



# Using Red Hat Satellite Today & Into the Future

**David Caplan**

*Principal Product Manager  
Red Hat*

**Alice Cockrum**

*Principal Product Marketing  
Red Hat*

**Ohad Levy**

*Principal Software Engineer  
Red Hat*

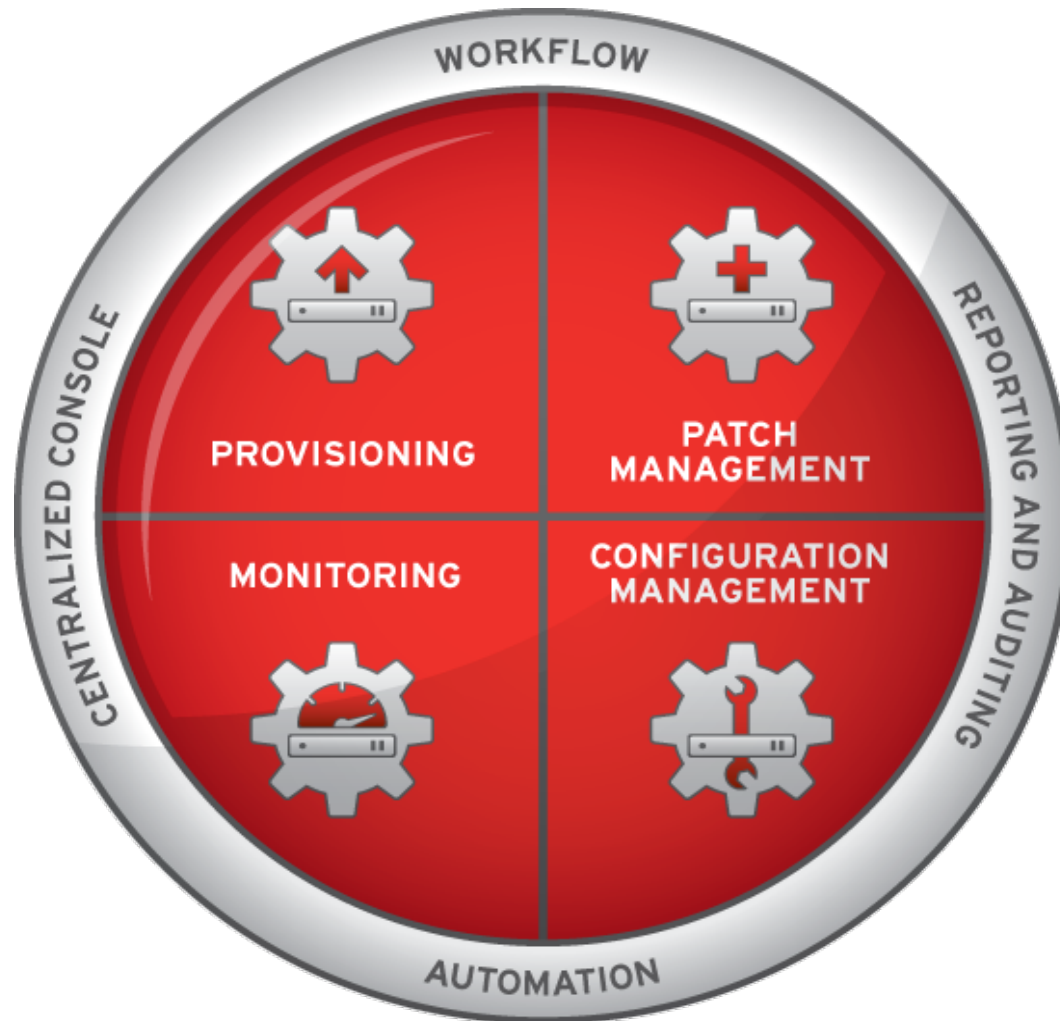
**Mike McCune**

*Engineering Supervisor  
Red Hat*

# Agenda

- Quick Refresher
- Roadmap Update
- Designing & Developing Red Hat Satellite 6
  - Architectural Essentials
  - Demonstration
  - Managed Design Program
- Summary & Next Steps

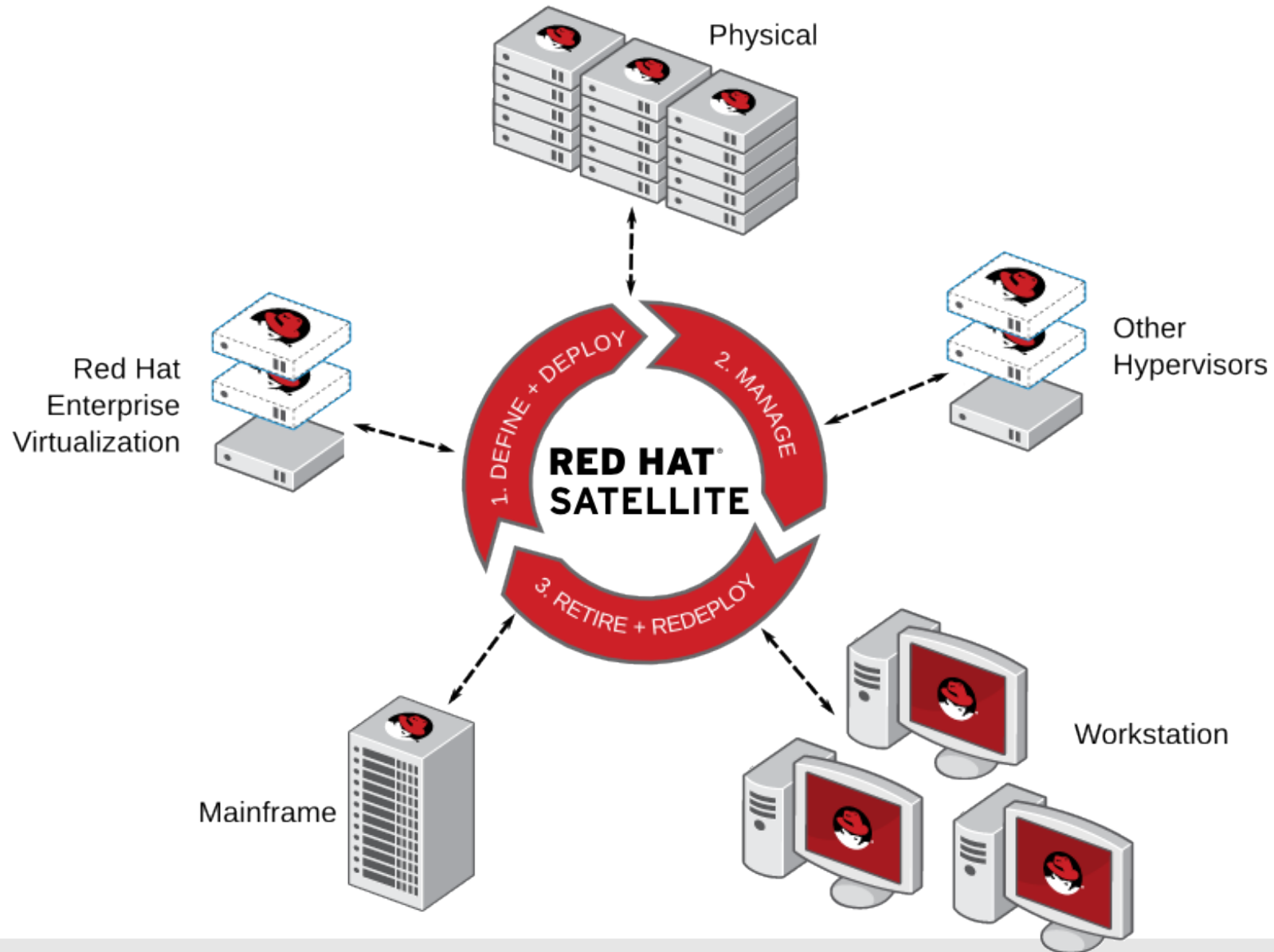
# Red Hat Approach to Systems Management



