



# Satellite 6 Lab

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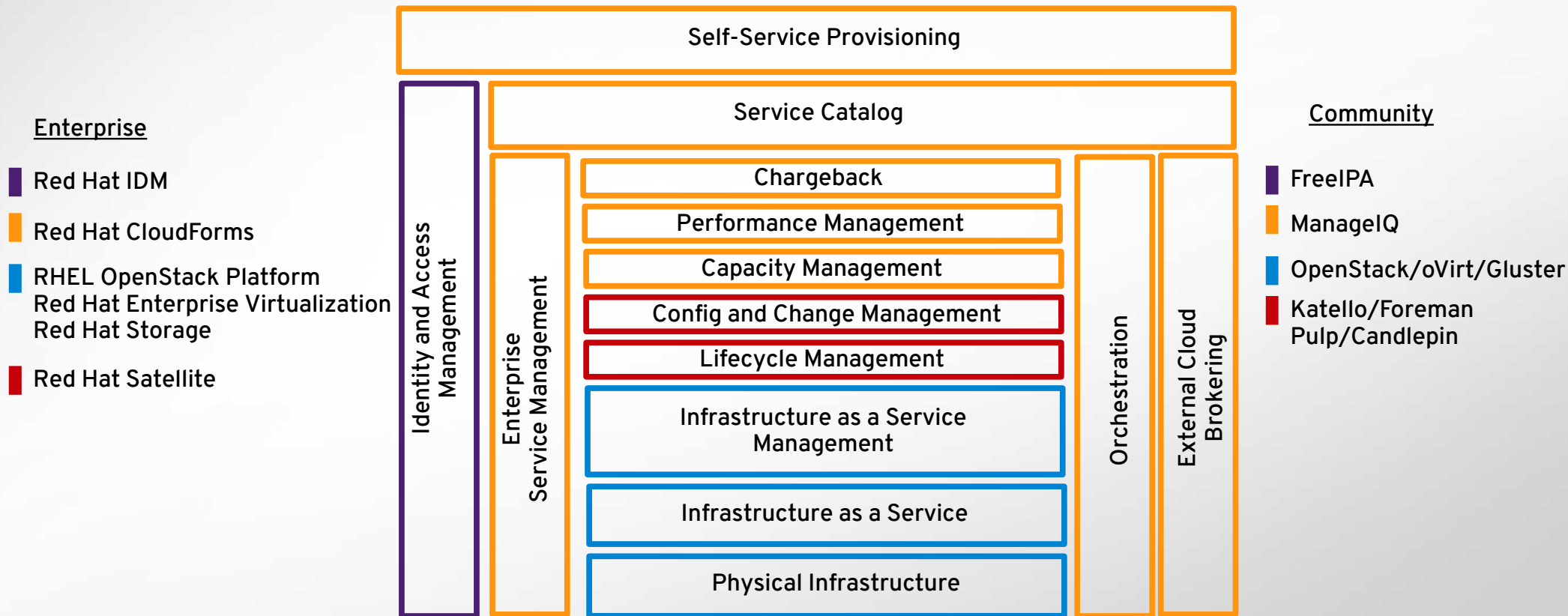
# Agenda

- Introduction
- Satellite 6 Overview
- Prerequisites
- Lab (a self-contained Satellite 6 demonstration!)



