



RED HAT
FORUM
Europe, Middle East & Africa



LES OFFRES CLOUD DE RED HAT

DE L'INFRASTRUCTURE AUX APPLICATIONS

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RED HAT OPEN HYBRID CLOUD

Consommation simultanée de :

Cloud Privé **ET** Cloud Public

IT Legacy **ET** Next Generation IT

IaaS **ET** PaaS

Applications Traditionnelles **ET** Applications Cloud

Nouveaux acteurs



Transportation



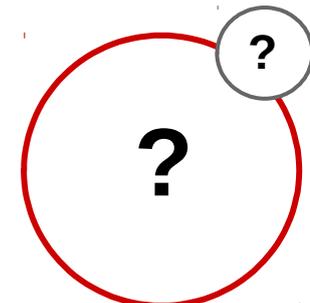
Retail



Finance



Media



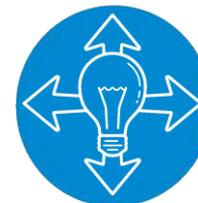
Nouveaux usages



Immédiat



Connecté



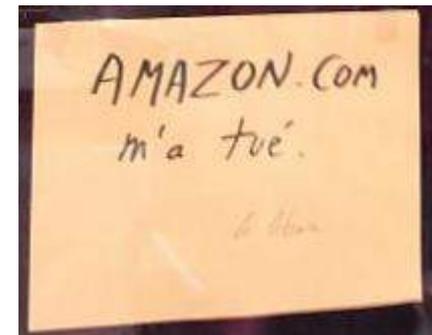
disponible

Nouveaux services exigent un SI agile

IT traditionnel

Nouvelle
plateforme

NÉCESSITÉ D'INNOVER



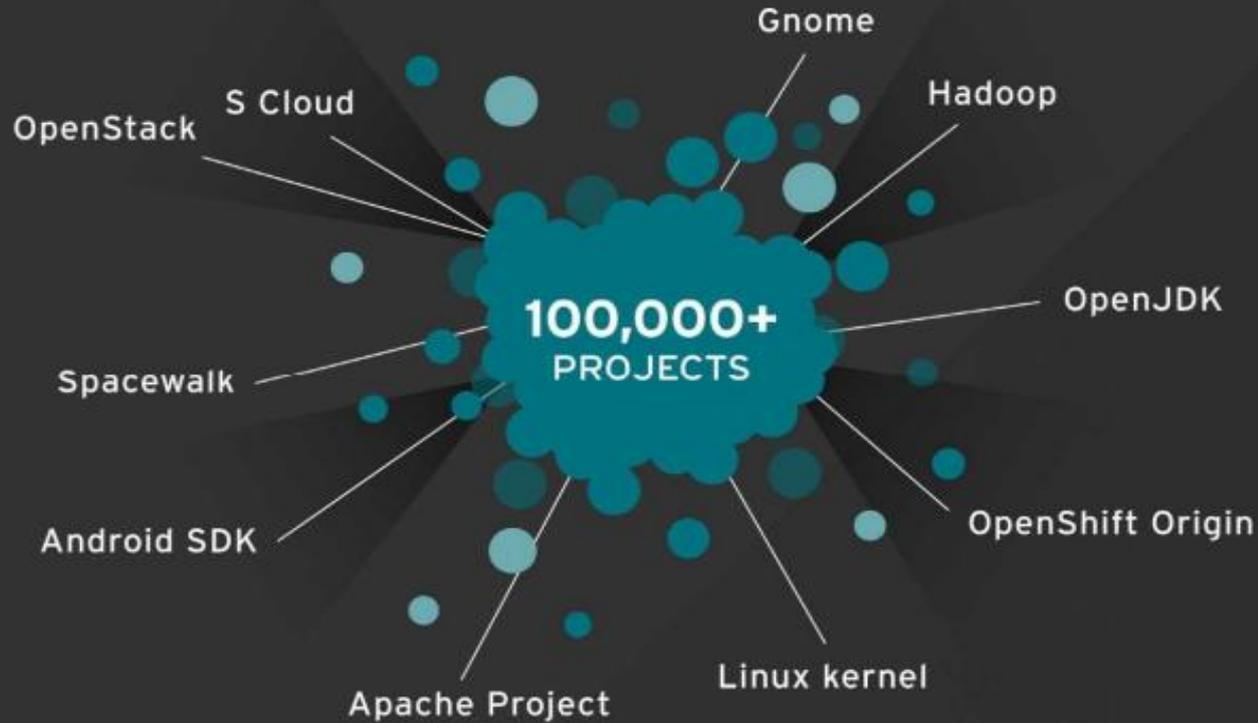
OPEN SOURCE = INNOVATION



CLOUD



BIG DATA



MOBILE



CLOUD APPS

ENTREPRISES “NOUVELLE GÉNÉRATION”

YAHOO!



