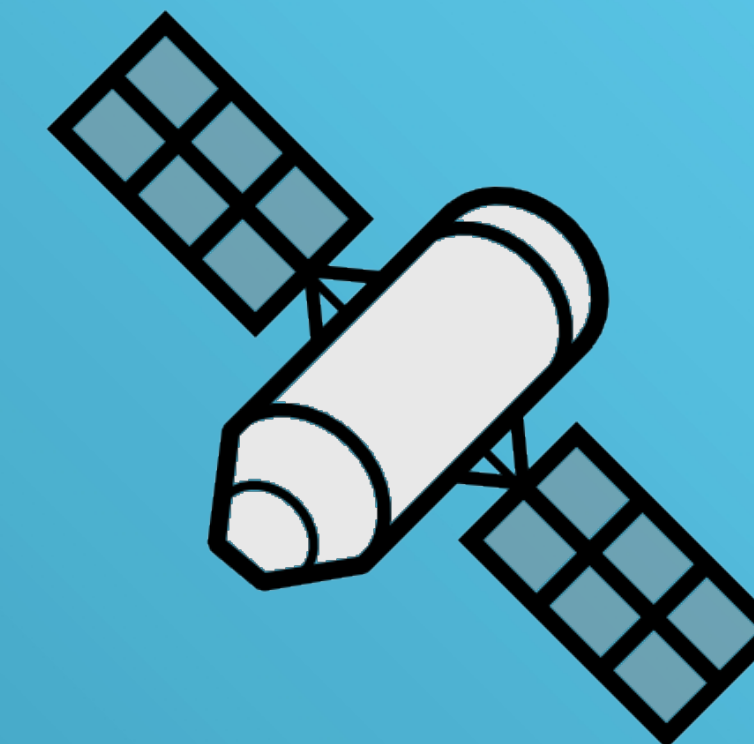


**RED HAT
SUMMIT**

10 YEARS *and counting*
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Moving from Red Hat Satellite 5 to 6

A practical guide

Thomas Cameron

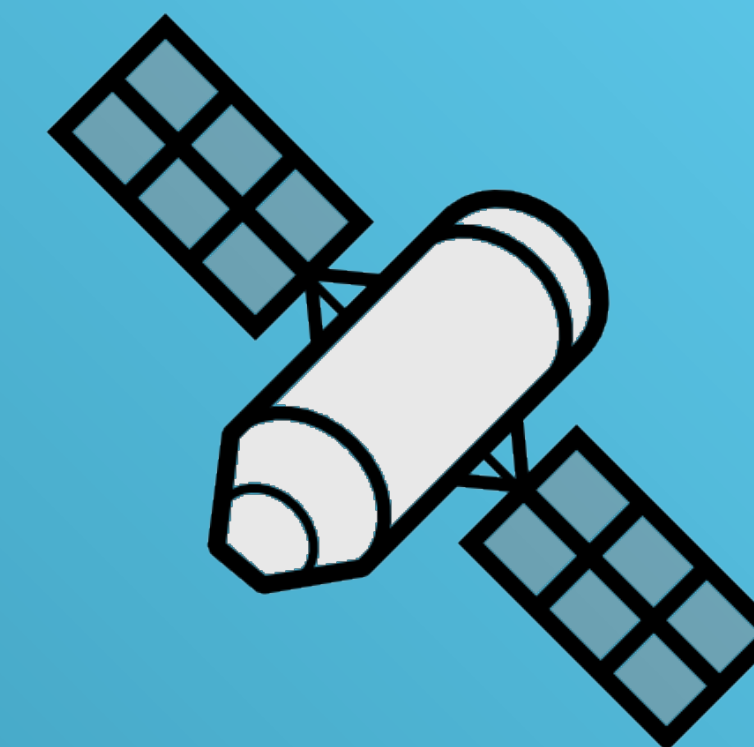
Chief Solution Architect, Red Hat

Todd Warner

Senior Product Manager, Red Hat

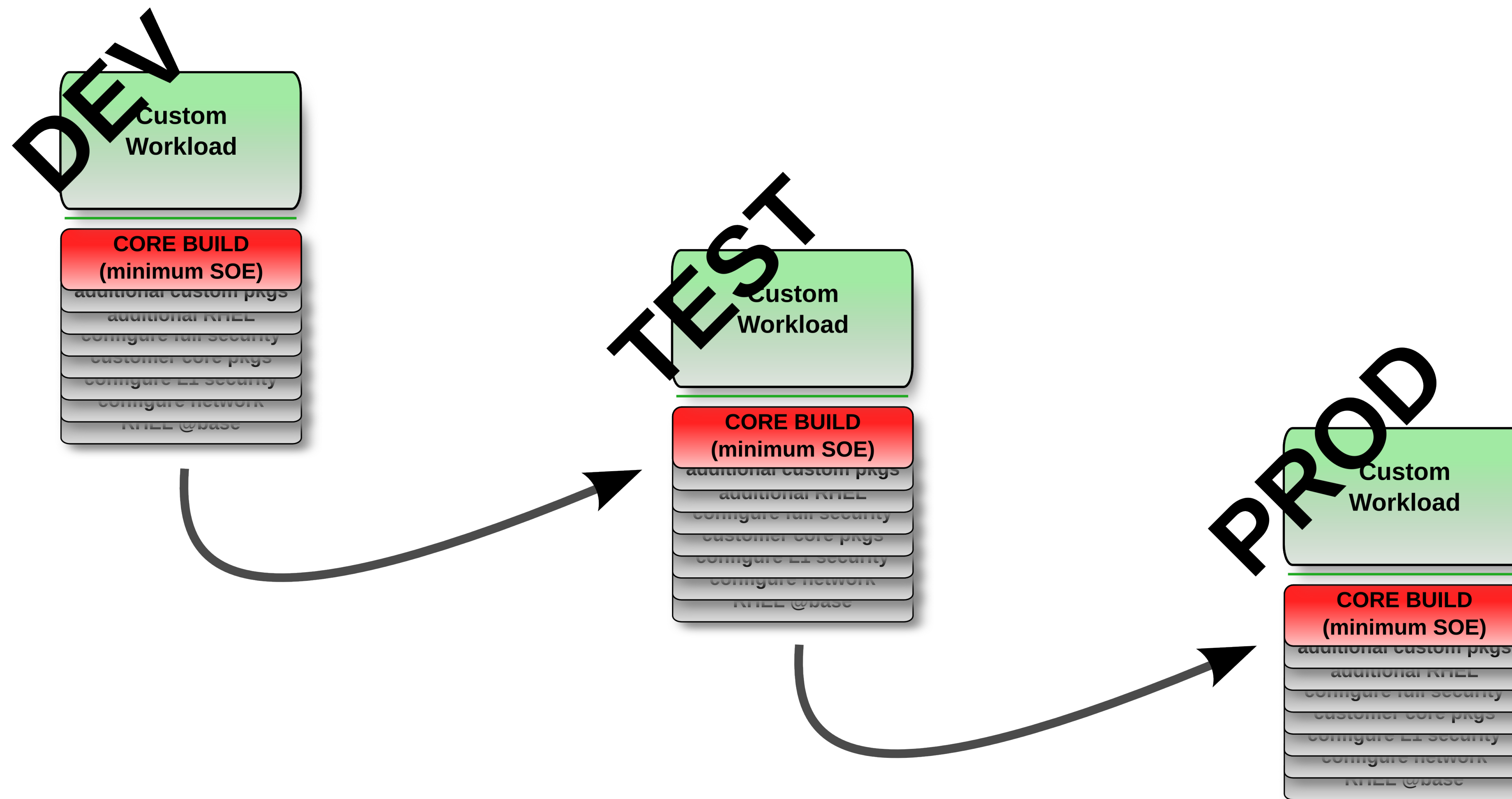
RED HAT
SUMMIT

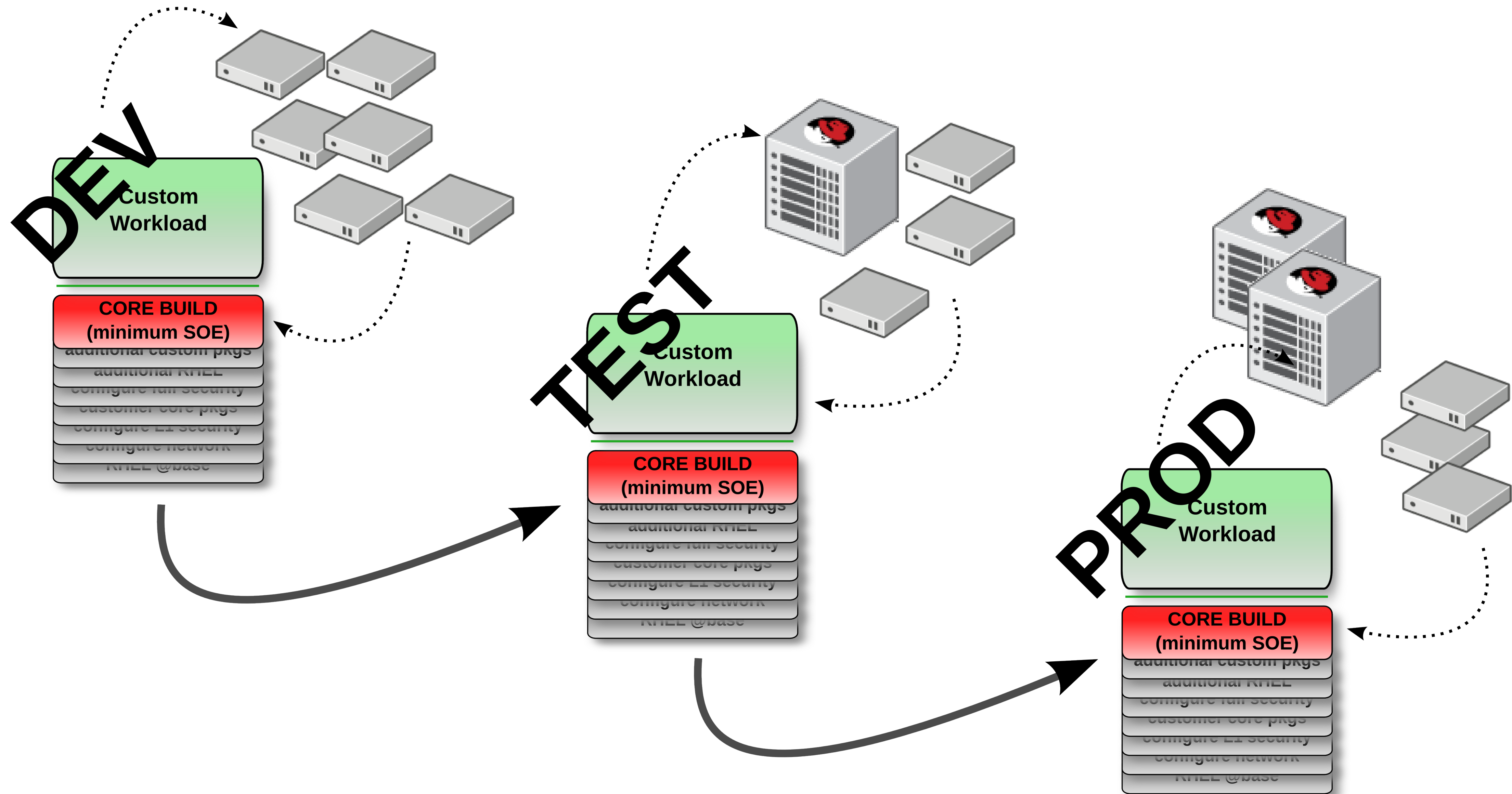
10 YEARS *and counting*
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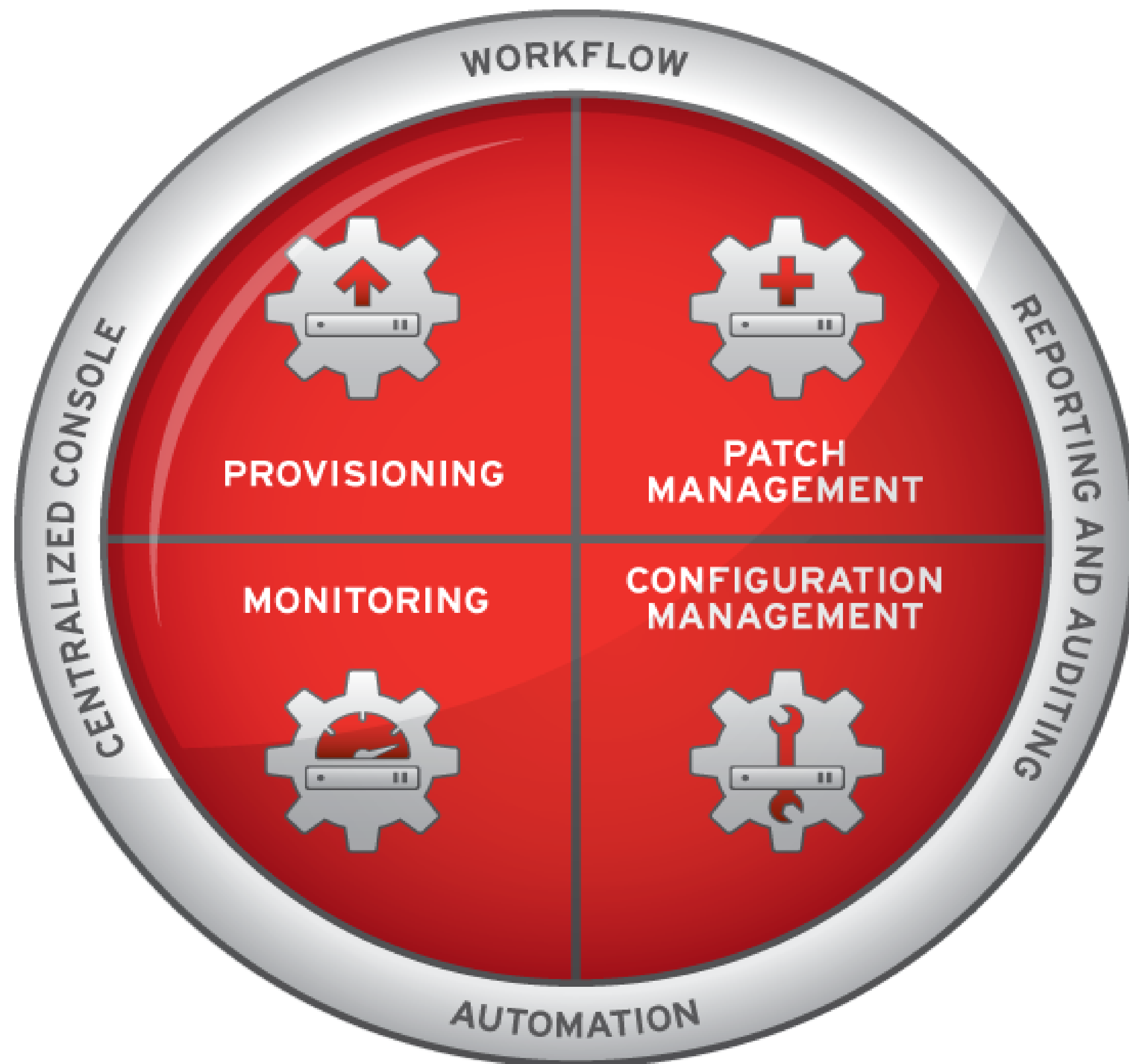


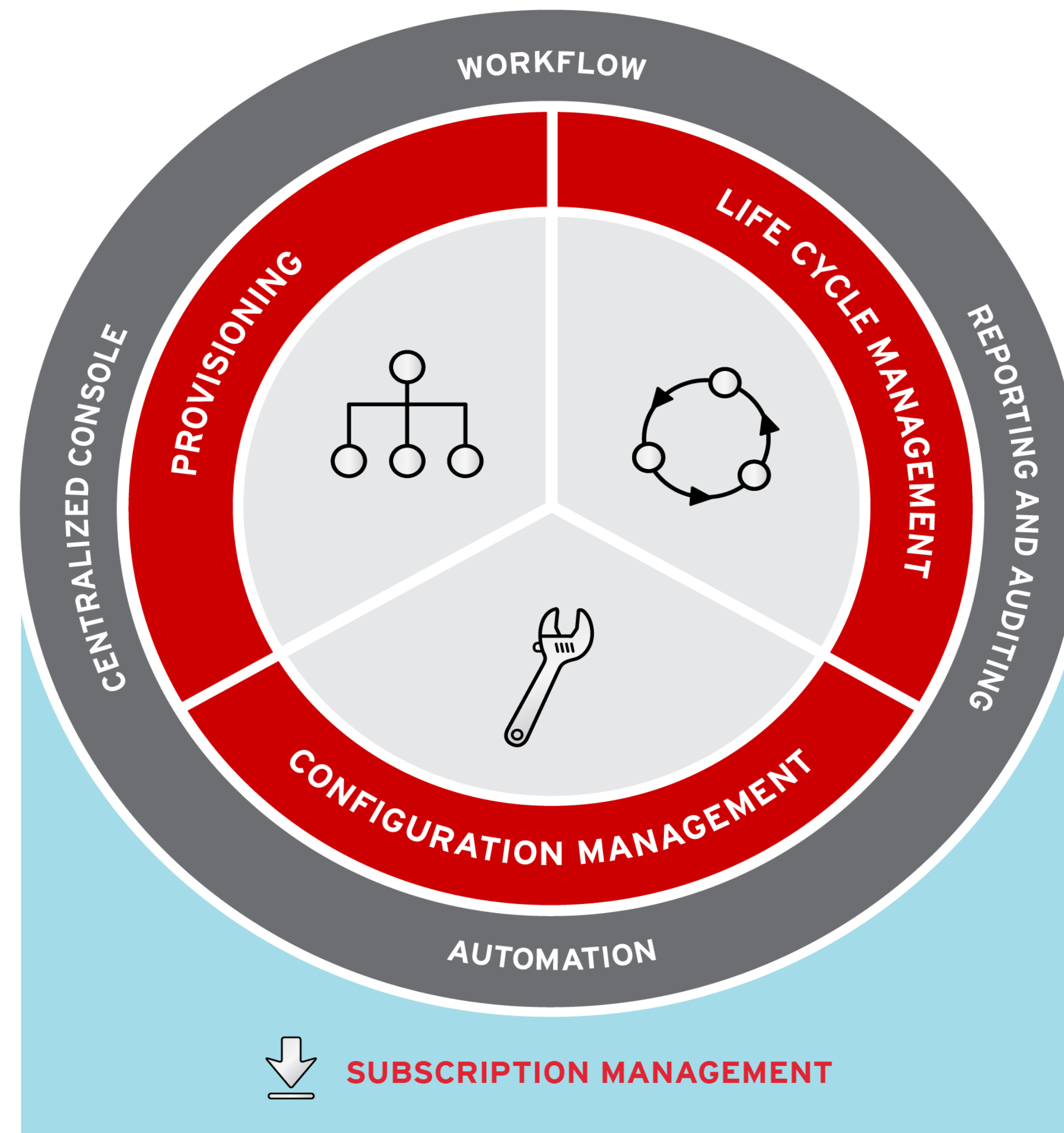
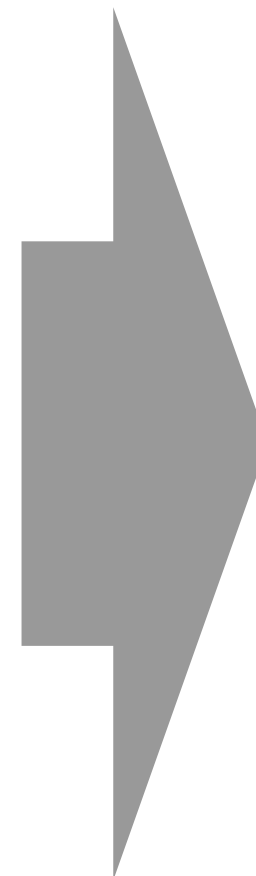
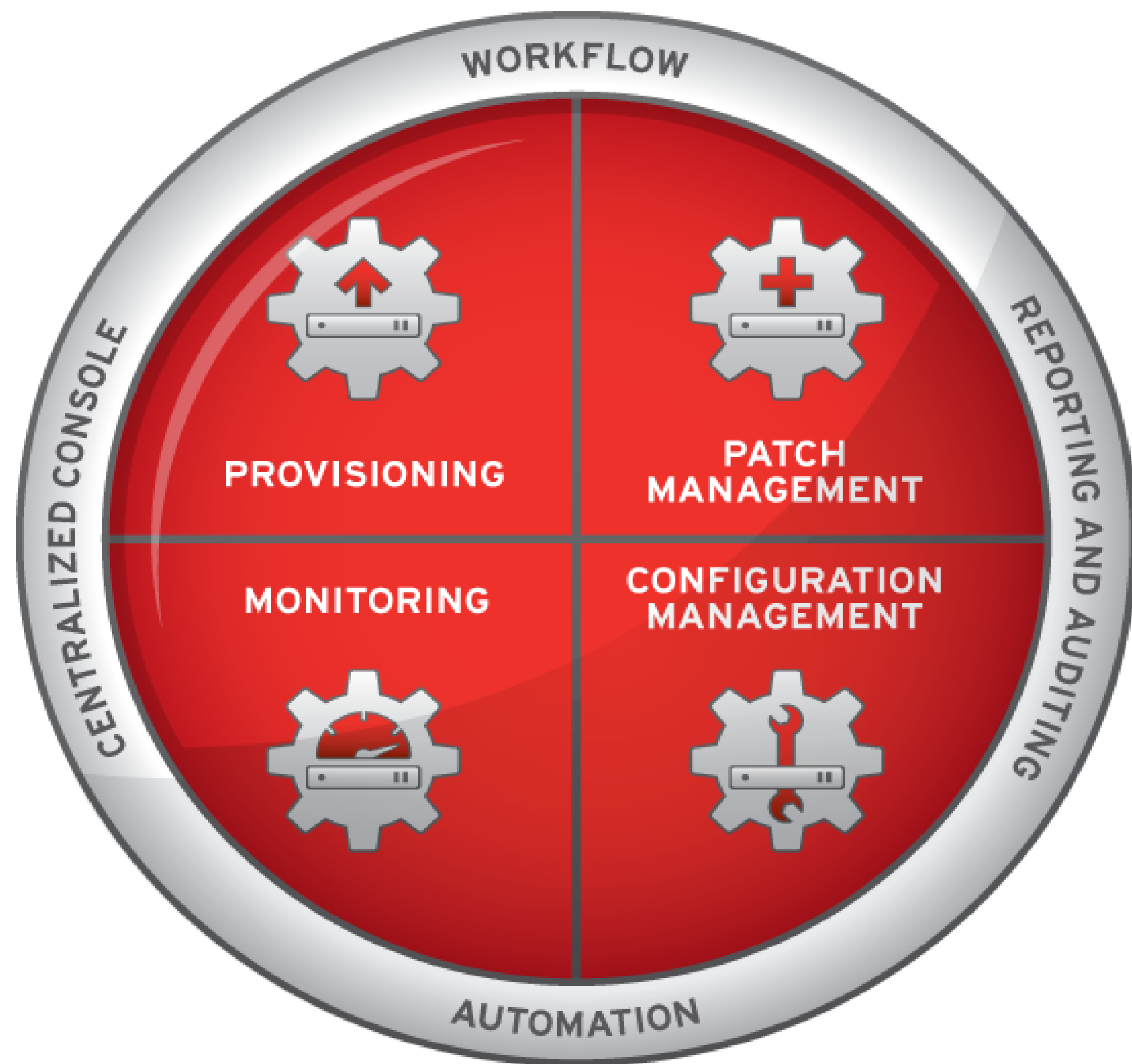
Red Hat Satellite

