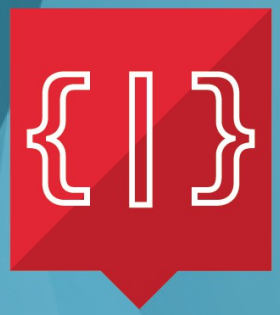


RED HAT
TECH
EXCHANGE
Asia Pacific

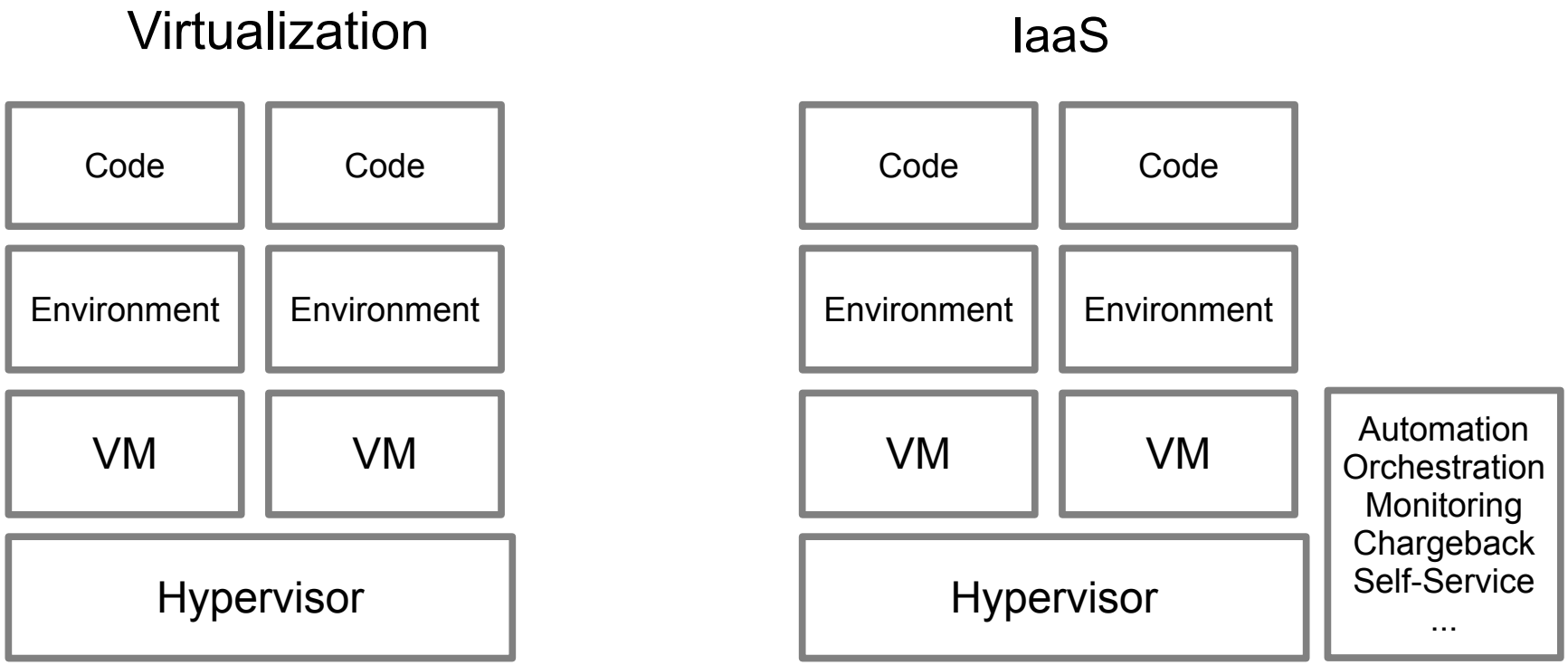
STRONGER
TOGETHER

Deploying OpenShift with CloudForms

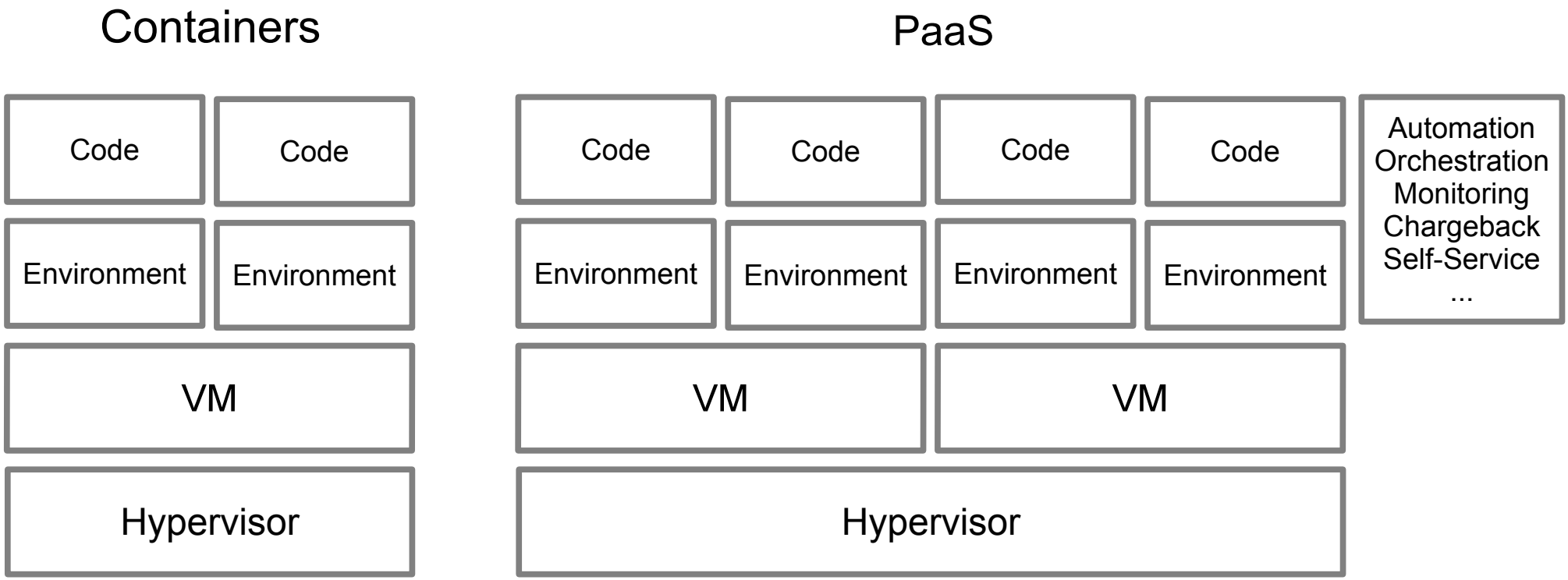
@jameslabocki

2 - 6 September 2013 Bangkok, Thailand

We All Know This ...



... But Does This Look Familiar?



