HISTORY OF SYSTEMS MANAGEMENT

First there were platform vendors....
life was simple offering tools to manage only one platform - theirs!

...but enterprises had many platforms..
didn’t want different tools....the era of heterogeneous systems management

...then clouds came along...
- private, public, and hybrid clouds, OpenStack, containers,
... the era of cloud systems management
IT IS UNDERGOING TRANSFORMATION

Would you describe your planned 2017 IT environment as hybrid cloud?

- Yes: 91%
- Unsure: 6%
- No: 3%

Role of OpenStack in overall cloud strategy during the next 3 years:

- 43% Will implement 100% OpenStack cloud environment
- 27% Expect vendors will leverage OpenStack in next generation product architectures
- 18% Use OpenStack APIs to enable management and integration across a broad range of infrastructures and middleware
- 12% Unsure

Do you plan to run container-based architectures to support new or existing workloads and applications by 2017?

- Yes: 67%
- Unsure: 23%
- No: 10%

Hybrid Cloud + OpenStack + Containers
MANAGEMENT IS CHANGING TOO

Considering all the changes your organization faces in terms of implementing hybrid cloud and next-generation application architectures, do you believe you will need to purchase new management software solutions between now and 2017?

- 74% Yes
- 15% Unsure
- 11% No
Gartner Predicts:

“By 2017, at least two of the "Big Four" IT operations management (ITOM) vendors will cease to be viable strategic partners for 60% of I&O organizations”
SO WHAT DOES THIS HAVE TO DO WITH RED HAT?

APPLICATION DEVELOPMENT TEAM

APPLICATION PLATFORM

APPs

Business Processes

VMs

Containers

INFRASTRUCTURE TEAM

INFRASTRUCTURE

Compute

Storage

Network
RED HAT MANAGEMENT IS HERE

- **Operations Team**
  - Apps
  - Business Processes

- **Application Development Team**
  - VMs
  - Containers

- **Infrastructure Team**
  - Compute
  - Storage
  - Network
WHY ARE WE IN MANAGEMENT?

We’re building the next generation cloud infrastructure and application platforms:
- Atomic Host
- RHMAP
- JBoss EAP
- OpenShift
- RHELOSP
- RHEV
- RHS

We’ve made manageability a priority across all areas:
- Containers
- IaaS
- Middleware
- PaaS
- Security
- Storage
- Virtualization

We’re working across management projects such as:
- Cockpit
- Docker
- FreeIPA
- Foreman
- Katello
- Kubernetes
- OpenStack
- Pulp
- Puppet
- ManageIQ

We are developing capabilities in:
- Automation
- Configuration
- Management
- Identity
- Management
- Lifecycle
- Management
- Orchestration
WHAT ARE WE NOT DOING IN MANAGEMENT?

NOT BUILDING A MANAGEMENT MONOPOLY
NOT ATTEMPTING TO COVER ALL MANAGEMENT DISCIPLINES
NOT ONLY MANAGING OUR PLATFORMS
# MANAGEMENT

**TOOLS VS. SUITES VS. PLATFORMS**

<table>
<thead>
<tr>
<th>TOOLS</th>
<th>SUITES</th>
<th>PLATFORMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usually provide a single management function or area, provided by a single vendor.</td>
<td>Usually provide multiple management functions, rarely well-integrated, provided by a single vendor.</td>
<td>Usually provide some management functions out-of-the-box and allow integration of 3rd party tools, proprietary and dominated by a single vendor.</td>
</tr>
</tbody>
</table>
RED HAT IS BUILDING AN OPEN MANAGEMENT PLATFORM

A 100% open source management platform to enable composable management providing customers and partners the abilities to integrate any management tool or technology across private, public and hybrid clouds

http://manageiq.org/

A growing community of companies solving current and future management challenges across private, public and hybrid clouds.
RED HAT MANAGEMENT

OPERATIONS TEAM

APPLICATION DEVELOPMENT TEAM

INFRASTRUCTURE TEAM

MANAGEMENT

APPLICATION PLATFORM

INFRASTRUCTURE

Apps | Business Processes

VMs | Containers

Compute | Storage | Network
RED HAT MANAGEMENT

- **Orchestration**: CloudForms
- **Configuration Automation**: Satellite
- **Lifecycle**: JBoss on | OpenShift | RHELOSP | RHEV-M
- **Middleware**: Apps | Business Processes
- **Virtualization**: VMs | Containers
  - RHEL | RHS | OpenDaylight
  - Compute | Storage | Network
RED HAT OPEN MANAGEMENT

- ManageIQ
- Foreman | Puppet
- RHQ | OpenShift Origin
- OpenStack | oVirt
- JBoss
- KVM | Linux Containers
- Ceph | Gluster