A brief introduction to Satellite and Transition







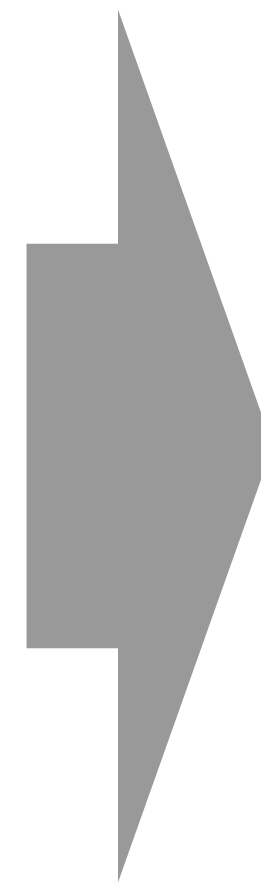


Red Hat Satellite 5 & 6 Core Capabilities

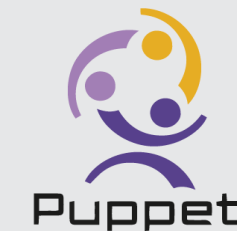
RED HAT SATELLITE 5



- Provision systems
- Configuration Management
- Automated Software Distribution
- Lifecycle Management
- Administrator Dashboard

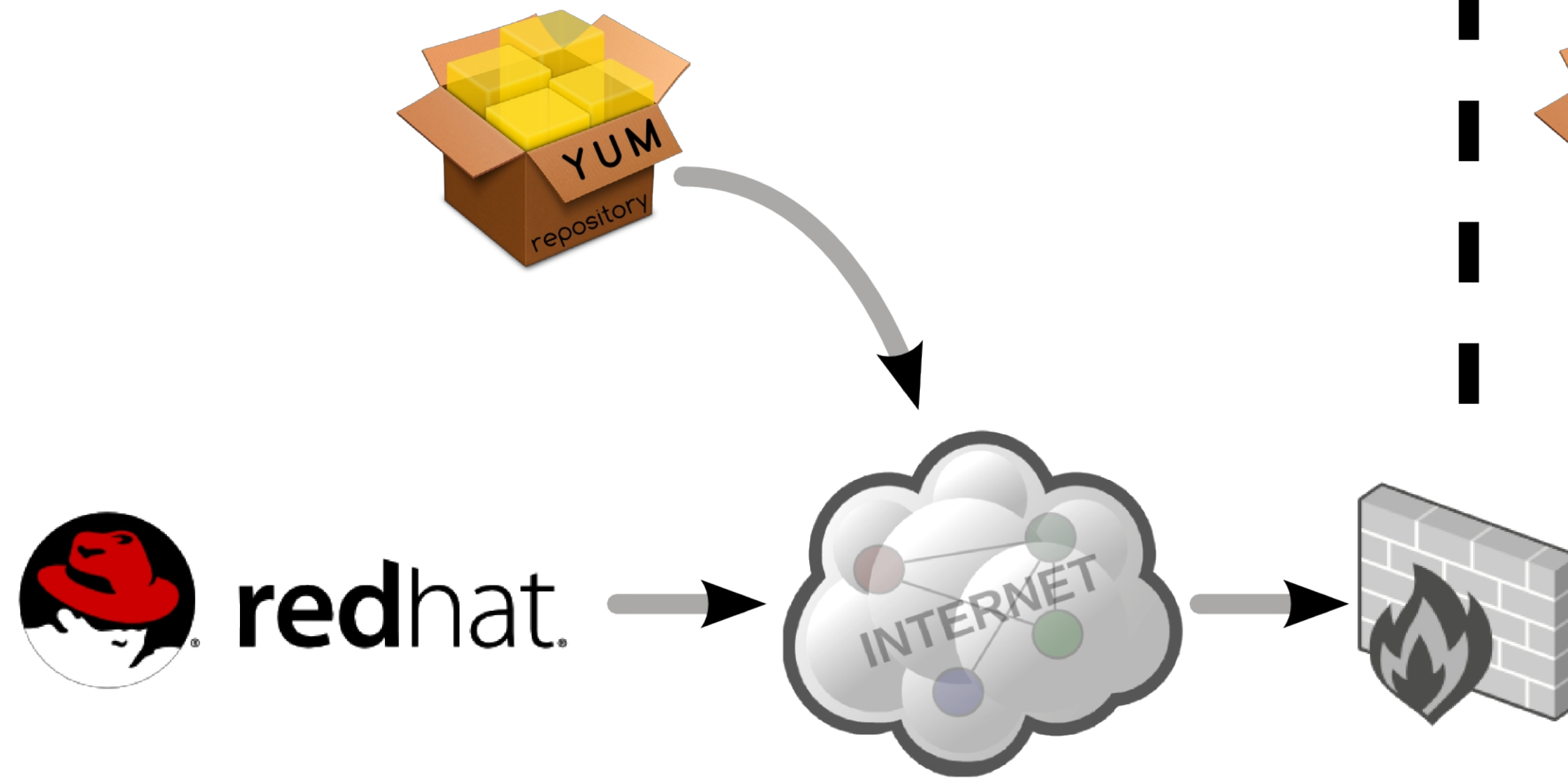


RED HAT SATELLITE 6

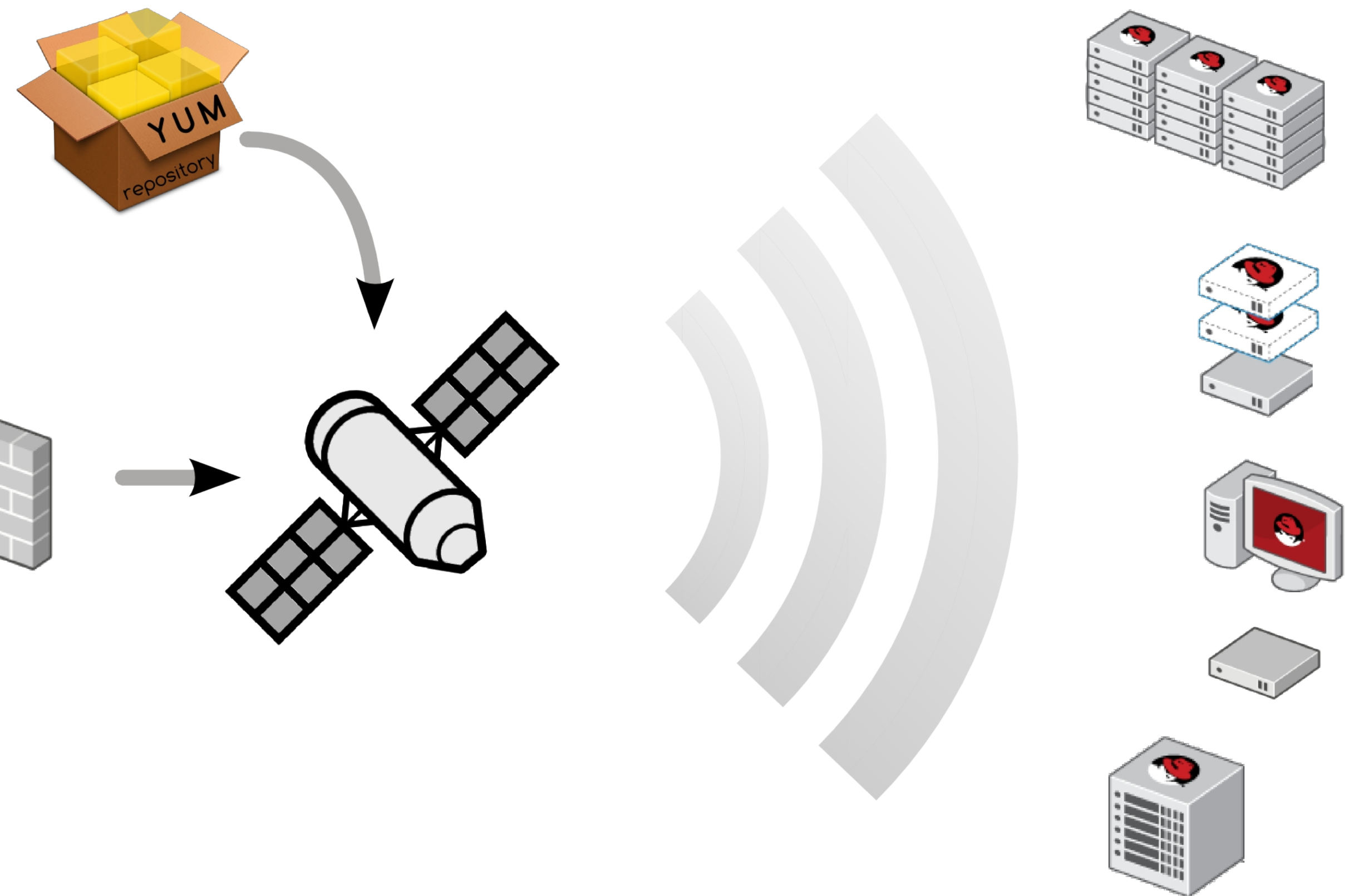


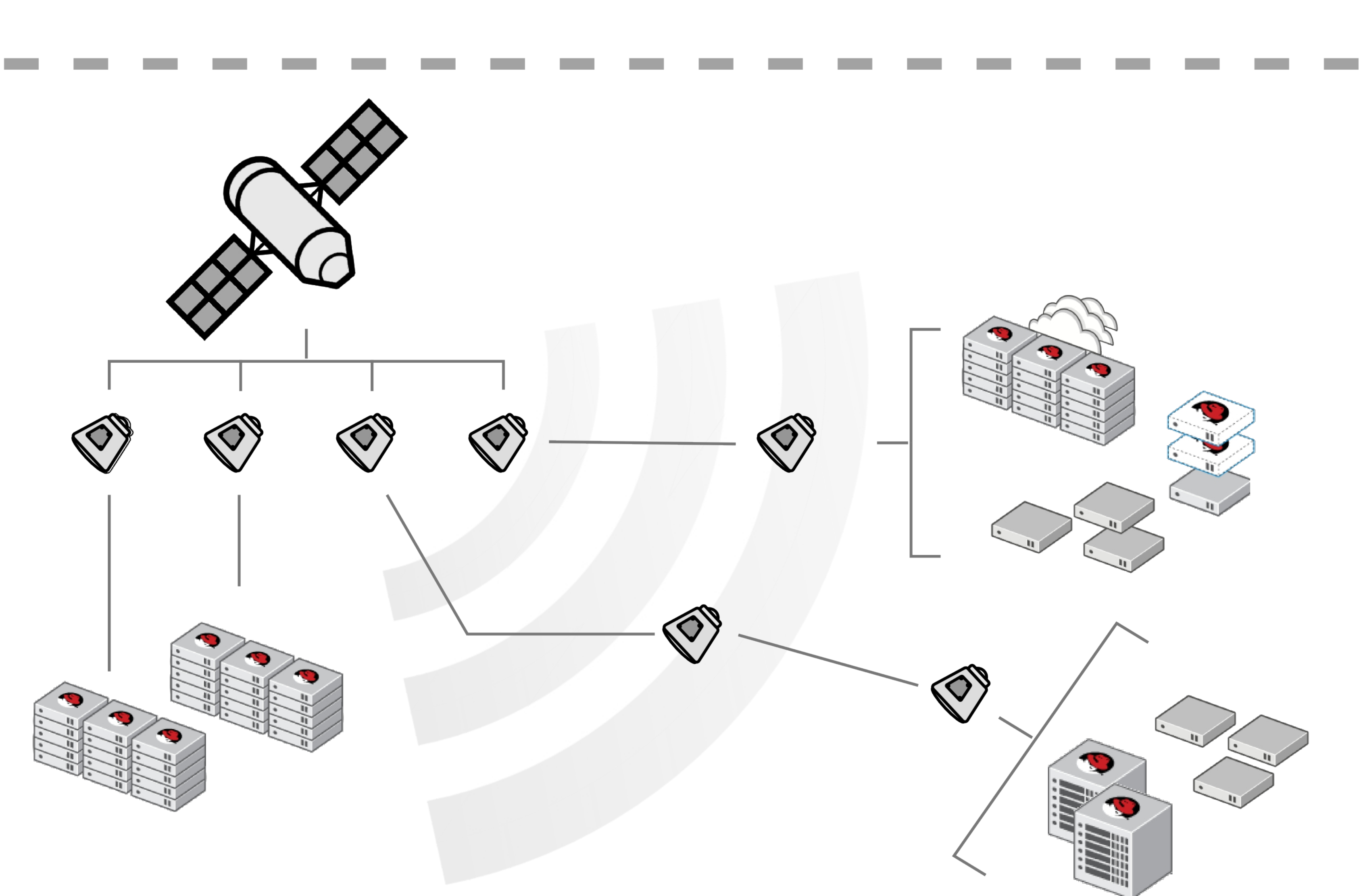
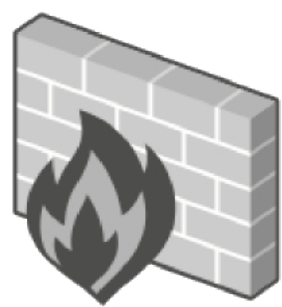
- Provision bare metal, private and public clouds
- Recipe-Style Configuration Management
- Automated Software Distribution
- Refined Lifecycle Management
- Modern Administrator Dashboards
- Simplified Content Management
- Drift Management
- Federated Services & Management

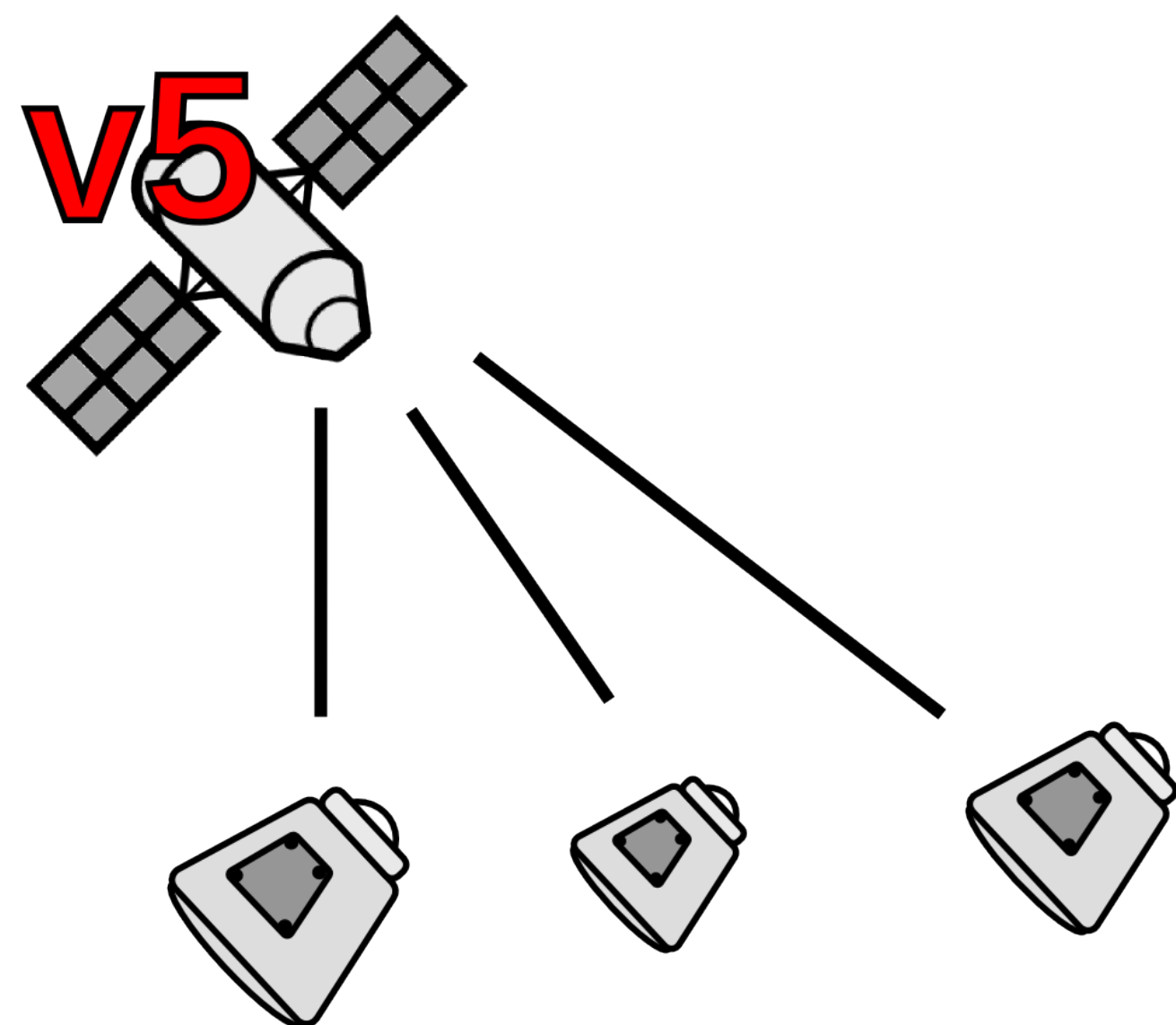
Off-Premise



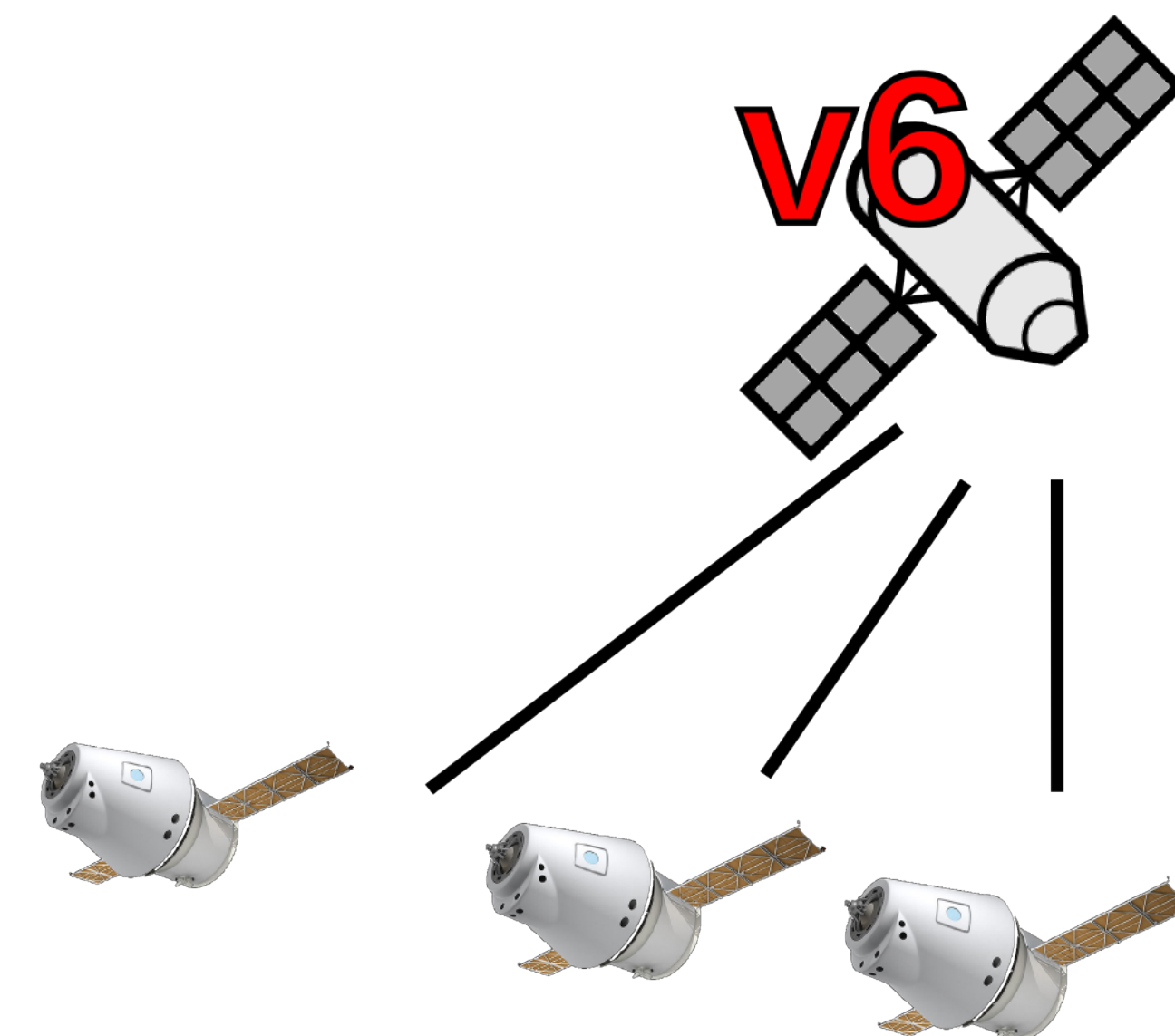
On-Premise







Federation



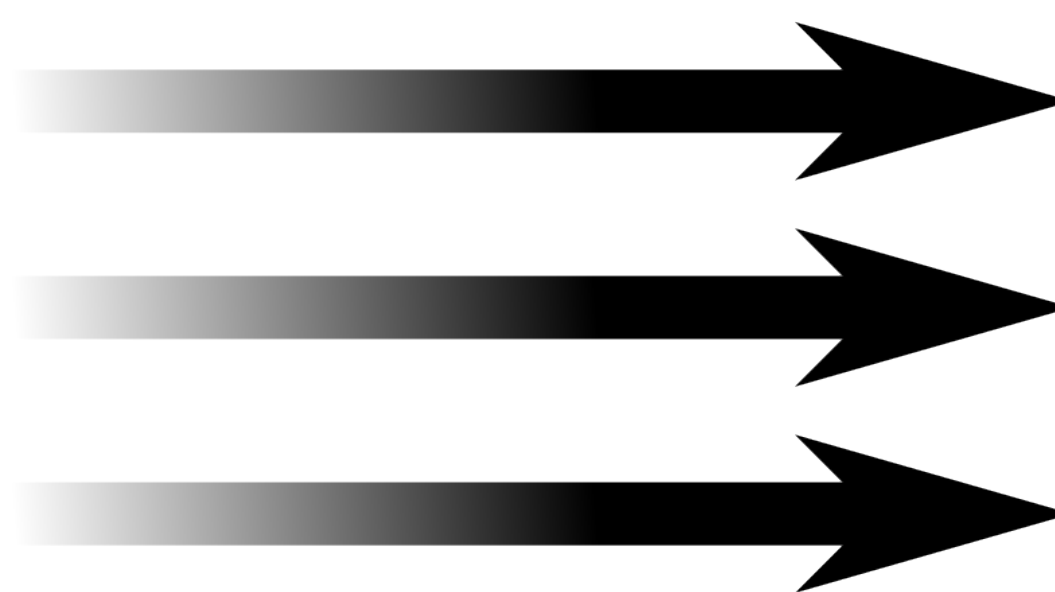
Satellite Proxy

Gateway

Caching

100% SSL top-to-bottom

Network hopping



Satellite Capsule

All that and...