LinkedIn



amazon.com



Utilisent l'Open source
Contribuent à l'Open source

CRÉATION DE NOUVEAUX STANDARDS

UNE OFFRE CLOUD COMPLETE « FULL OPENSOURCE »

CONTRIBUTION

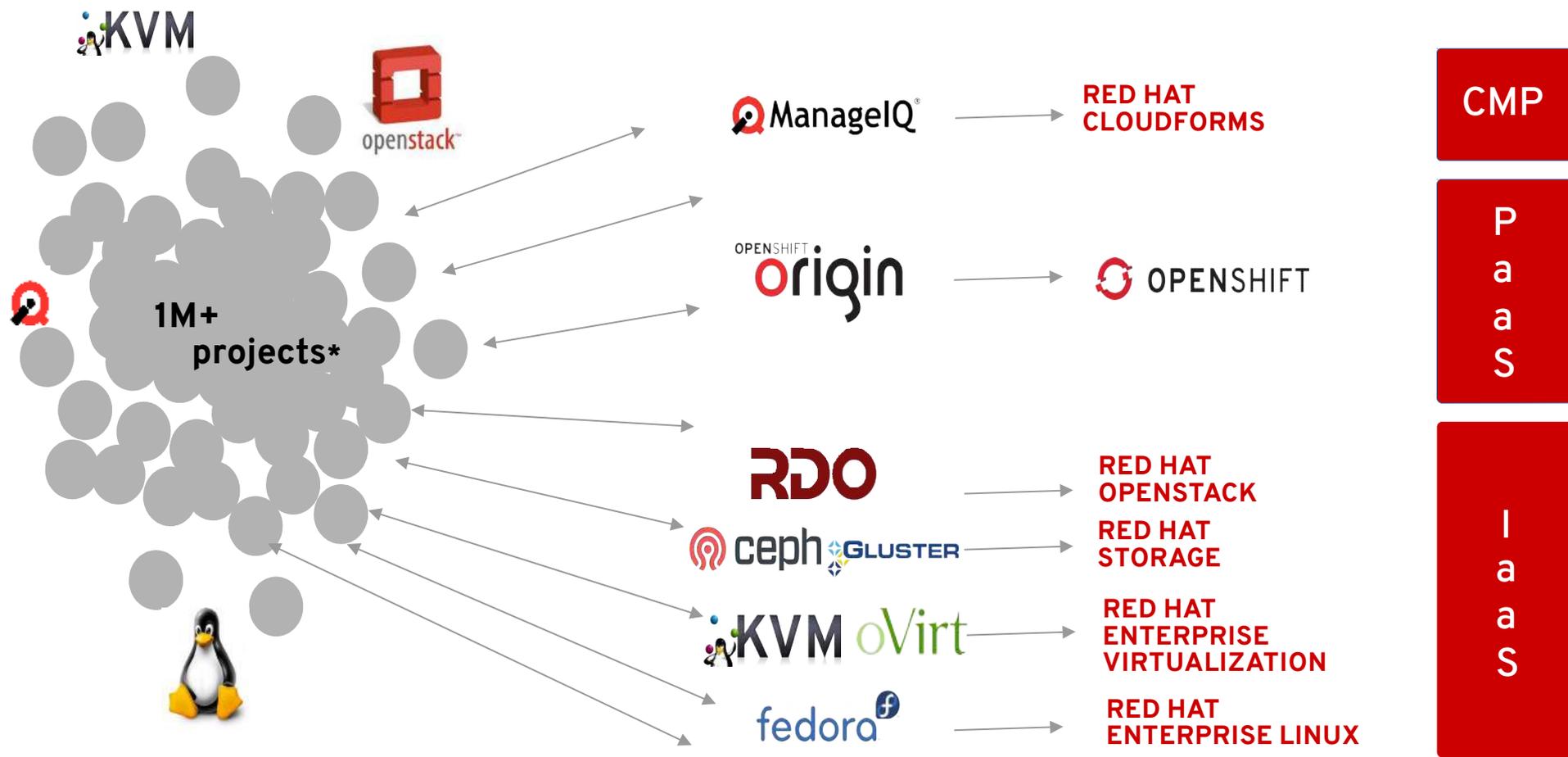
Création et contribution
aux projets communautaires

INTEGRATION

Communautés pour intégrer
ces projets

INDUSTRIALIZATION

Construction de logiciels
d'entreprise supportés



Stratégie Cloud de Red Hat

- Être le leader du Cloud Hybride ouvert
- Acquisition pour renforcer notre position