## RED HAT® SATELLITE

# Red Hat Satellite

*Managing Red Hat Enterprise Linux since 2002*



# Announcing the Development of Red Hat Satellite 6



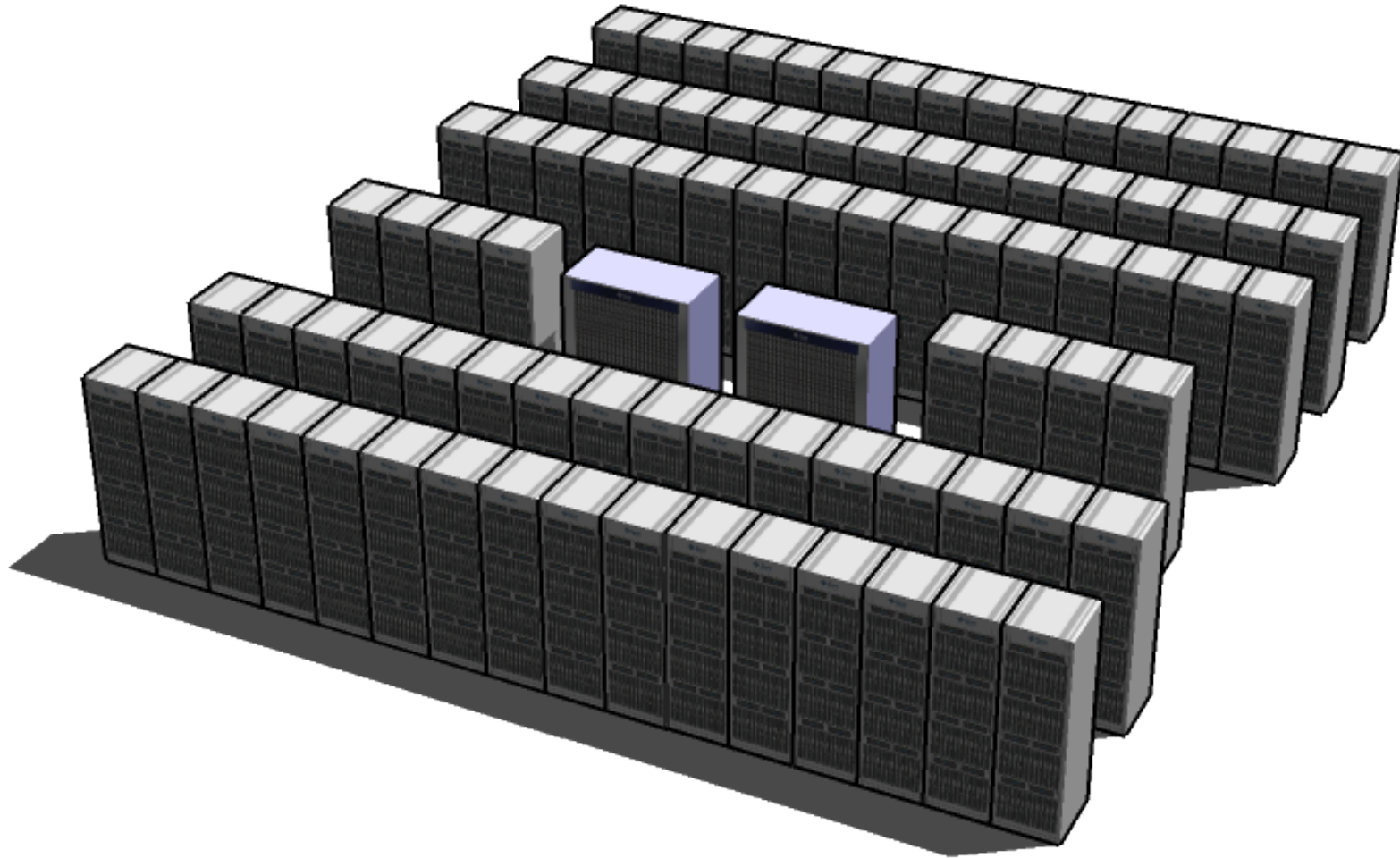
- **Building next generation systems management capabilities demanded by YOU**
  - Helping customers scale and build out their systems management practice into the cloud
- **Continuing to invest in Red Hat Satellite 5**
  - Delivering new features and enhancements
  - Red Hat Satellite 5.6 launching in Fall of 2013



What is driving the need for a new Satellite?

# Hyperscale

- Providing systems management 'at scale', providing capabilities at increasing orders of magnitude



# Cloud

- Abstracting resources while maintaining compliance, just-in-time workloads, governance driven placement across hybrid clouds





# DevOps

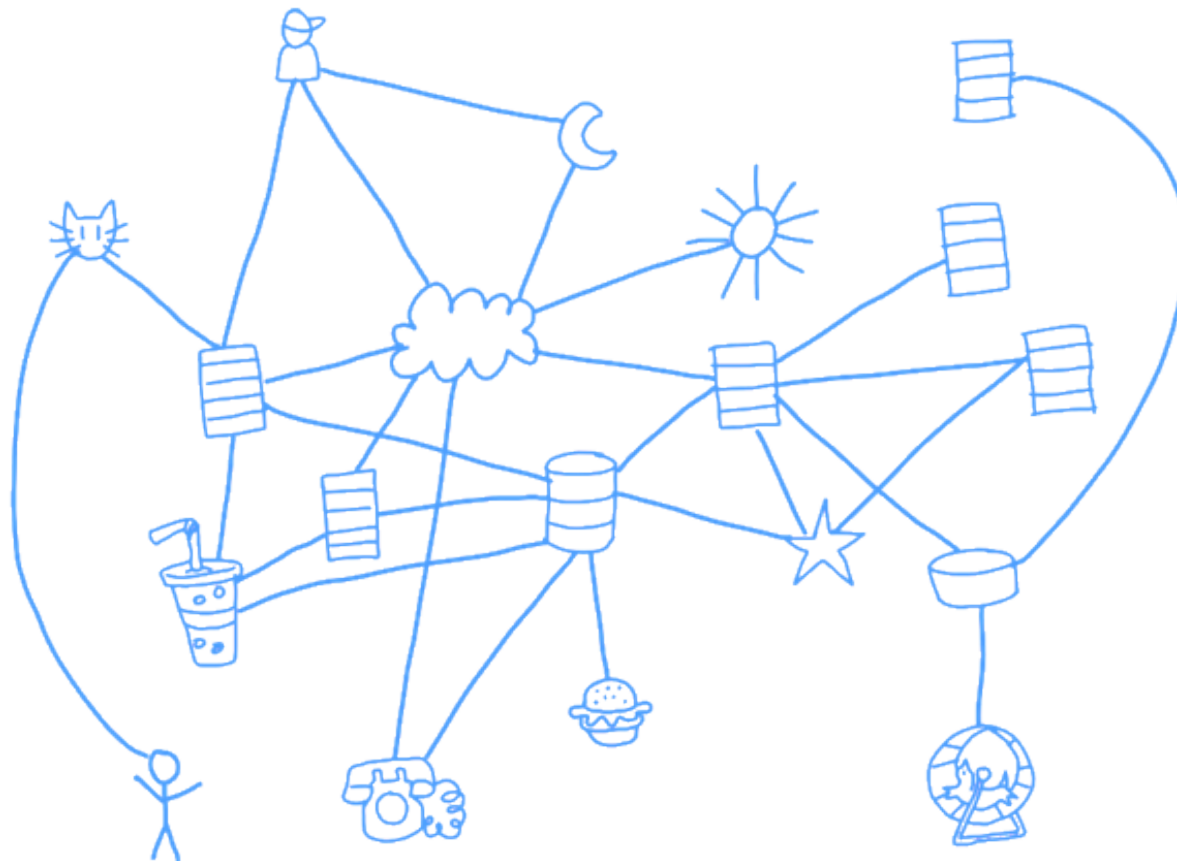
- Providing IT with the right tools & meeting demands such as self-service, flexible life cycle, service catalogs & more