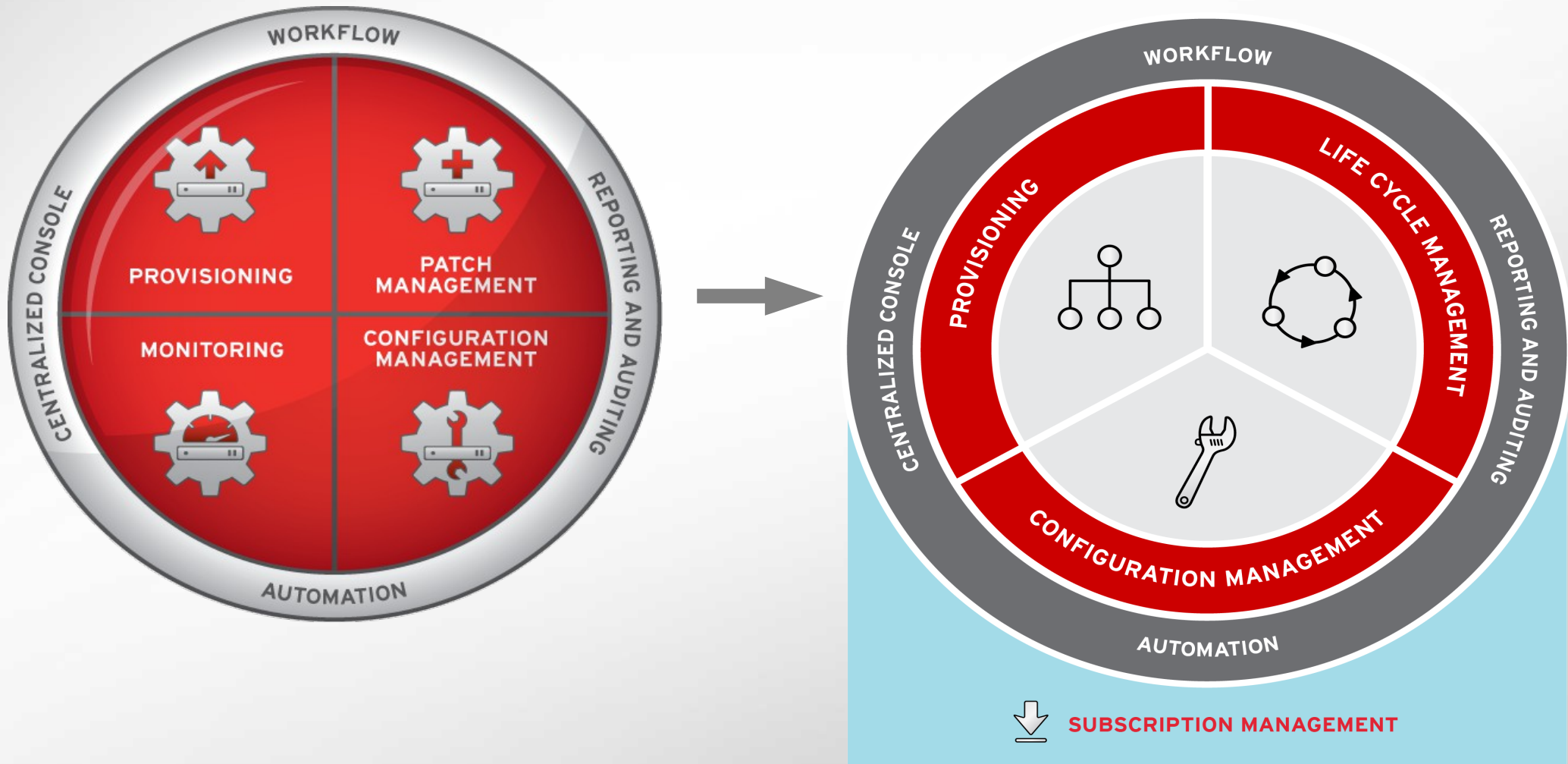
# Introduction

# Red Hat IaaS Private Cloud Capabilities



# Satellite 6 Overview

# Satellite 6 - Next Generation RHEL Management



# Core Capabilities of Satellite 5 & 6

## RED HAT SATELLITE 5



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

## RED HAT SATELLITE 6



- Provision to 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 and Management