ManageIQ

- Proposer un outil de Cloud Management

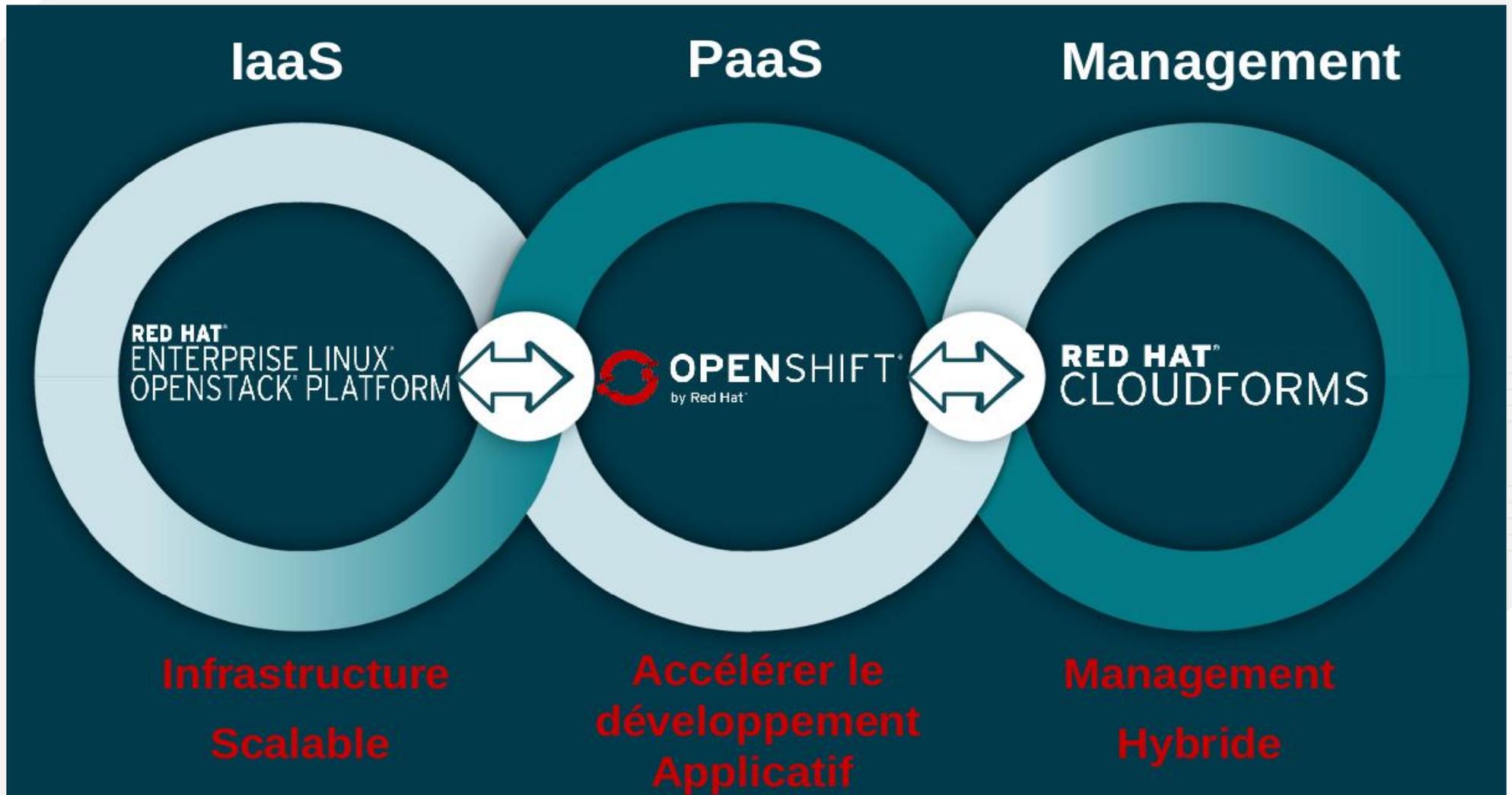
InkTank

- Enrichir notre offre et donner la vision du Software-Defined Storage

eNovance

- Accélérer l'adoption des clients à travers une expertise de développement et d'implémentation sur OpenStack