# Complexity

- Refining of user roles, system definitions, and 'as a service' capabilities

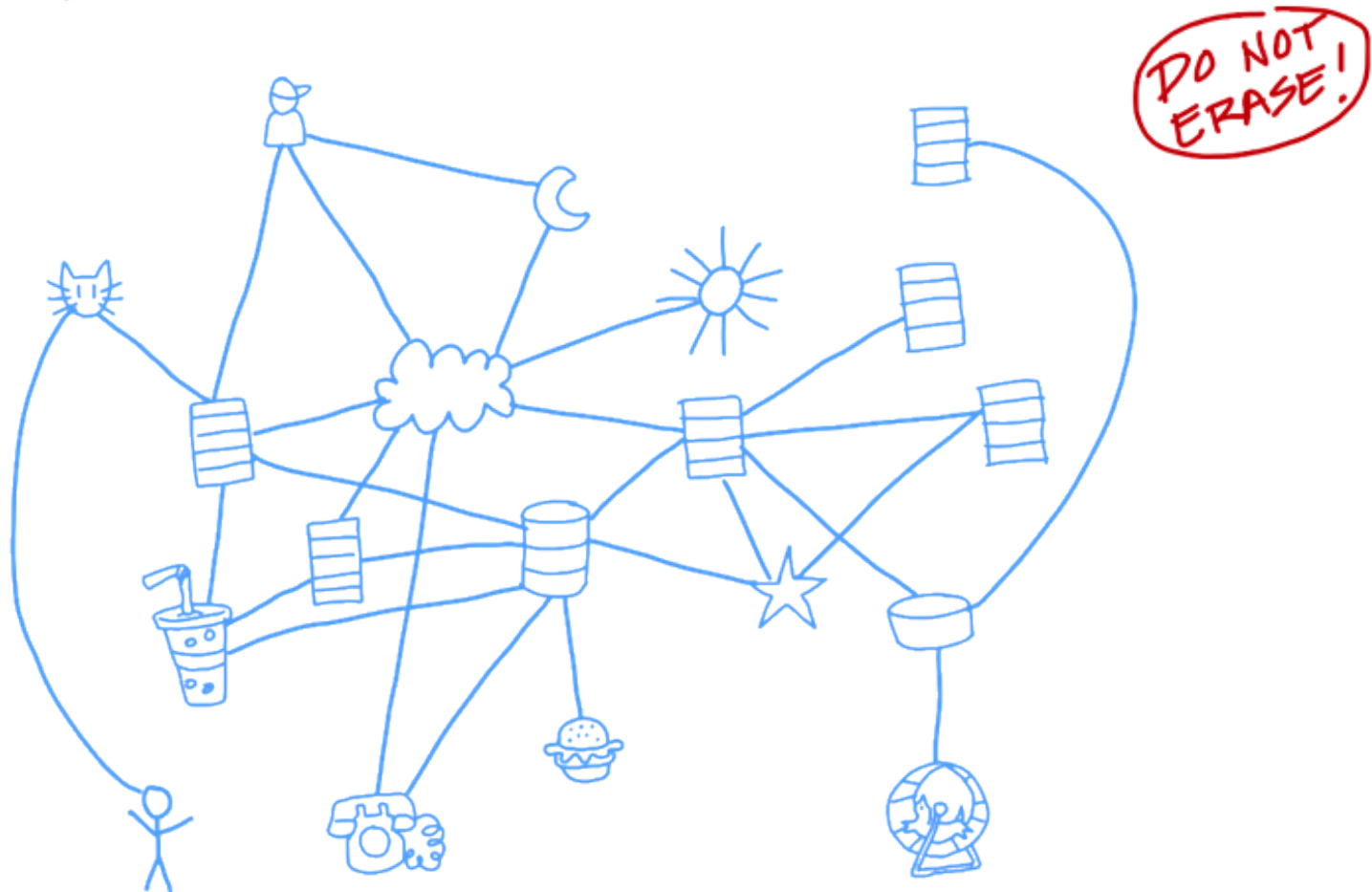
ACME CORPORATION IT TOPOLOGY



# Complexity

- Refining of user roles, system definitions, and 'as a service' capabilities

ACME CORPORATION IT TOPOLOGY



# Open source solutions

- Amplifying the value of one-off solutions for added customer value



# Red Hat Satellite 6 – Launching in 2014

- An entirely new Red Hat Satellite

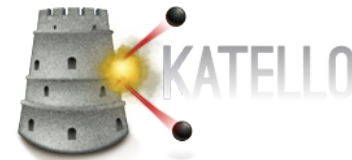
- Puppet *for Configuration*



- Foreman *for Provisioning*



- Katello *for Content Management*



- Pulp *for Repo Management*



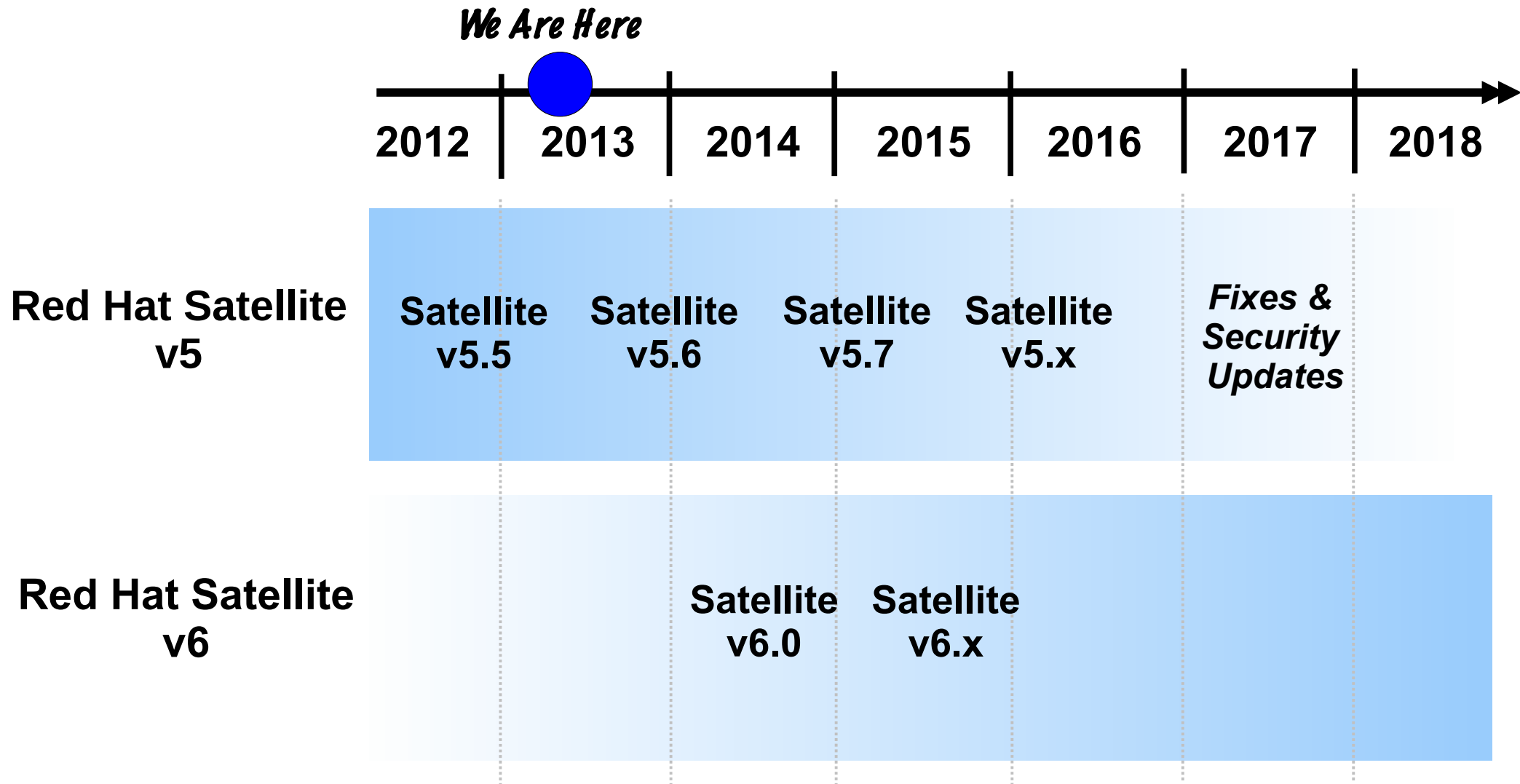
- Candlepin *for Subscription Management*