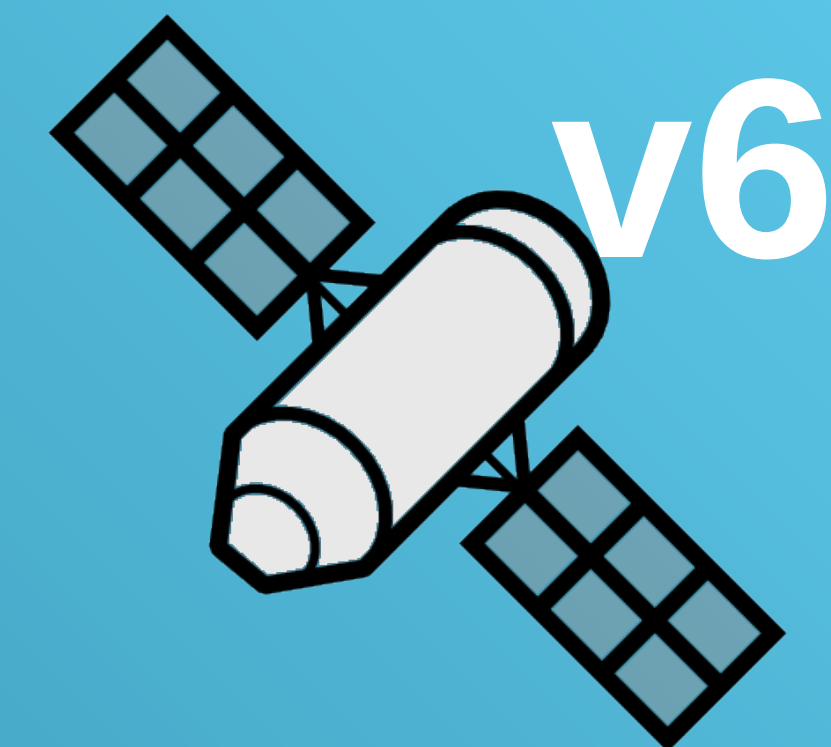
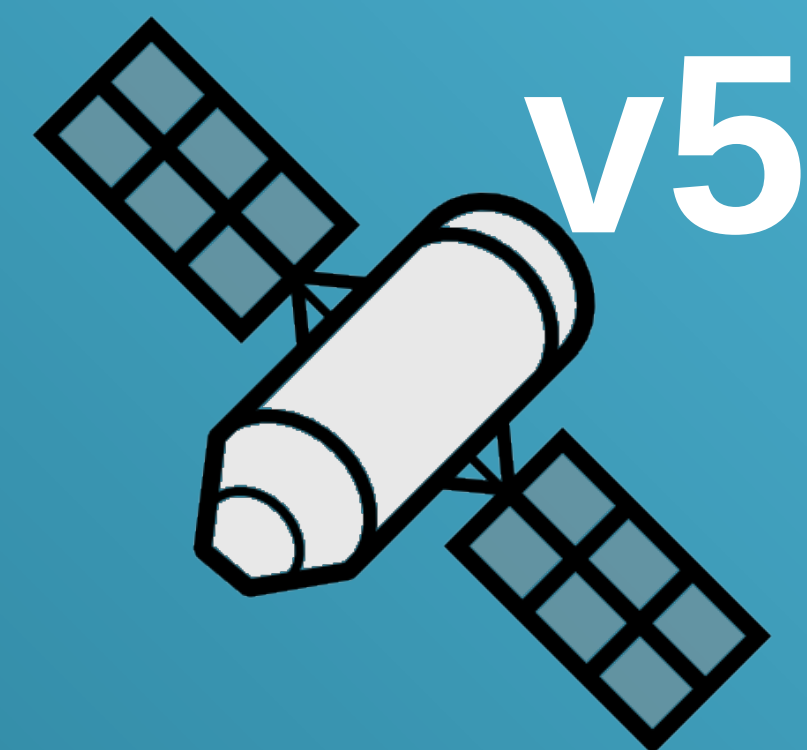
Mirroring: Content, Config,
Environments

Management smarts

Network smarts: DNS, DHCP

RED HAT
SUMMIT

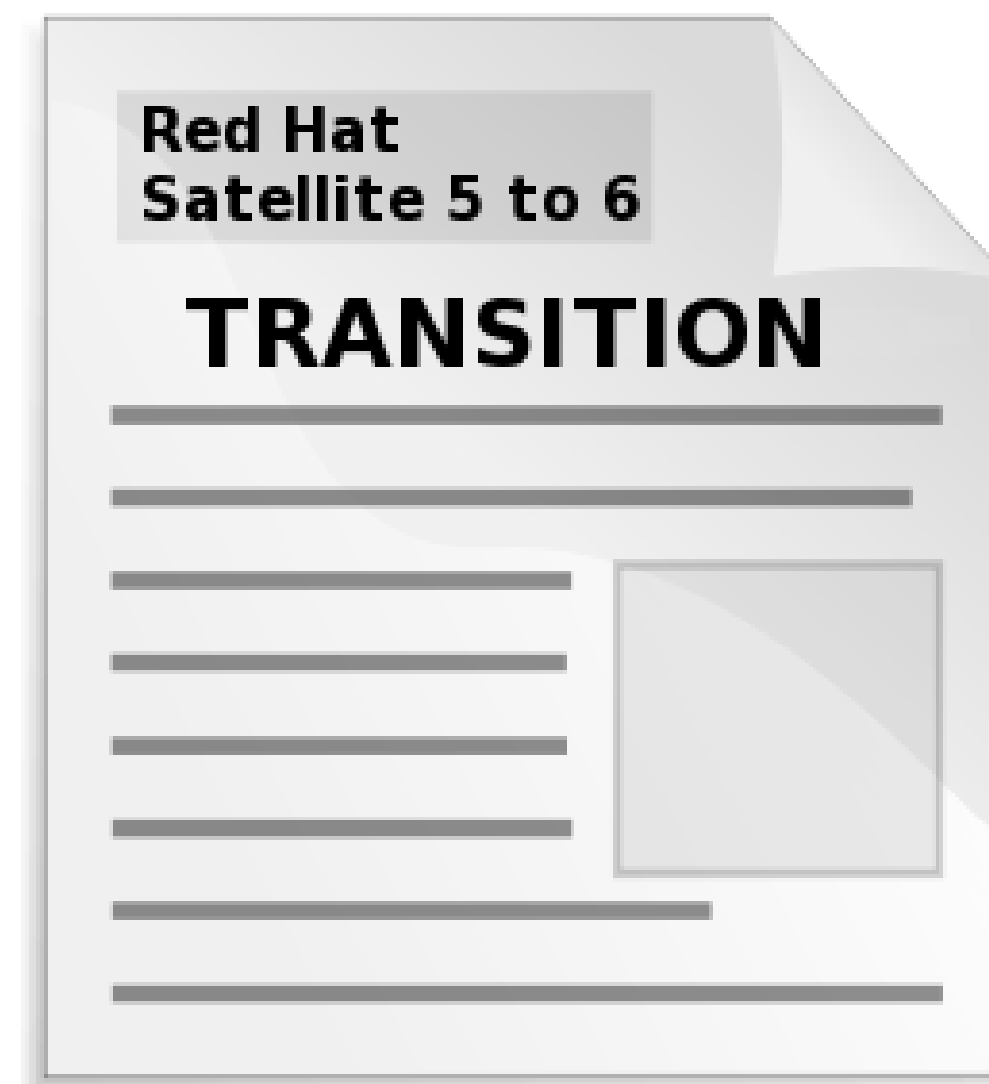
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Red Hat Satellite – *transition*

deliverables and timeline

Transition Enabling Documentation



Best Practice Guides:

- Satellite 5 coreSOE
- Satellite 5 and Puppet
- Satellite 6 coreSOE

Transition Guide

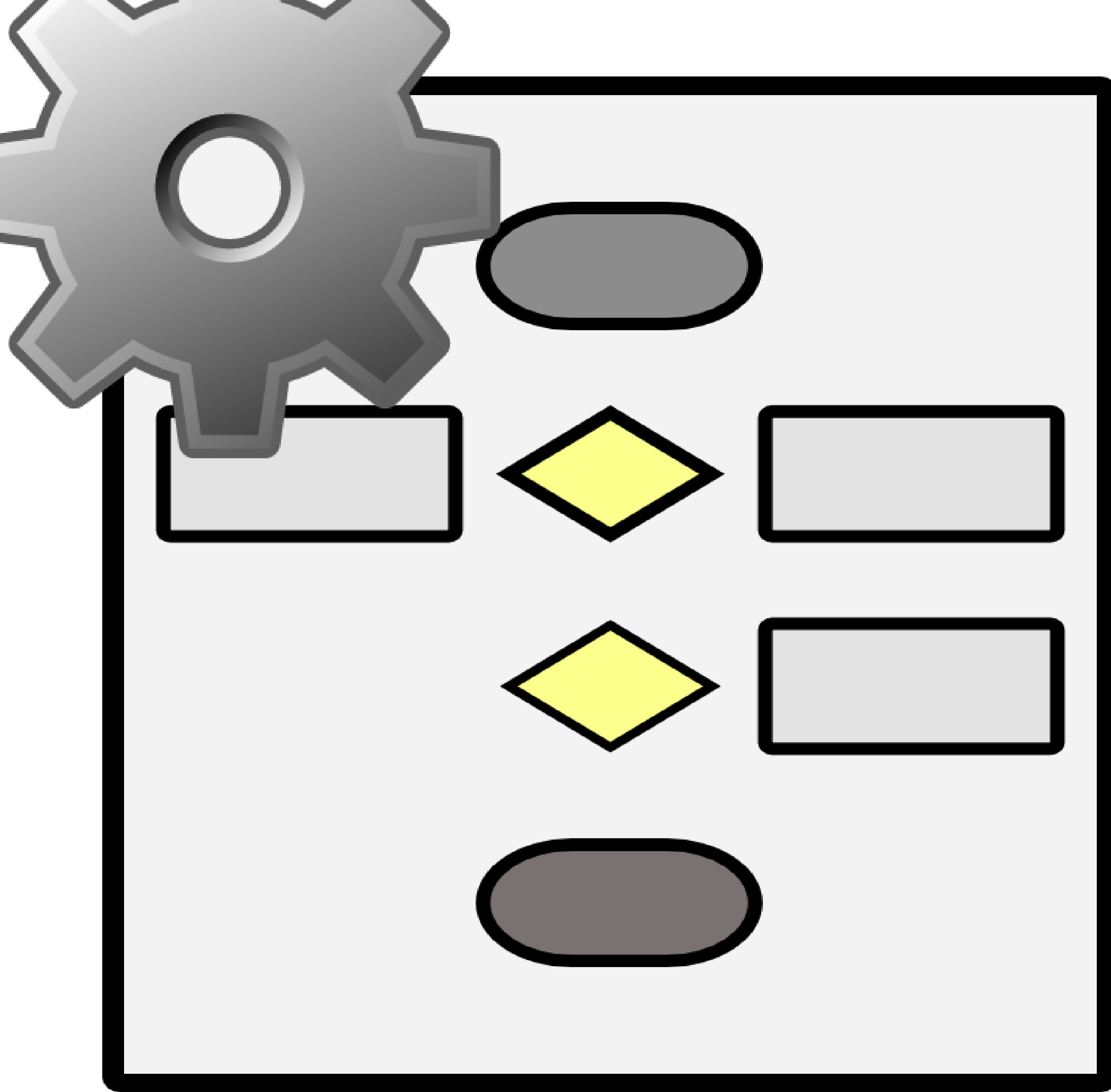
- General Transition Document
- Special Topics: APIs

**Red Hat
Satellite 5 to 6**

TRANSITION

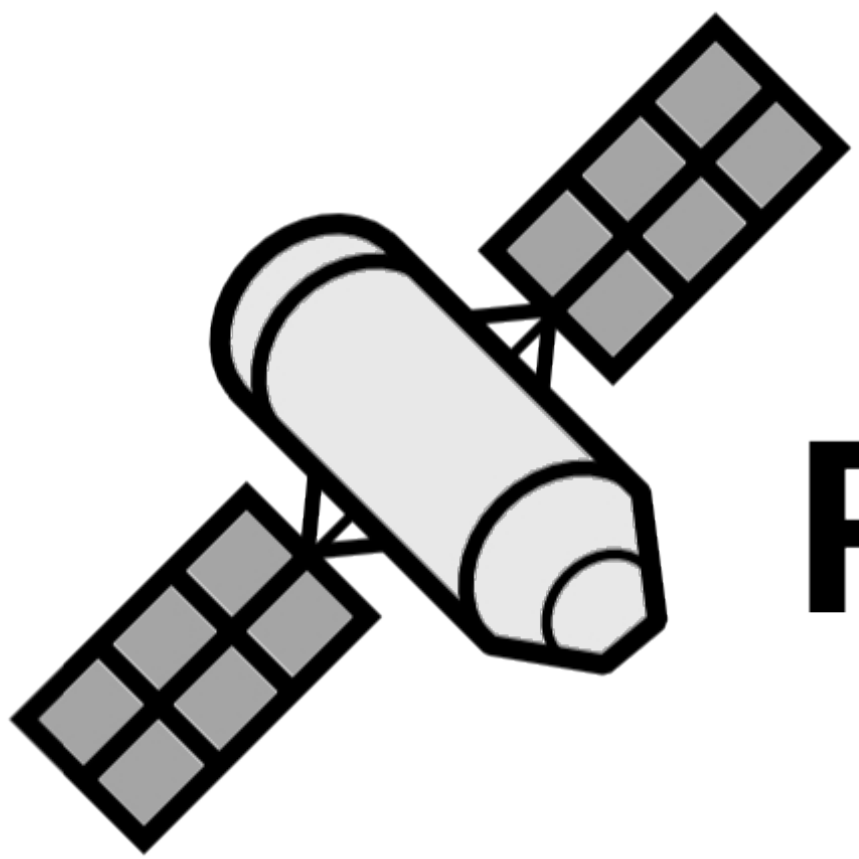
General Transition Best Practice Documentation ...describes a Process

- side-by-side Satellites
- steps to transition
- decommissioning and archiving

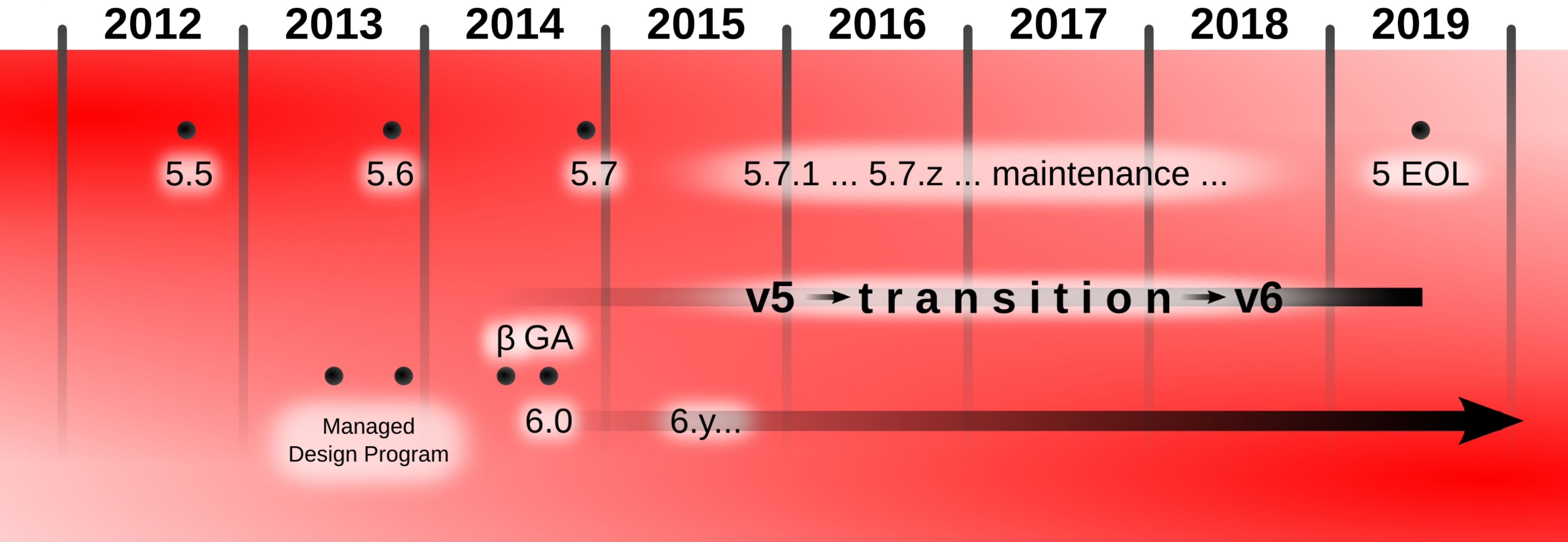


Tooling will be provided

- reduce tedious labor
- assist with conversion introspection and guidance

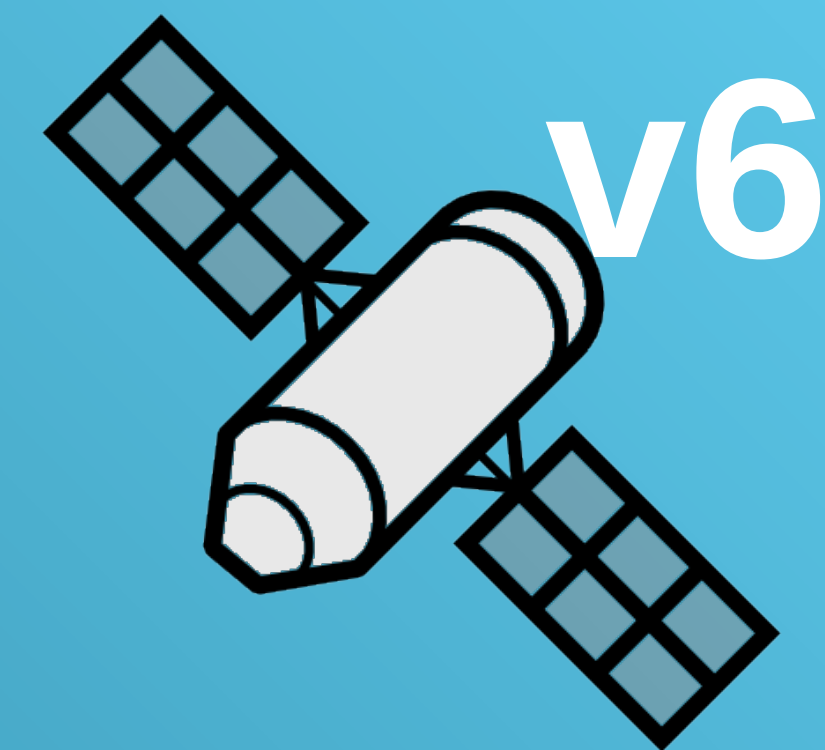
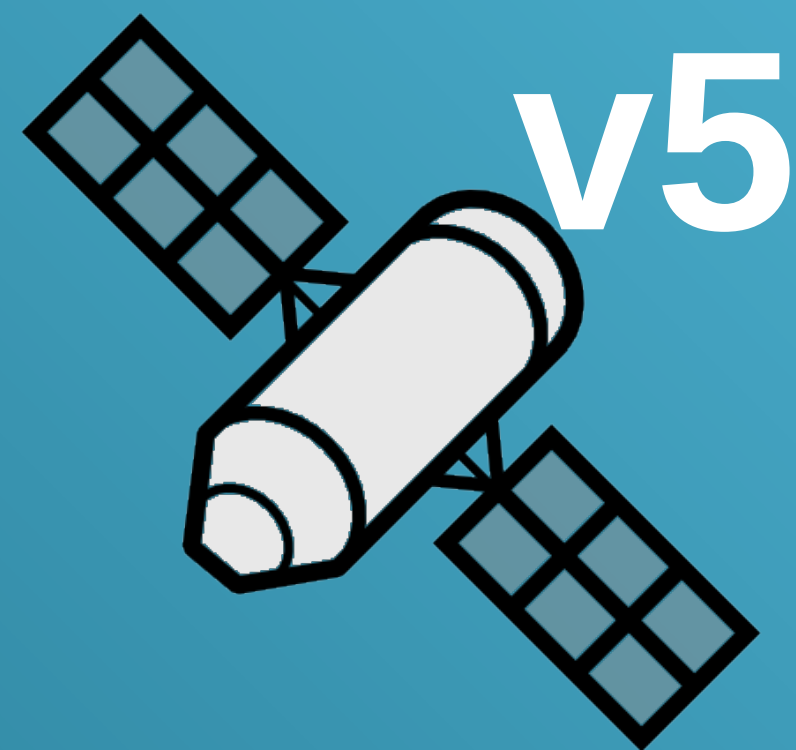