# The Communities Behind Satellite 6



**CONFIGURATION  
MANAGEMENT**



**PROVISIONING**



**REPOSITORY  
MANAGEMENT**



**CONTENT/LIFE CYCLE  
MANAGEMENT**

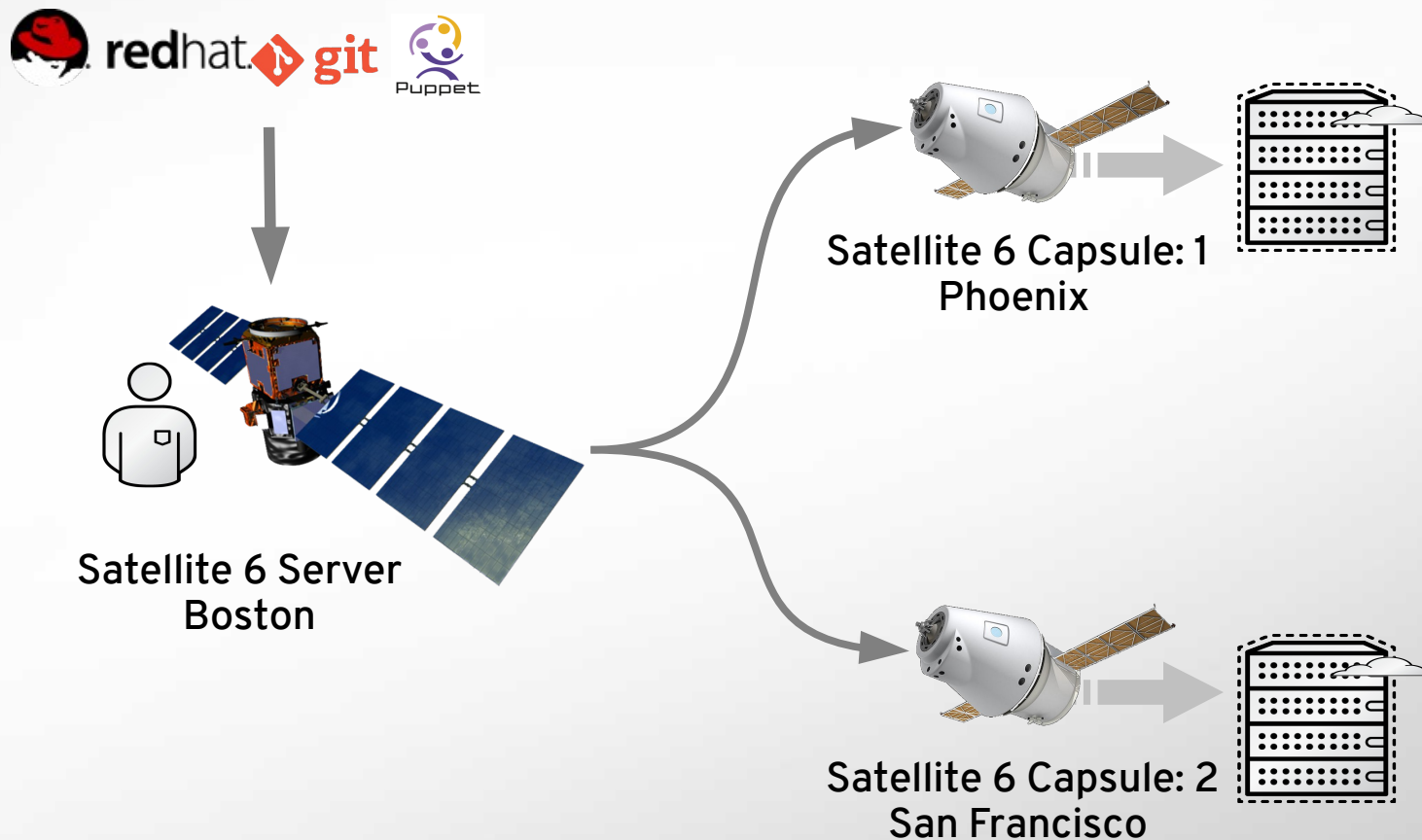


**SUBSCRIPTION  
MANAGEMENT**





# Satellite 6 Topology



# Satellite 6 Server

- Multi-tenant
- Content lifecycle for puppet modules and RPM products
- User and group RBAC with external directories
- Powerful GUI, CLI, and API
- Advanced subscription management