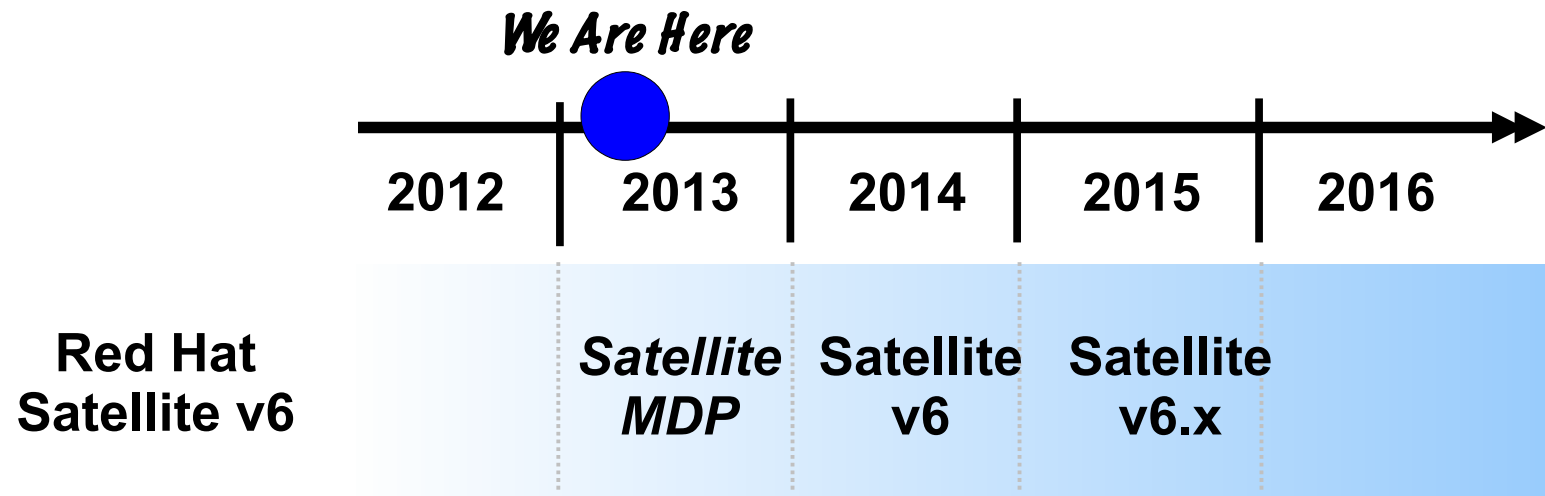
# ... All Wrapped Up in a Bow



# Red Hat Satellite Roadmap



# Introducing the Red Hat Satellite 6 Managed Design Program



**What is the Satellite Managed Design Program?** High-touch program for select customers to be highly involved in the design & development of Satellite v6

## Why participate?

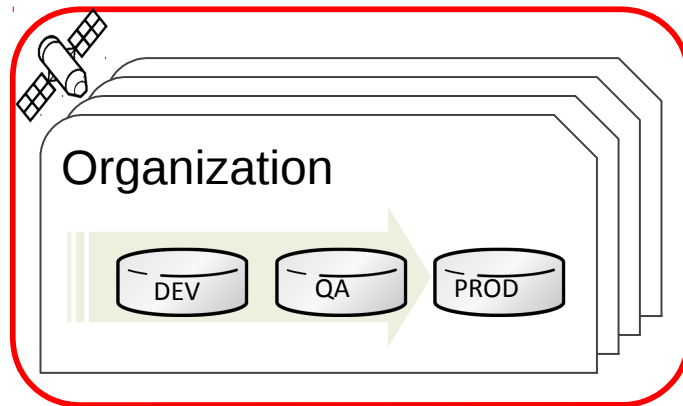
- Vested customers can see and test v6 code in the early stages of development
- Ongoing feedback loops ensure participant feedback is prioritized by Red Hat

**Who can participate?** In the early stages, only existing Satellite customers are eligible

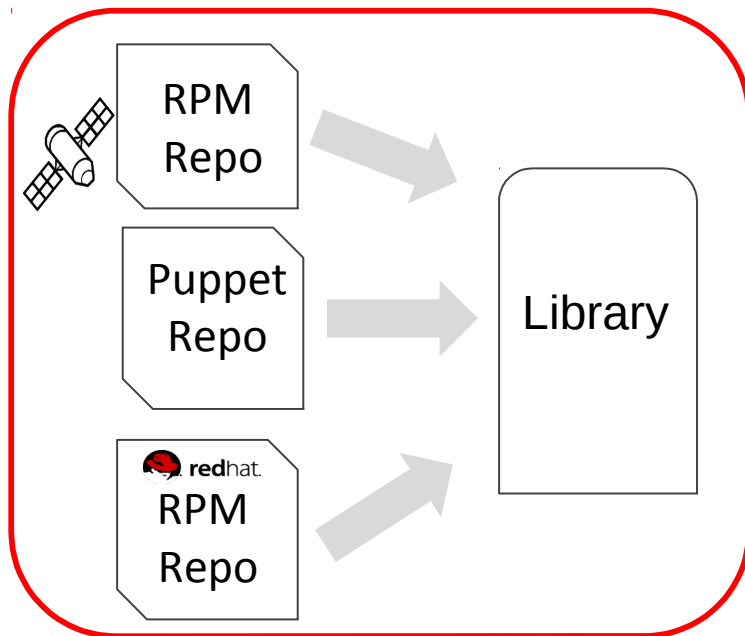
**When is the program being launched?** Today :-)