LES OFFRES CLOUD DE RED HAT



RED HAT OPENSTACK PLATFORM

Nouvelle Plateforme Cloud

OPENSTACK : Nouvelle plateforme pour nouvelle génération d'application



APPLICATIONS TRADITIONNELLES

1 APP = 1 VM

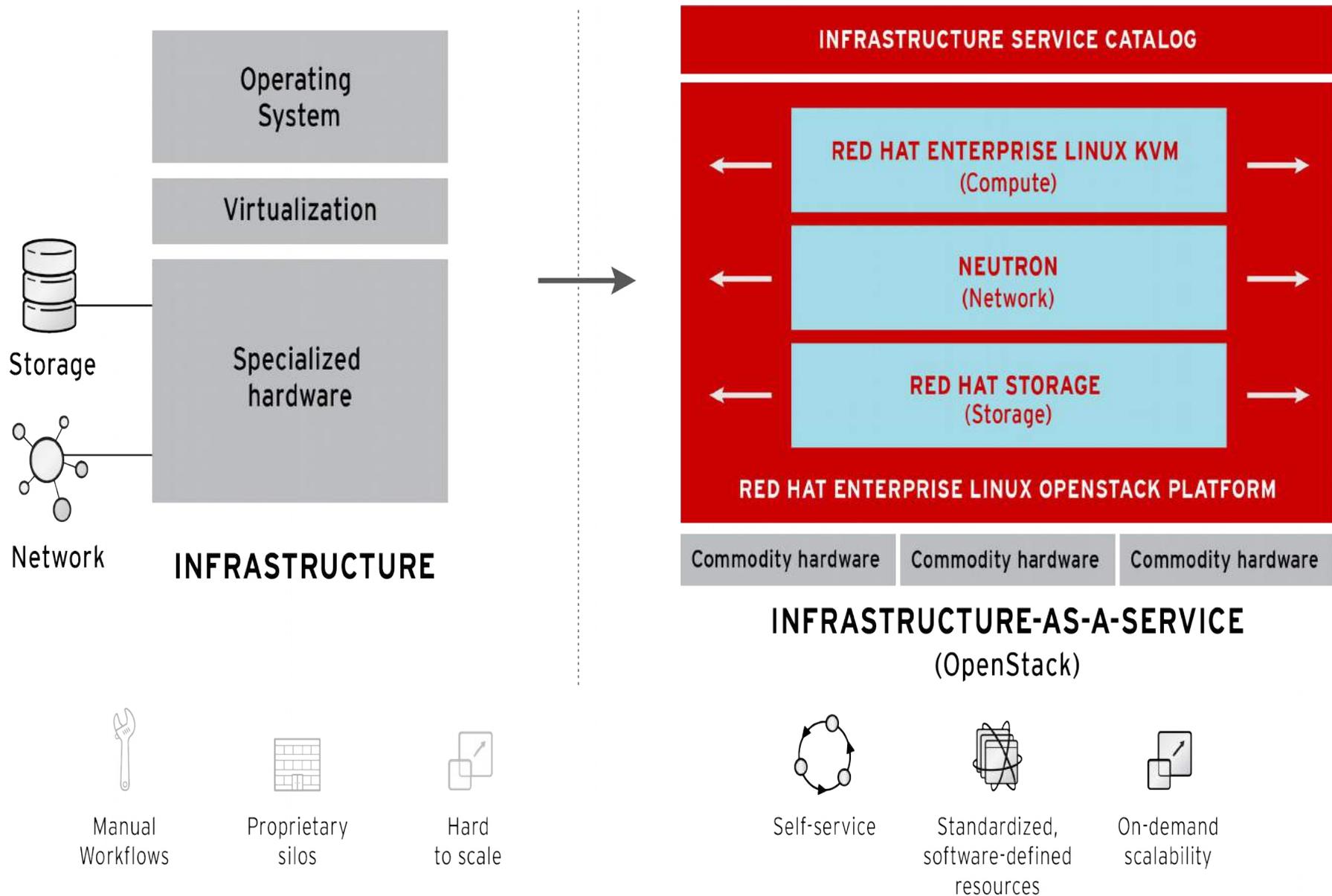
- Application repose sur une seule VM persistante
- Application ne supporte pas les pannes
-
- Besoin de haute disponibilité au niveau de l'hyperviseur