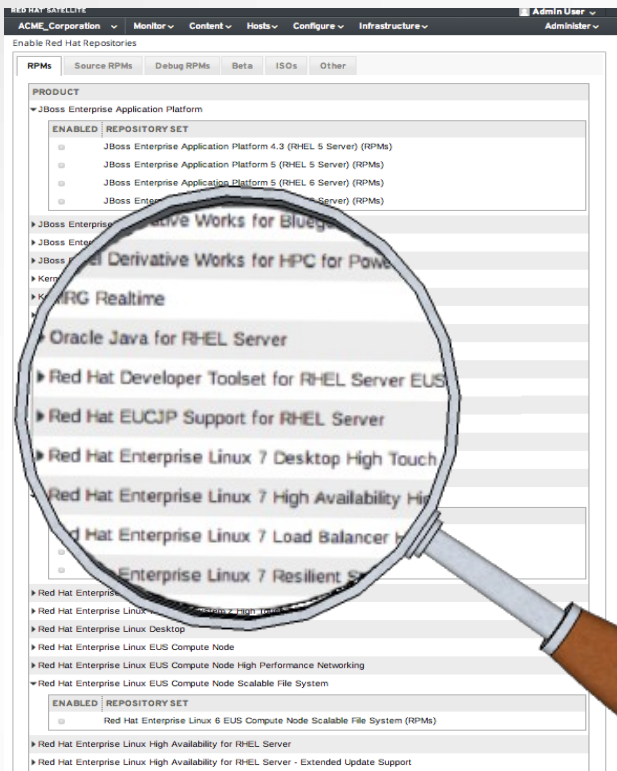


# Satellite 6 Capsule

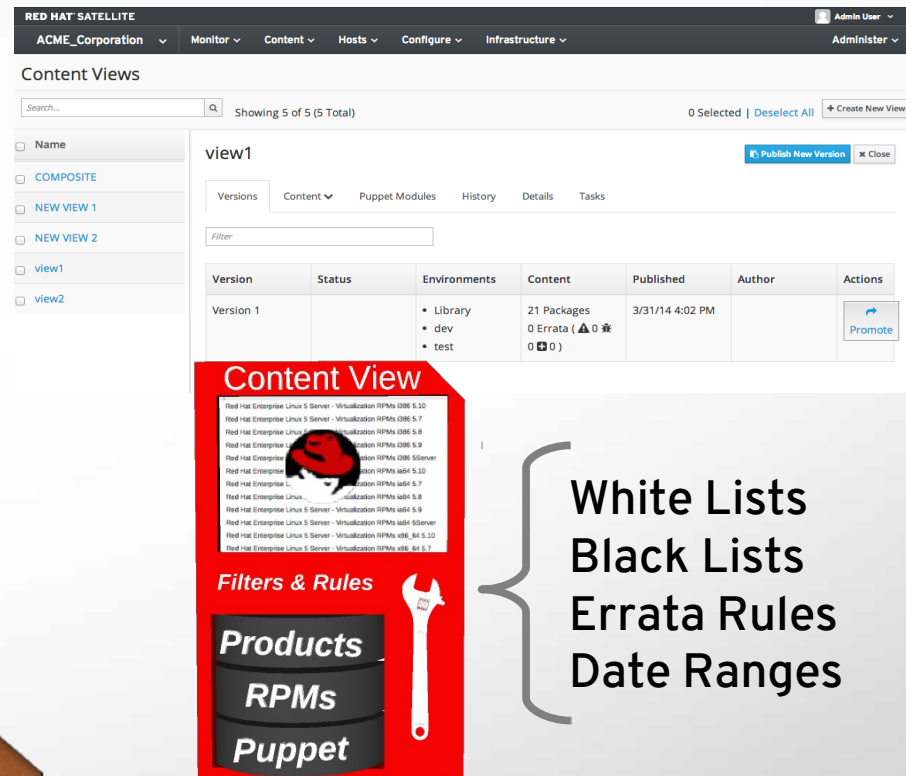
- Federated services
- Automates provisioning
- Localizes content
- Centrally managed
- Evolution of Red Hat Satellite Proxy



# Efficient RHEL Build Management



Library populated with  
Products & Packages

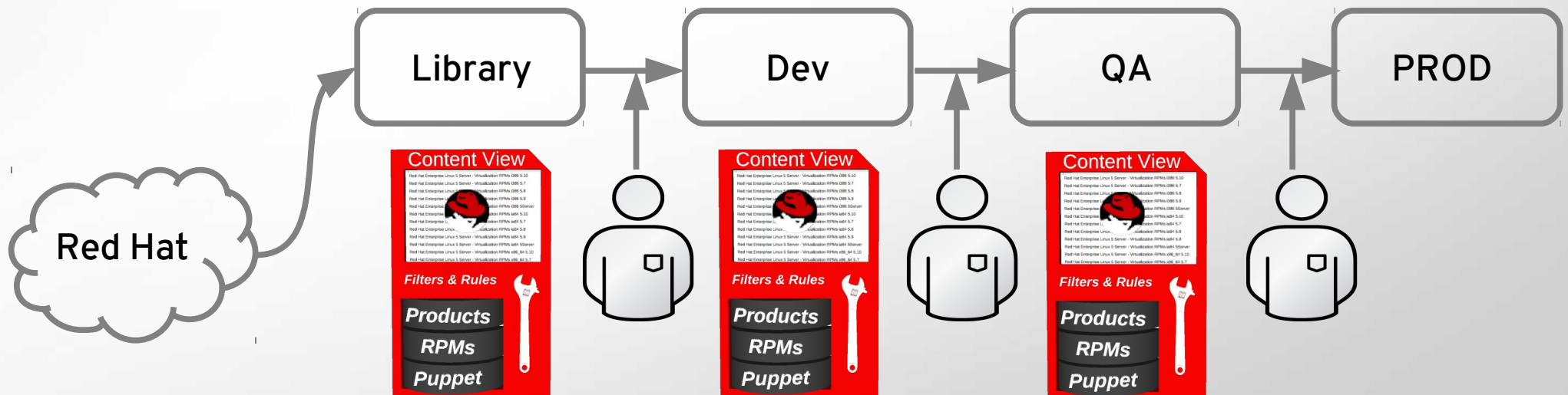


Content View “Selected Products”



# Content Lifecycle Management

- From Native Repository, to build, to updating
- Red Hat CDN, Puppet Forge, GIT, Yum Repositories