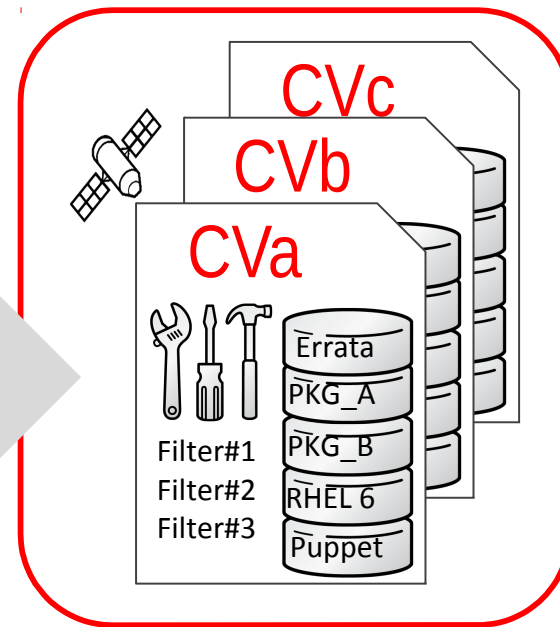
# Red Hat Satellite 6 Basic Workflow



1. Model your Organizations, Environments & Development Lifecycle with promotion paths

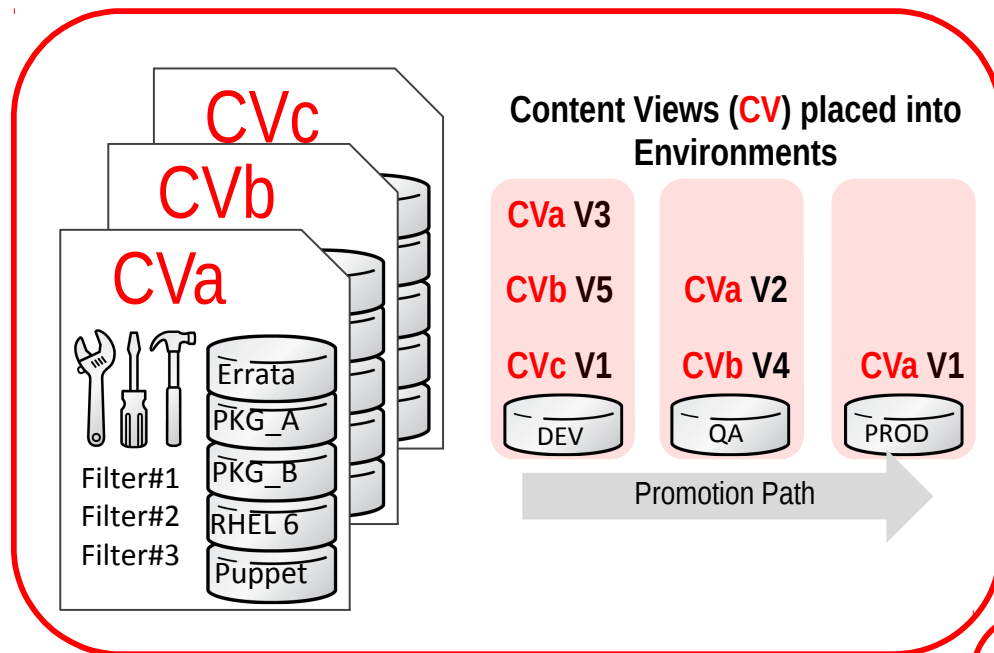


2. Sync content for your workloads

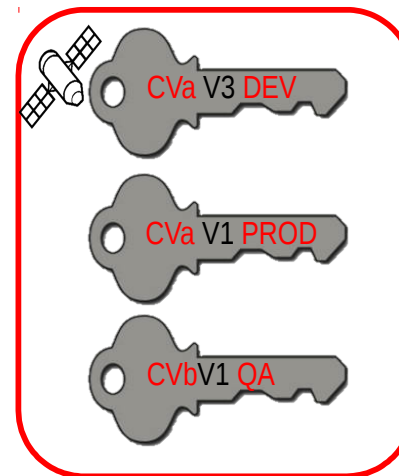


3. Customize content as standardized builds with Content Views (CV)

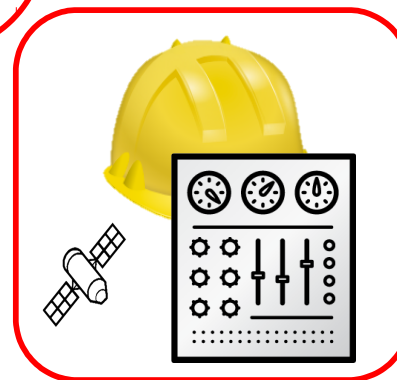
# Red Hat Satellite 6 Basic Workflow



4. Begin promotion cycle by publishing **Content Views** into Environments. Refresh **CV** to rerun rules which increments the version



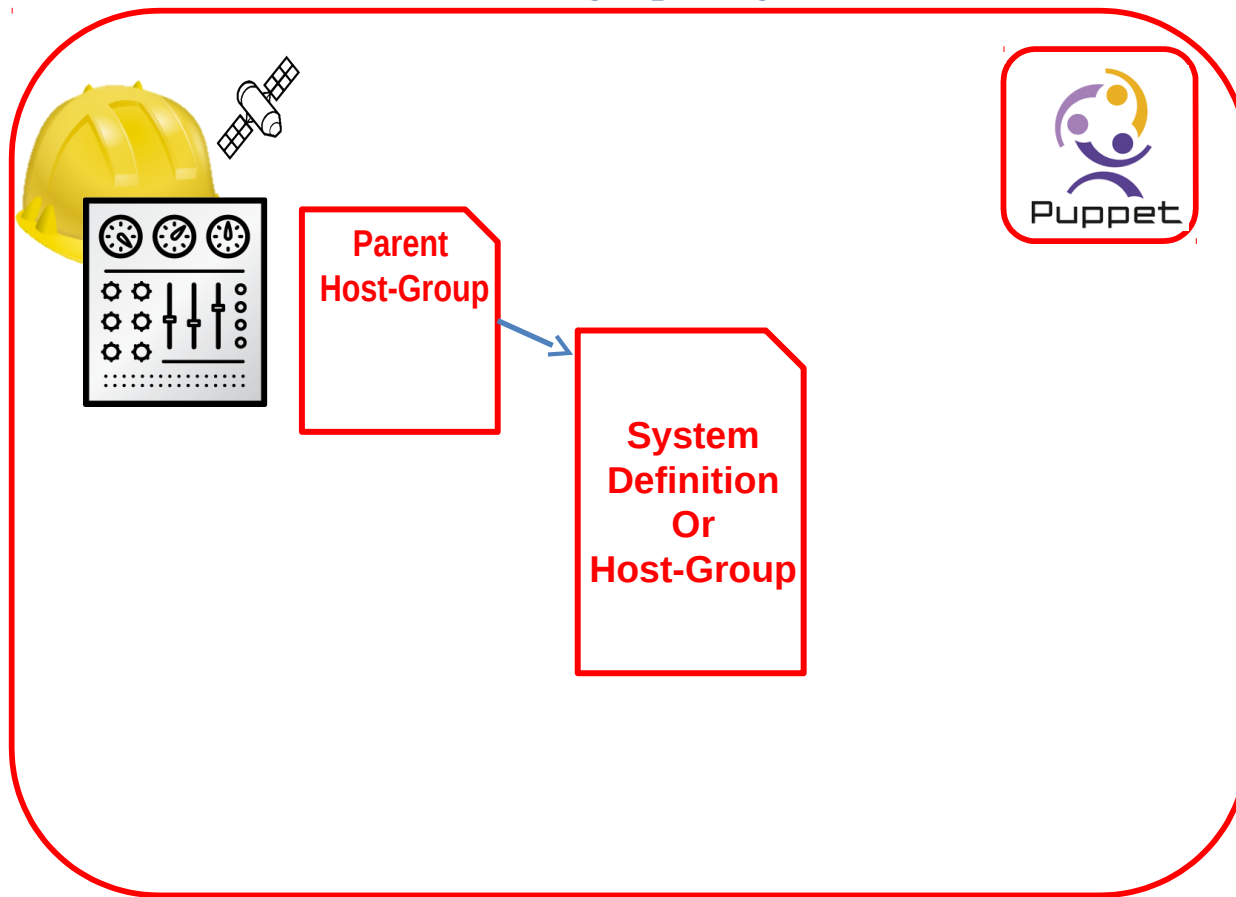
5. Generate activation keys for new system registration



6. Keys get handed off to Foreman for insertion into Kick Start

# Red Hat Satellite 6 Basic Workflow

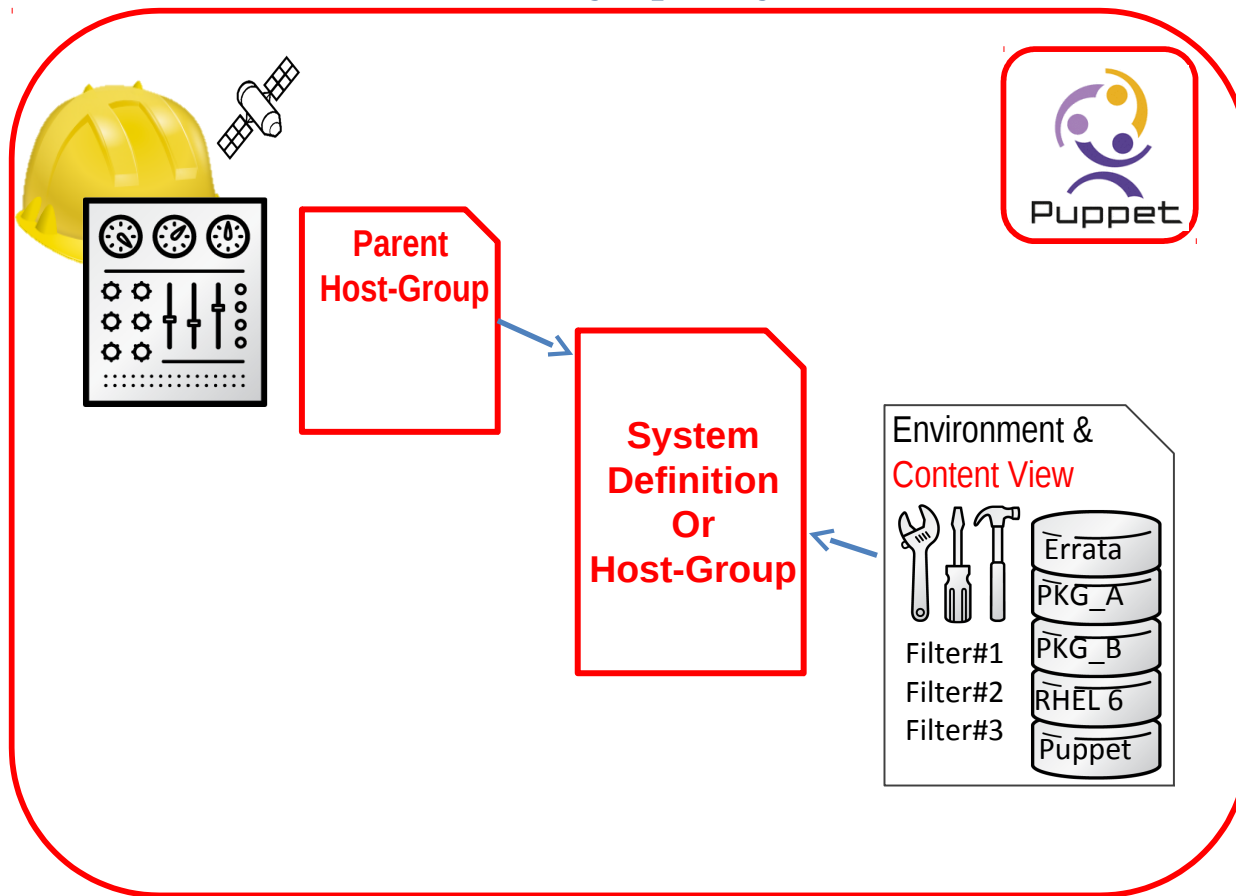
7. Create **Host-Group** or “System Definition” to fully specify workload