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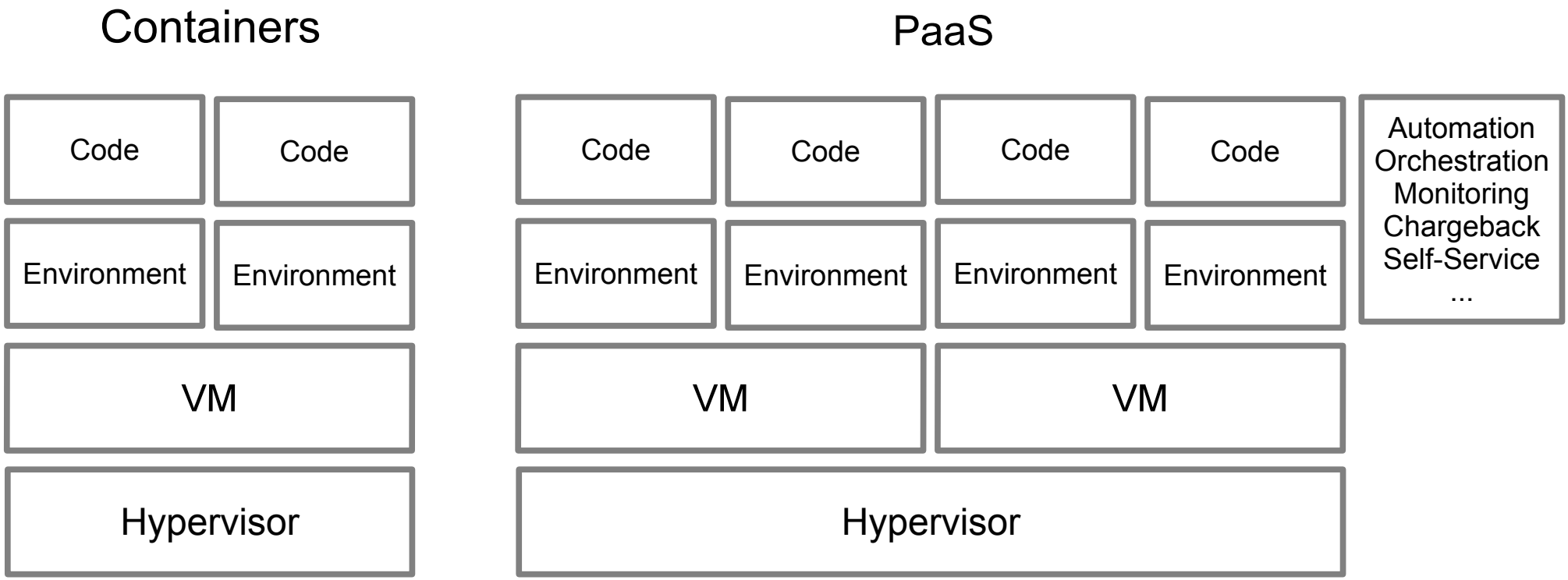
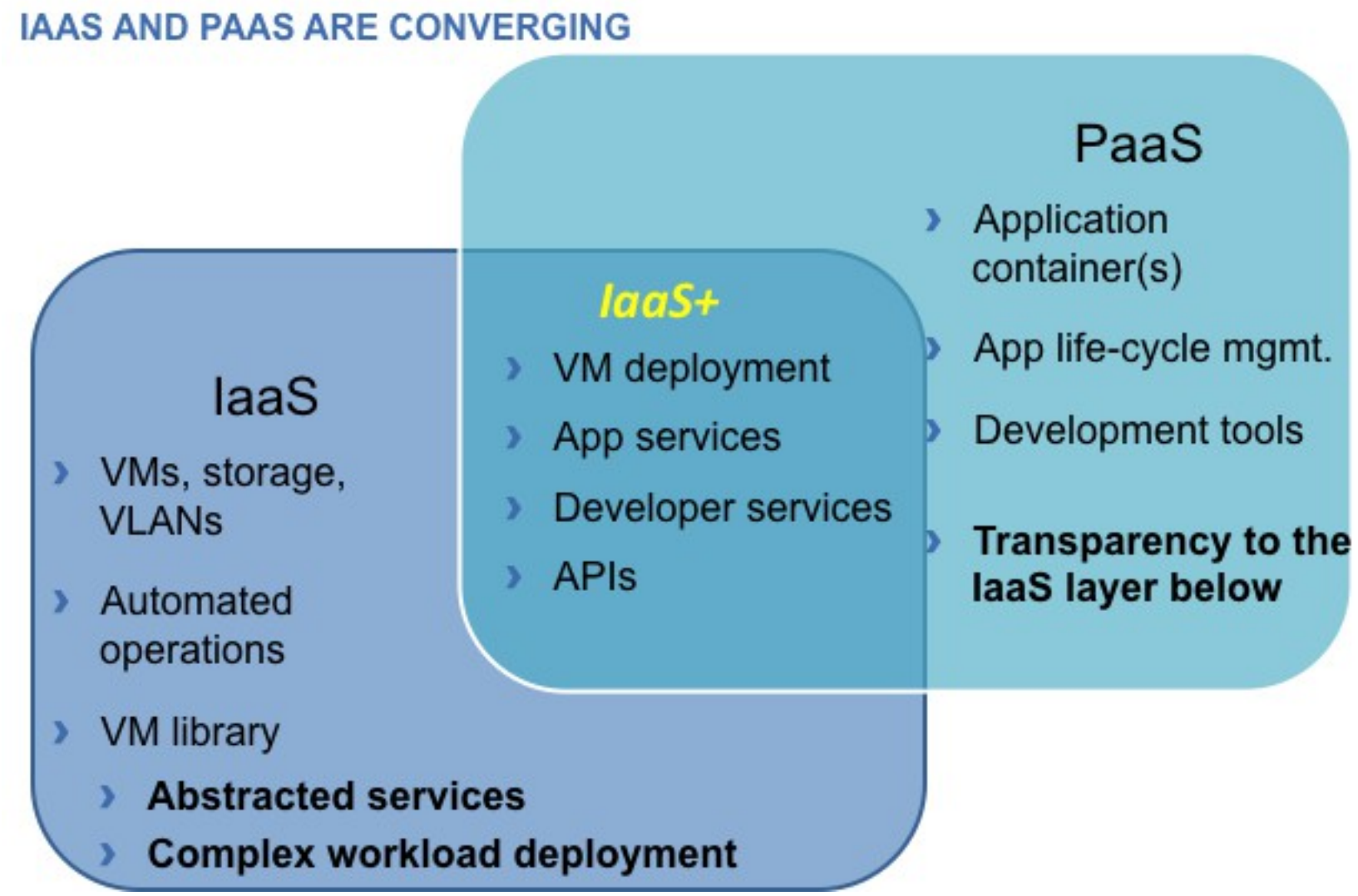


The Operating System is the new Hypervisor

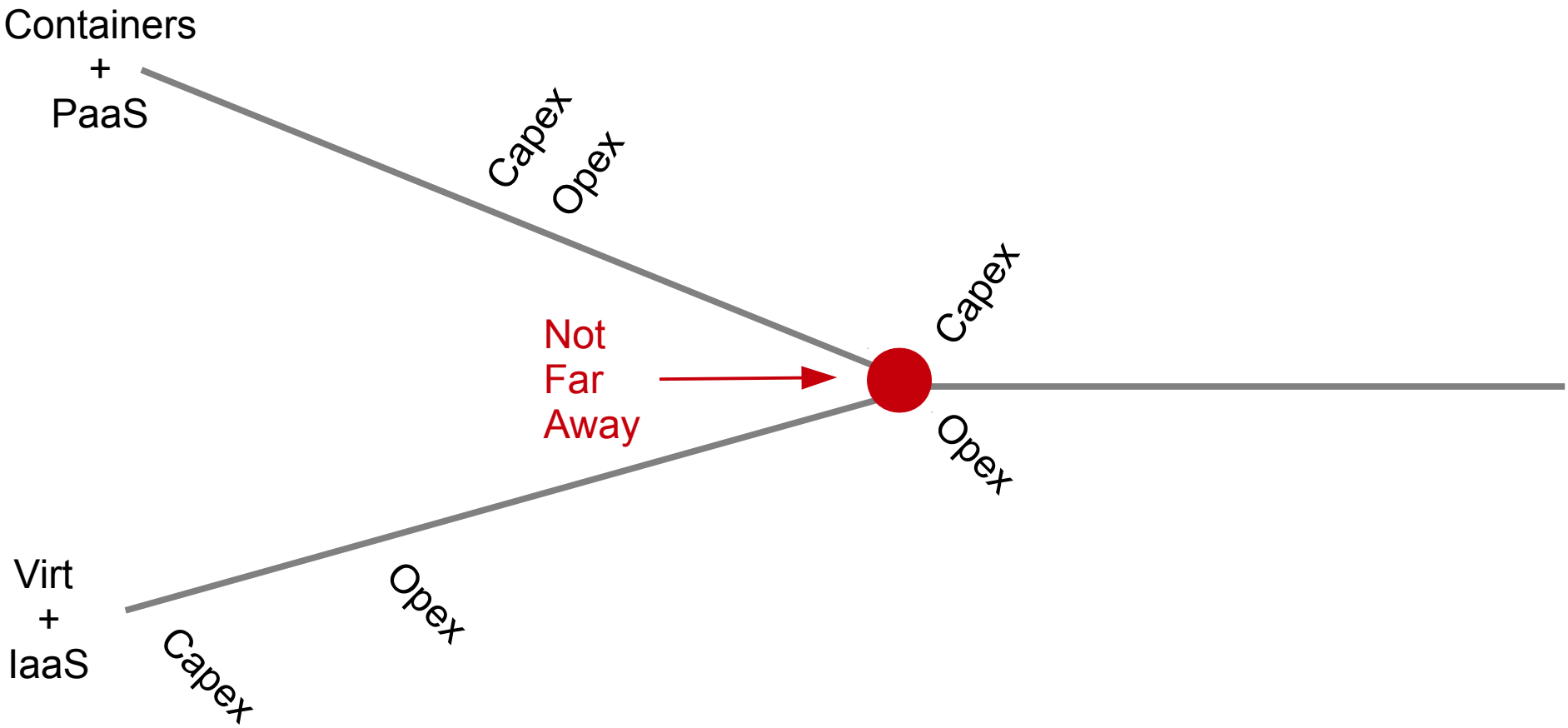
The Container is the new Virtual Machine

Greater Density and More Control

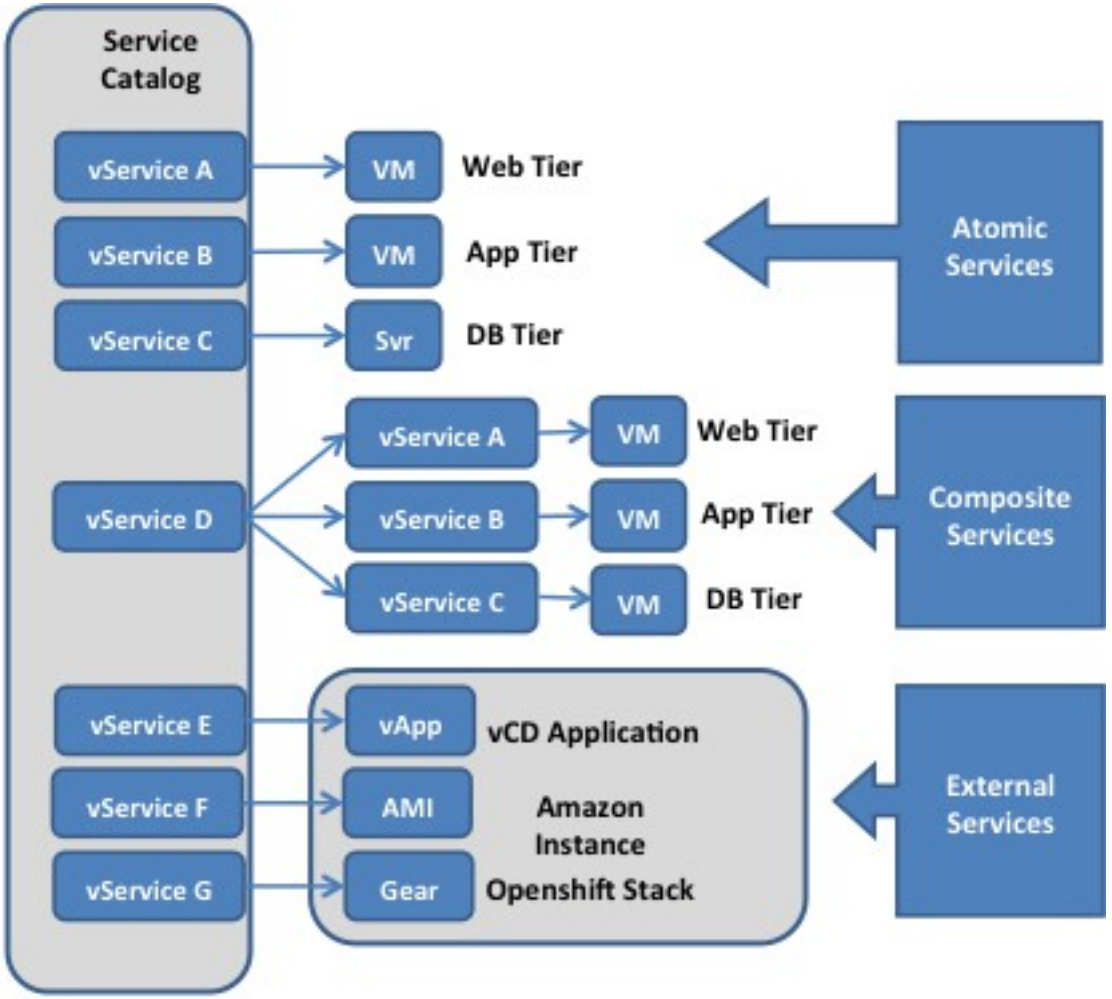
It's NOT an EITHER/OR it's BOTH



Efficiency


Containers
+
PaaS
Capex
Opex
Not
Far
Away
Capex
Opex
Virt
+
IaaS
Capex
Opex

Application Stacks Without Boundaries



New and Changing Roles

Integration Architects

Integrating physical, virtual, private cloud, and external service providers.