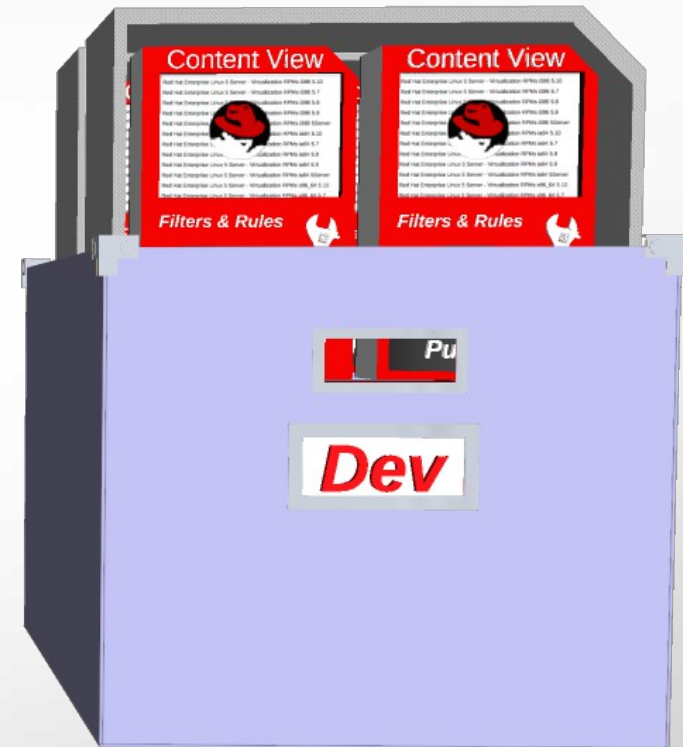
# Satellite 6 Content Views and Environments



**Content View**  
e.g. RHEL7  
e.g. Web Srv  
e.g. JBOSS



**Composite  
Content View**  
e.g. SOE for WEB



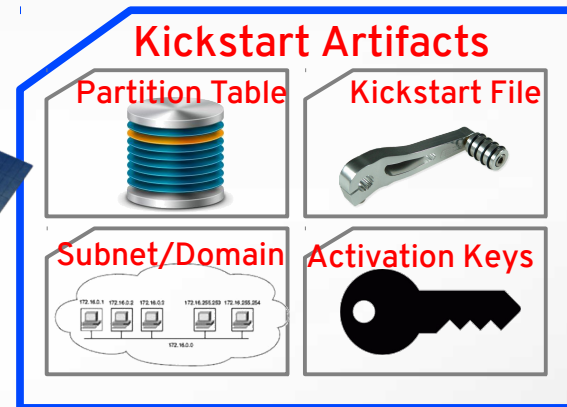
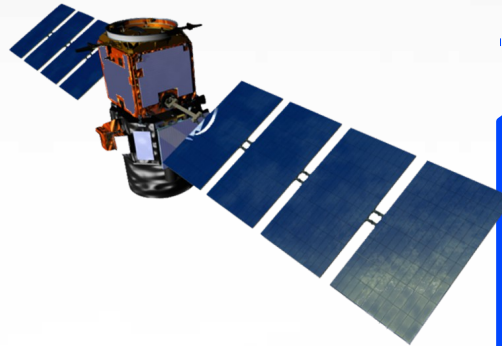
**Environment**  
e.g. PROD  
e.g. DEV