Host Groups can be stacked  
e.g.  
Apache stacked on RHEL 6.4

# Red Hat Satellite 6 Basic Workflow

7. Create **Host-Group** or “System Definition” to fully specify workload

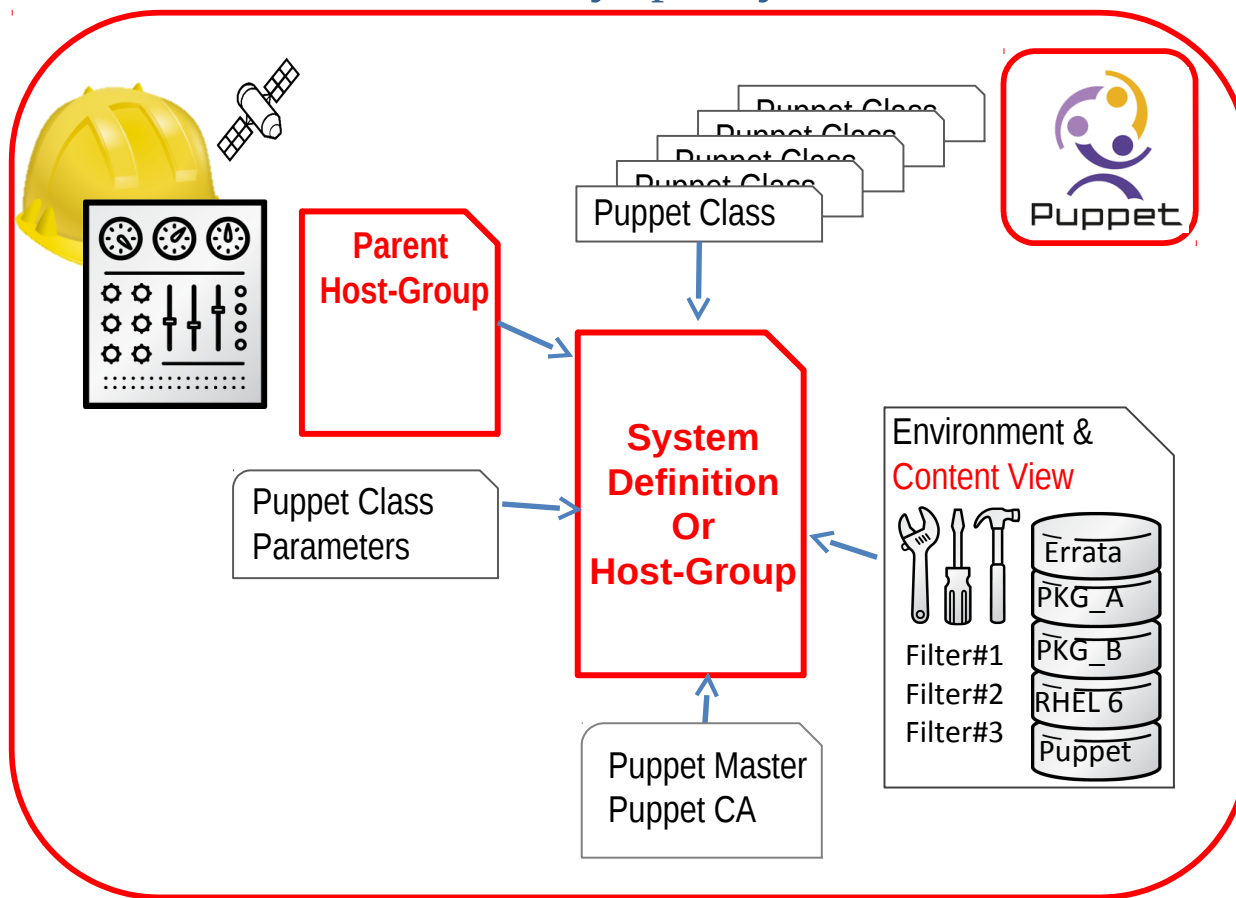


Direct Host Group  
to *Installation Media*:

This resolves to a  
**Content View**  
mapped to an  
Environment

# Red Hat Satellite 6 Basic Workflow

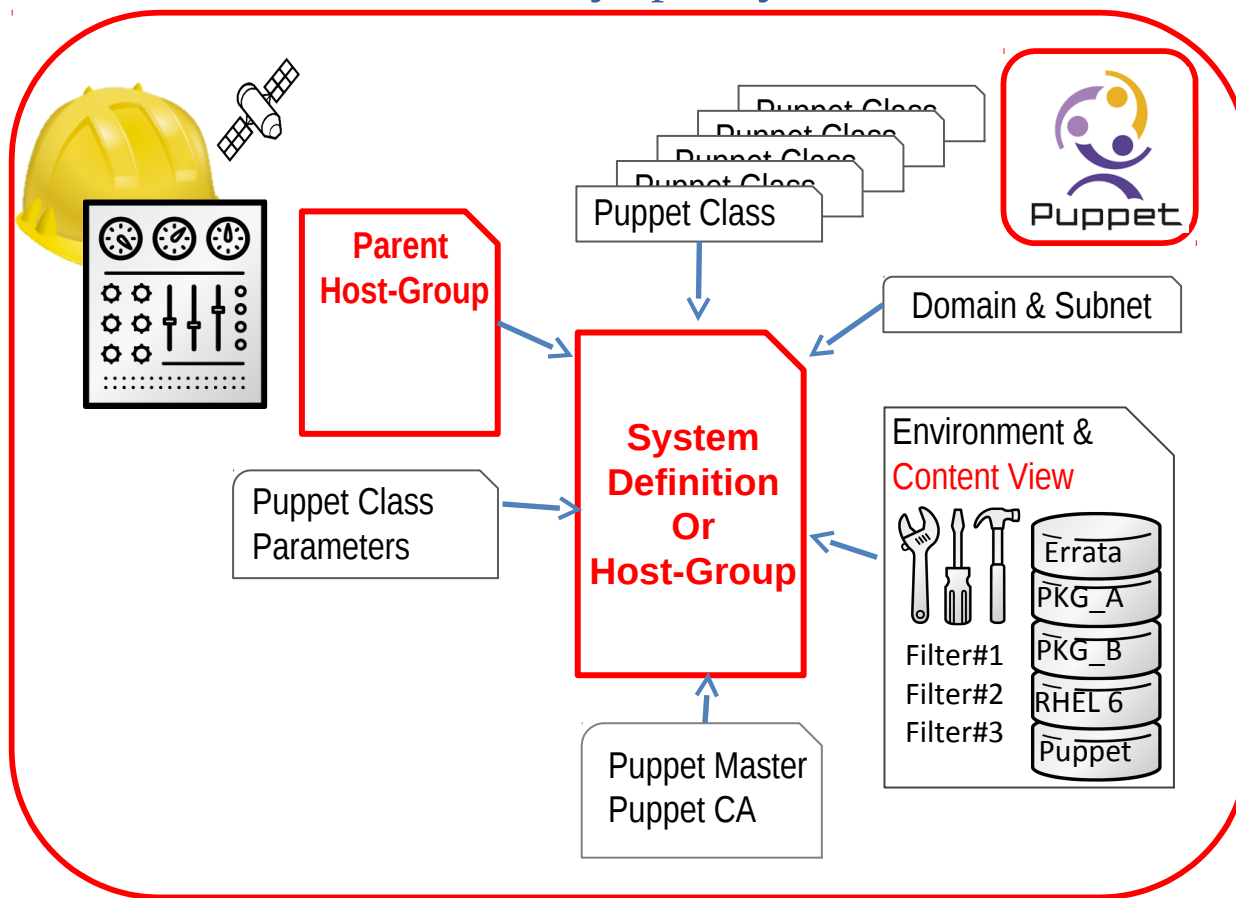
7. Create **Host-Group** or “System Definition” to fully specify workload