Cloud Service Designer

Identify and Qualify workloads and maintain them in a catalog.

Service Assurance Managers

Holistic view of quality of service between platforms.

Who is asking?

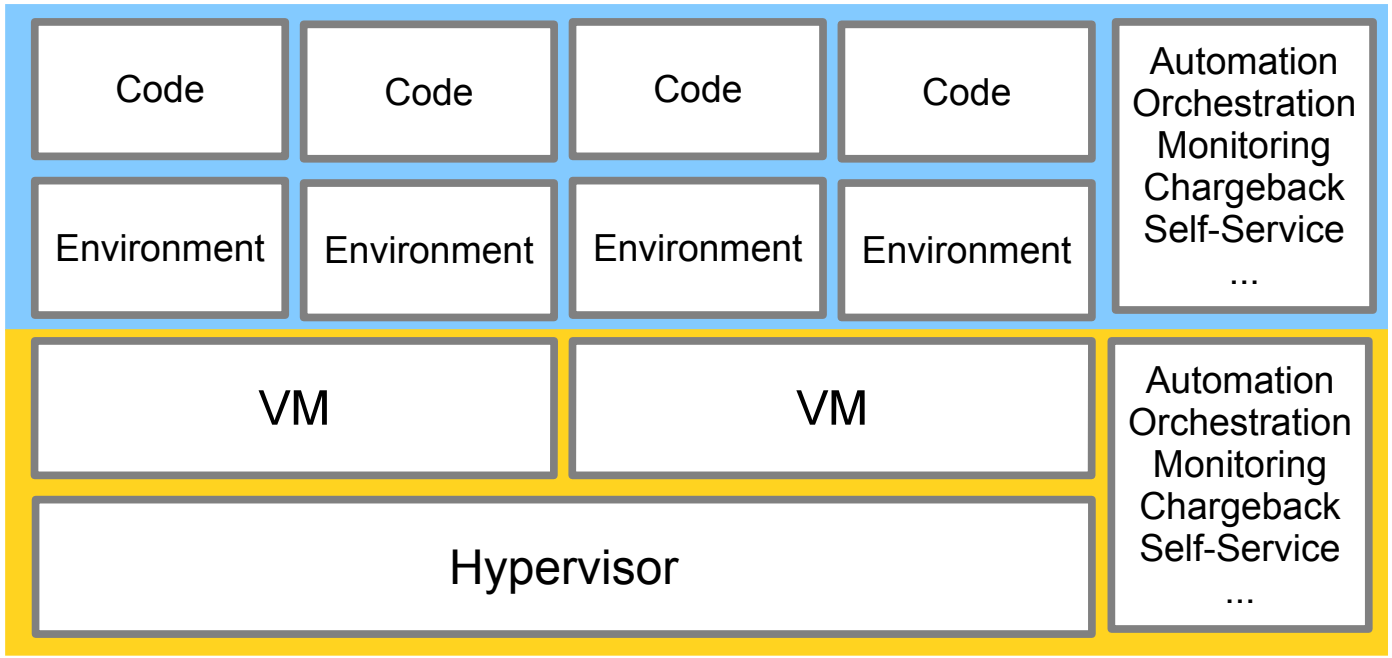
- Retailer
- Financial Services
- Healthcare Provider
- Universities
- Red Hat Partners

The Landscape

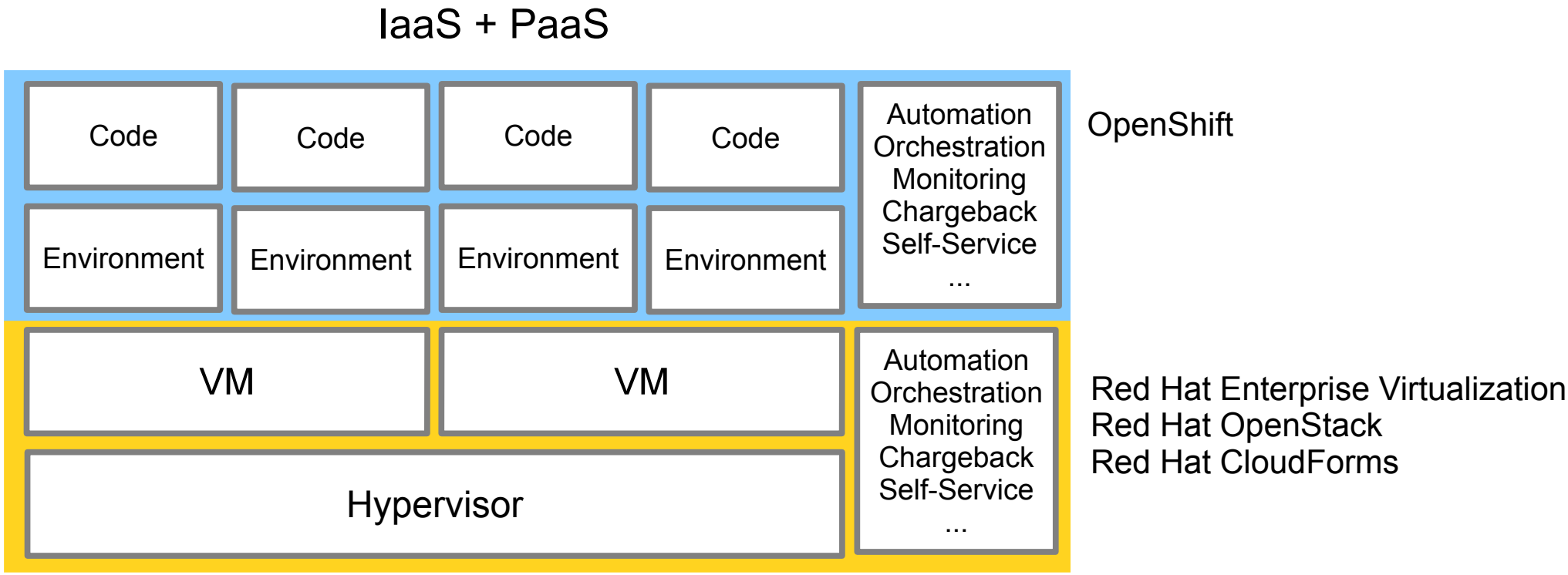
Red Hat has the pieces .... we need to assemble them!

Red Hat's Opportunity

IaaS + PaaS



Red Hat's Opportunity

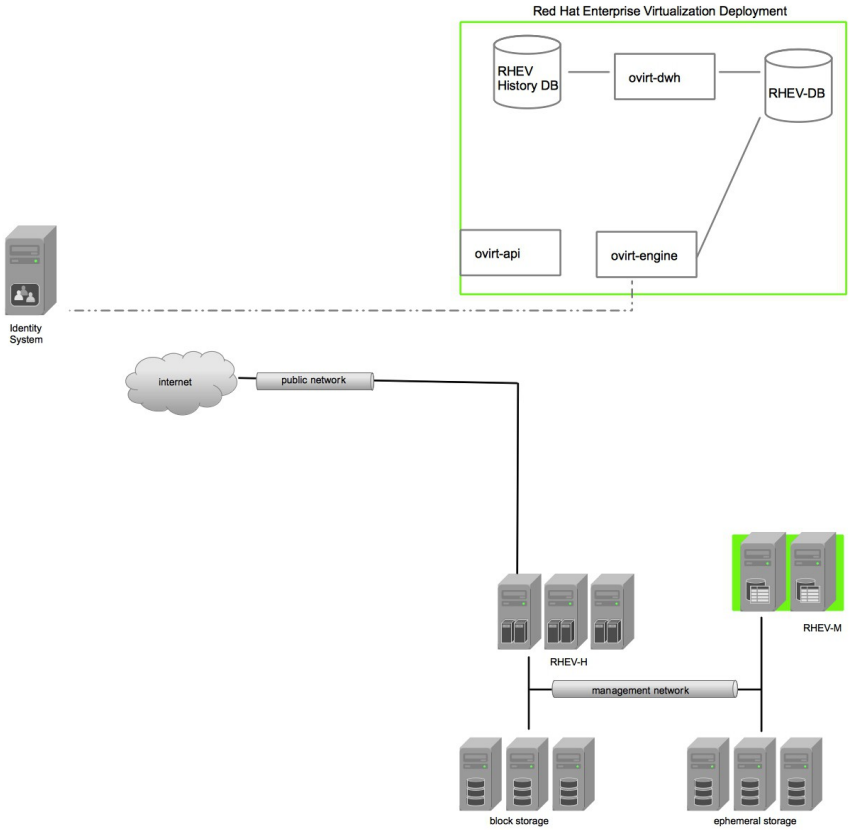


Thanks For The Inspiration, But What About Today?