APPLICATIONS CLOUD

1 APP = Multiple VM's

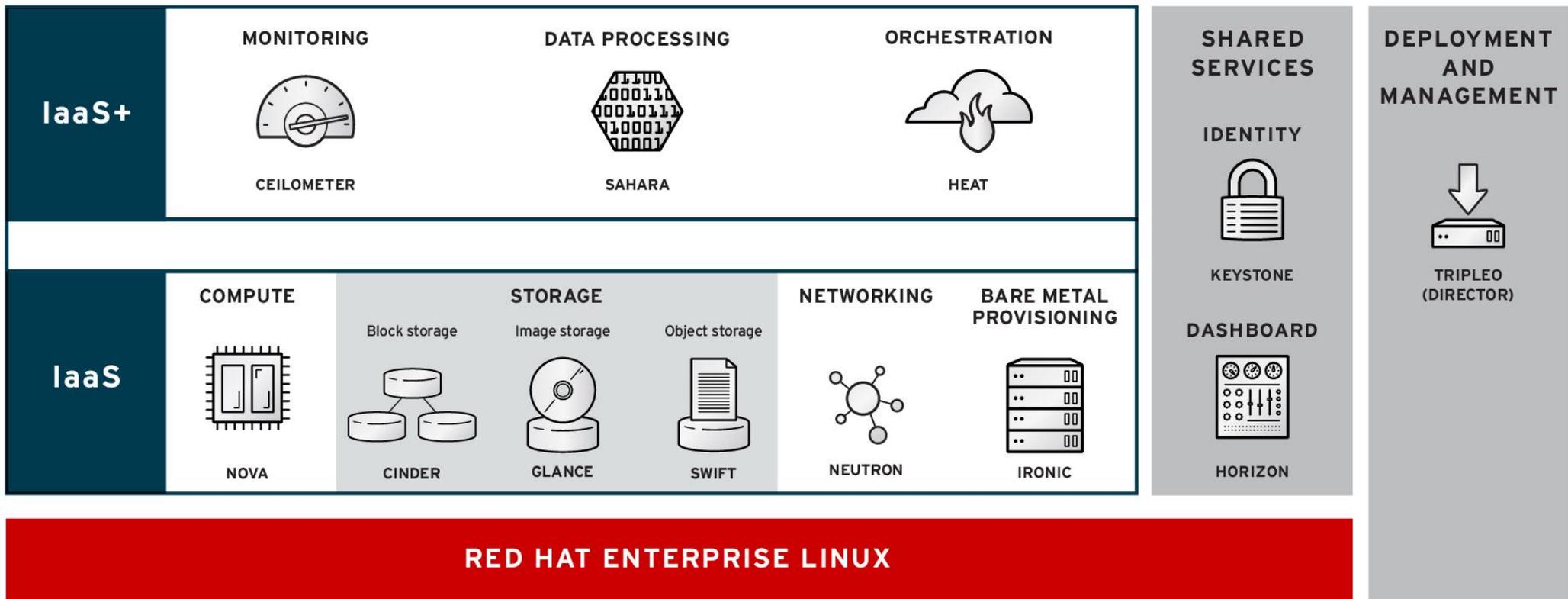
- Application repose sur de multiple VM's Machines
- Tolerance de panne des VM's
- Résilience dans l'application
- Application supporte les montées en charge de ressources supplémentaire

De la Virtualisation au Software Defined Datacenter



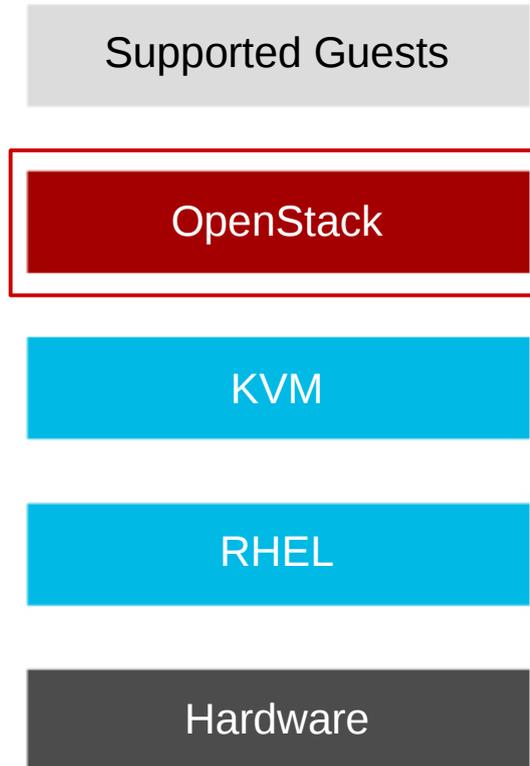
Cloud Infrastructure pour Cloud application

- Architecture modulaire
- Construit pour une «scalabilité» horizontale facile
- Module additionnel à chaque release