Add Puppet Classes  
& related artifacts

# Red Hat Satellite 6 Basic Workflow

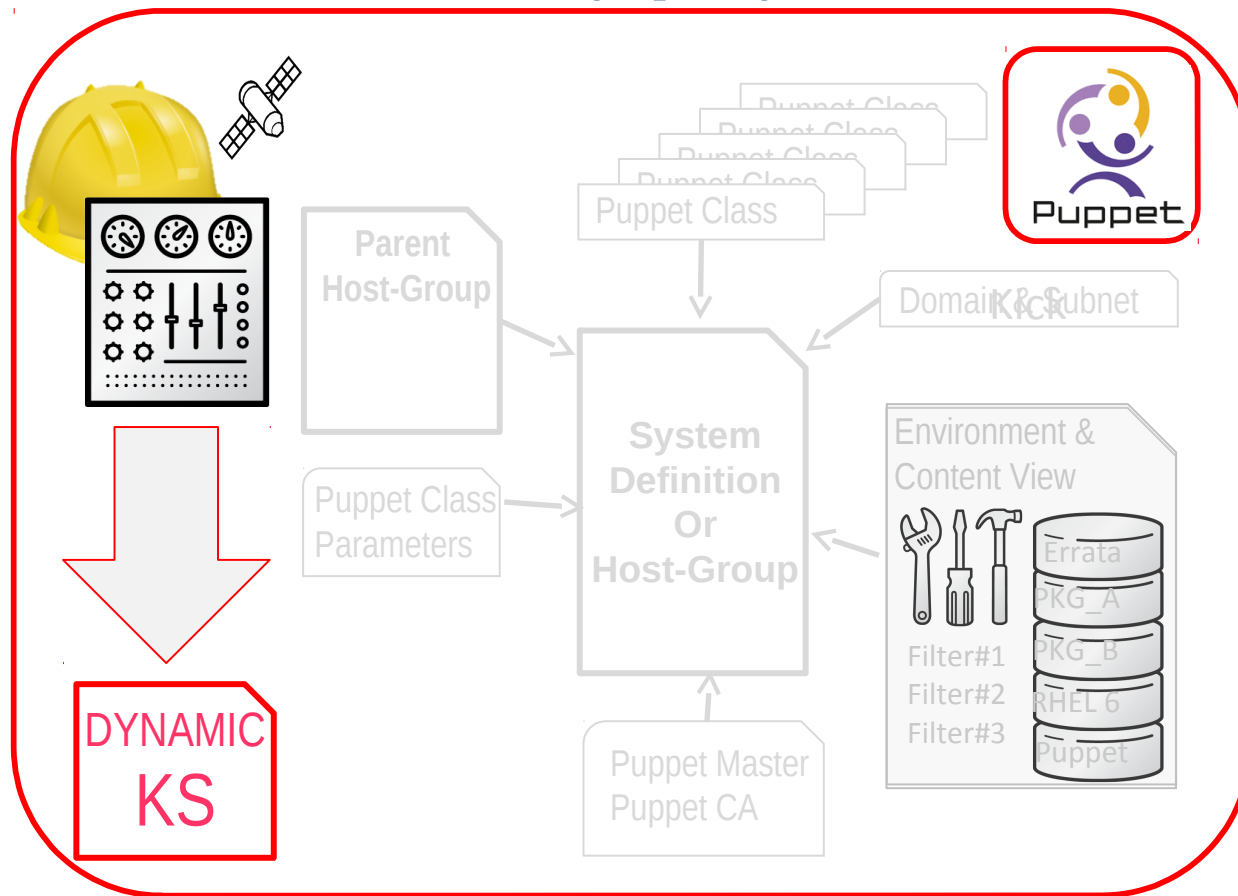
7. Create **Host-Group** or “System Definition” to fully specify workload



Specify the Domain & Subnet for the “new host”

# Red Hat Satellite 6 Basic Workflow

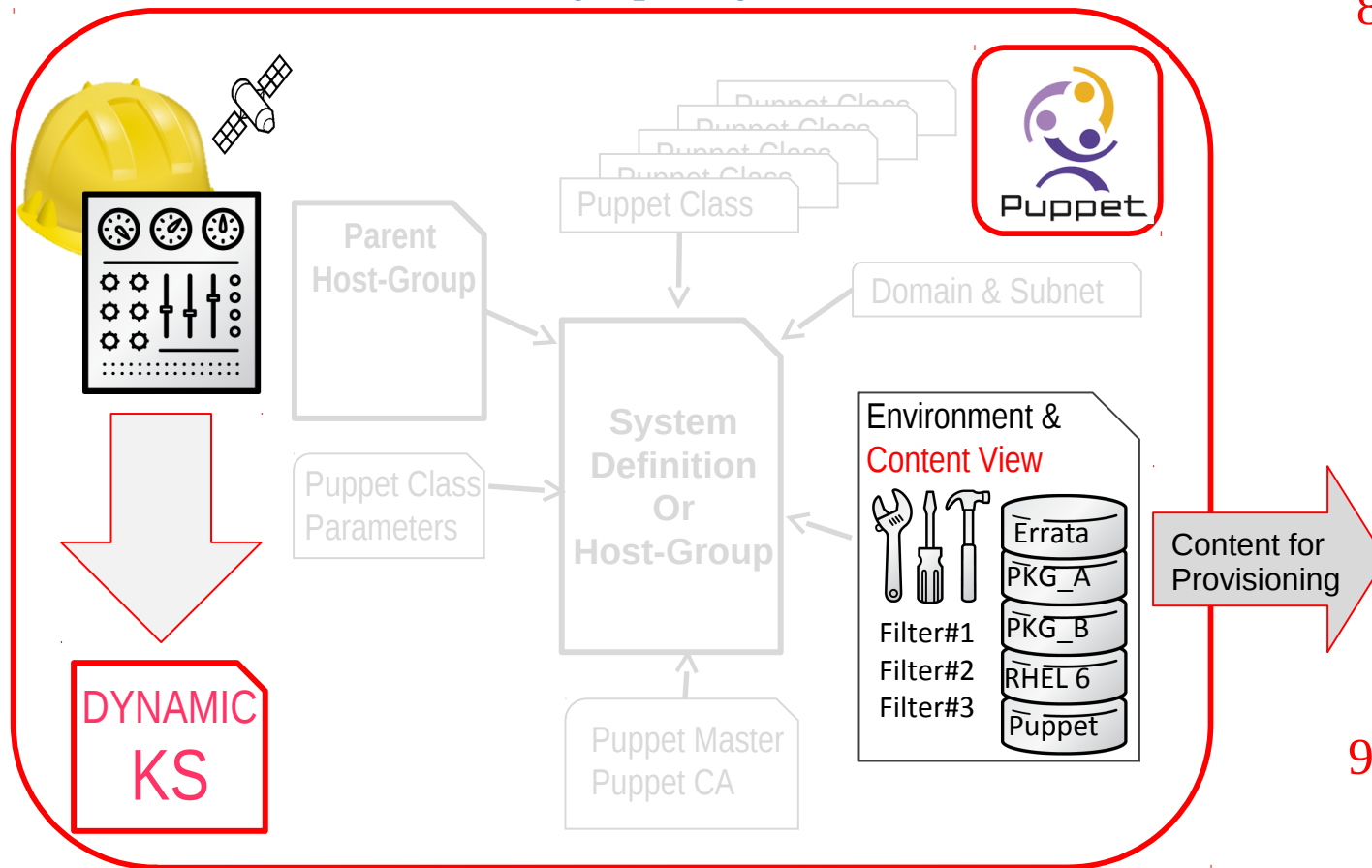
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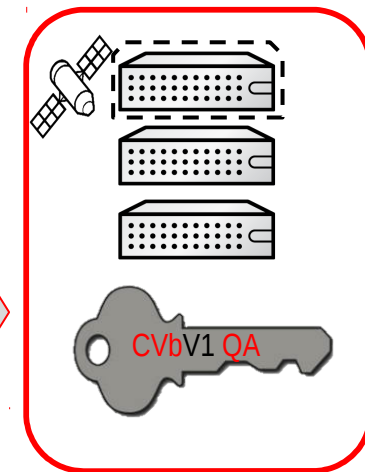
Satellite 6 creates the Kick Start file

