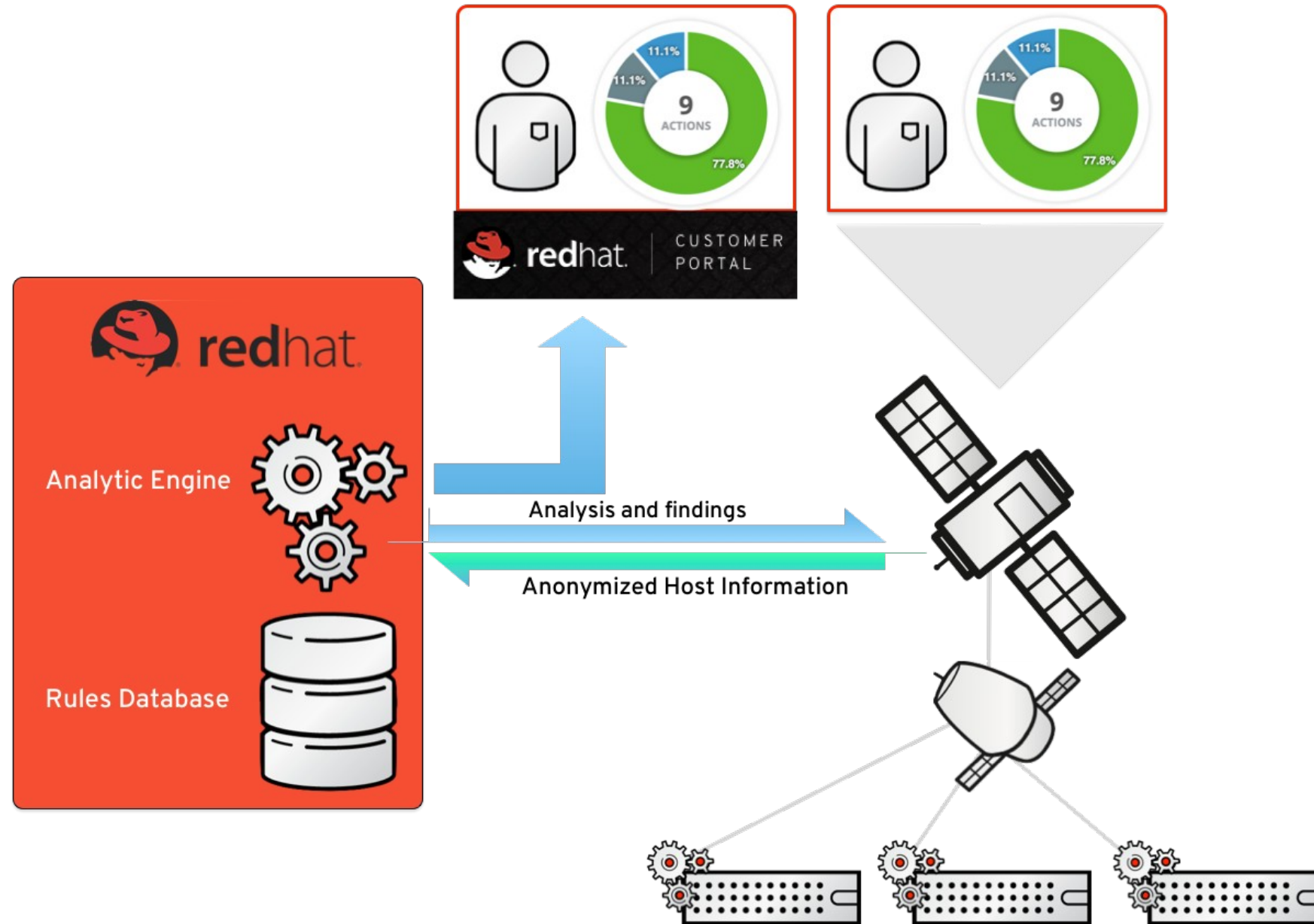
## Impacted Systems

[Overview](#) / [Stability](#) / VMware guest NMI enabled

Hostname	Reported	
Filter		
rhel6-s1.example.com	3 months ago	<a href="#">View</a>
rhel6-s1.example.com	3 months ago	<a href="#">View</a>
rhel6-s1.example.com	3 months ago	<a href="#">View</a>
rhel6-s1.example.com	3 months ago	<a href="#">View</a>
rhel7-s1.example.com	3 months ago	<a href="#">View</a>
rhel7-s1.example.com	3 months ago	<a href="#">View</a>