Layers:
- CLOUDFORMS
- SATELLITE
- JBOSS ON | OPENSHEET | RHELOSP | RHEV-M
- Apps / Business Processes
- JBOSS
- VMs / Containers
- RHEL / RHS / OpenDaylight
- Compute / Storage / Network
RED HAT MANAGEMENT IS COMPOSABLE
# Sessions About Orchestration

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
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</thead>
<tbody>
<tr>
<td>Hands On With Red Hat CloudForms</td>
<td>10.30AM</td>
<td>BALLROOM B-1</td>
</tr>
<tr>
<td>Managing Your Cloud Environment - Customer Insights*</td>
<td>1.30PM</td>
<td>BALLROOM B-1</td>
</tr>
<tr>
<td>Out With The Old: How Red Hat CloudForms Improves Management ...*</td>
<td>2.30PM</td>
<td>ROOM 310</td>
</tr>
<tr>
<td>OpenStack Infrastructure Management With Red Hat CloudForms</td>
<td>4:50PM</td>
<td>ROOM 313</td>
</tr>
<tr>
<td>Managing OpenStack Clouds With Red Hat CloudForms</td>
<td>7:00PM</td>
<td>ROOM 202</td>
</tr>
<tr>
<td>Red Hat CloudForms, Red Hat Satellite 6, &amp; Puppet for Automating JBoss EAP 6</td>
<td>1:20PM</td>
<td>ROOM 311</td>
</tr>
<tr>
<td>CloudForms Automate and Red Hat Enterprise Virtualization</td>
<td>1:20PM</td>
<td>BALLROOM B-4</td>
</tr>
<tr>
<td>ShellShock, HeartBleed--What’s The Next Headache For Compliance?</td>
<td>1:20PM</td>
<td>ROOM 304</td>
</tr>
<tr>
<td>Red Hat CloudForms Roadmap</td>
<td>2:30PM</td>
<td>ROOM 206</td>
</tr>
<tr>
<td>ManageIQ Birds Of A Feather Session</td>
<td>4:00PM</td>
<td>BOSTON</td>
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<tr>
<td>Cloud Automation: Migrating 1000+ Servers from vCloud to OpenStack</td>
<td>11:00AM</td>
<td>ROOM 313</td>
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</tbody>
</table>
CONFIGURATION AND AUTOMATION

**Satellite 6 Roadmap**
1:20PM ROOM 312

**IKEA vs Shellshock: 1-0**
2:30PM ROOM 304

**Real-World Perspectives: Managing Infrastructures with Satellite (Panel)**
3:40PM BALLROOM B-4

**Transitioning From Satellite 5 to 6**
4:50PM ROOM 311

**Security Compliance Made Easy(er): Entering SCAP Renaissance**
10:40AM ROOM 304

**Shellshock, Heartbleed - What’s The Next Headache for Compliance**
1:20PM ROOM 304

**CloudForms, Satellite 6 and Puppet for Automating JBoss EAP 6**
1:20PM ROOM 311

**Security Compliance Made Easy With OpenSCAP**
3:30PM BALLROOM B-3

**10 Steps To Build A Standard Operating Environment**
3:40PM ROOM 311

**Puppet Enterprise and Satellite 6**
4:50PM ROOM 311

**Satellite 6 Power User Tips and Tricks**
9:45AM BALLROOM A
# CLOUD INFRASTRUCTURE

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WEDNESDAY</strong></td>
<td></td>
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<tr>
<td>RHEV Overview And Roadmap</td>
<td>10:40AM</td>
<td>ROOM 312</td>
</tr>
<tr>
<td>Deploy An IaaS Private Cloud</td>
<td>10:40AM</td>
<td>ROOM 313</td>
</tr>
<tr>
<td>Satellite 6 Roadmap</td>
<td>1:20PM</td>
<td>ROOM 312</td>
</tr>
<tr>
<td>RHCI And Identity Management</td>
<td>4:50PM</td>
<td>ROOM 304</td>
</tr>
<tr>
<td>OpenStack Infrastructure Management With Cloudforms</td>
<td>4:50PM</td>
<td>ROOM 313</td>
</tr>
<tr>
<td><strong>THURSDAY</strong></td>
<td></td>
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</tr>
<tr>
<td>CloudForms Automate And RHEV</td>
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<td>BALLROOM B-4</td>
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<td>ROOM 312</td>
</tr>
<tr>
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<td>ROOM 313</td>
</tr>
<tr>
<td><strong>FRI</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Migrating 1000+ Servers From vCloud To OpenStack</td>
<td>11:00AM</td>
<td>ROOM 313</td>
</tr>
</tbody>
</table>
SEE IT IN ACTION
DEMONS, SESSIONS, AND HANDS ON

ORCHESTRATION
http://j.mp/orchattendedsummit

CONFIGURATION AND AUTOMATION
http://j.mp/autoattendedsummit

CLOUD INFRASTRUCTURE
http://j.mp/cloudinfraattendedsummit
MORE THAN JUST LINUX.