Red Hat Satellite Release Plan



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SUMMIT

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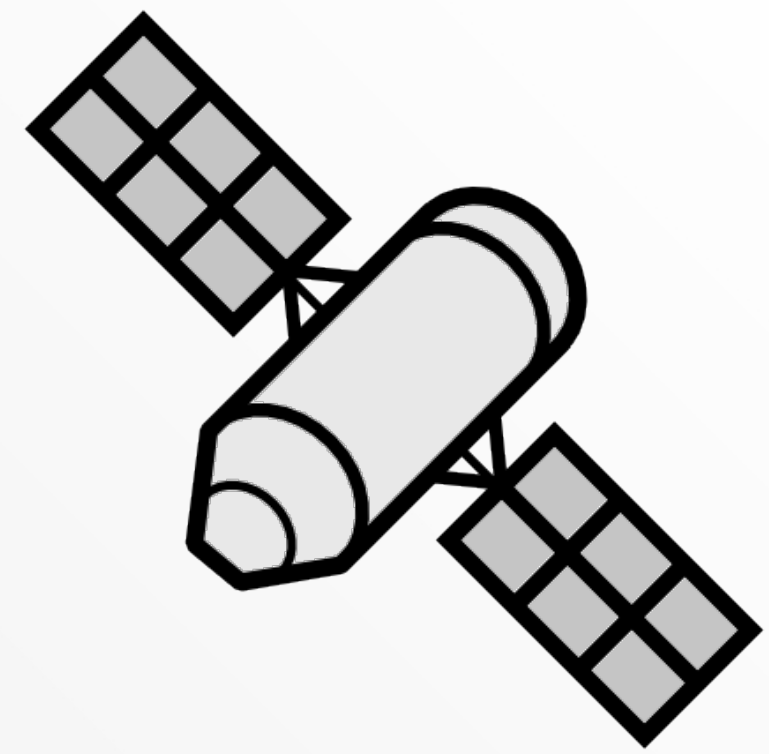


Red Hat Satellite – *transition*

high level process

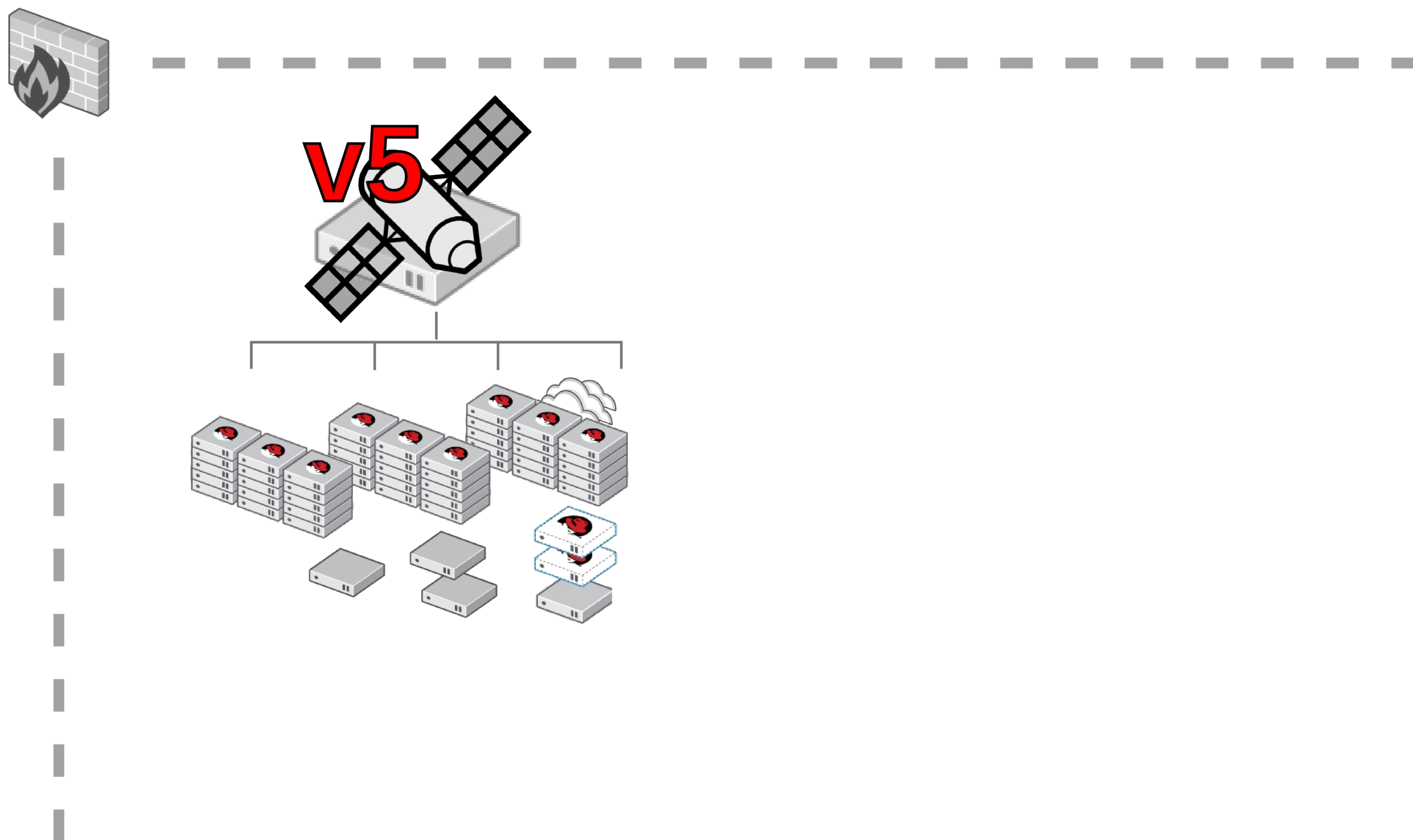


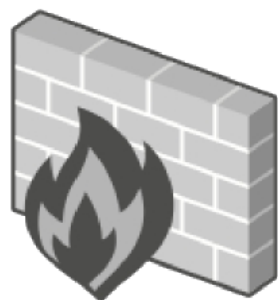
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Red Hat Satellite - *transition*

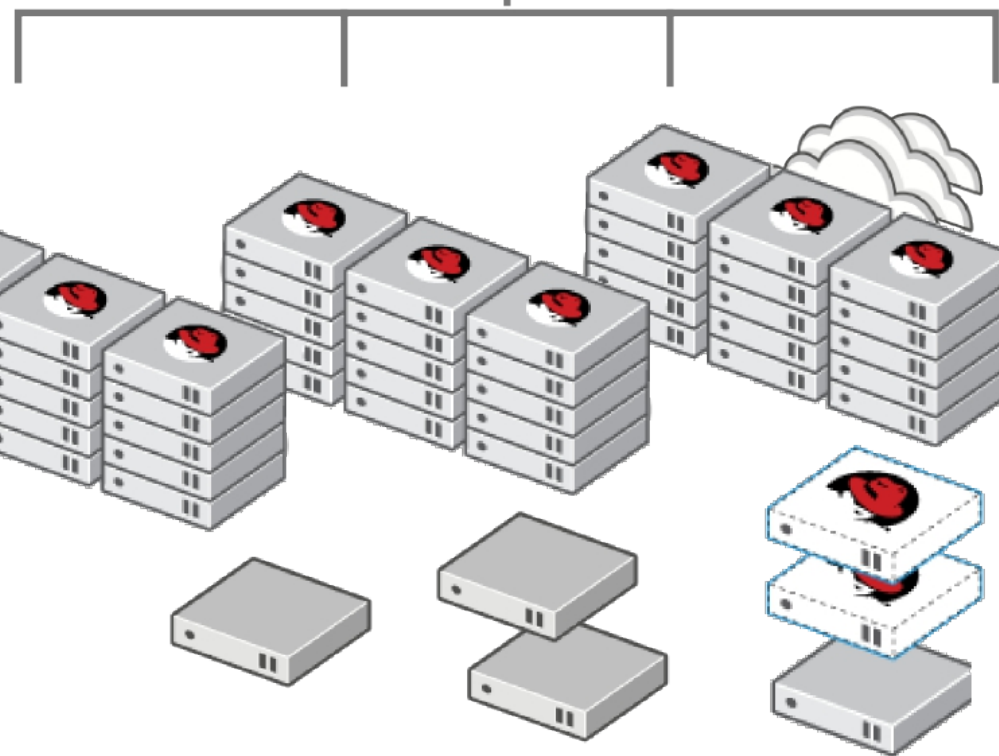
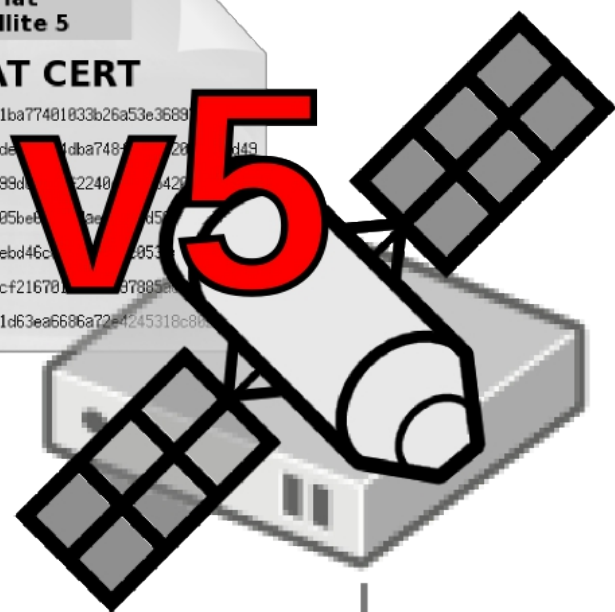
Side-by-side install
...and mirror high-level organizational objects and users



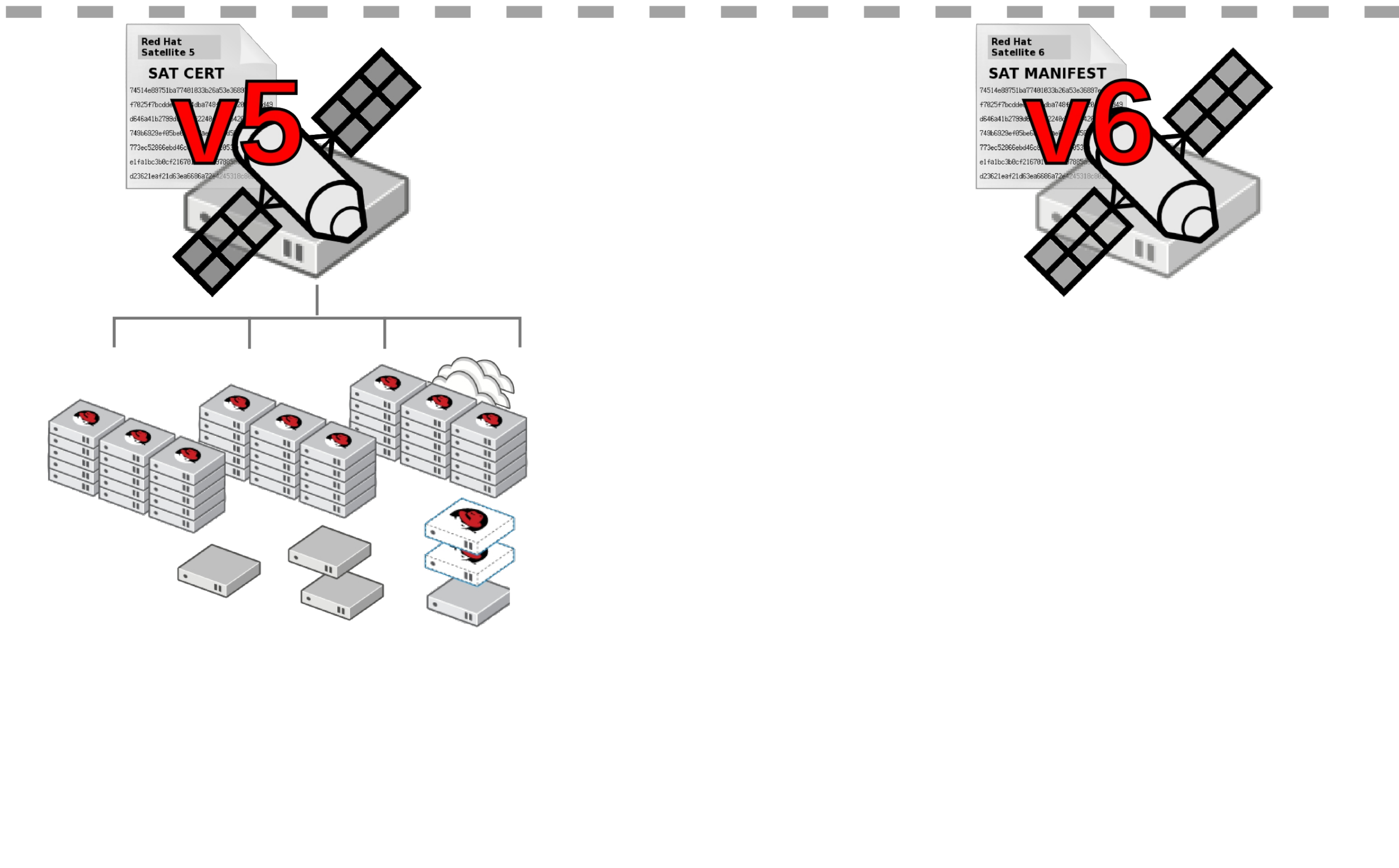
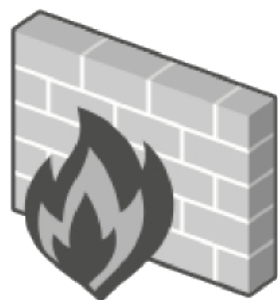


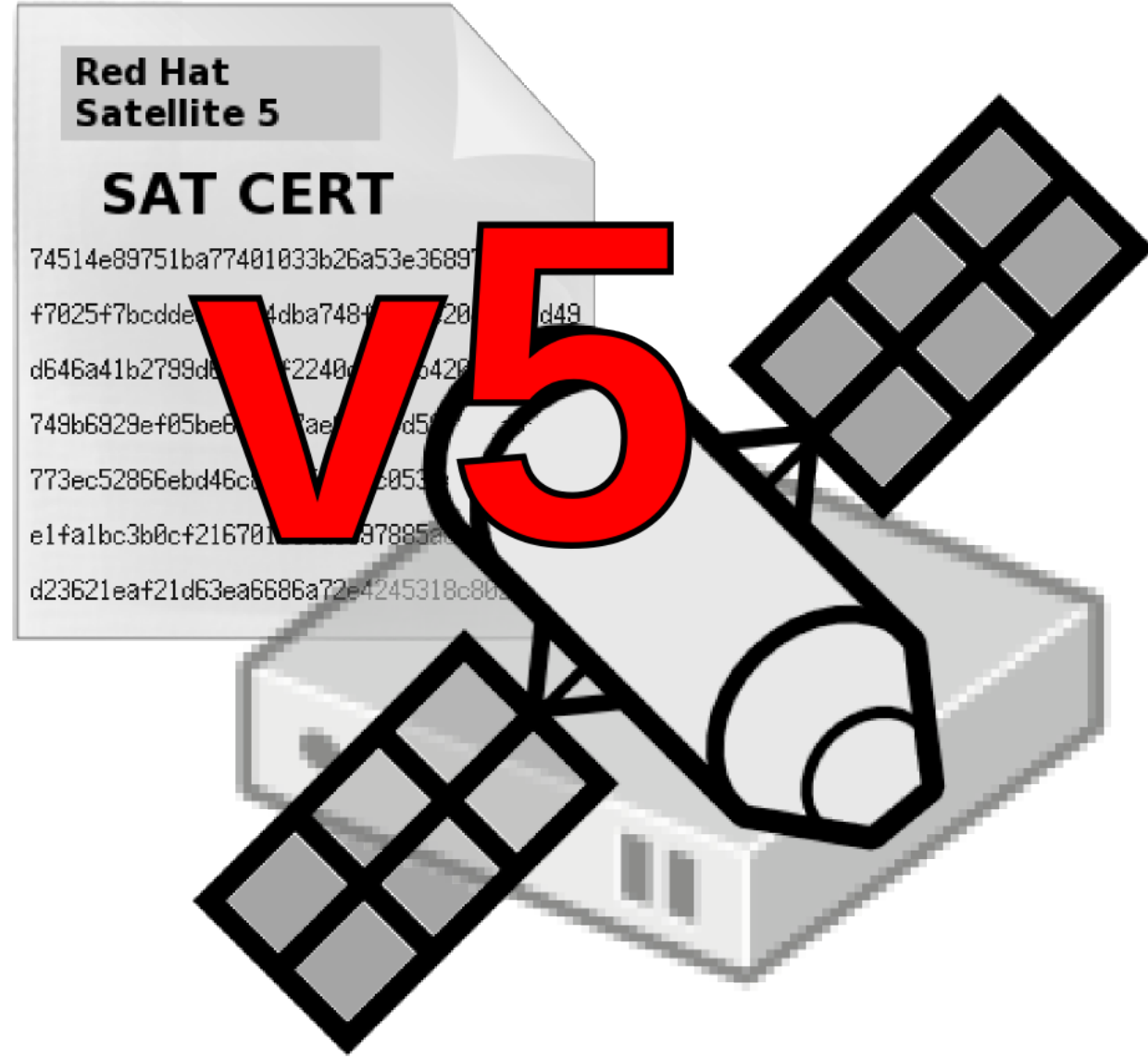
Red Hat
Satellite 5
SAT CERT
74514e89751ba77491833b26a53e3689
f7025f7bcdde9bd14dba748fed2ee2048395d49
d646a41b2789d6ae6af2249d11a8b420a598916e
749b6929ef05be60c307ae63a24d59f0015d9577
773ec52066ebd46c972357ea8c053d4408344d6a
e1fa1bc3b0cf2167011c5ac697895a89b64e0f5
d23621eaf21d63ea6686a72e4245318c8024c7ec