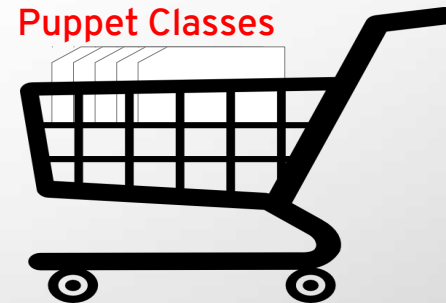
# Satellite 6 System Definition



Content  
OS & Pkgs  
Puppet Modules



Puppet Classes

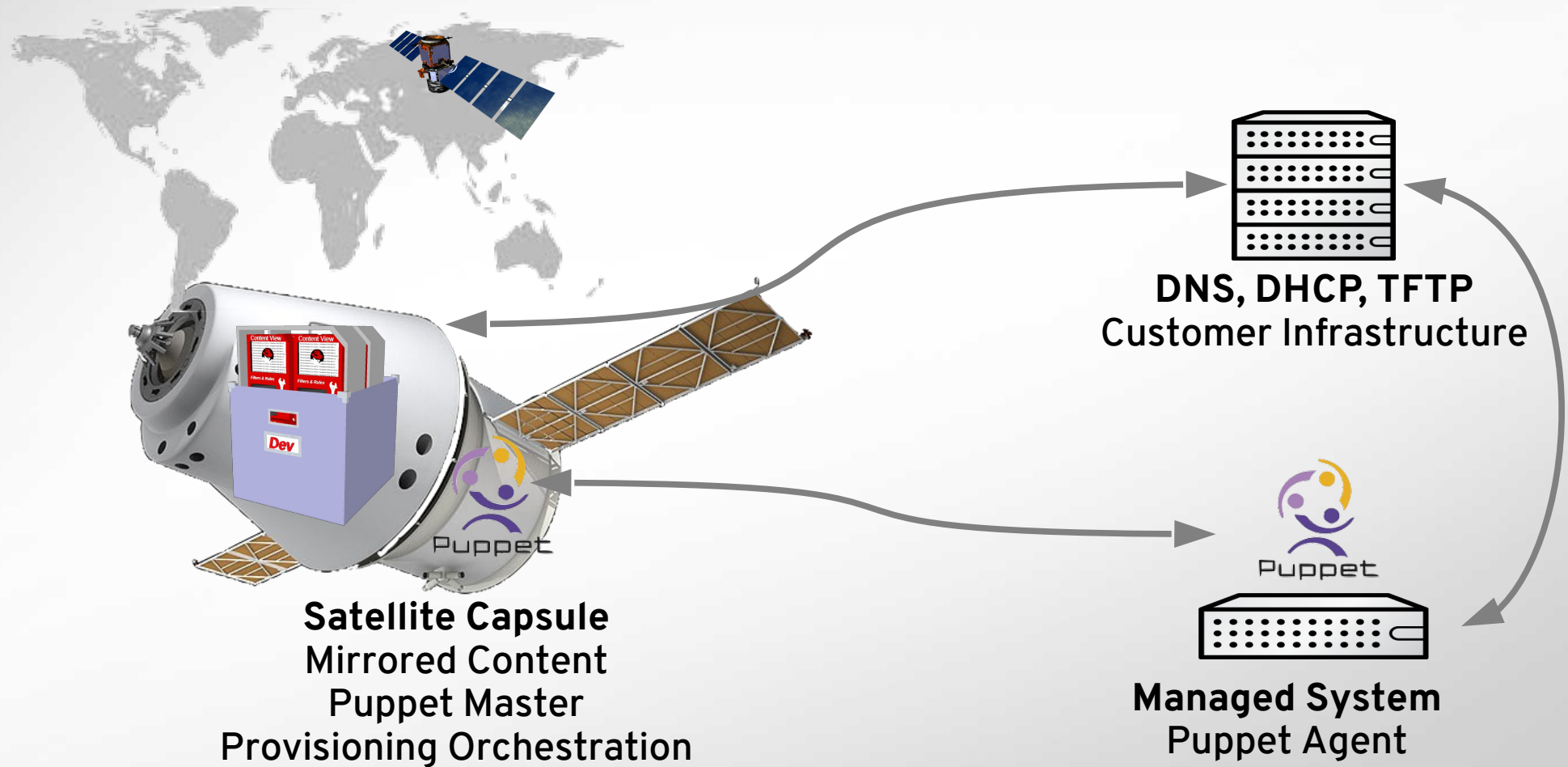


Host Group





# Satellite 6 Provisioning/Configuration



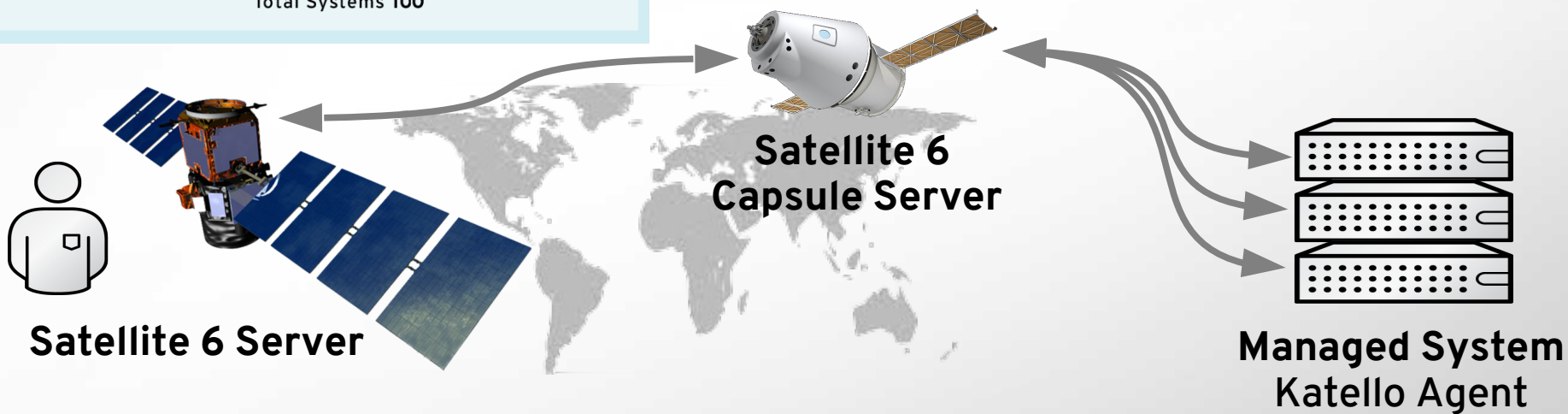


# Satellite 6 Subscription and Errata Management

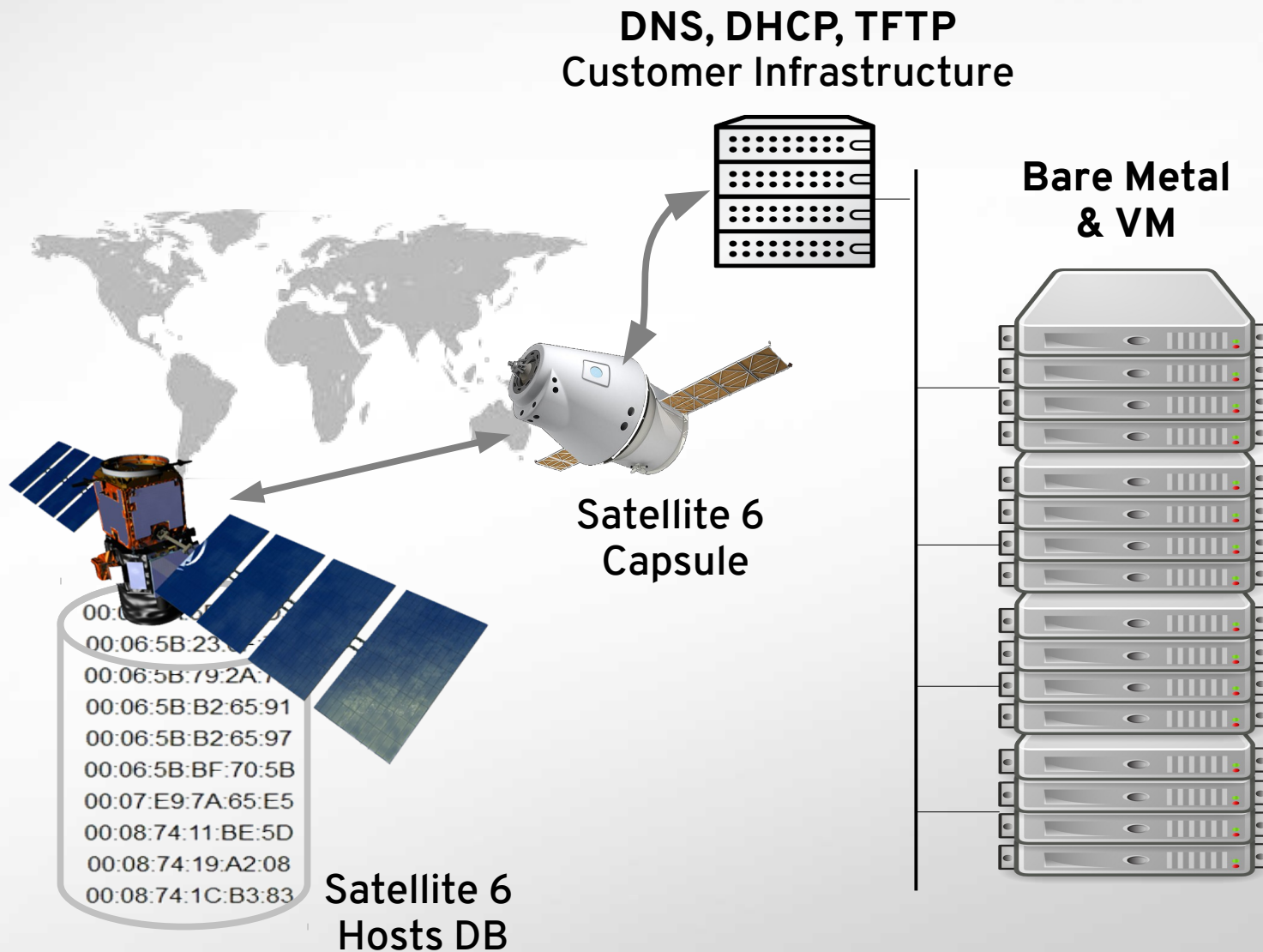