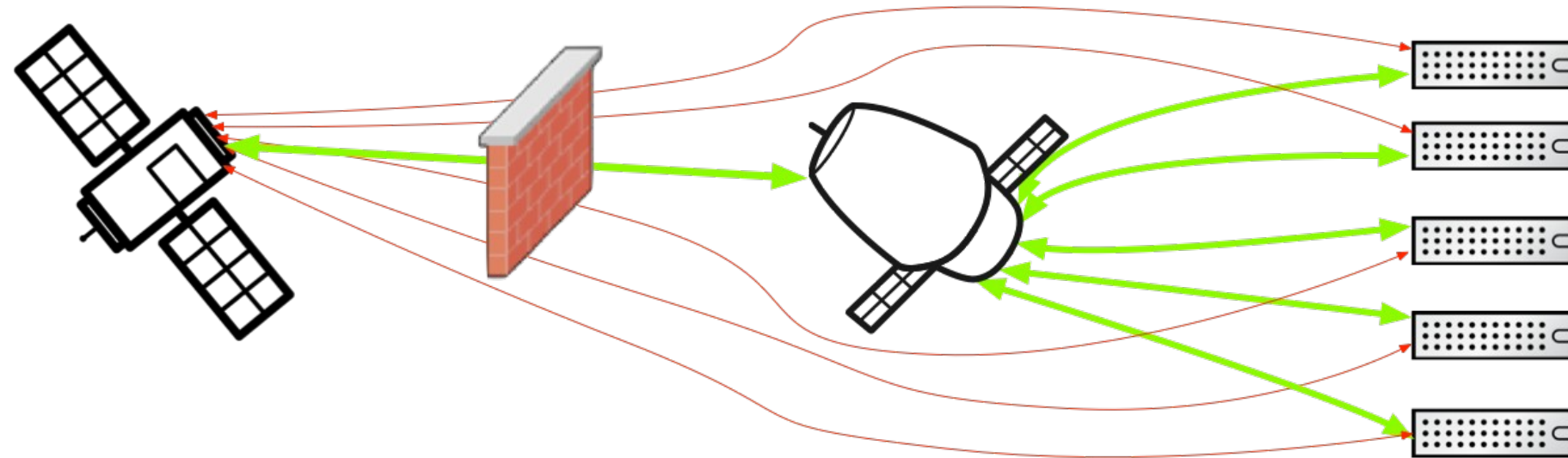


# RED HAT ACCESS INSIGHT

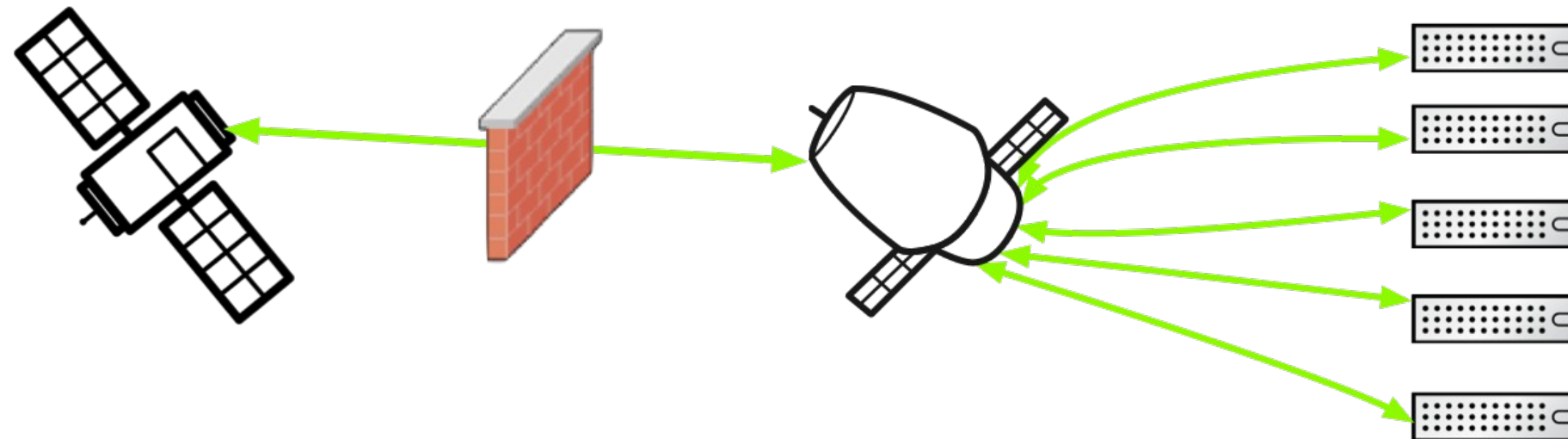


# ISOLATED CAPSULE

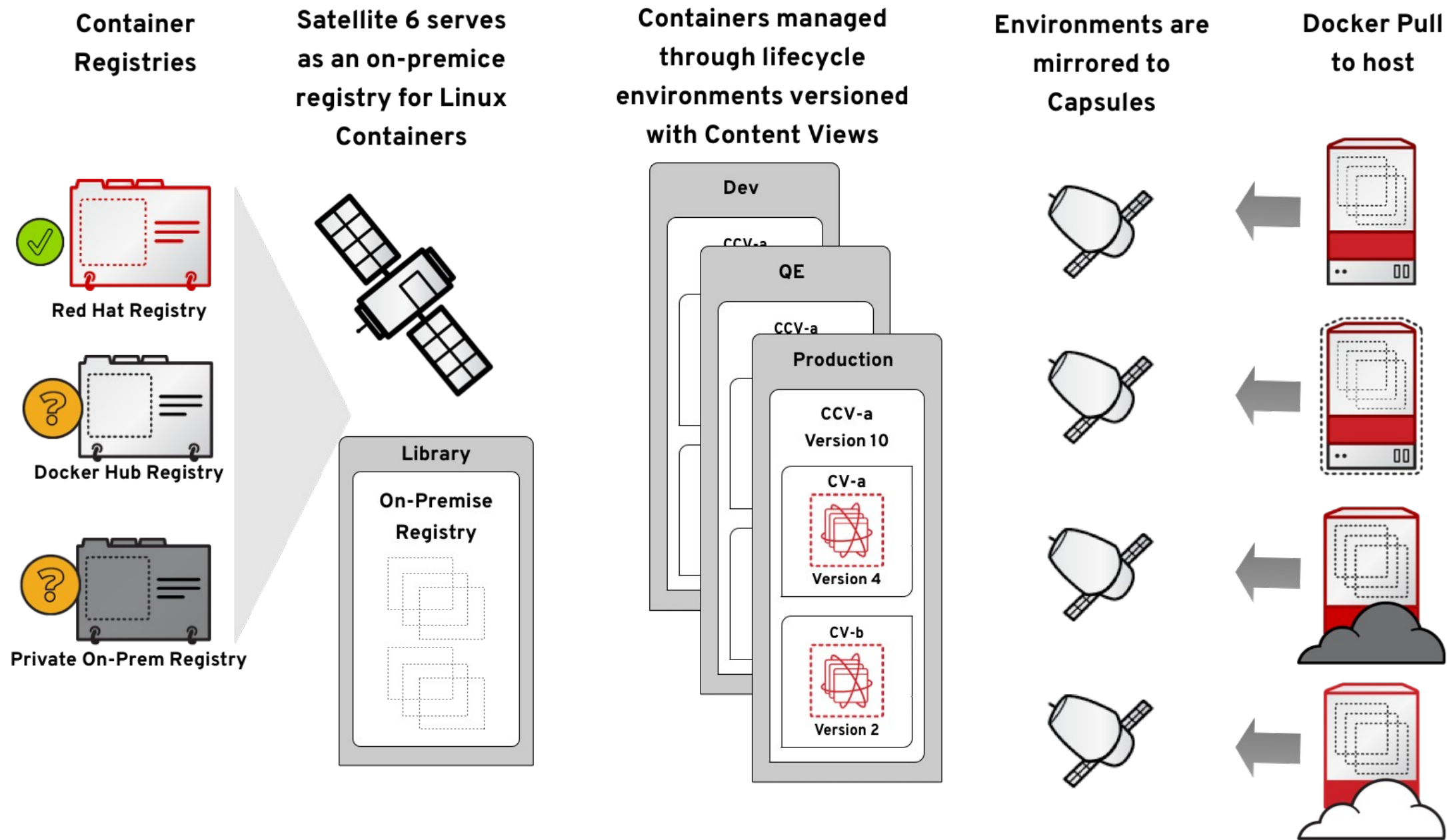
Satellite 6.0



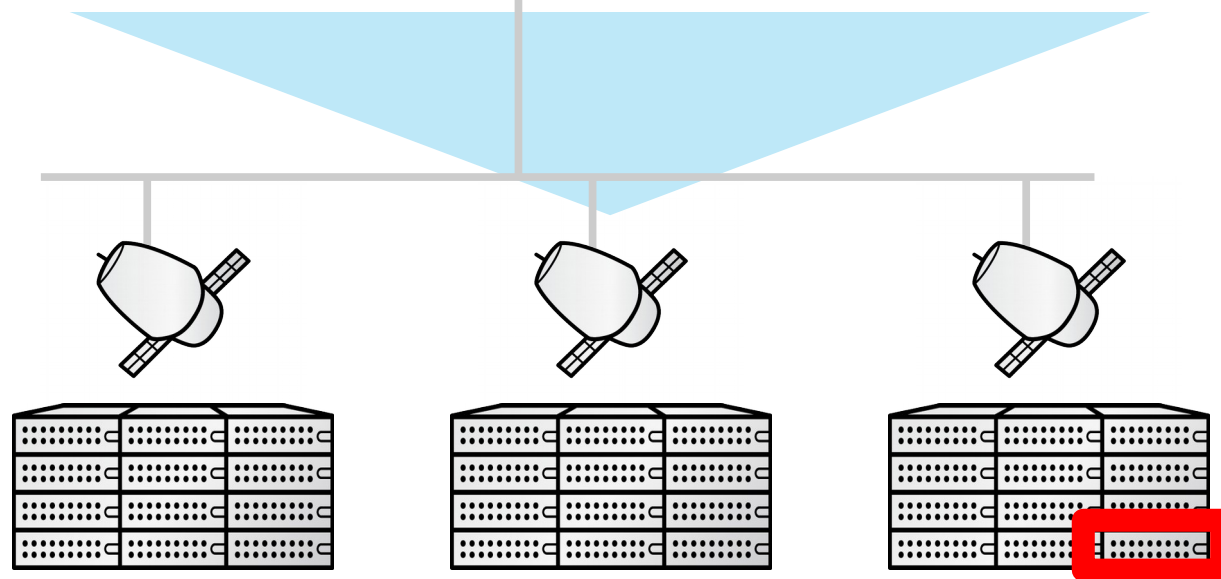
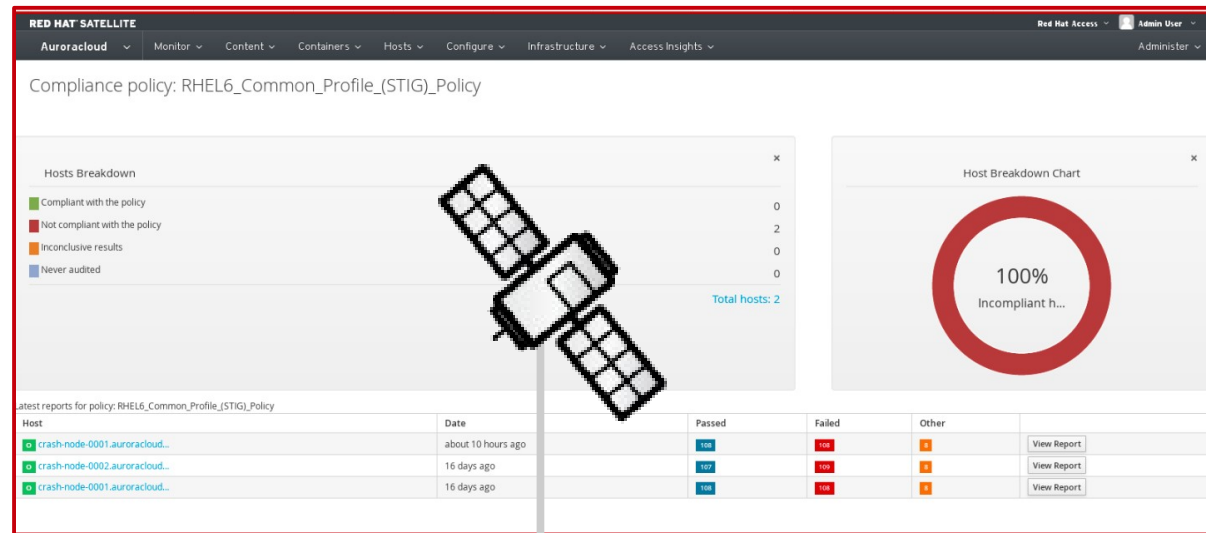
Satellite 6.1



# CONTAINER MANAGEMENT



# OPEN SCAP INTEGRATION



# OPEN SCAP INTEGRATION

Prevent Log In to Accounts With Empty Password ✕

Rule ID	xccdf_org.ssgproject.content_rule_no_empty_passwords
Result	<span style="background-color: red; color: white; padding: 2px;">fail</span>
Time	2015-09-21T01:00:06
Severity	high
Identifiers and References	<b>identifiers:</b> CCE-27010-8 <b>references:</b> 366, SRG-OS-000999, IA-5(b), IA-5(c), IA-5(1)(a).
Description	If an account is configured for password authentication but does not have an assigned password, it may be possible to log into the account without authentication. Remove any instances of the <code>nullok</code> option in <code>/etc/pam.d/system-auth</code> to prevent logins with empty passwords.
Rationale	If an account has an empty password, anyone could log in and run commands with the privileges of that account. Accounts with empty passwords should never be used in operational environments.