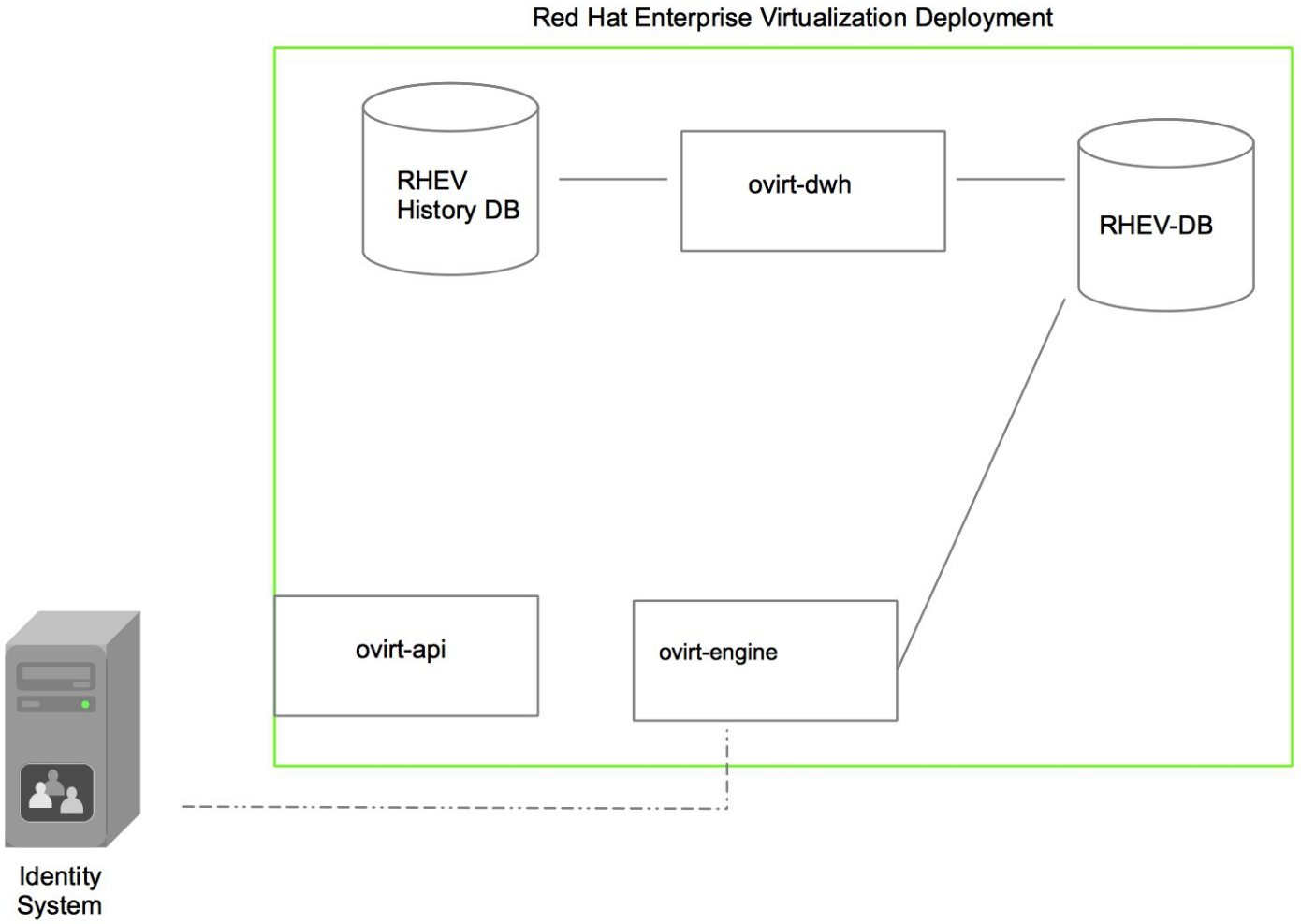
For Now, Let's Start with Something Simple ...

- Automated Deployment of OpenShift Infrastructure on RHEV, vSphere, or OpenStack
- Deploying OpenShift Applications from CloudForms
- Automatic Scaling of OpenShift Infrastructure

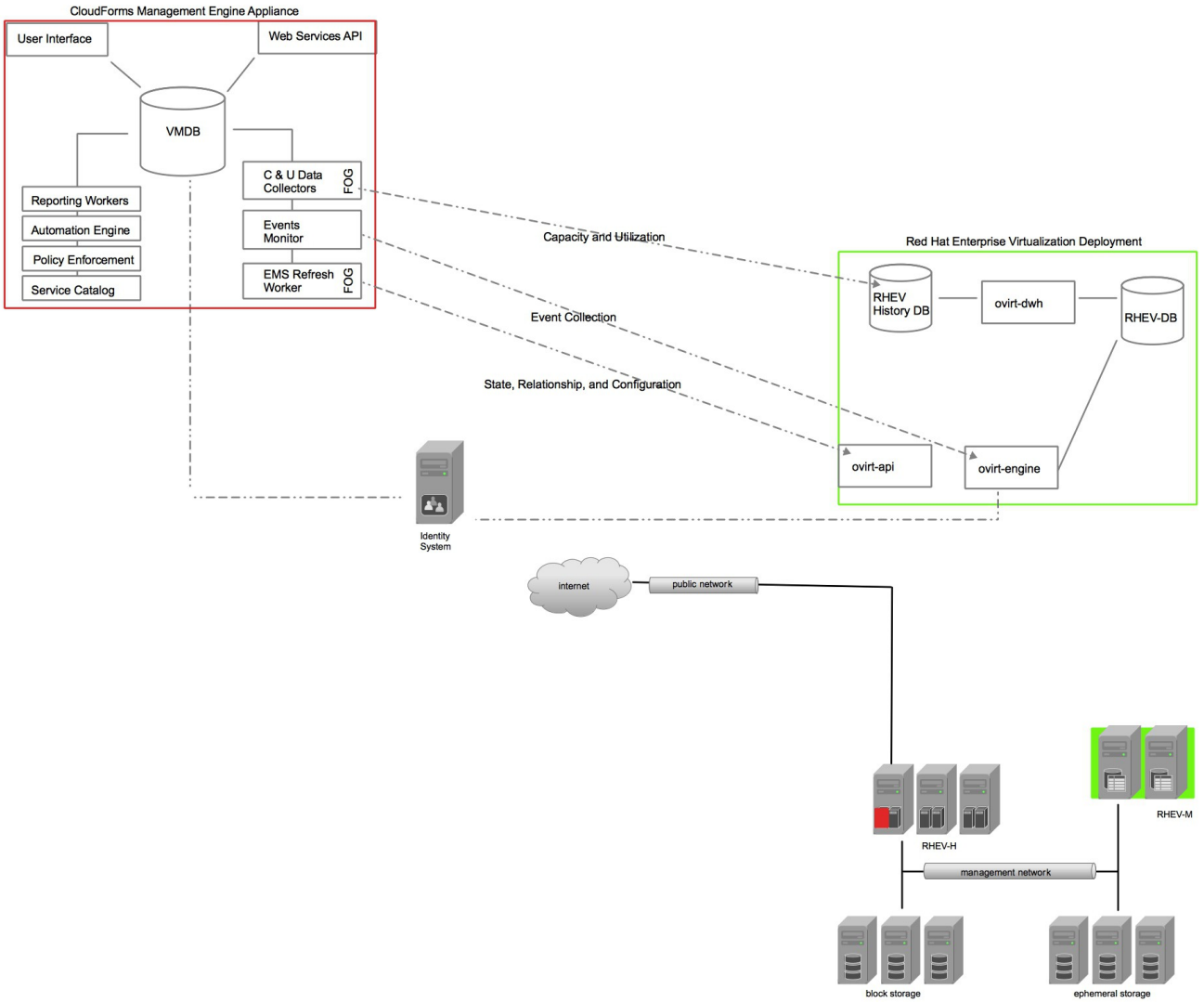
Architecture (RHEV)



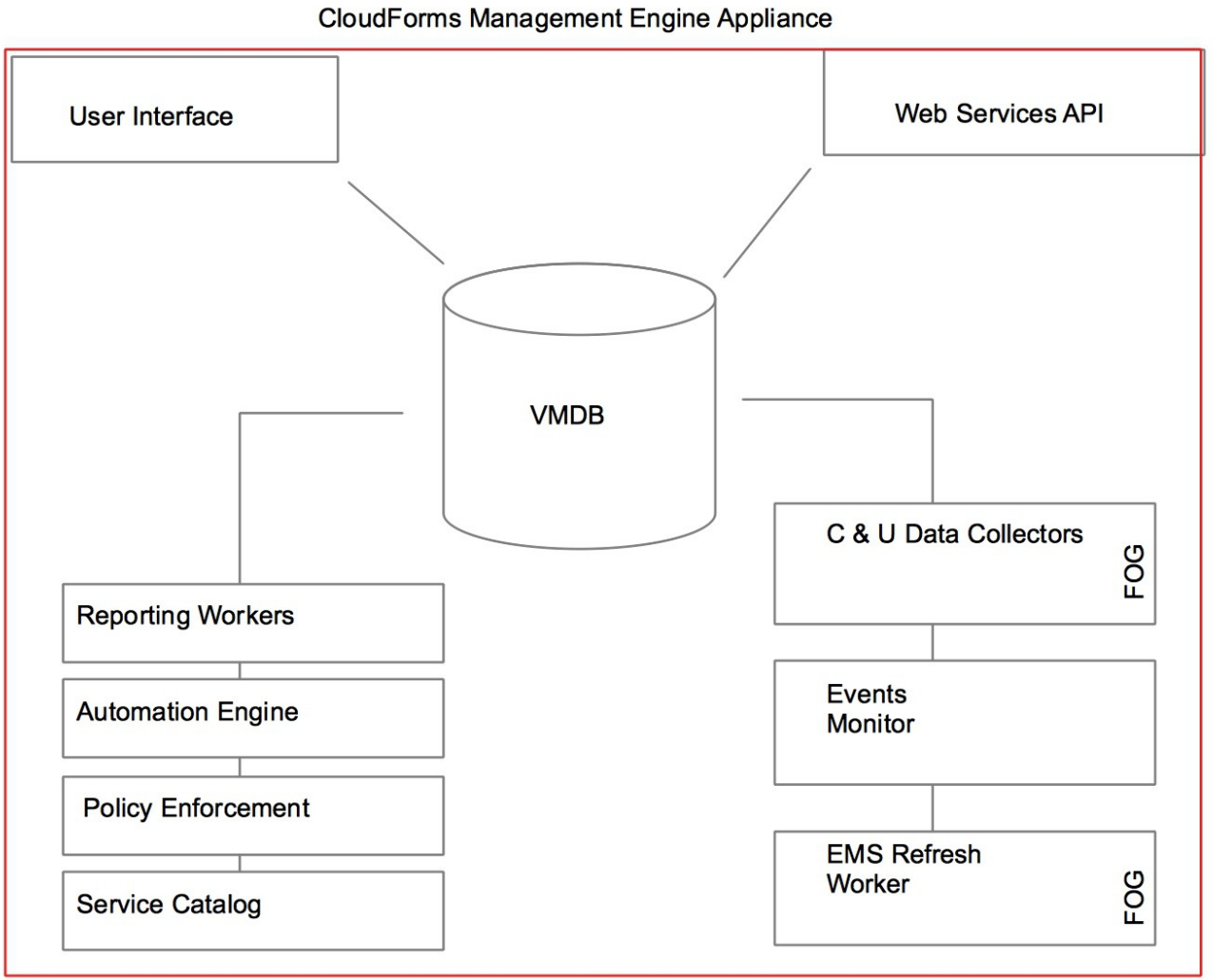
Architecture (RHEV)