## ENHANCED ENTITLEMENT REPORT

Invalid Subscriptions	40
Insufficient subscriptions	30
Current subscription	30

Total Systems 100

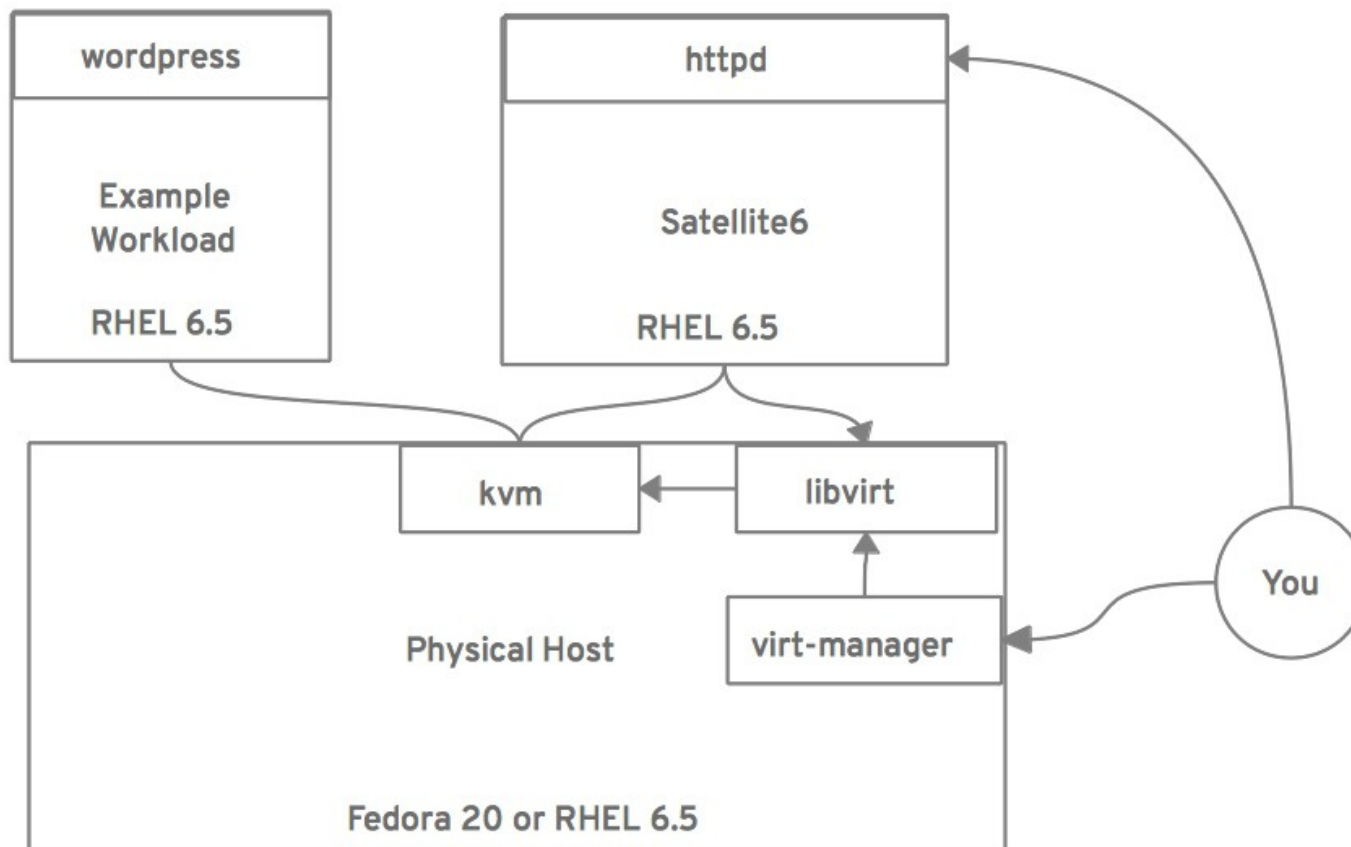


# Satellite 6 Discovery



# Prerequisites

# Lab Layout



# Lab Prerequisites

- Workstation that supports KVM
- 70GB HDD space minimum (100GB recommended)
- 6GB RAM minimum (8GB recommended)
- RHEL 6.5 or Fedora 20 (tested on Fedora 20)
- NAT'd network will be created on the virtual bridge (other networks will be undefined)
- Complete “Before you Begin” Section  
(Downloading 64GB Image May Take Time!)

<https://www.dropbox.com/sh/i1qbebozmt7aguv/AAAakjpwgKwAqEDuKbwIWYnqa>



# Lab





slides available at  
[www.allthingsopen.com](http://www.allthingsopen.com)