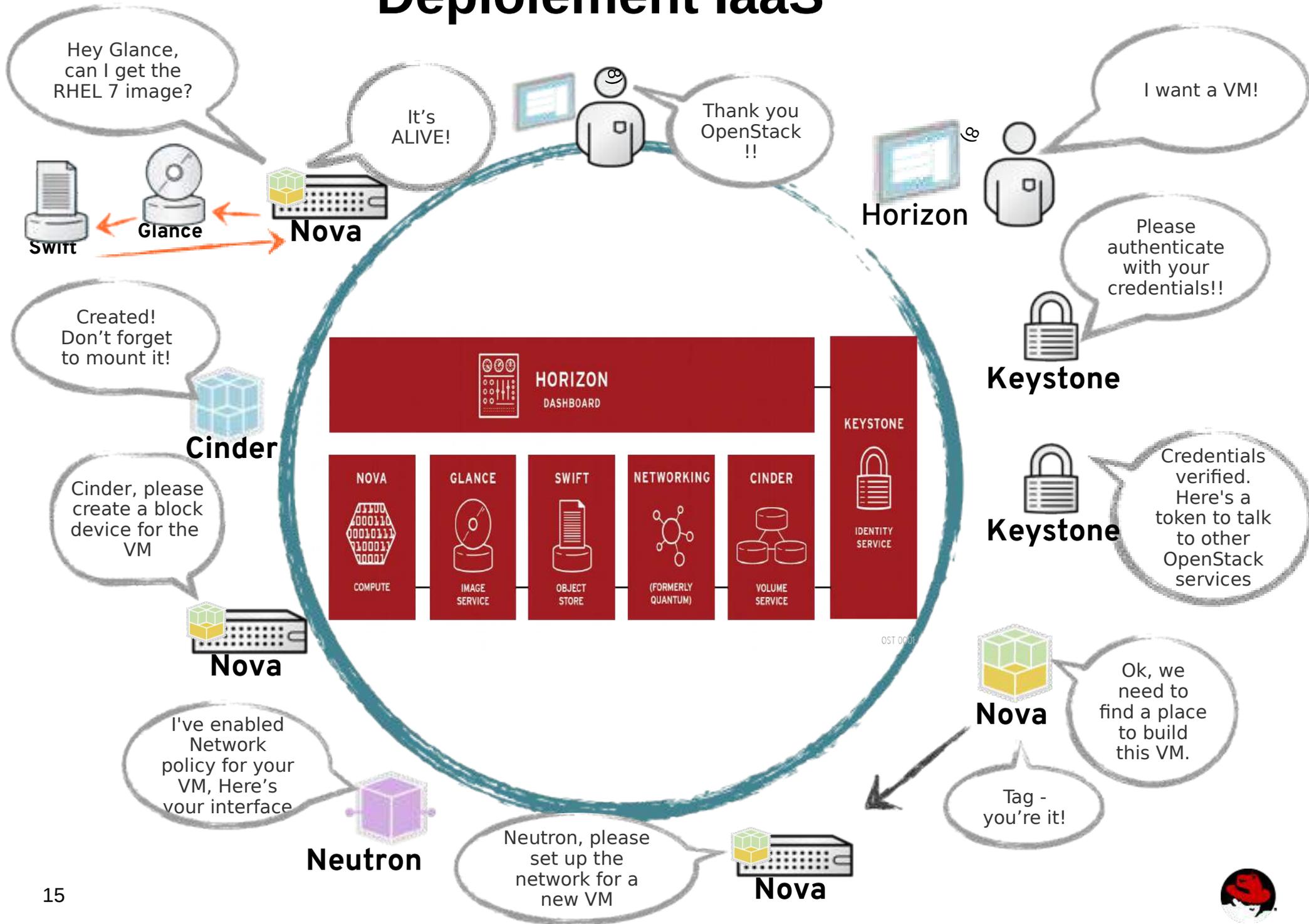
Linux est la fondation d'OpenStack

Red Hat



- **OpenStack = Linux**
- **KVM = Linux**
- **OpenStack est une plateforme**

Déploiement IaaS



RHEL OSP DIRECTOR

- **Objectif : Déployer et Manager le Cloud**

Planning

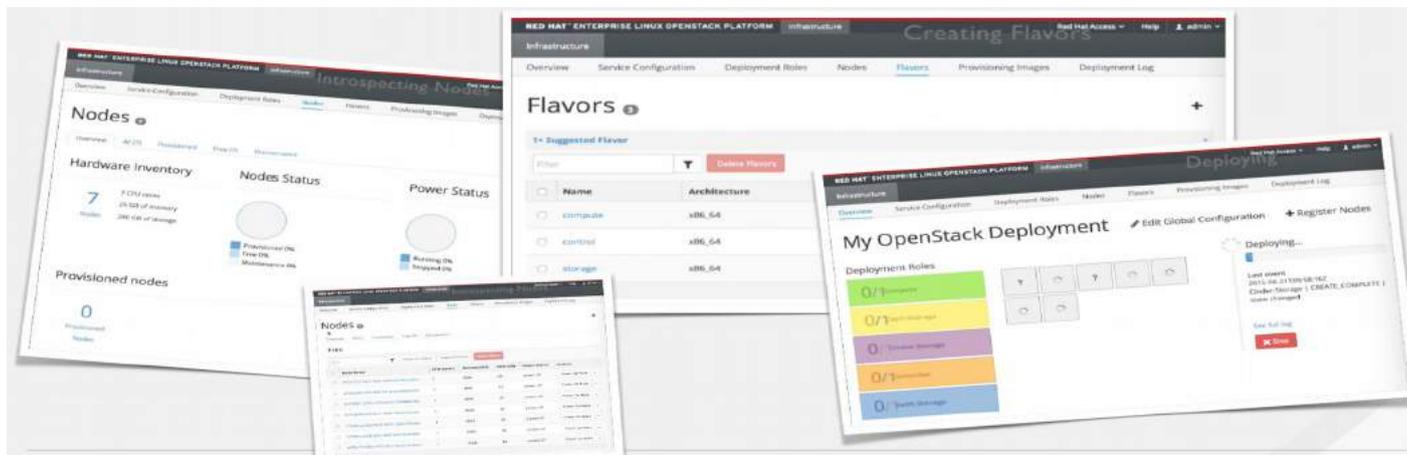
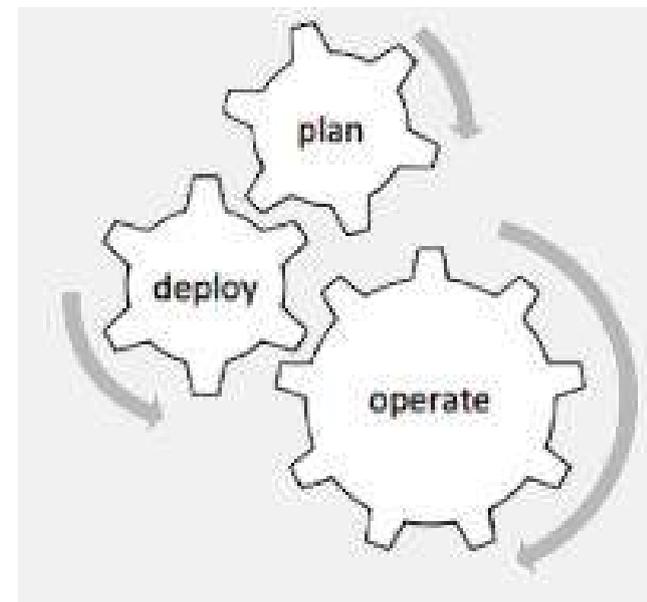
- What will this OpenStack deployment look like? Topology?