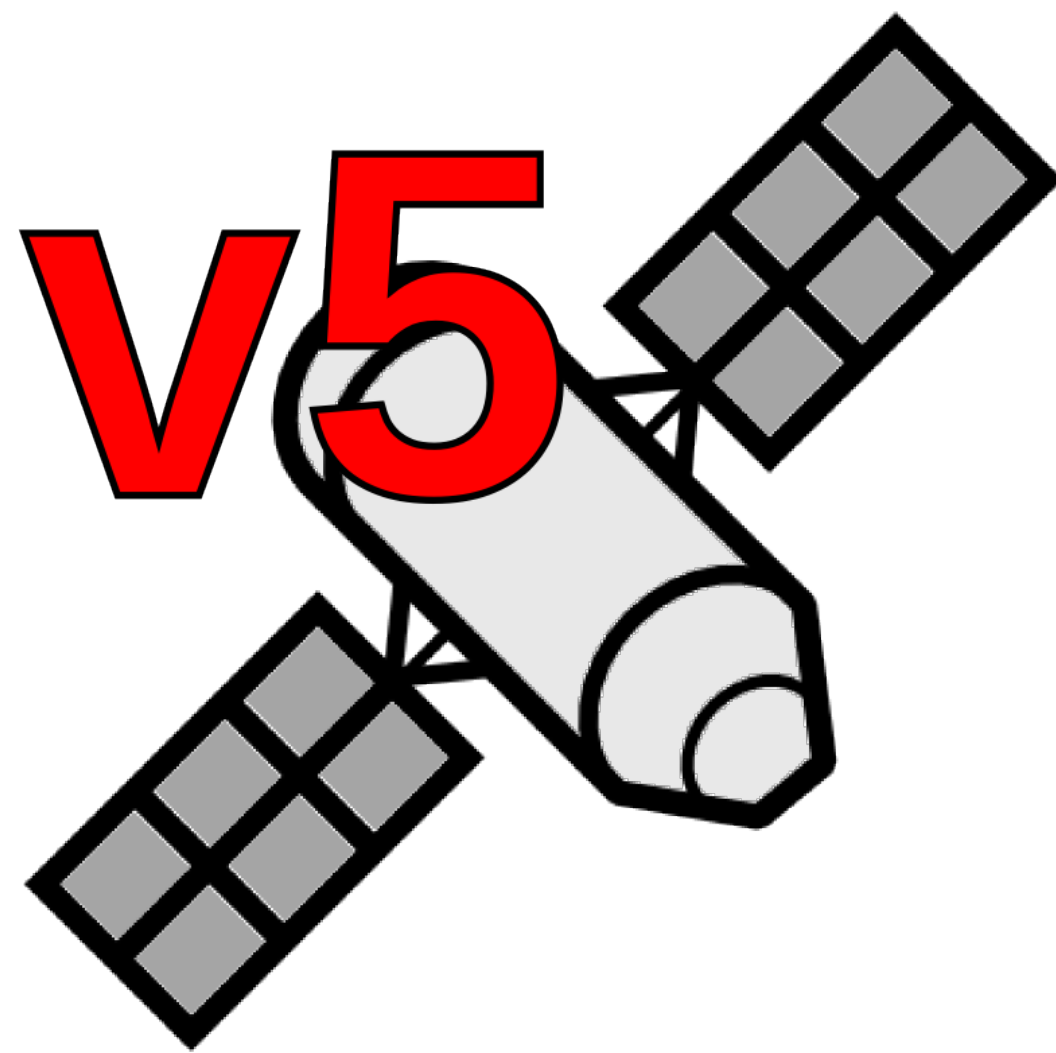
V5

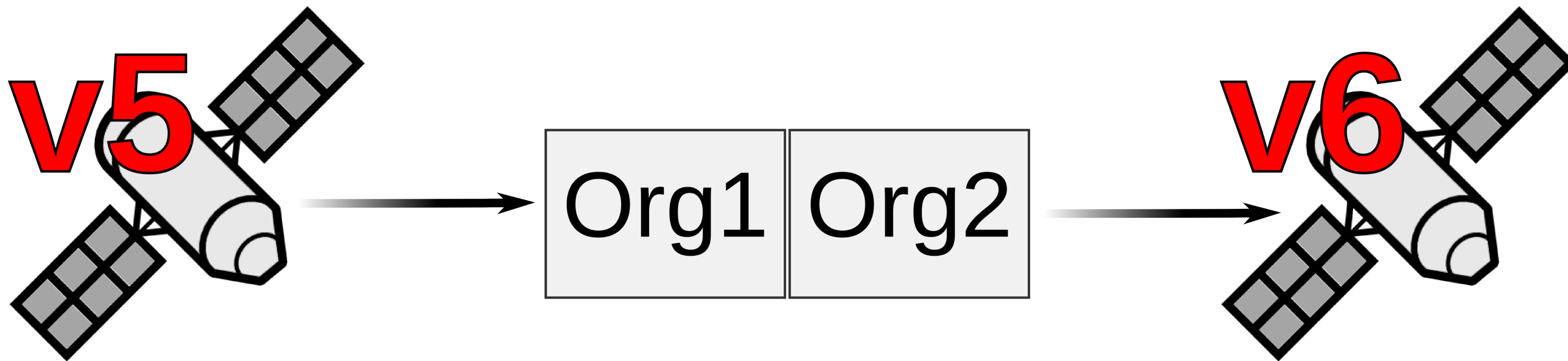


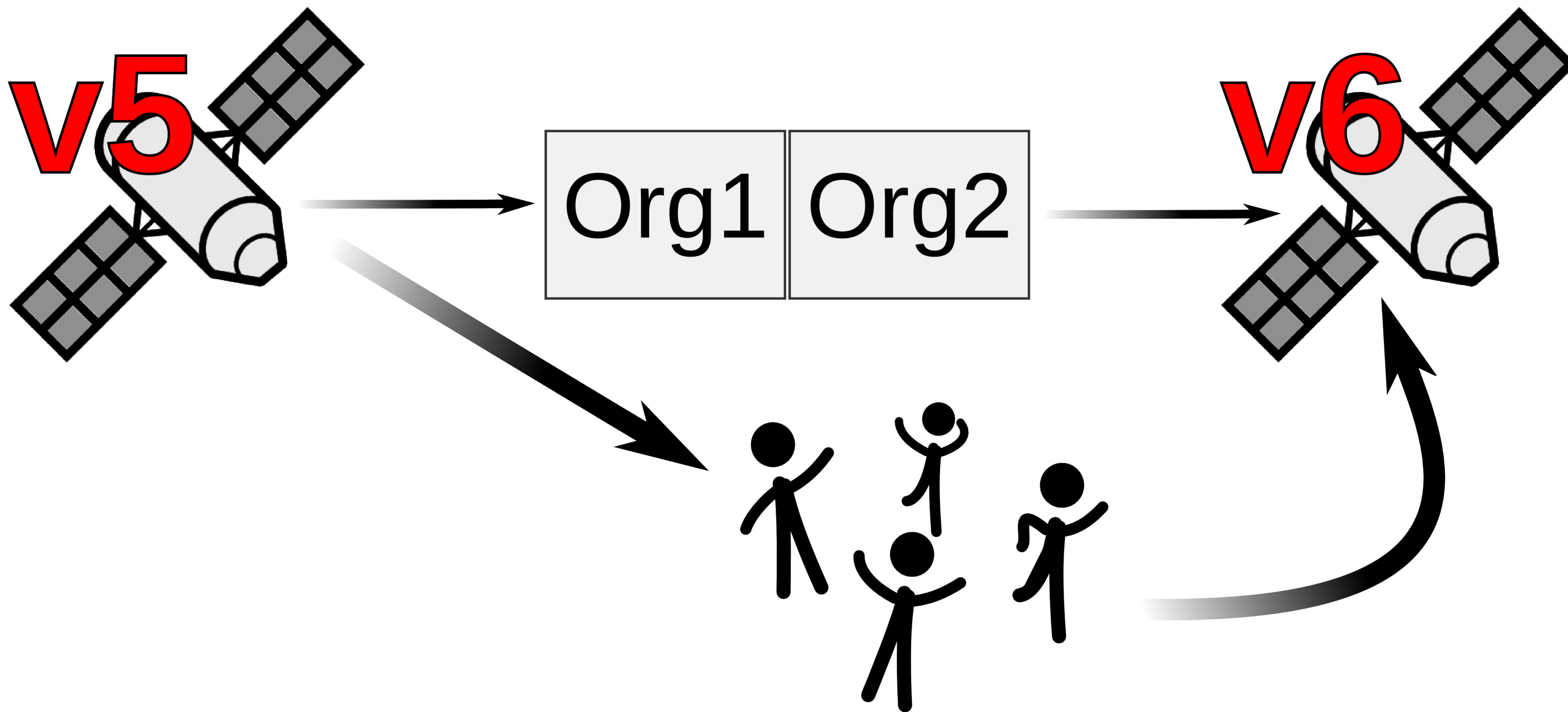
Red Hat
Satellite 6
SAT MANIFEST
74514e89751ba77491833b26a53e36897ec8f7fc
f7025f7bcdde9bd14dba748fed2ee2048395d49
d646a41b2789d6ae6af2249d11a8b420a598916e
749b6929ef05be60c307ae63a24d59f0015d9577
773ec52066ebd46c972357ea8c053d4408344d6a
e1fa1bc3b0cf2167011c5ac697895a89b64e0f5
d23621eaf21d63ea6686a72e4245318c8024c7ec





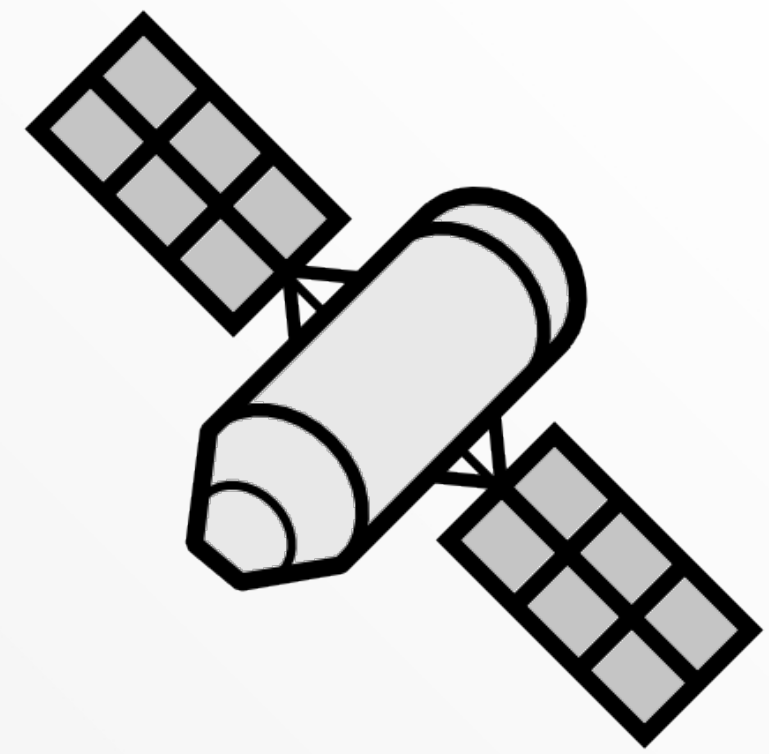








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Red Hat Satellite – *transition*

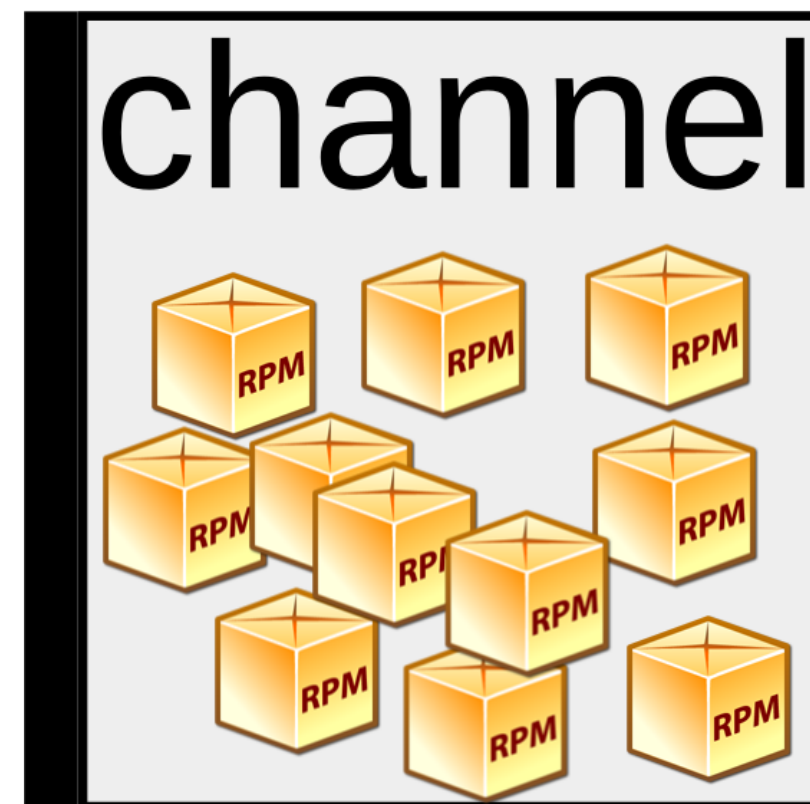
Satellite 5: Channels, clones of channels
...and Satellite 6 views

Red Hat Satellite 5: Cloned Channels are COPIES

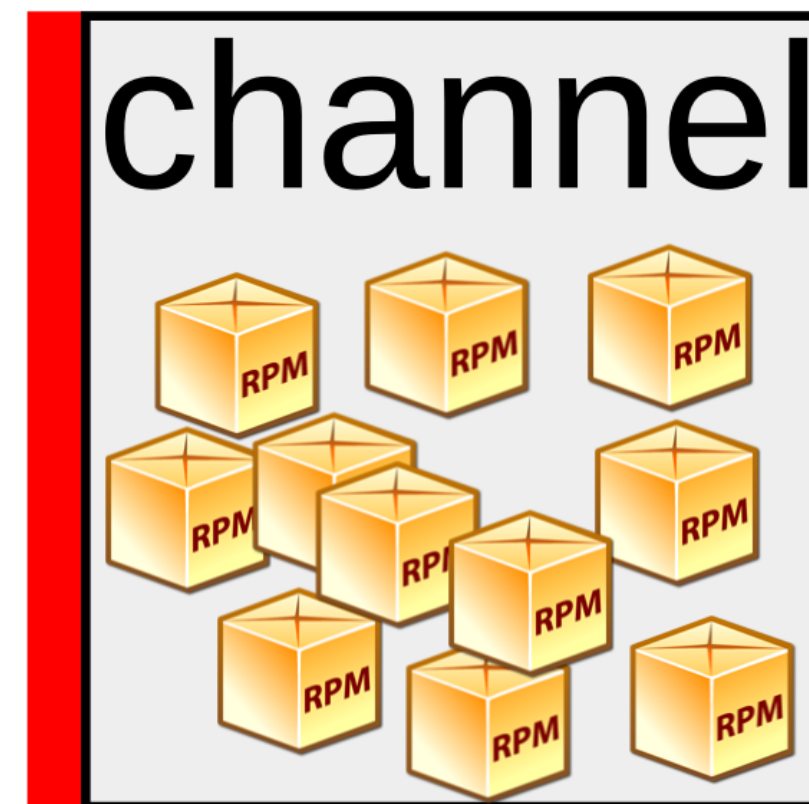
Independent of each other and a bit expensive.

You have to carefully track your changes and there is little relationship to the original

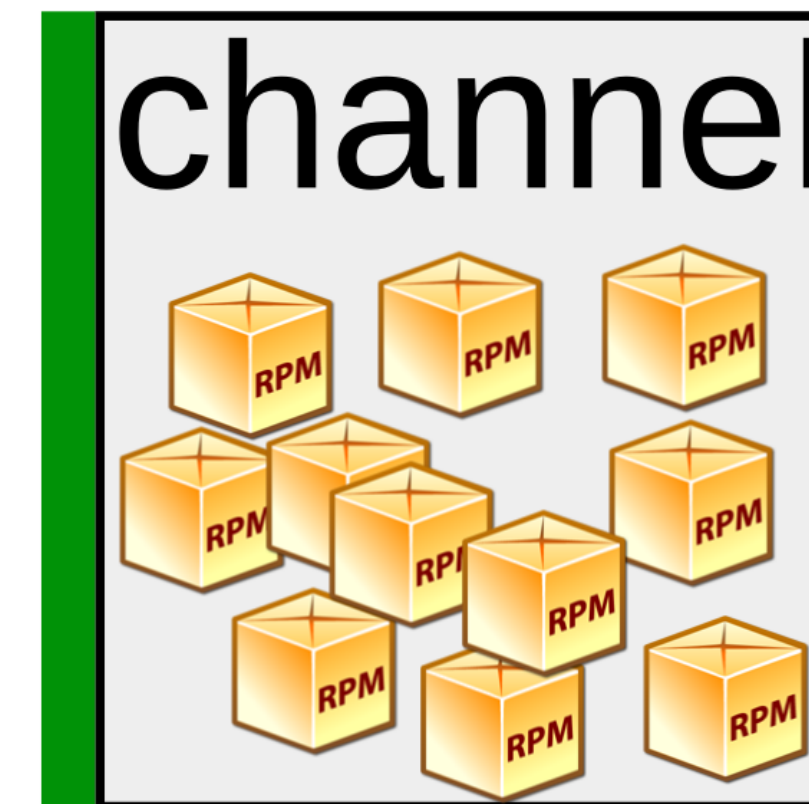
Original



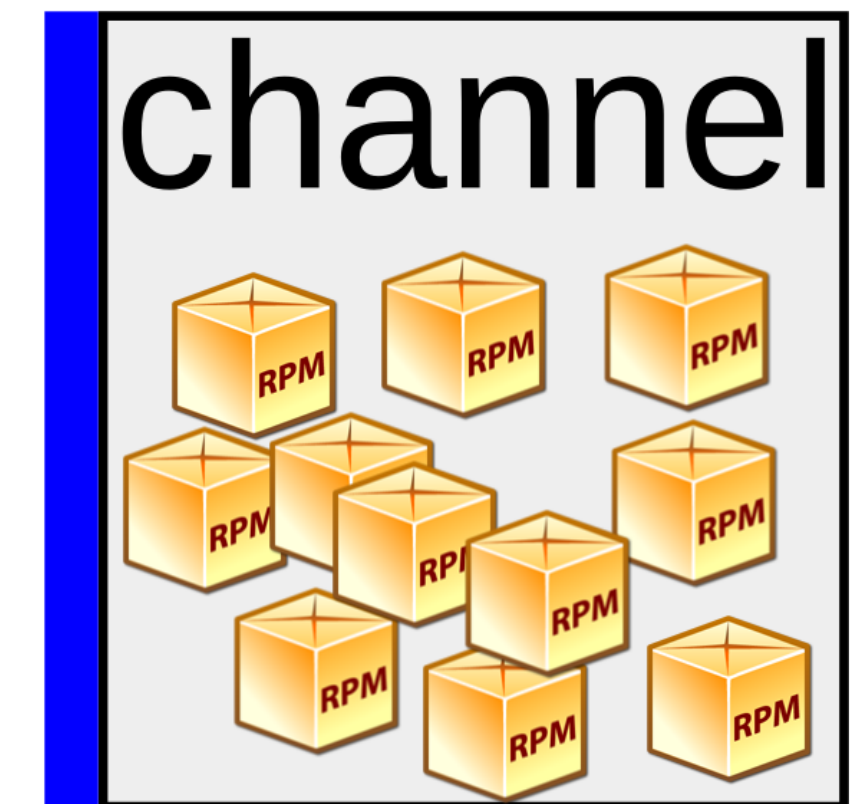
Clone



Clone



Clone

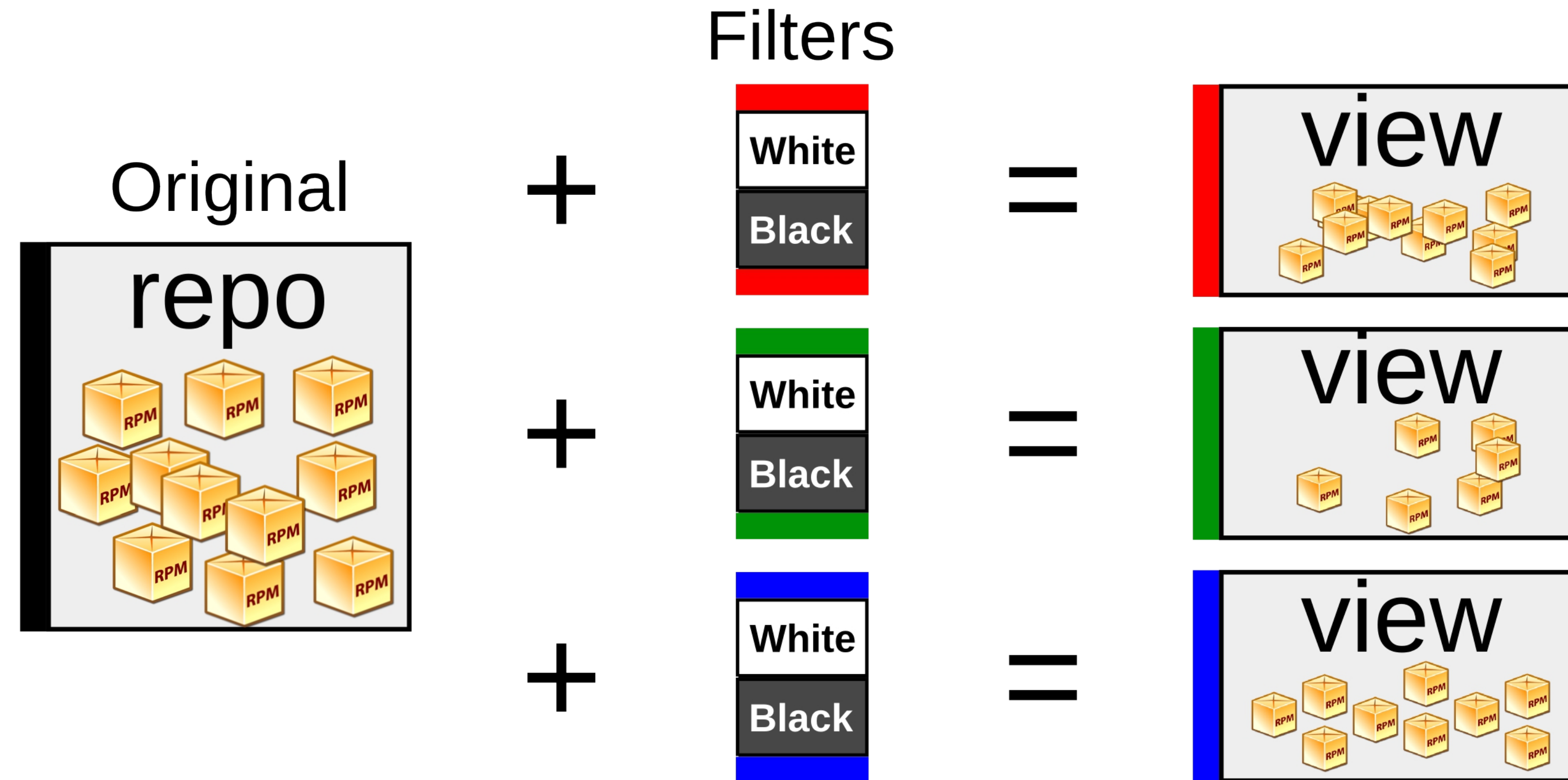


Red Hat Satellite 6: Content Views are VIEWS

Effectively Content Views are SPINs of a repository.