# Red Hat Satellite 6 Basic Workflow

7. Create **Host-Group** or “System Definition” to fully specify workload



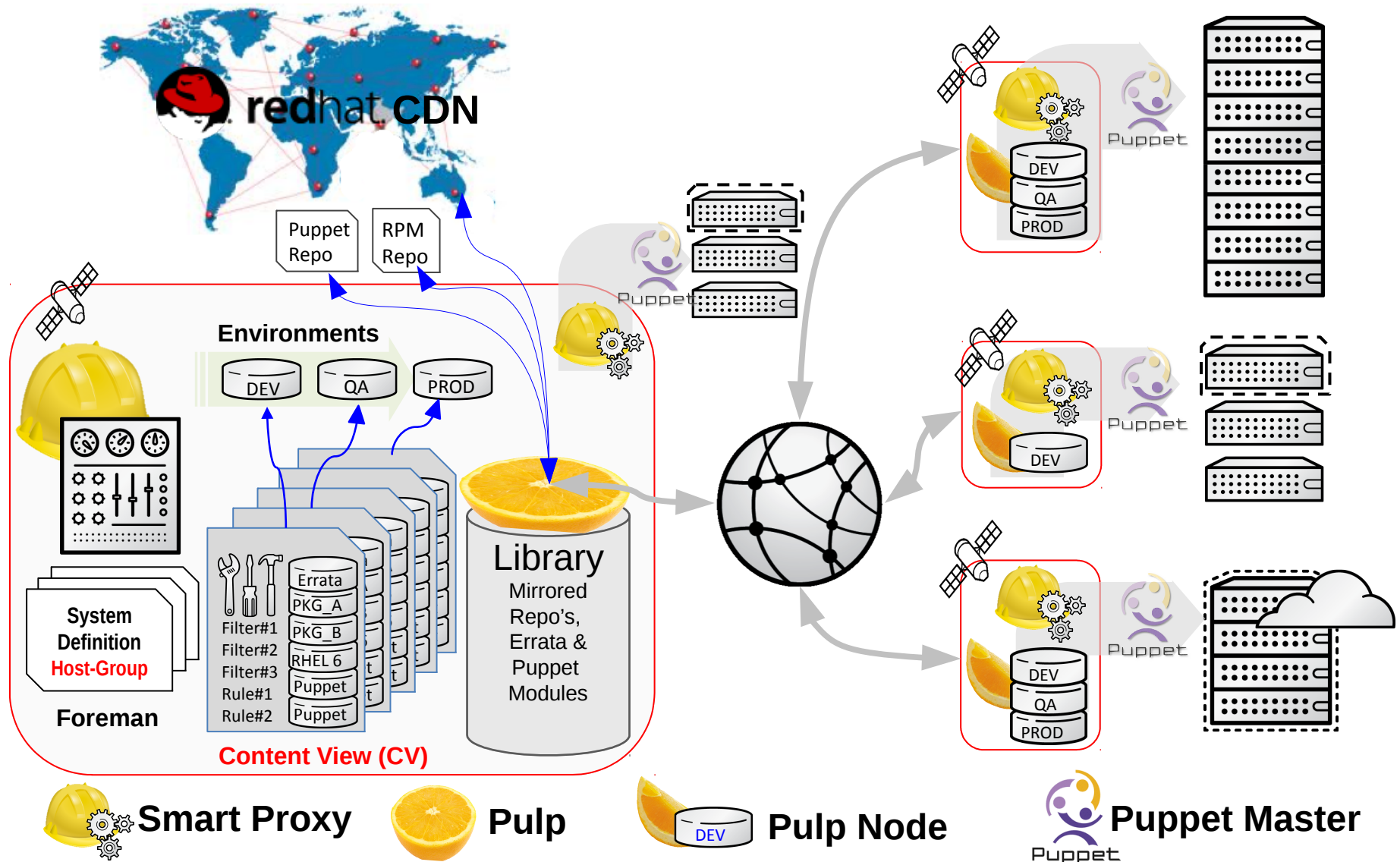
8. System build is automated with KS, PXE & Puppet configuration



9. Systems register back for updates



# Red Hat Satellite 6 Federation



# DEMO

# Summary

## Learn More: Red Hat Satellite 6 Managed Design Program

- [red.ht/mdp](http://red.ht/mdp) to fill out participation request form

## Red Hat Satellite @ Summit:

### Today:

- 3:40-4:40pm, Red Hat Satellite Power User Tips & Tricks
- 4:50-5:50pm, Red Hat Satellite Expert Panel (*F&B provided*)
- 5:30-7:30pm, Reception in Partner Pavilion

### Thursday:

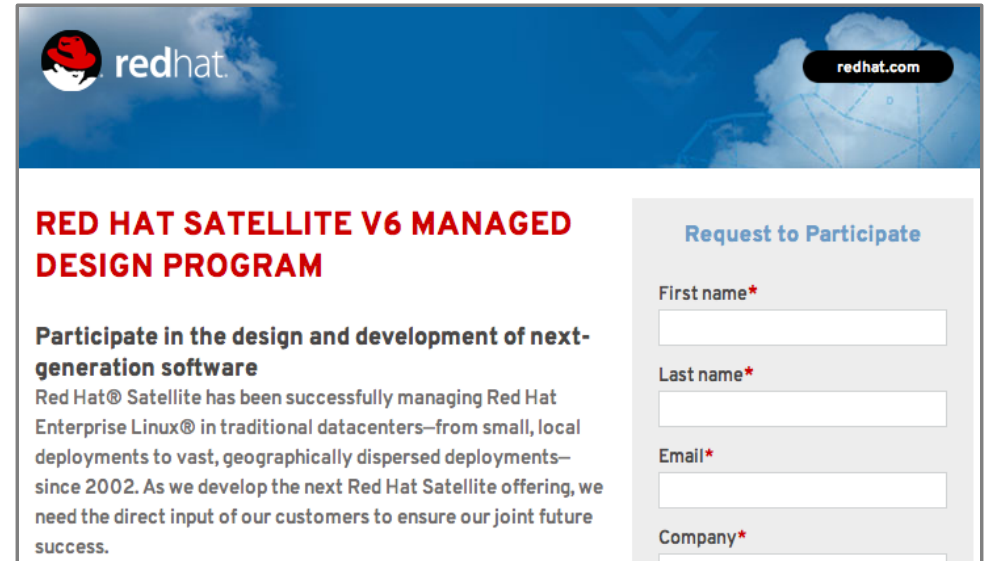
- 11:00-2:00pm, Partner Pavilion
- 2:30-3:30pm, Red Hat Subscription Tools: Easier Management & Faster Issue Resolution
- 4:50-5:50pm, Building and Managing a Standard Operating Environment

### Friday:

- 9:45-10:45am, Real-world Perspectives: Optimizing Infrastructures (Customer Panel)

### Finding Red Hat Satellite in the Partner Pavilion:

*Red Hat Satellite 5 → Infrastructure Pillar*  
*Red Hat Satellite 6 → IaaS Pillar*



The screenshot shows the Red Hat logo and 'redhat.com' in the top right corner. The main heading is 'RED HAT SATELLITE V6 MANAGED DESIGN PROGRAM' in red. Below it, a paragraph describes the program: 'Participate in the design and development of next-generation software. Red Hat® Satellite has been successfully managing Red Hat Enterprise Linux® in traditional datacenters—from small, local deployments to vast, geographically dispersed deployments—since 2002. As we develop the next Red Hat Satellite offering, we need the direct input of our customers to ensure our joint future success.' To the right is a 'Request to Participate' form with fields for 'First name\*', 'Last name\*', 'Email\*', and 'Company\*', each followed by a text input box.

# Questions?