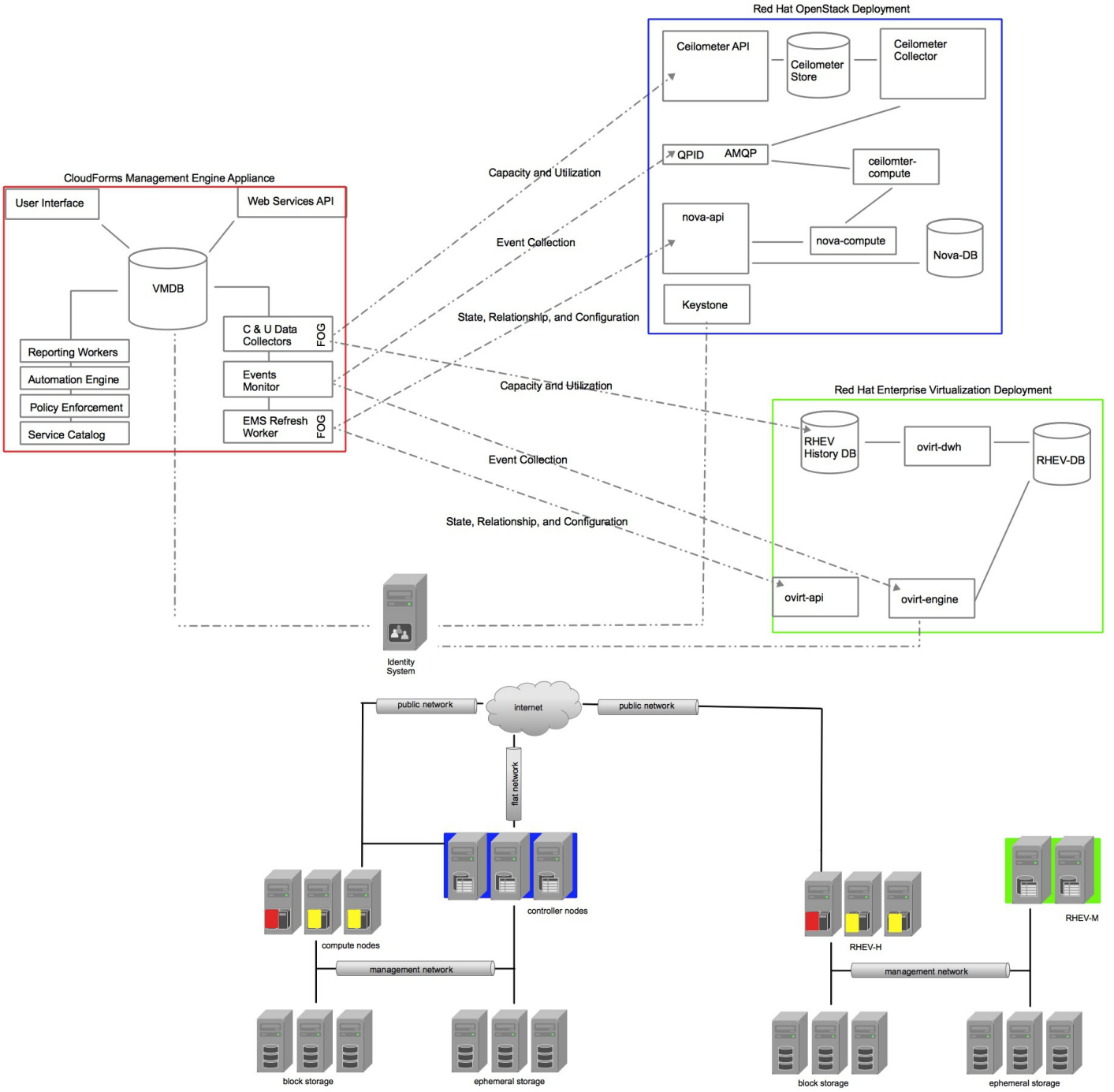
Architecture (RHEV+CloudForms)



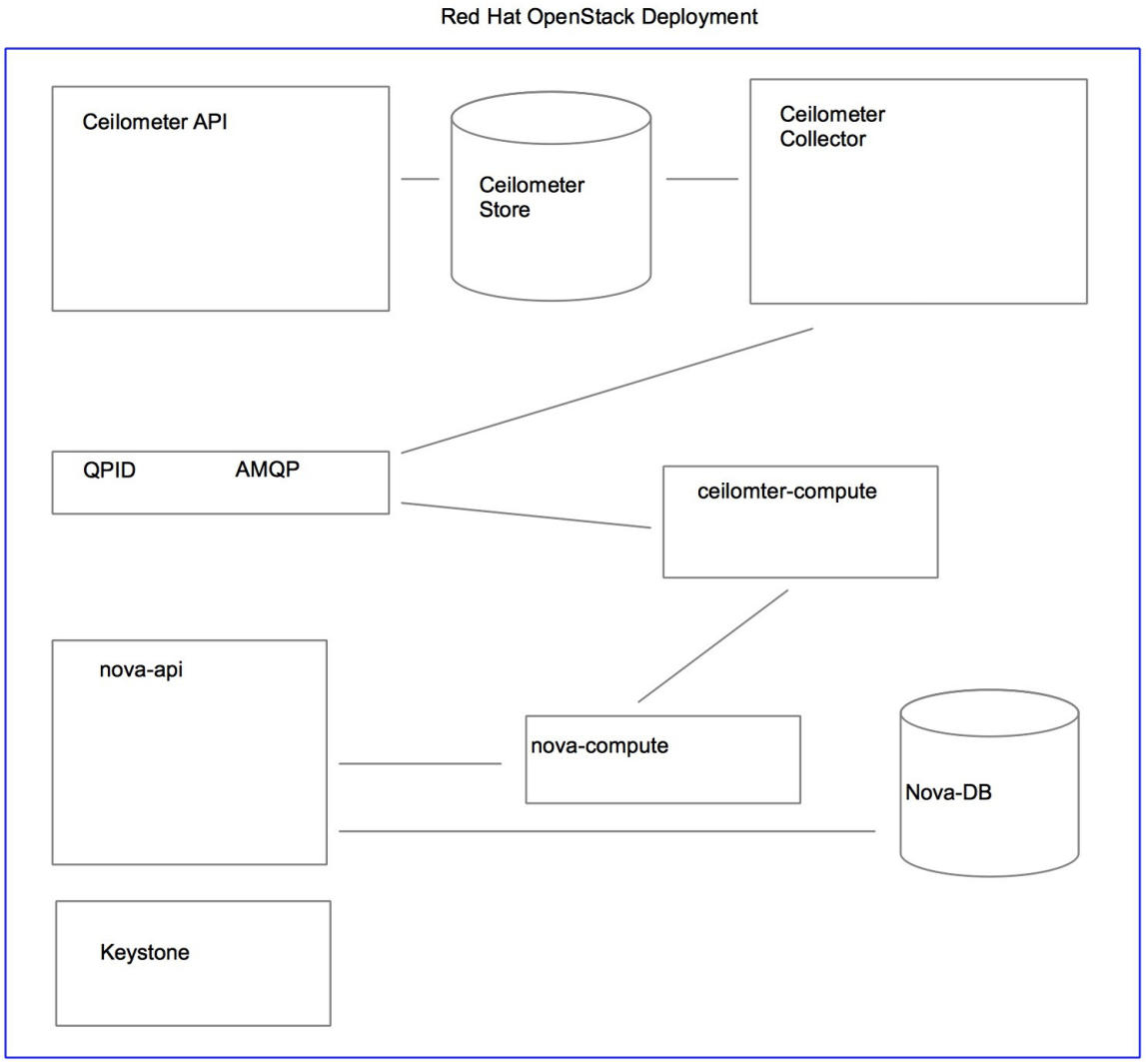
Architecture (RHEV)