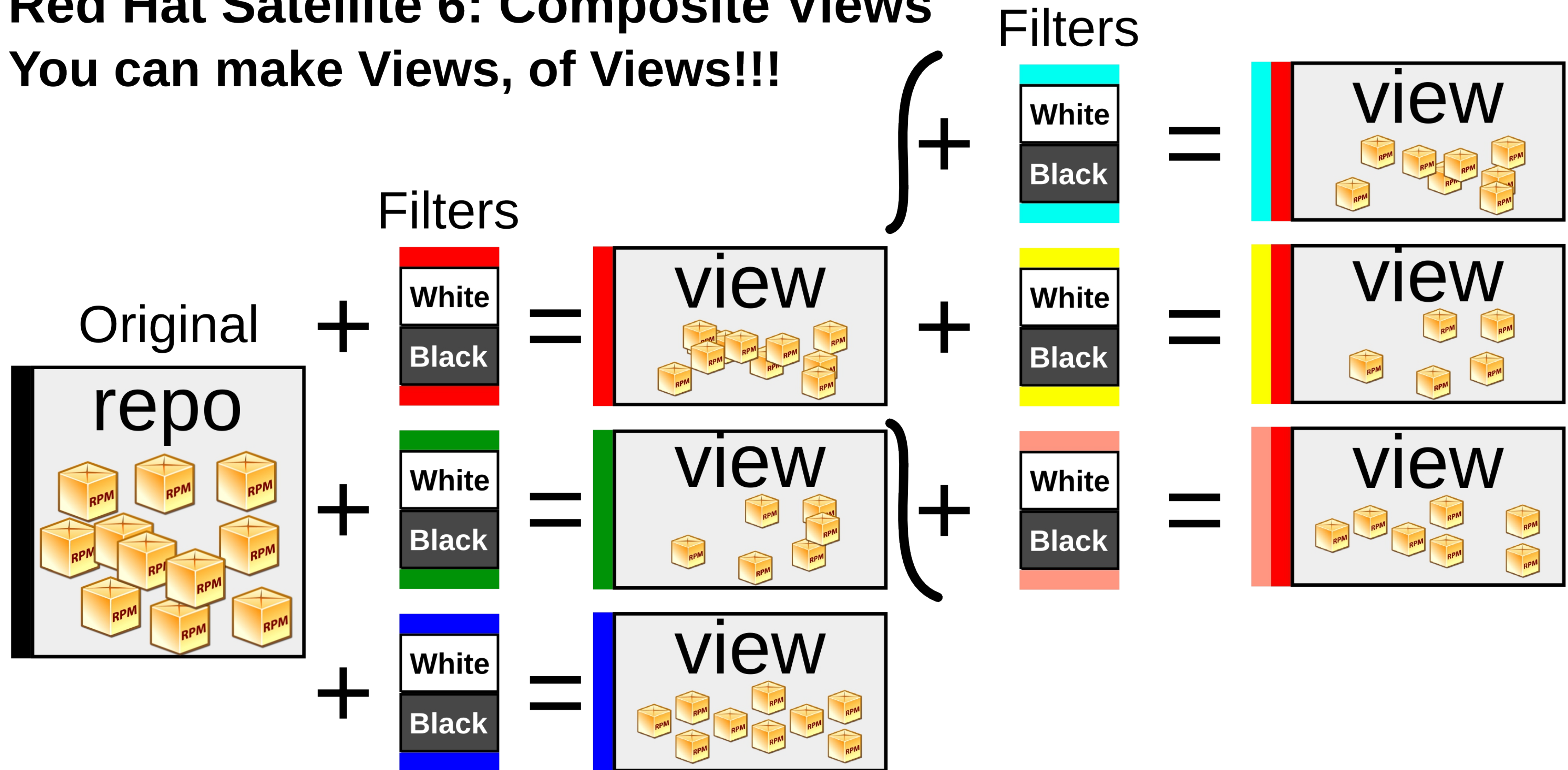
Filter = Whiteline + Blacklist --- View = Repository with Filter applied.

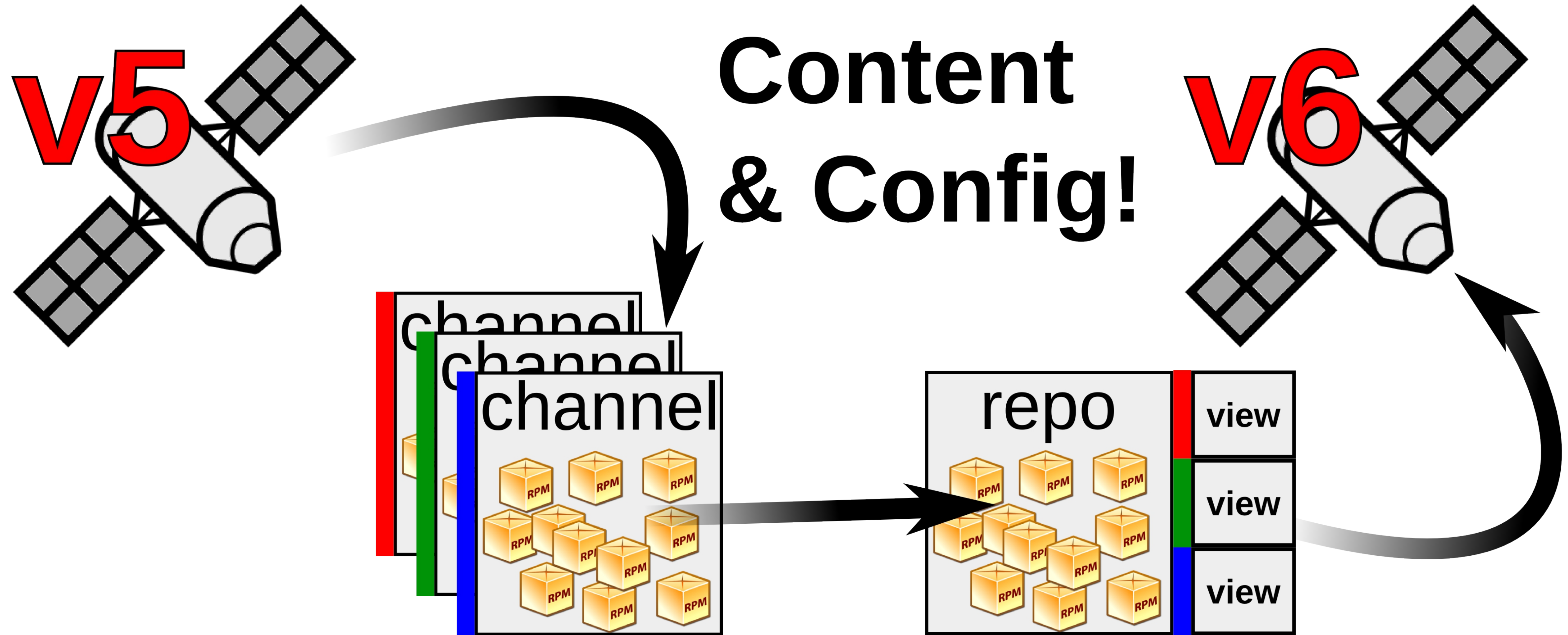
Many spins of one repo instead of copy after copy.

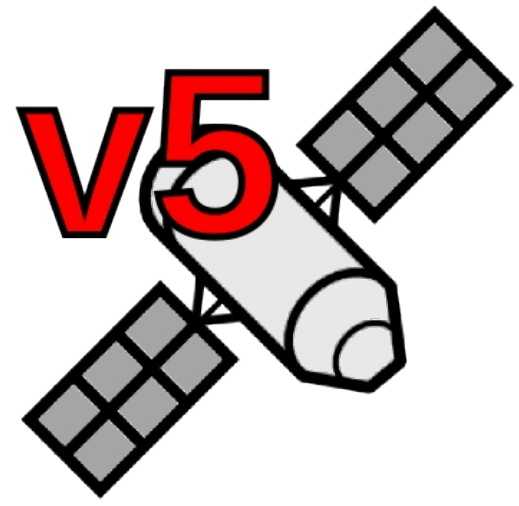


Red Hat Satellite 6: Composite Views

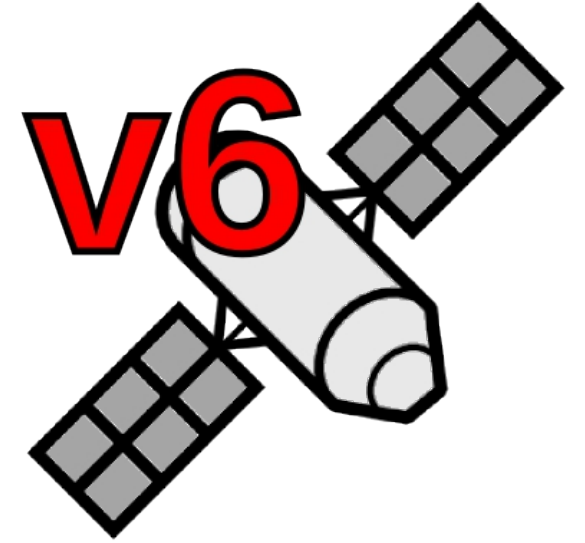
You can make Views, of Views!!!



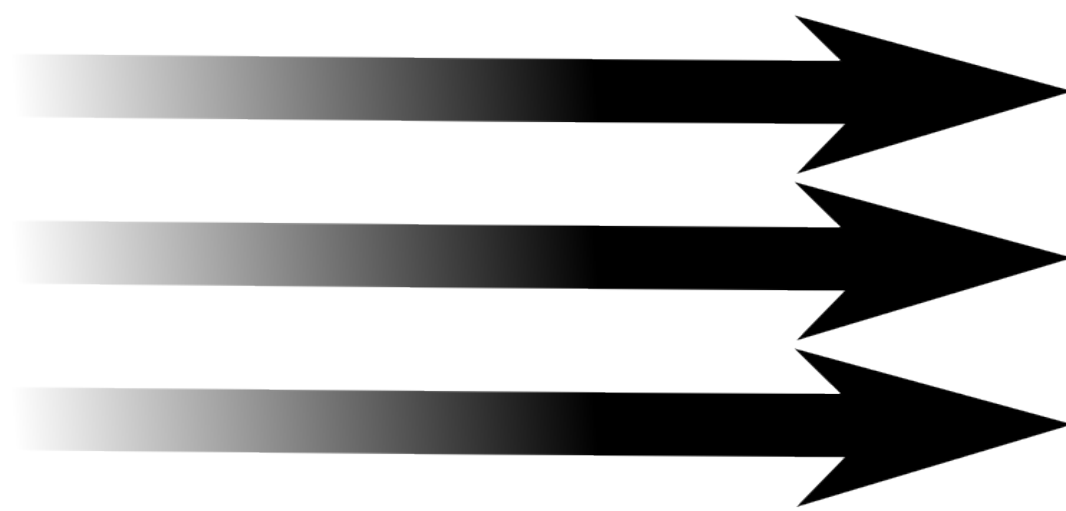




Configuration



Key1 : Value1
Key2 : Value2
Key3 : Value3
Key3 : Value3



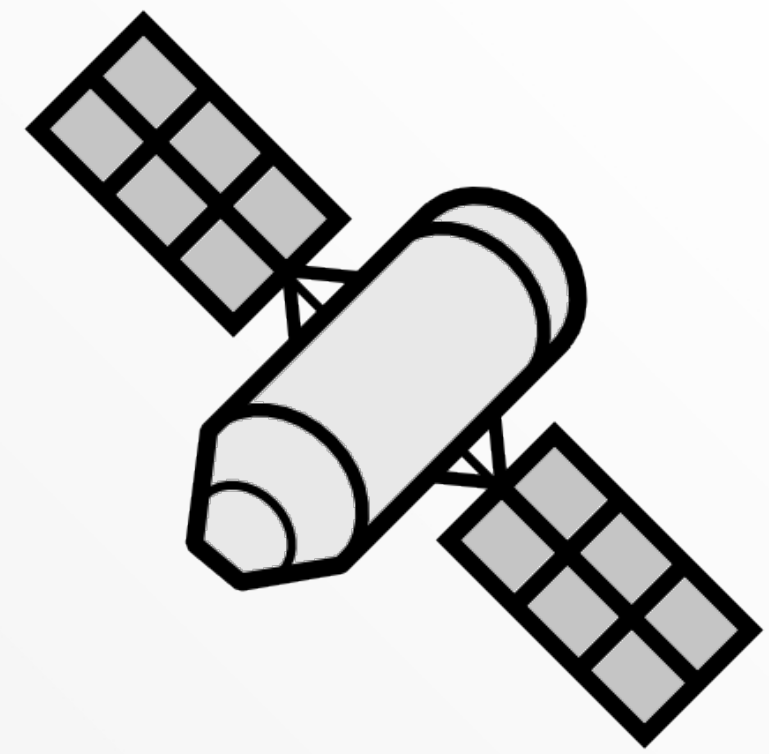
If this,
Then that,
Dependent on <X>

Preheat oven at 350°F for 20 minutes



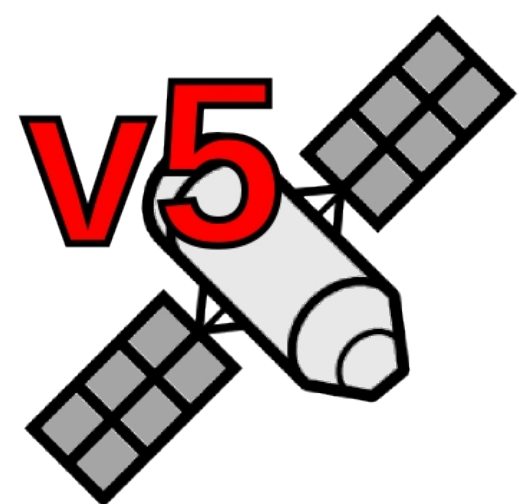


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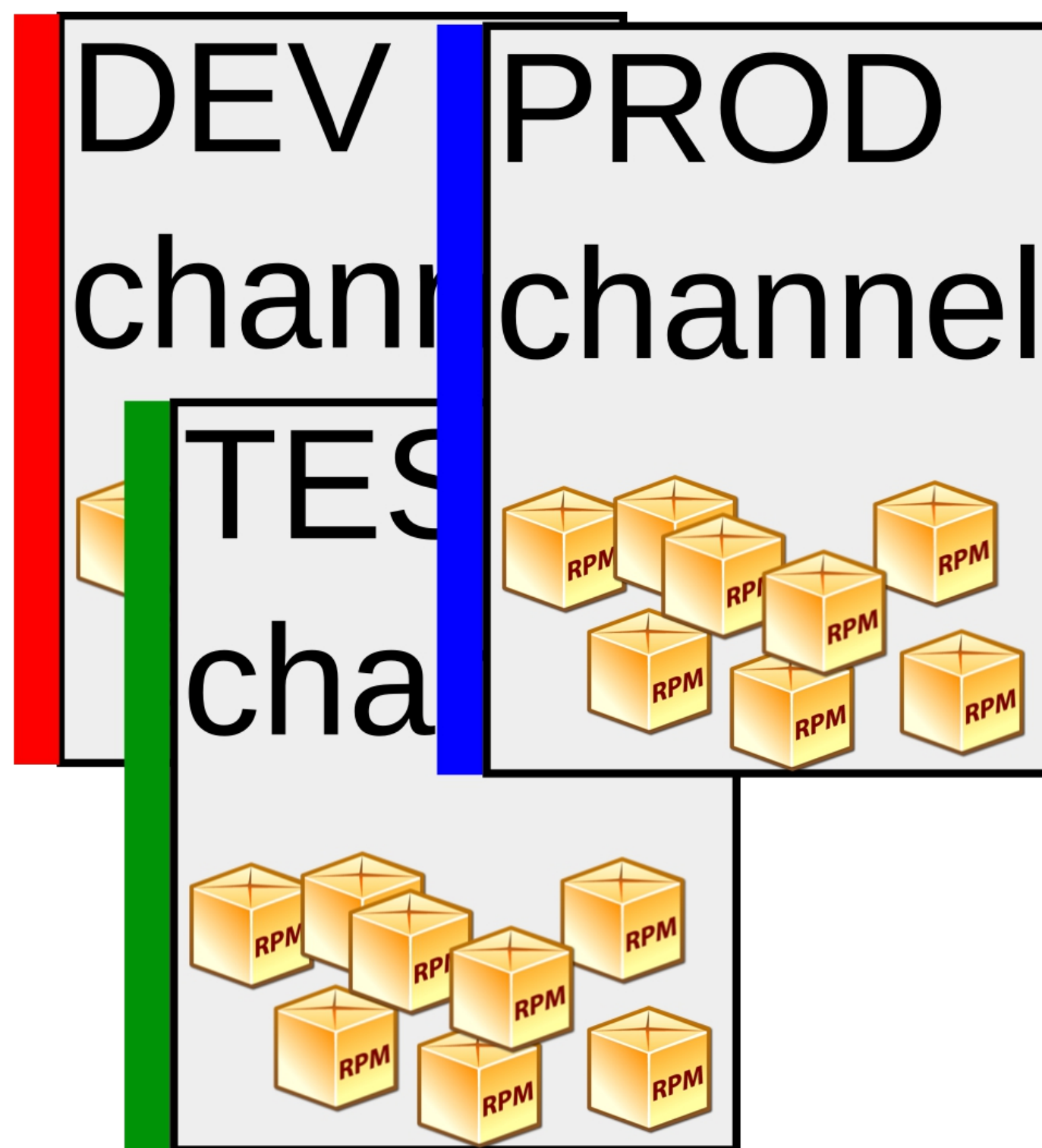
Red Hat Satellite – *transition*

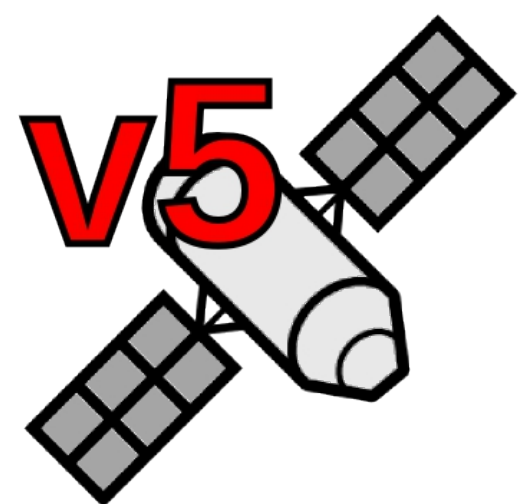
Satellite 5 life cycle via labeling schemes
...and Satellite 6 environments and paths



Labeling
(a bit tedious)