Deployment

- Resource capacity?
- Hardware and service lifecycle management. Policy driven process.

Infrastructure Operations

- Visualize capacity, metrics & instrumentation



OPENSTACK CYCLE DE VIE



**RED HAT®
ENTERPRISE LINUX®
OPENSTACK® PLATFORM**

Accès au code source
OpenStack

OpenStack packagé
comme un RPMs

Linux communautaire
instable

**Distribution Linux
version entreprise
(CentOS, RHEL, Fedora)**

Pas de certifications
Support par la communauté
6 mois de durée de vie

Pas de certifications
Support par la communauté
6 mois de durée de vie

**Red Hat OpenStack
technologie construit
pour l'entreprise
et optimisé pour
pour une intégration
avec
Red Hat Enterprise Linux**

**Support Red Hat
Red Hat ecosystem et
certifications partenaires
36 mois de support
par version**

RHEL OpenStack Ecosystem partenaires

- Over 350+ members since launch in April 2013
- Over 900 certified solutions in partner Marketplace
- Over 4,000 RHEL certified compute servers
- Over 13,000 applications available on RHEL

OEMs, IHVs, and ISVs



Channel Partners

System Integrators



Cloud Service Providers
Managed Service Providers

RHEL OpenStack Platform 7

Hypervisor Support

Red Hat Enterprise Virtualization Hypervisor

**Red Hat Enterprise Linux KVM*

- Lightweight / small footprint
 - Less overhead
 - Smaller attack surface
- Cost effective
- Closer to operating system DNA
- Provides massive scale-out capabilities
- Maximum benefit with virtualized Linux



VMware vSphere

**vCenter Driver*

- Co-exist with existing infrastructure assets
- Provides a seamless path to future migration to OpenStack
- Uses NSX¹ plugin for Neutron

¹NSX is only supported in production environments, per VMware's support requirements

**ESXi driver not supported*

vmware®

RHEL OpenStack Platform 7

Virtual Guest Support

- Red Hat Enterprise Linux 3
- Red Hat Enterprise Linux 4
- Red Hat Enterprise Linux 5
- Red Hat Enterprise Linux 6
- Red Hat Enterprise Linux 7
- Red Hat Enterprise Linux Atomic Host

**32 and 64 bit for all versions of RHEL*

- SUSE Linux Enterprise Server 10
- SUSE Linux Enterprise Server 11

**32 and 64 bit for all versions*

- Windows XP SP3+¹
- Windows 7³
- Windows 8³

Microsoft SVVP Certified

- Windows Server 2003 SP2+³
- Windows Server 2008³
- Windows Server 2008 R2²
- Windows Server 2012²

¹ 32 bit only

² 64 bit only

³ 32 and 64 bit

RED HAT
ENTERPRISE LINUX®



Red Hat Cloud Services

- **Training**

- RH318 Red Hat Enterprise Virtualization Administration
- CL210 Red Hat OpenStack Administration
- CL220R Red Hat CloudForms Administration

- **Certification**

- Red Hat Certified Virtualization Administrator (RHCVA)
- Red Hat Certificate of Expertise in OpenStack IaaS

- **Consulting**

- Advanced identity management for OpenStack
- Red Hat Consulting Discovery Session: Cloud Strategy
- Red Hat Consulting Assessment: Infrastructure-as-a-Service
- Red Hat Consulting Smart Start: Infrastructure-as-a-Service
- Red Hat Consulting Guided Transition: Cloud Management