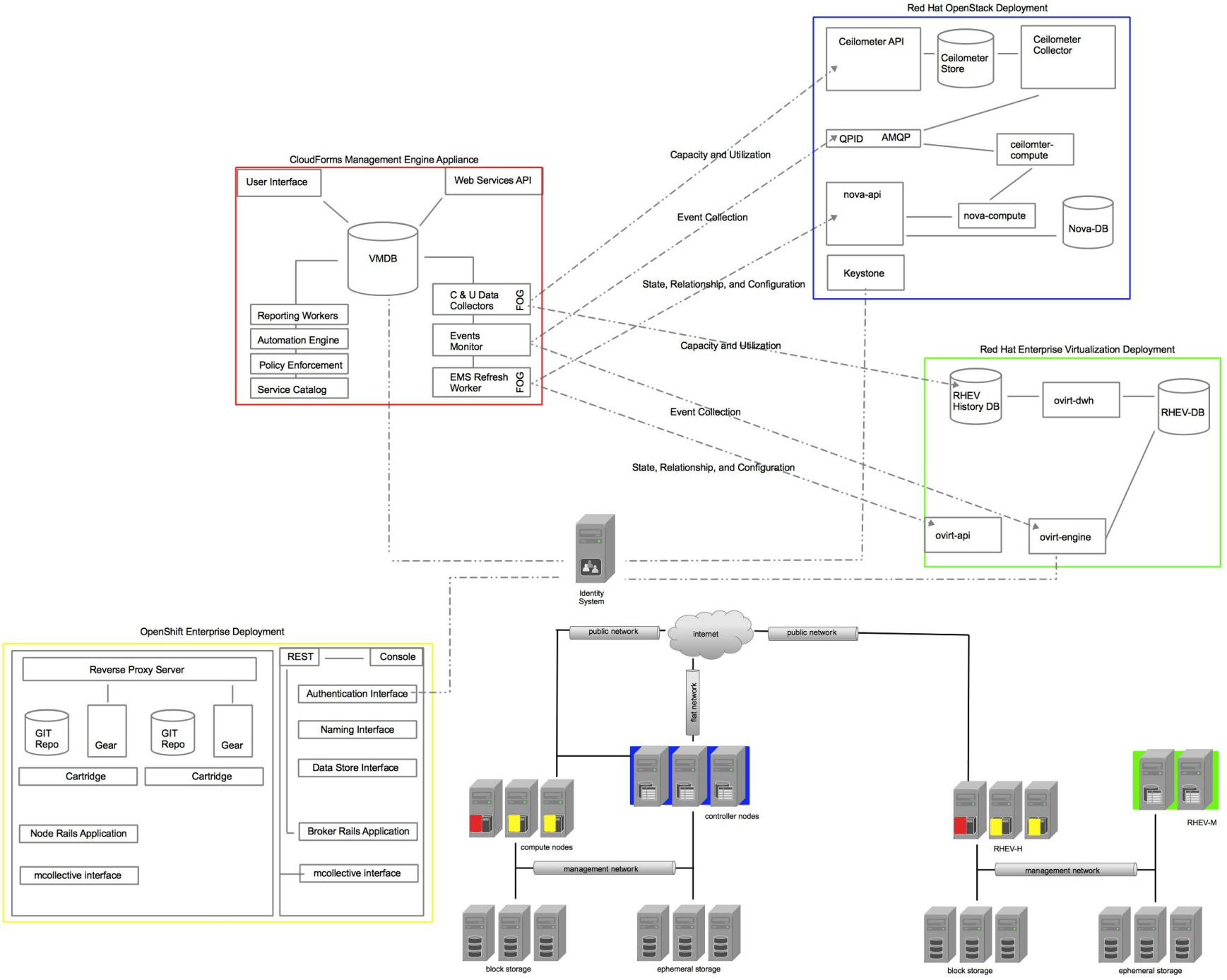
Architecture (Red Hat Cloud Infrastructure)



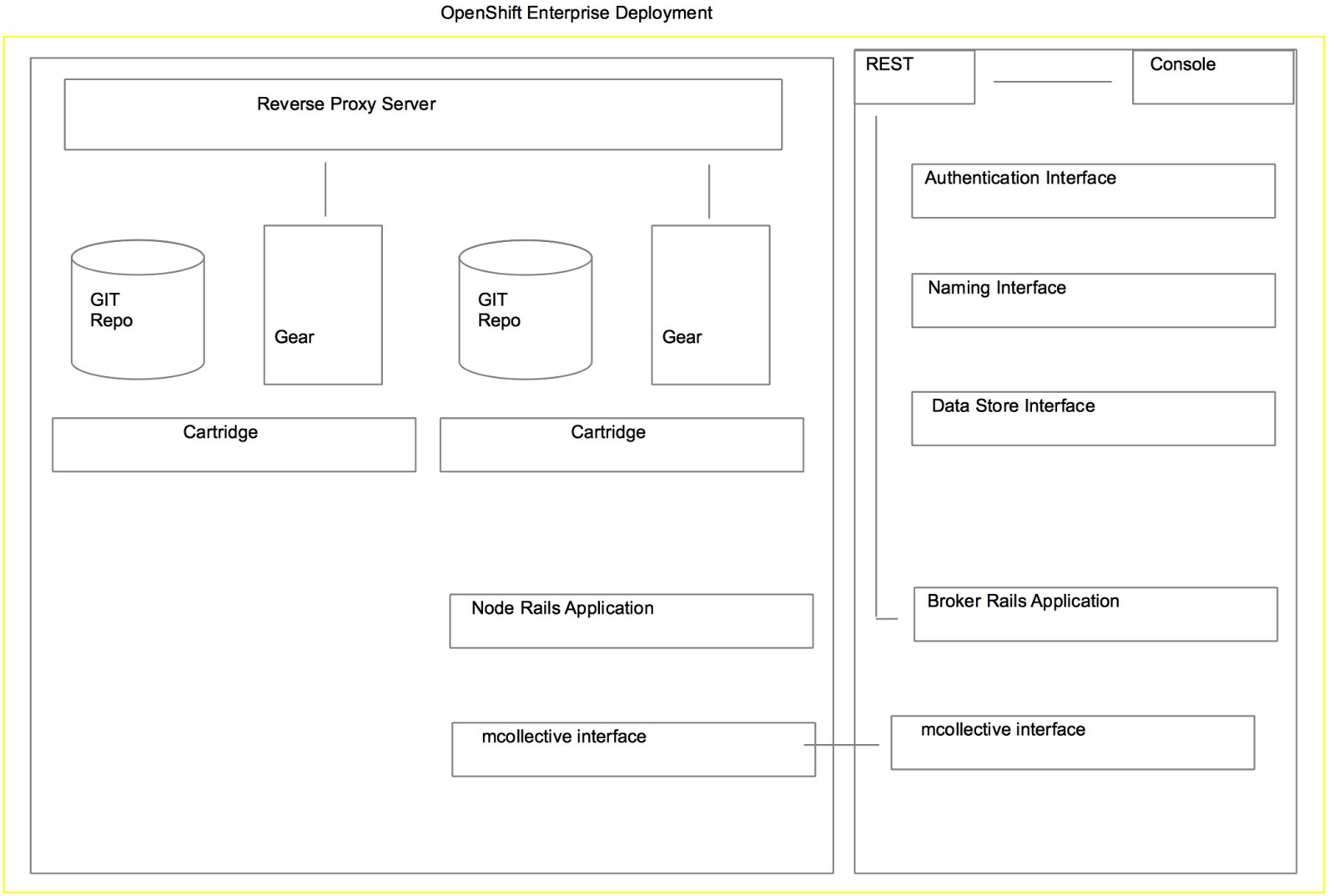
Architecture (OpenStack)



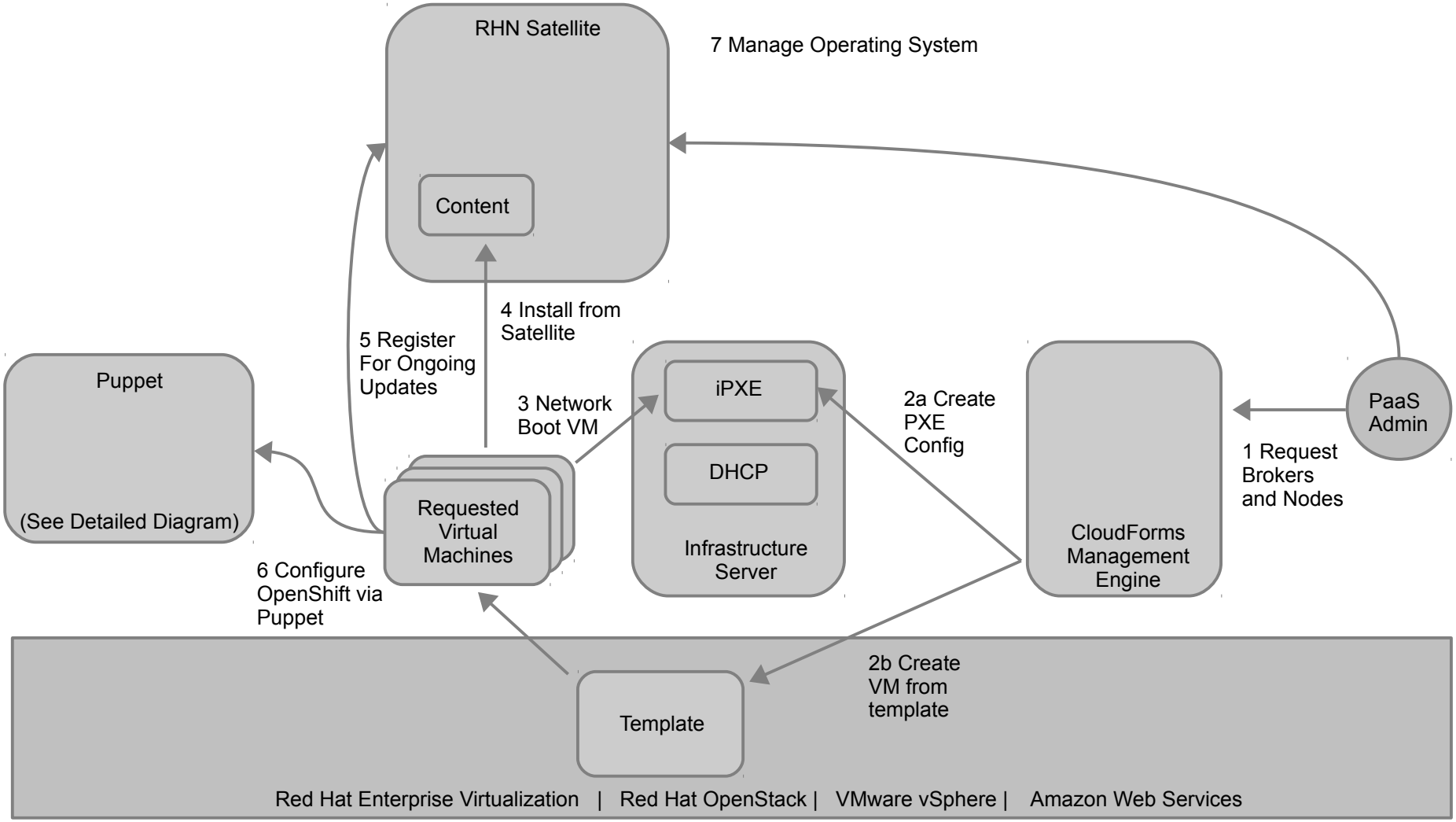
Architecture (RHCI + OpenShift)