Life cycle

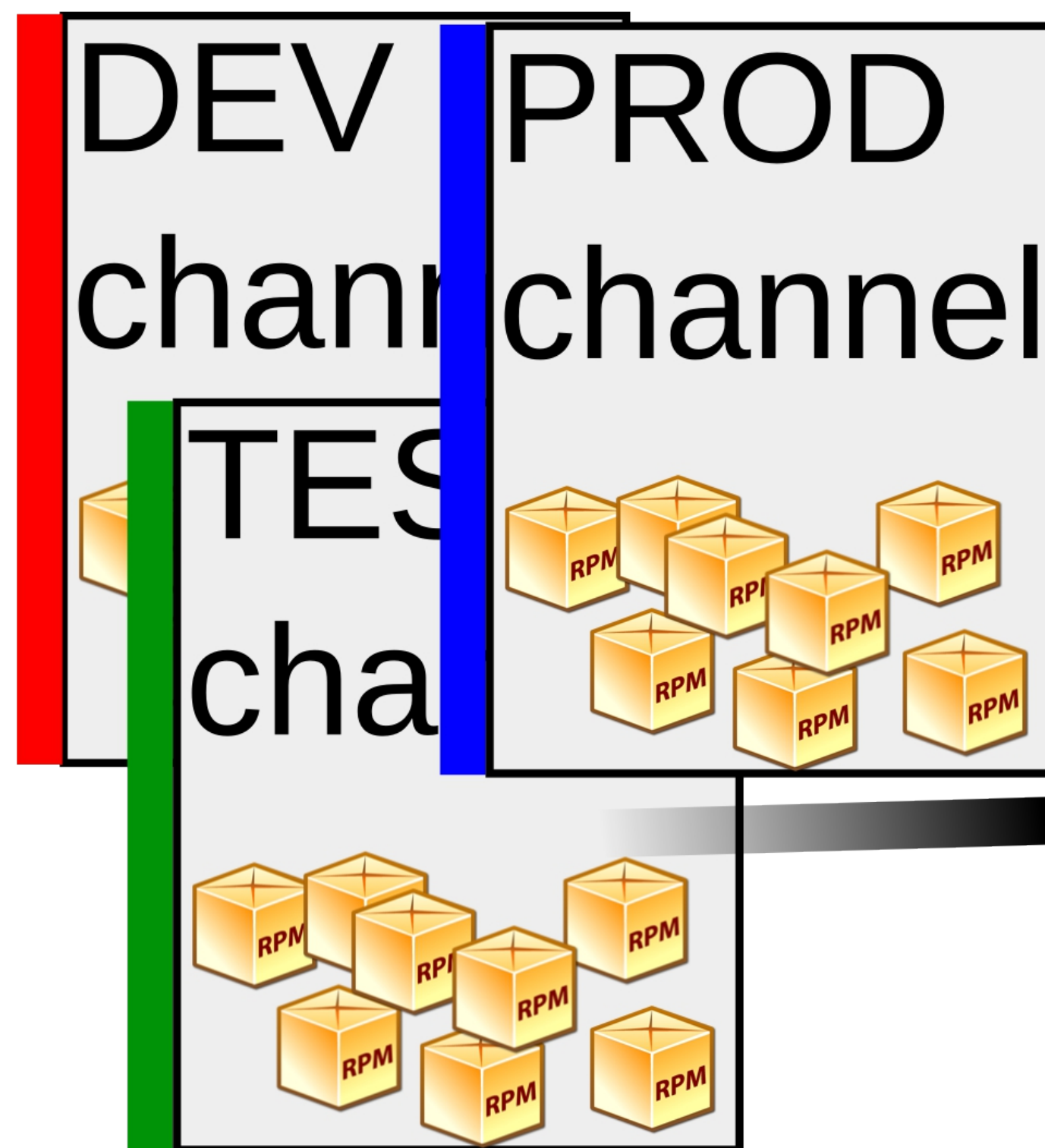




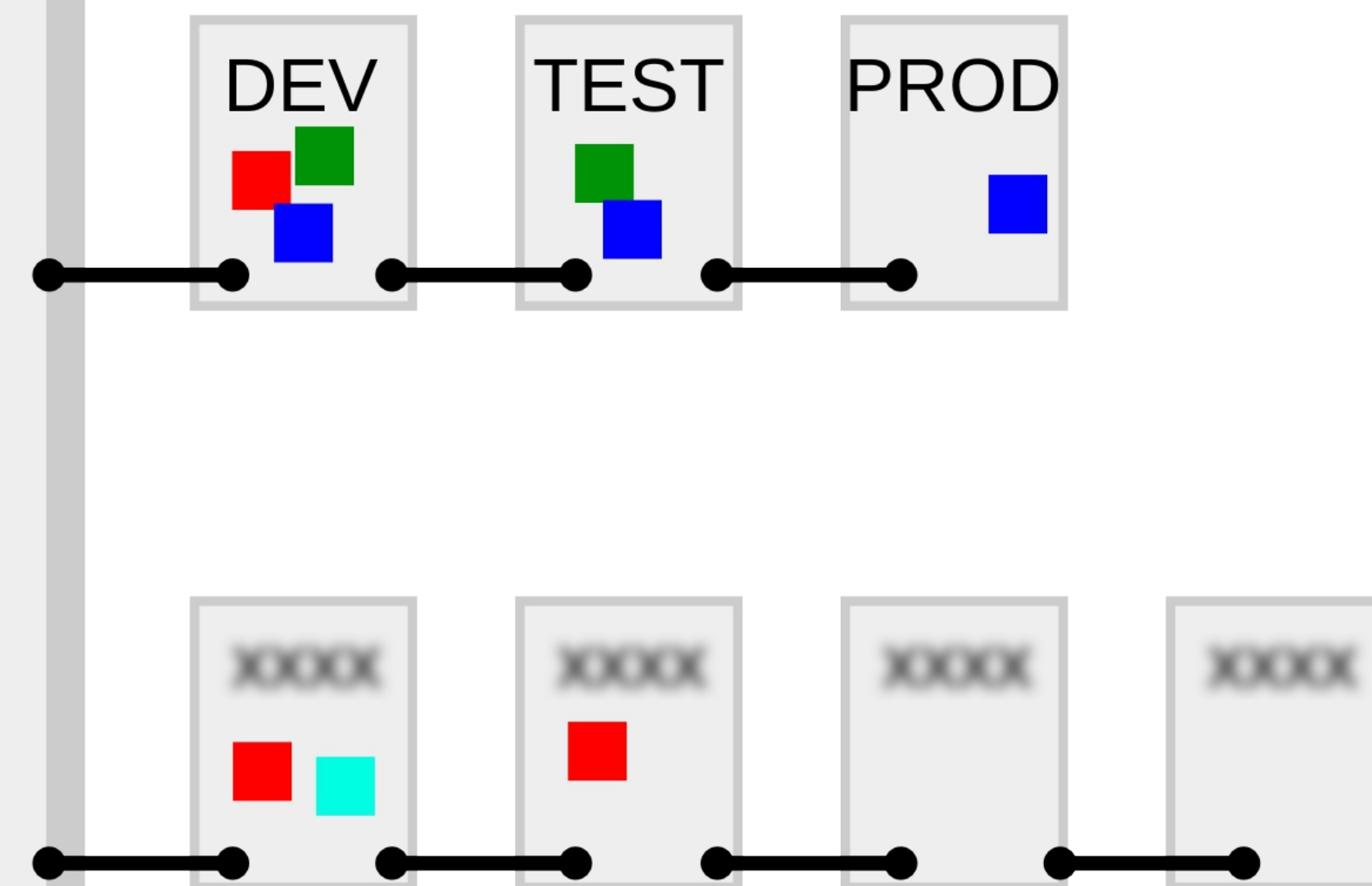
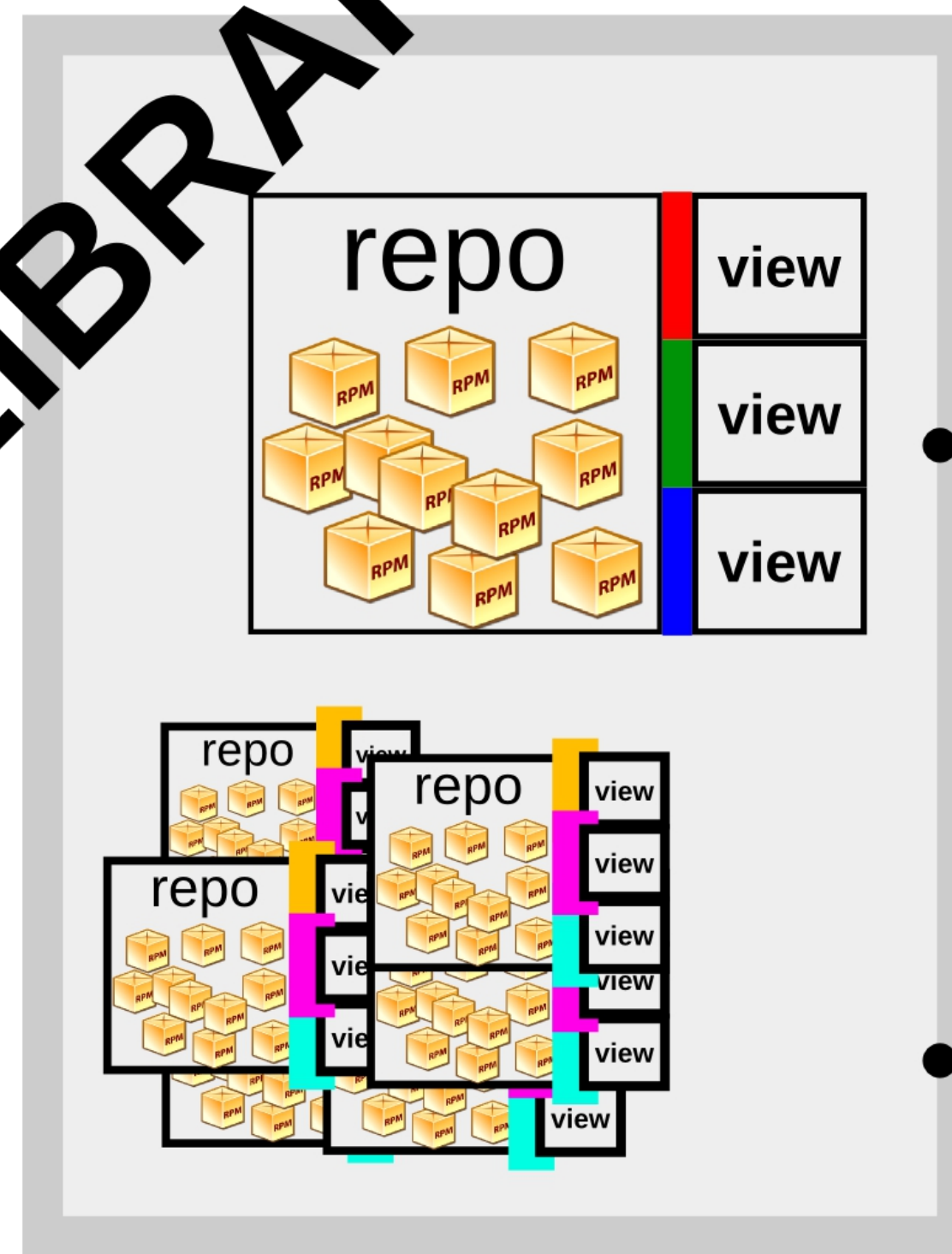
Labeling
(a bit tedious)

Life cycle

Environments
(life cycle built in!)

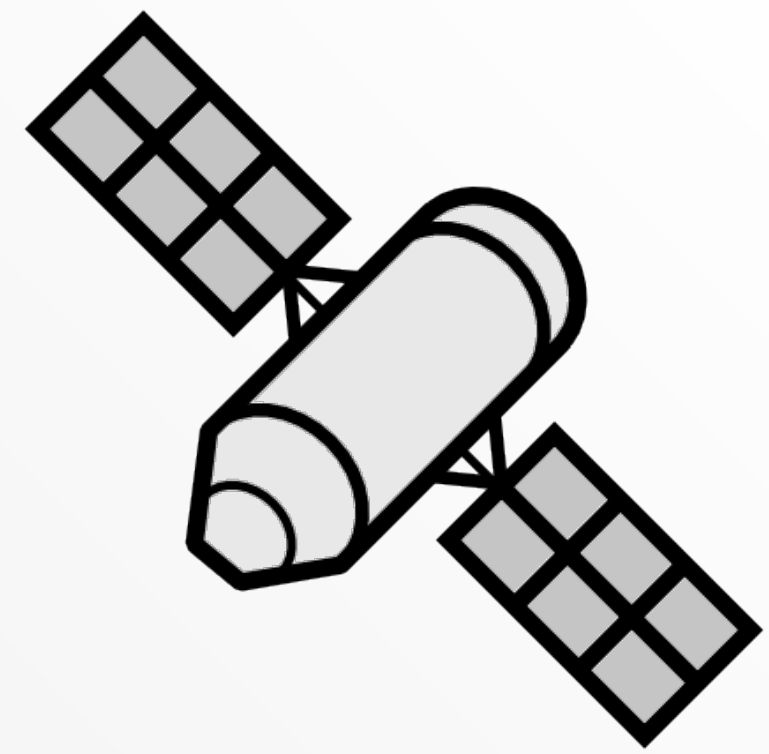


LIBRARY



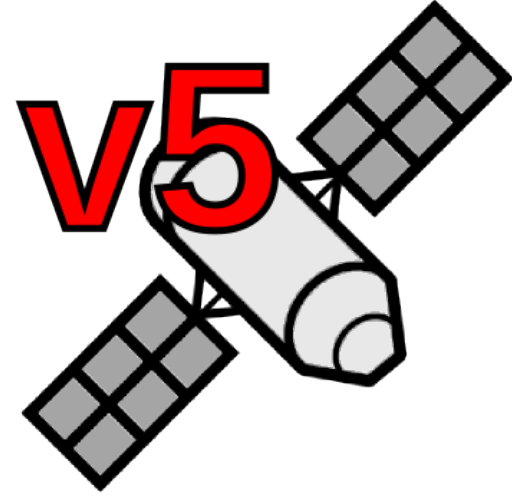


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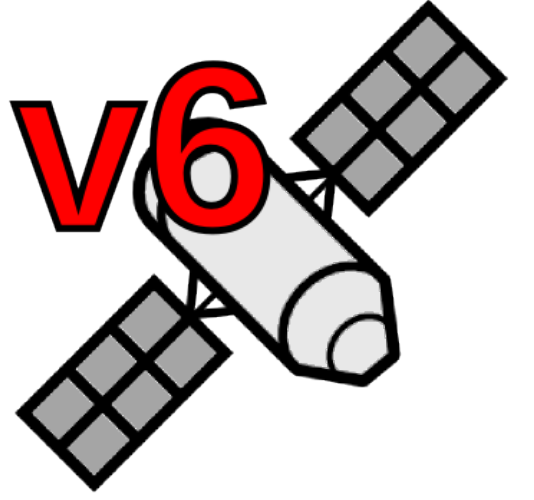


Red Hat Satellite – *transition*

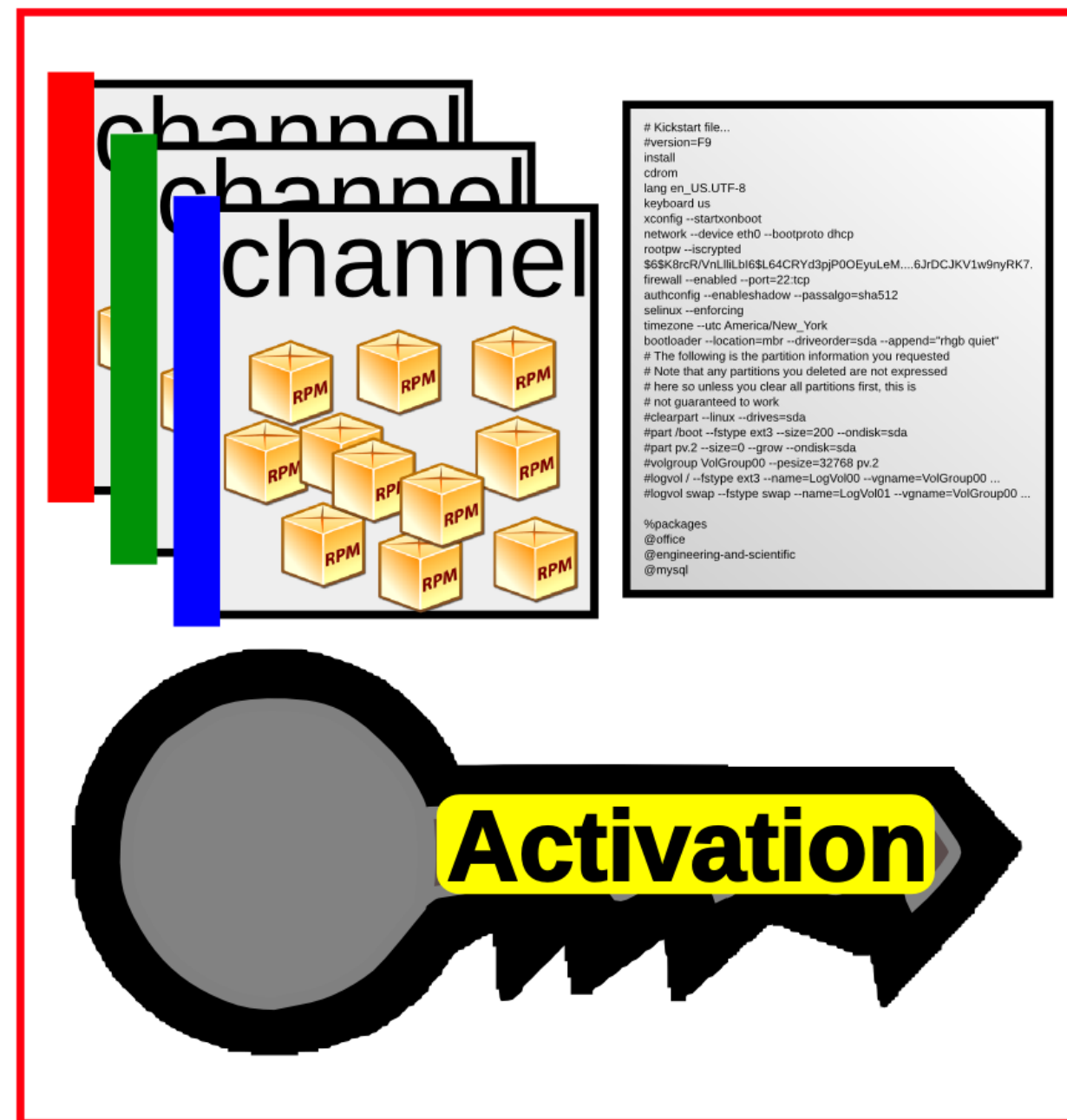
Provisioning and system groups



System Definition



Kickstart Profile



System Definition

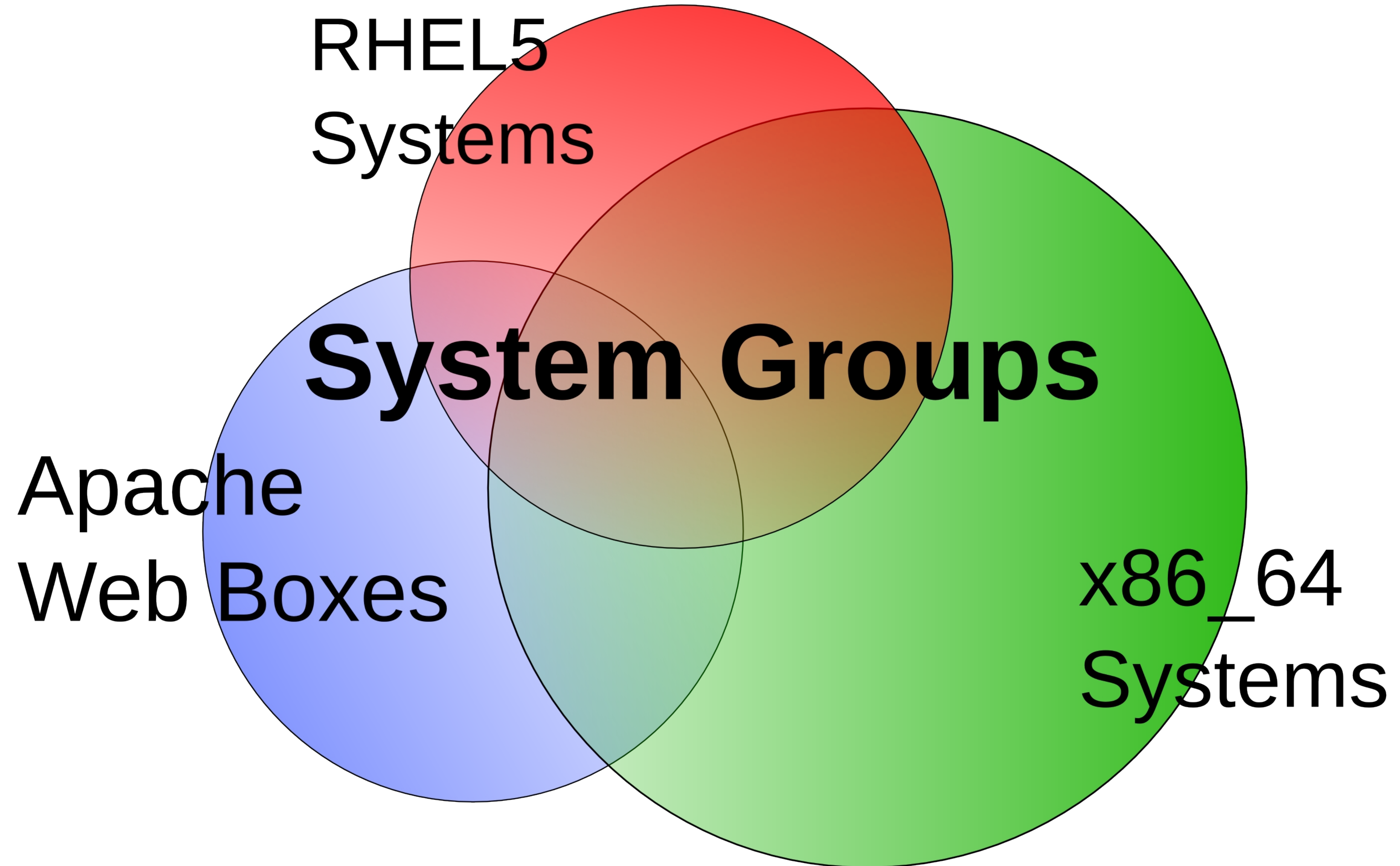
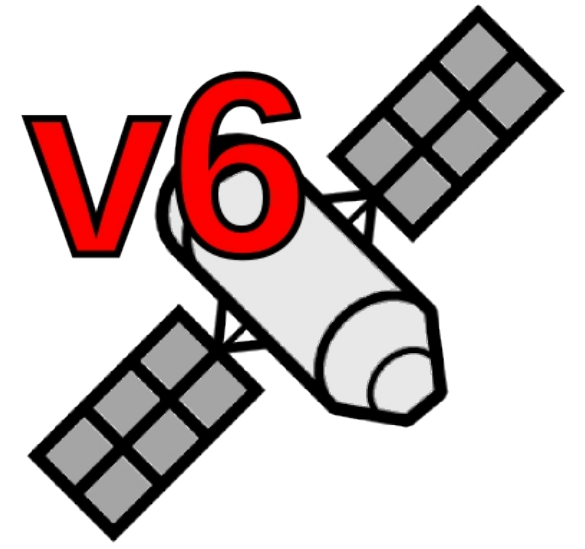
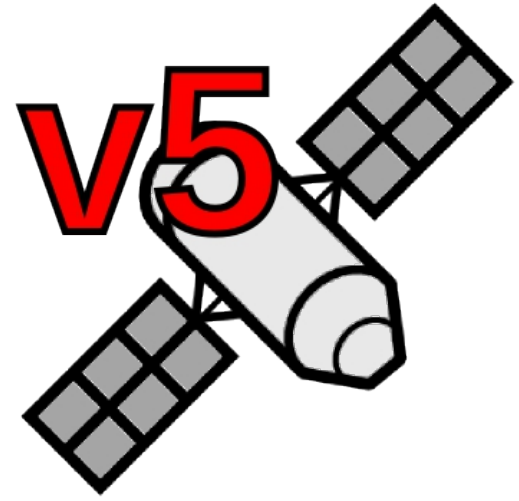
Provisioning Template

```
# Kickstart file...
#version=F9
install
cdrom
lang en_US.UTF-8
keyboard us
xconfig --startonboot
network --device eth0 --bootproto dhcp
rootpw --iscrypted
$6$K8rcR/VnLlLb6L64CRYd3pPOEYulE...6JrDCJKV1w9nyRK7.
firewall --enabled --port=22,tcp
authconfig --enablesshadow --passalgo=sha512
selinux --enforcing
timezone --utc America/New_York
bootloader --location=mbr --driveorder=sda --append="rhgb quiet"
# The following is the partition information you requested
# Note that any partitions you deleted are not expressed
# here so unless you clear all partitions first, this is
# not guaranteed to work
#cleartpart --linux --drives=sda
#part /boot --fstype ext3 --size=200 --ondisk=sda
#part pv.2 --size=0 --grow --ondisk=sda
#volgroup VolGroup00 --pesize=32768 pv.2
#logvol / --fstype ext3 --name=LogVol00 --vgname=VolGroup00 ...
#logvol swap --fstype swap --name=LogVol01 --vgname=VolGroup00 ...

%packages
@office
@engineering-and-scientific
@mysql
```