**OVAL details**

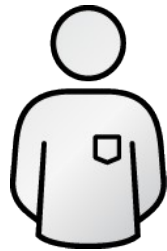
Items found violating `make sure nullok is not used in /etc/pam.d/system-auth`:

Path	Content
<code>/etc/pam.d/system-auth</code>	<code>nullok</code>

**Remediation script:**

```
sed -i 's/\//g' /etc/pam.d/system-auth
```

# DISCOVERY

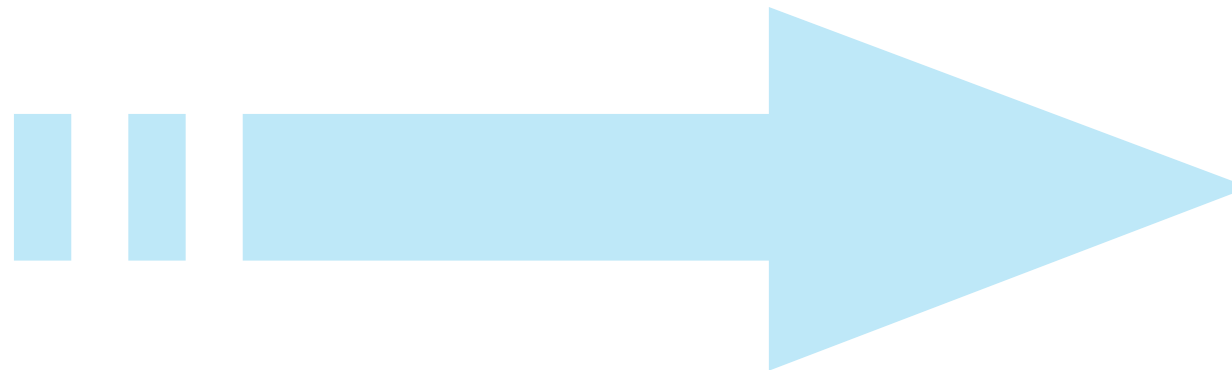
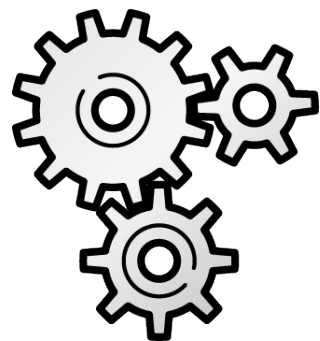


RED HAT SATELLITE

Default Organization@Default Location | Monitor | Content | Containers | Hosts | Configure | Infrastructure | Access Insights | Admin User | Administrator

### Discovery Rules

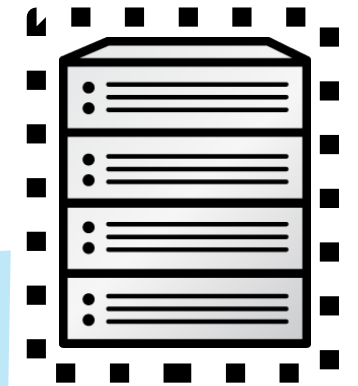
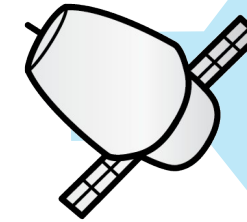
Name	Priority	Query	Host group	Hosts/limit	Enabled	
2_CPU	0	cpu_count > 1	RHEL6_Dev_Servers	0 / 0	true	Delete
16_GBYTE_MEM	0	memory > 16GB	RHEL6_Dev_Servers	0 / 4	true	Delete
DefLOC_On_124	0	location = "Default Location" and subnet = 192.168.124.0	RHEL6_Dev_Servers	0 / 0	true	Delete
KVM_Big_Storage	0	model = KVM and disks_size > 2TBytes	RHEL6_Dev_Servers	0 / 0	true	Delete
1_CPU	1	cpu_count >= 1	RHEL7_Prod_Servers	1 / 0	true	Delete



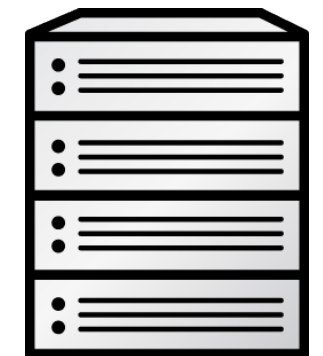
1



DHCP  
DNS  
TFTP



2



# QUESTIONS ?



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