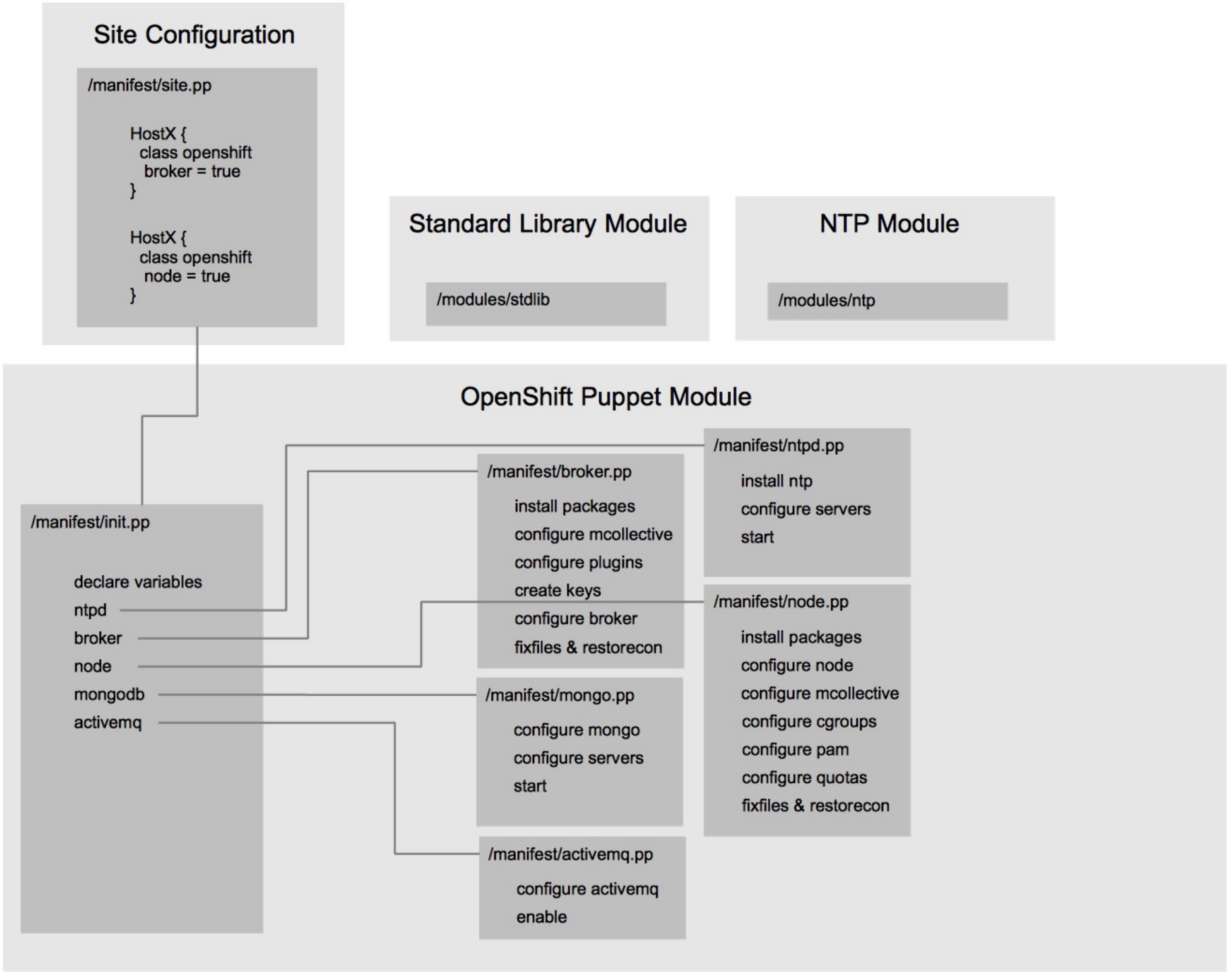
Architecture (OpenShift)



Automated Deployment of OpenShift Infrastructure



Automated Deployment of OpenShift Infrastructure



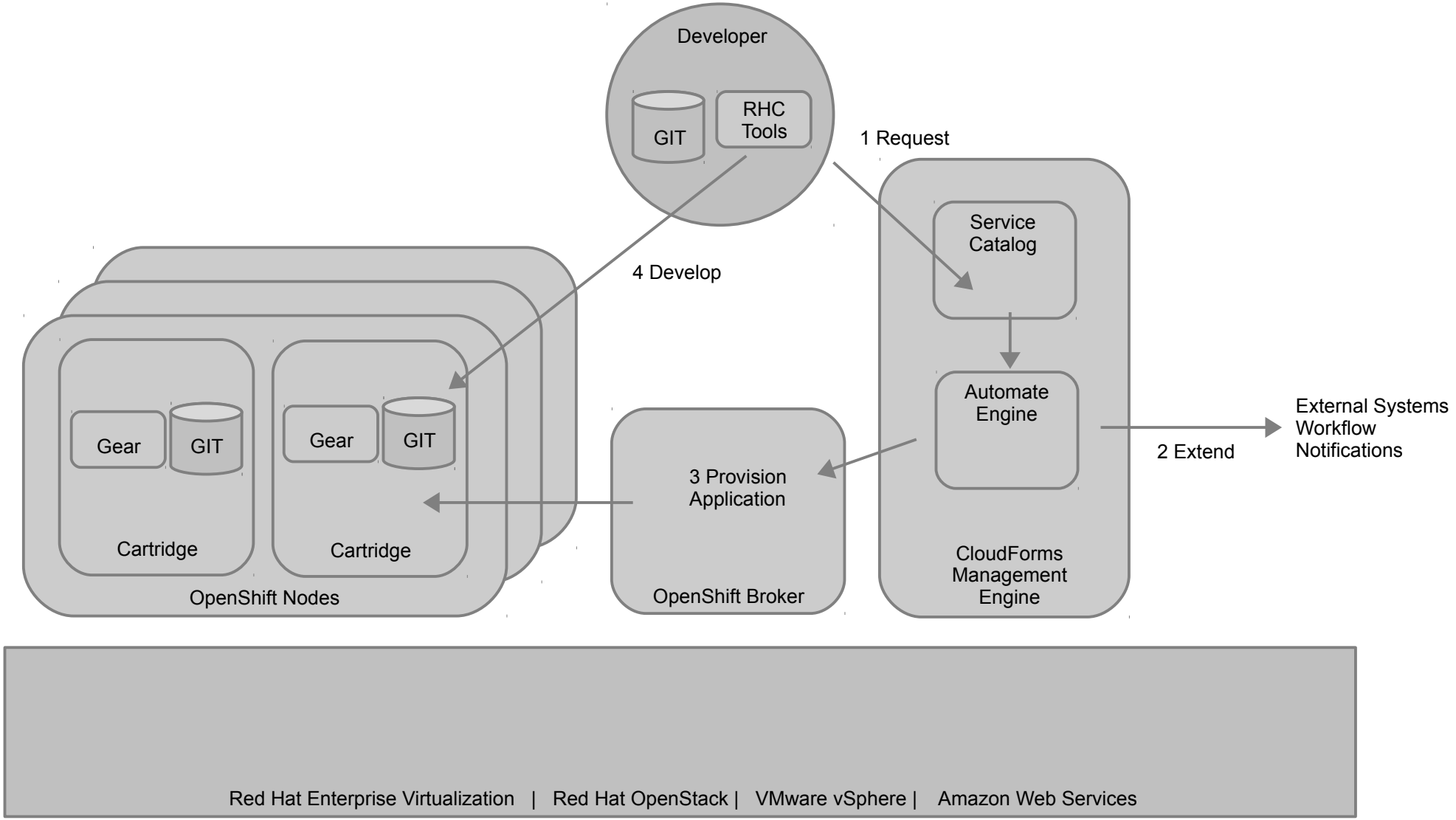
Automated Deployment of OpenShift Infrastructure