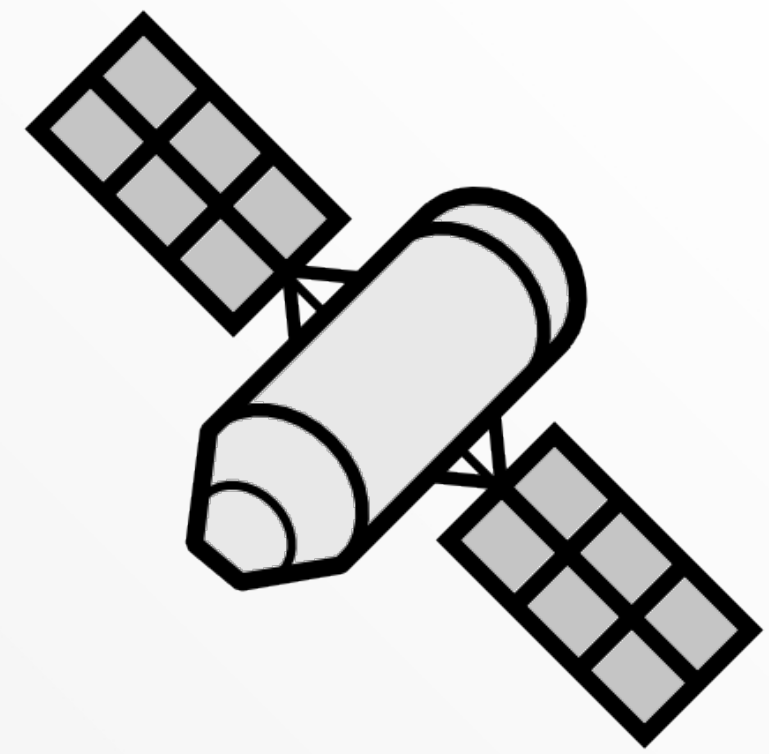
Host Group





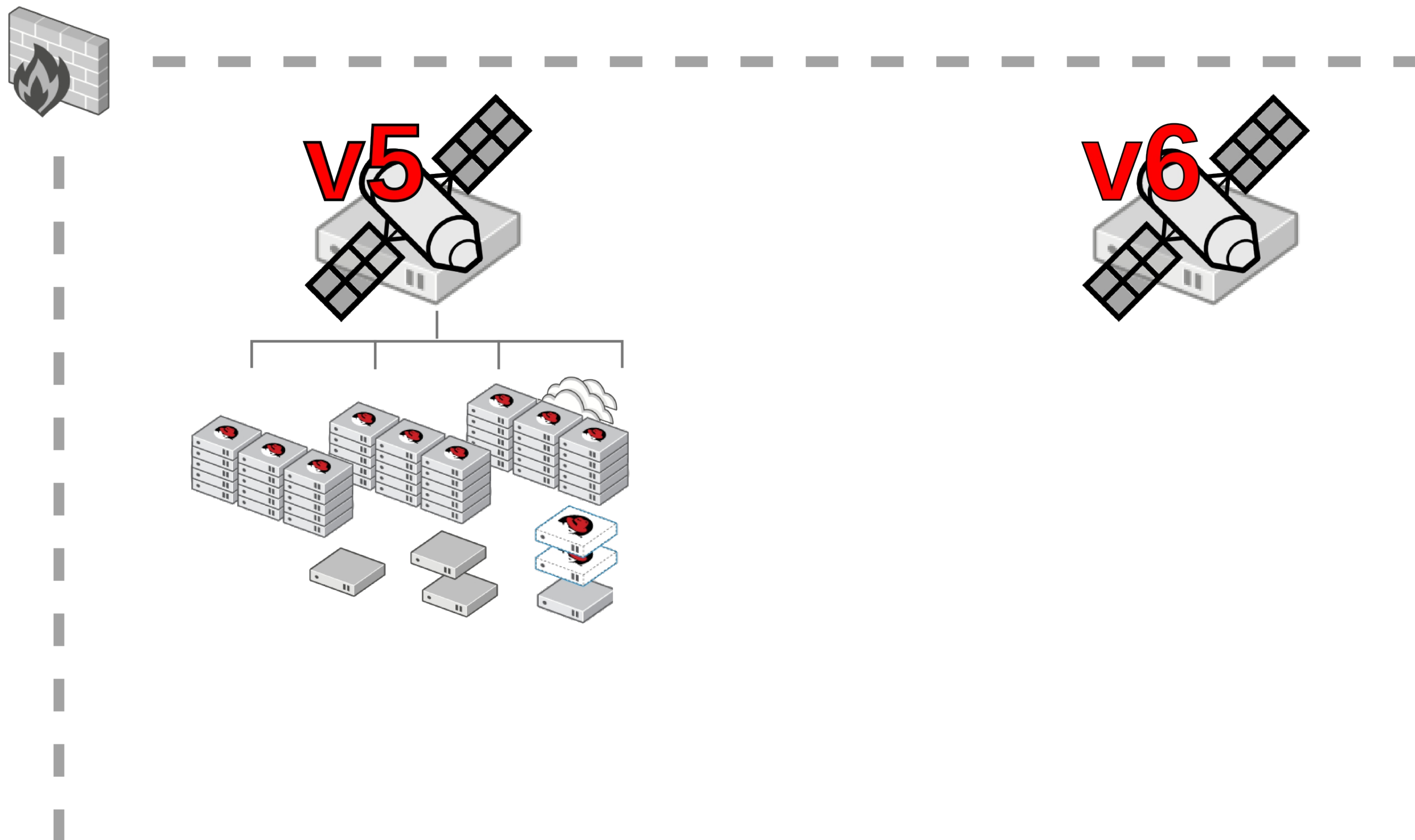


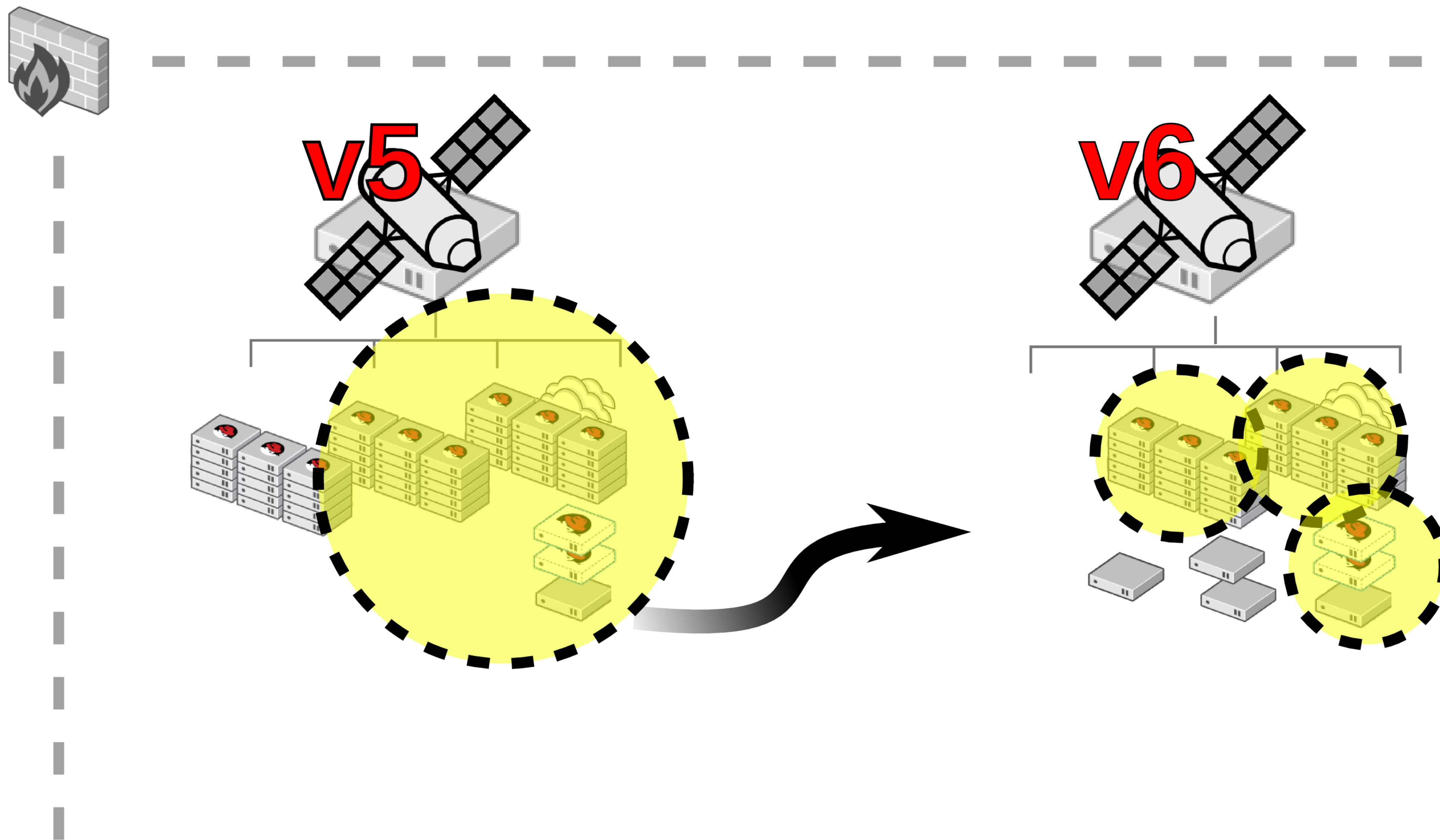
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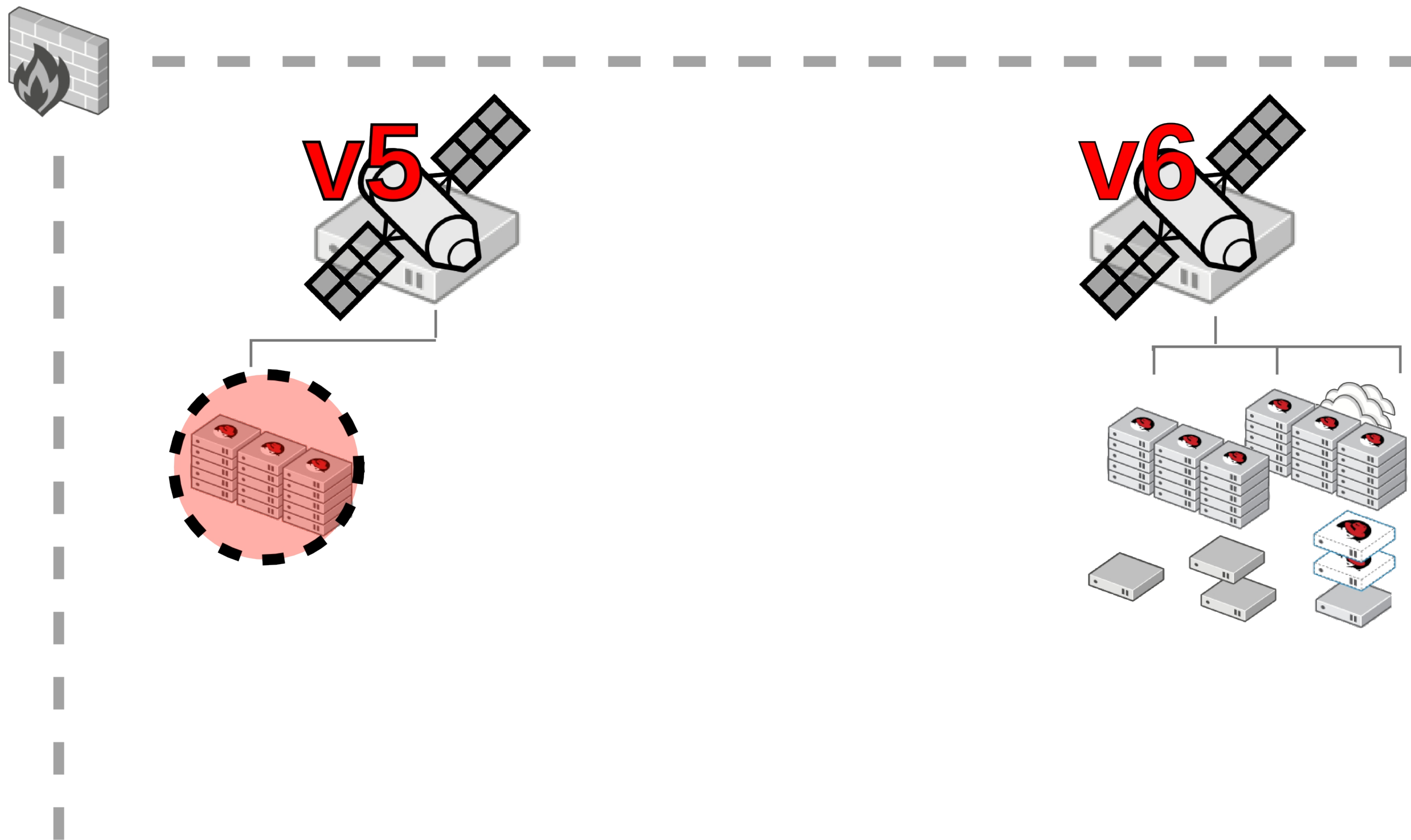


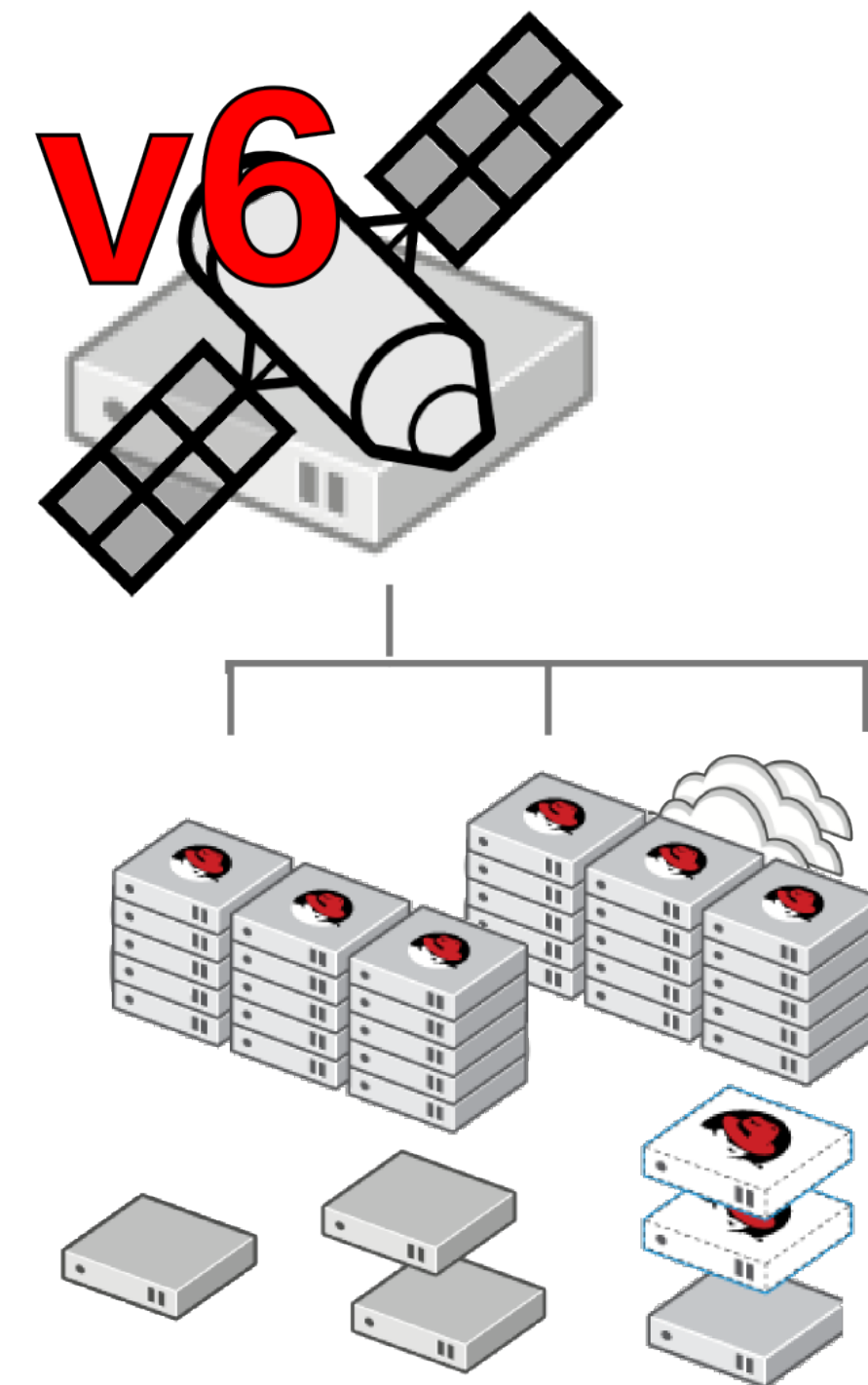
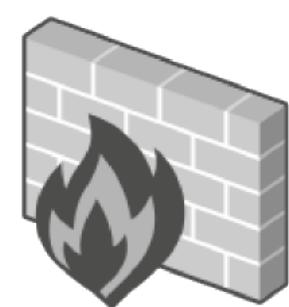
Red Hat Satellite – *transition*

Move some systems over
Some remain behind perhaps...

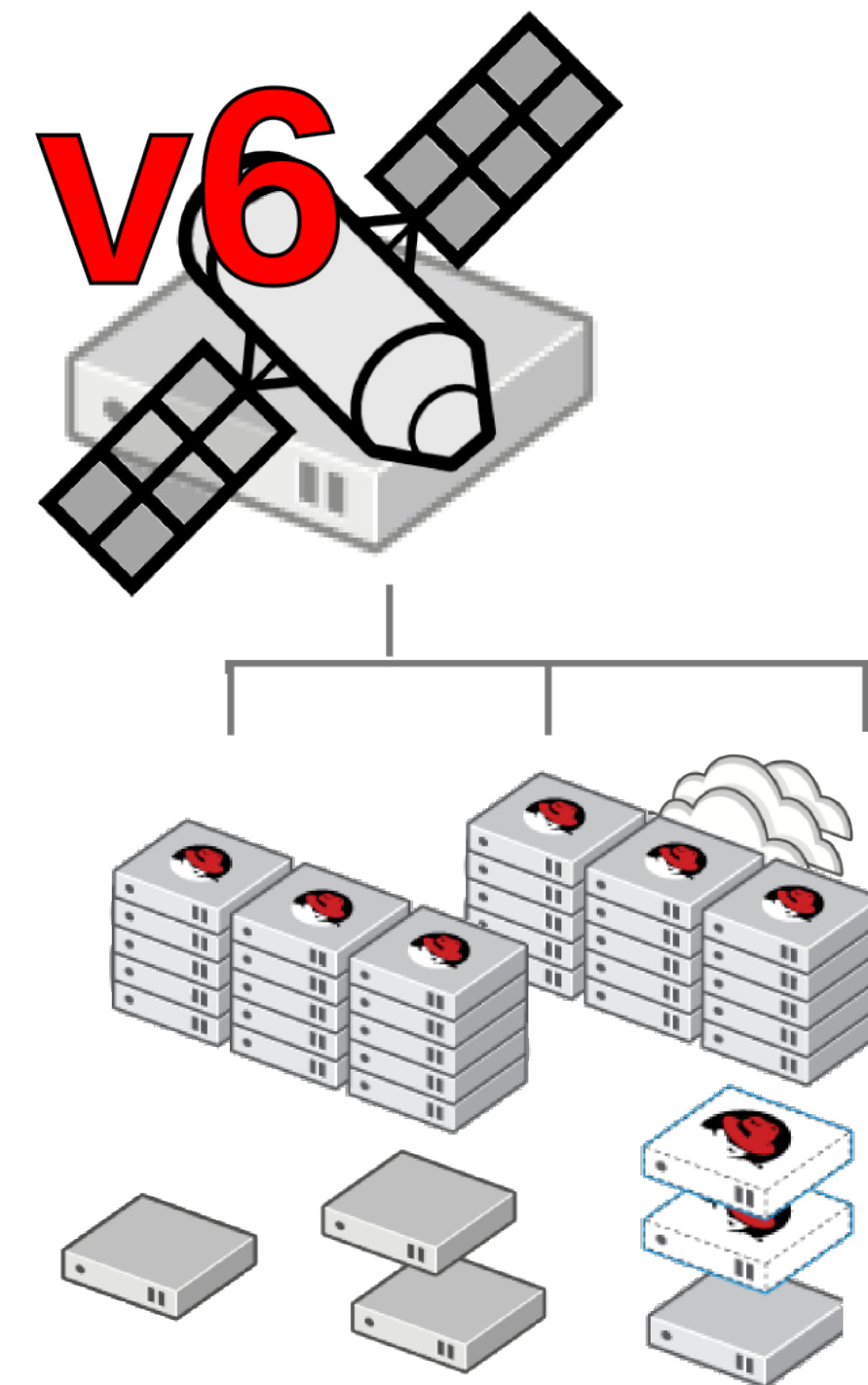
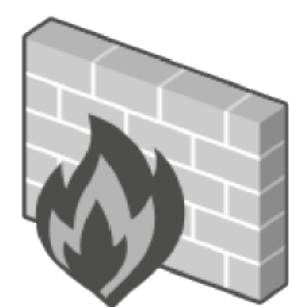








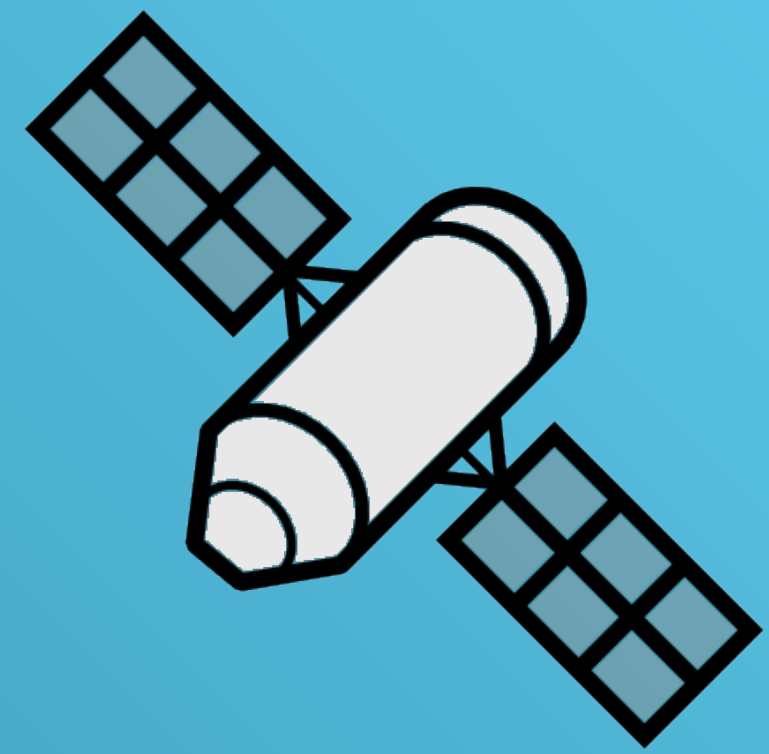
Transition Complete
Sat5 Ready for archiving!



Transition Complete
Sat5 Ready for archiving!

RED HAT
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Red Hat Satellite 6

In the trenches...
with Thomas Cameron

Thank you!



What's Next?

Here At Summit:

- **Partner Pavilion:**

- Satellite 5 booth – Infrastructure Pillar (#5)
- Satellite 6 booth – Infrastructure-as-a-Service Pillar (#13)

- **Presentations:**

- Real-world perspectives: Customer panel – Wed, 10:40-11:40am, Room 300
- Understanding your subscription inventory – Wed, 4:50-5:50pm

- **Lab:**

- Test Drive Satellite 6 – Wed, 1:20-3:20pm



Immediately After Summit:

- Beta launching in mid-June!
Email satellite6preview@redhat.com if interested in participating in the **High Touch Beta Program!**



Thank you!