Demonstration

Deploying OpenShift Applications from CloudForms

- Service Catalog Item
- Custom Dialog
- Automate Method

Deploying OpenShift Applications from CloudForms



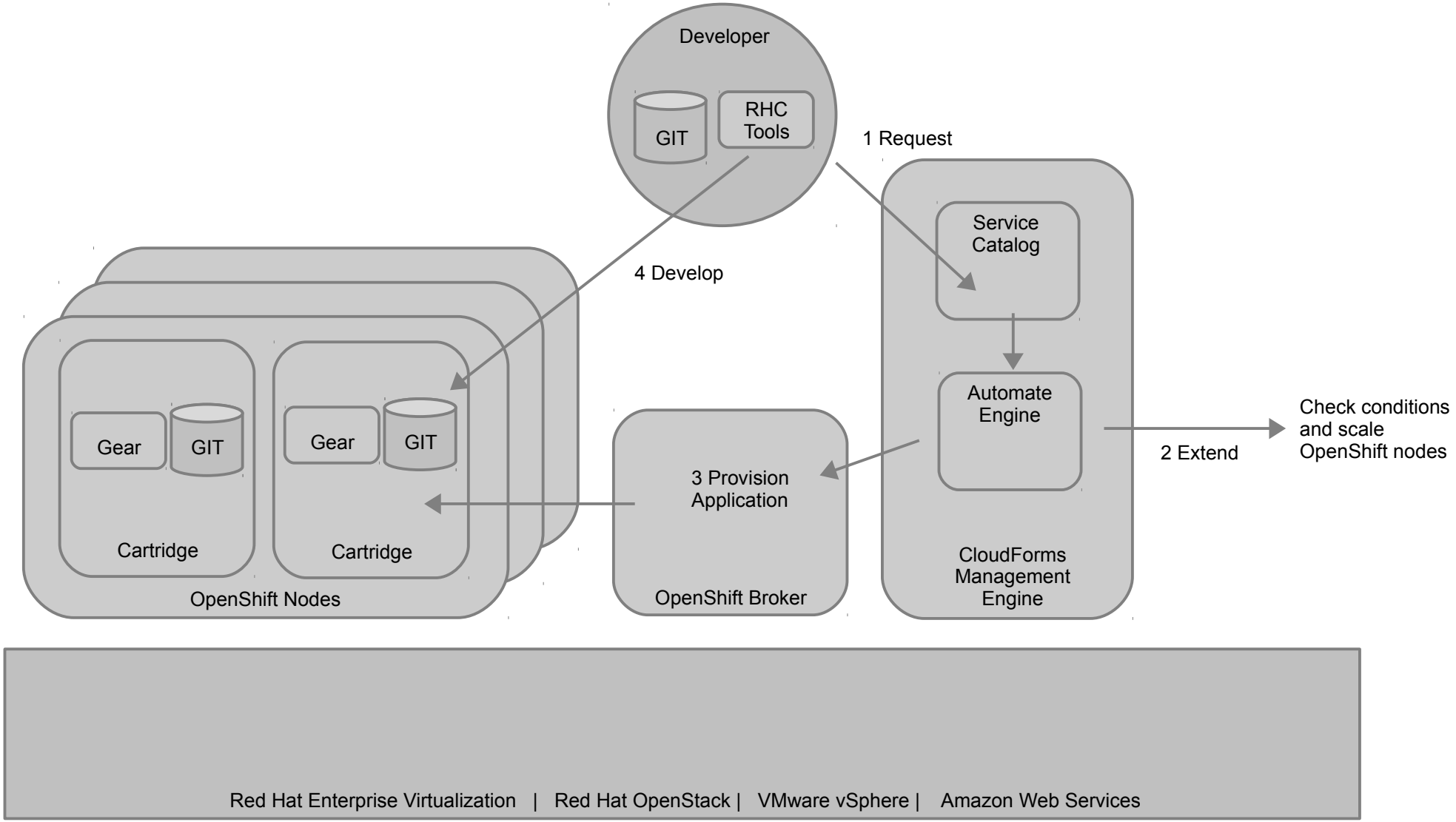
Deploying OpenShift Applications from CloudForms

Demonstration

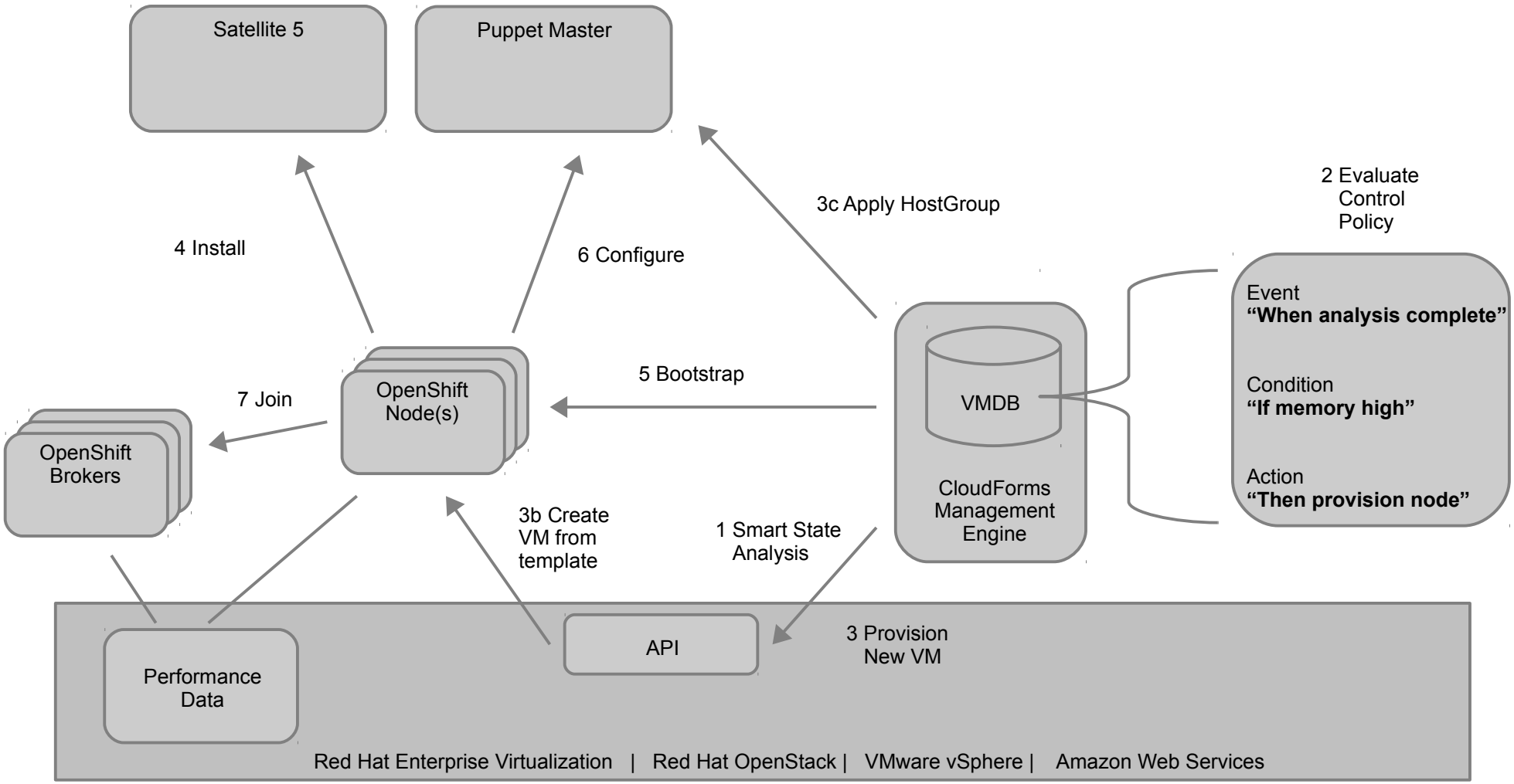
Automatic Scaling of OpenShift Infrastructure

- Compliance vs Control Policies
- Creating a control policy for OpenShift Infrastructure
- Modifying a schema in Automate
- Automate method for scaling OpenShift nodes

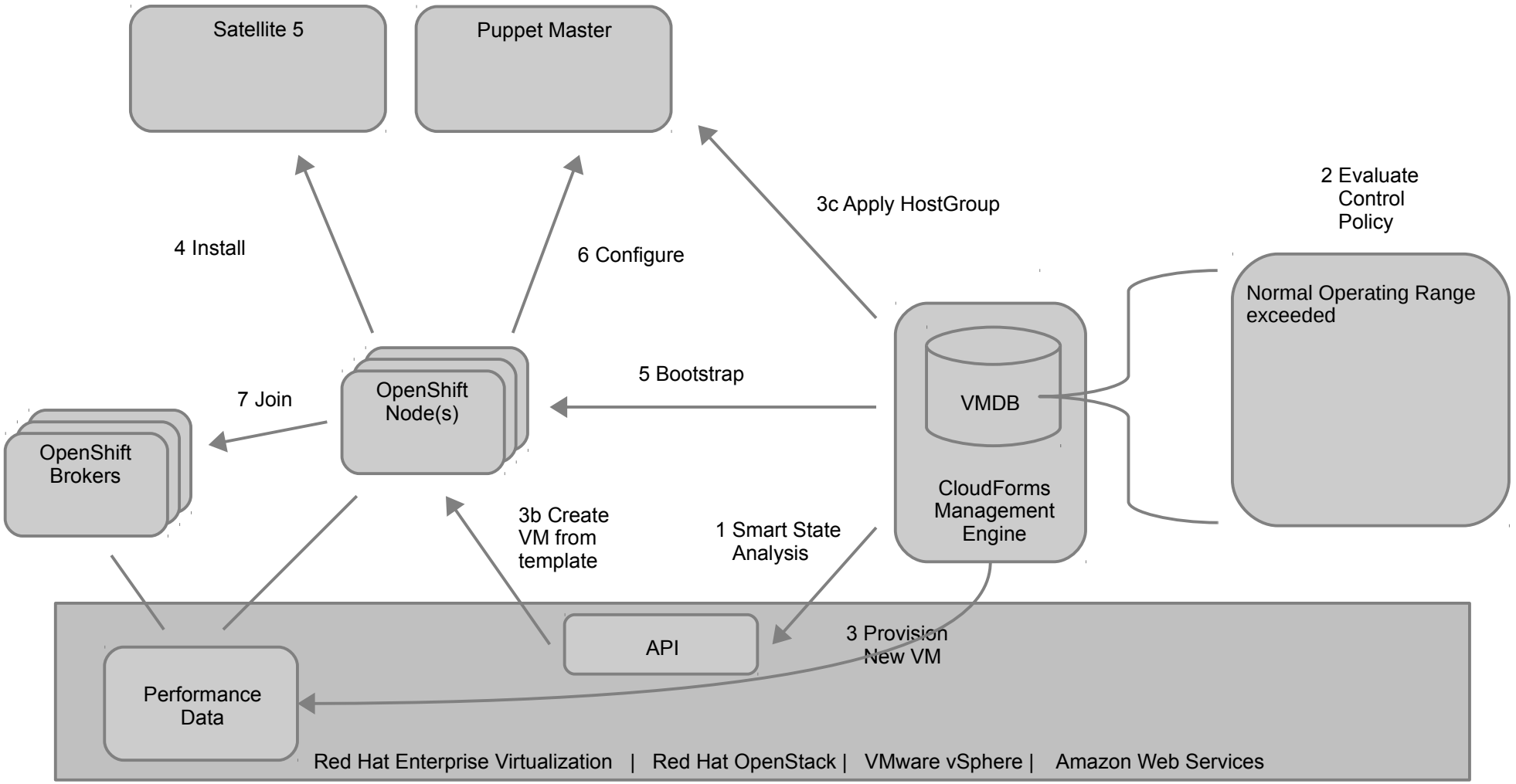
Automatic Scaling of OpenShift Infrastructure (Automate)



Automatic Scaling of OpenShift Infrastructure (Control Policies)



Automatic Scaling of OpenShift Infrastructure (Alert)



Automatic Scaling of OpenShift Infrastructure

Demonstration

Slides available at www.allthingsopen.com