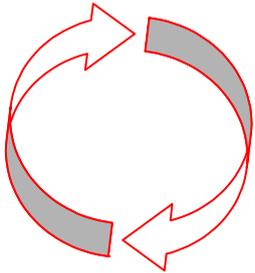
RED HAT
FORUM
Europe, Middle East & Africa



RED HAT OPENSIFT (PaaS)

Accélérer le développement Applicatif

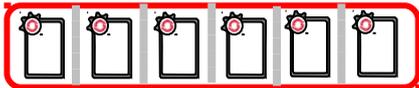
OPENSIFT : DevOps Platform



**ACCELERER LA LIVRAISON
APPLICATIVE POUR LES
METIERS**



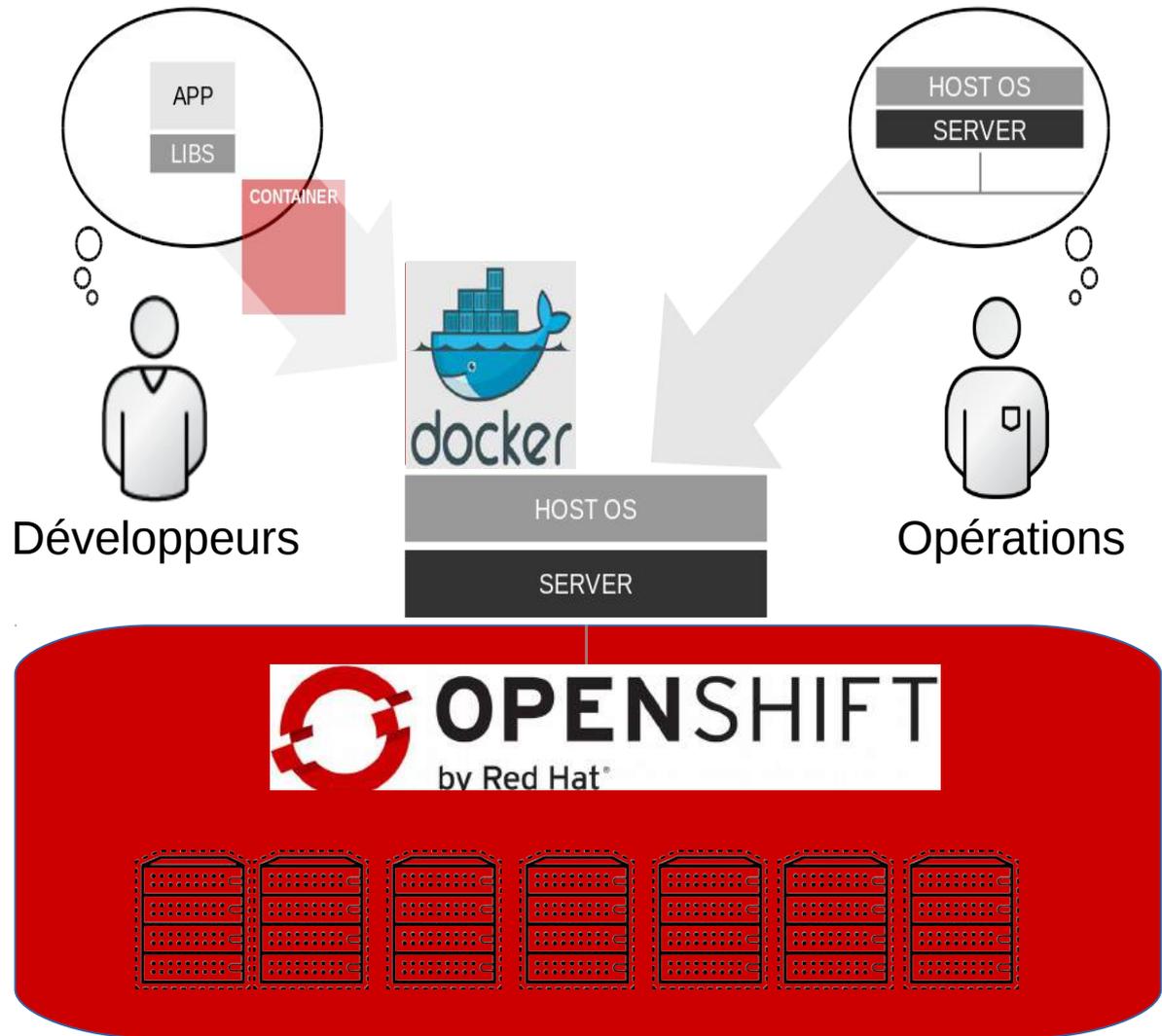
**SELF-SERVICE AVEC LES
DERNIERS OUTILS POUR
LES DEVS**



**STANDARDISER ET
CONTROLER LES
ENVIRONNEMENTS
POUR LES OPS**



Une plateforme pour le DevOps



DEV.....

.....OPS

Self-Service



Standards Based



Multi-Language



Web Scale



Automation



Open Source



Collaboration



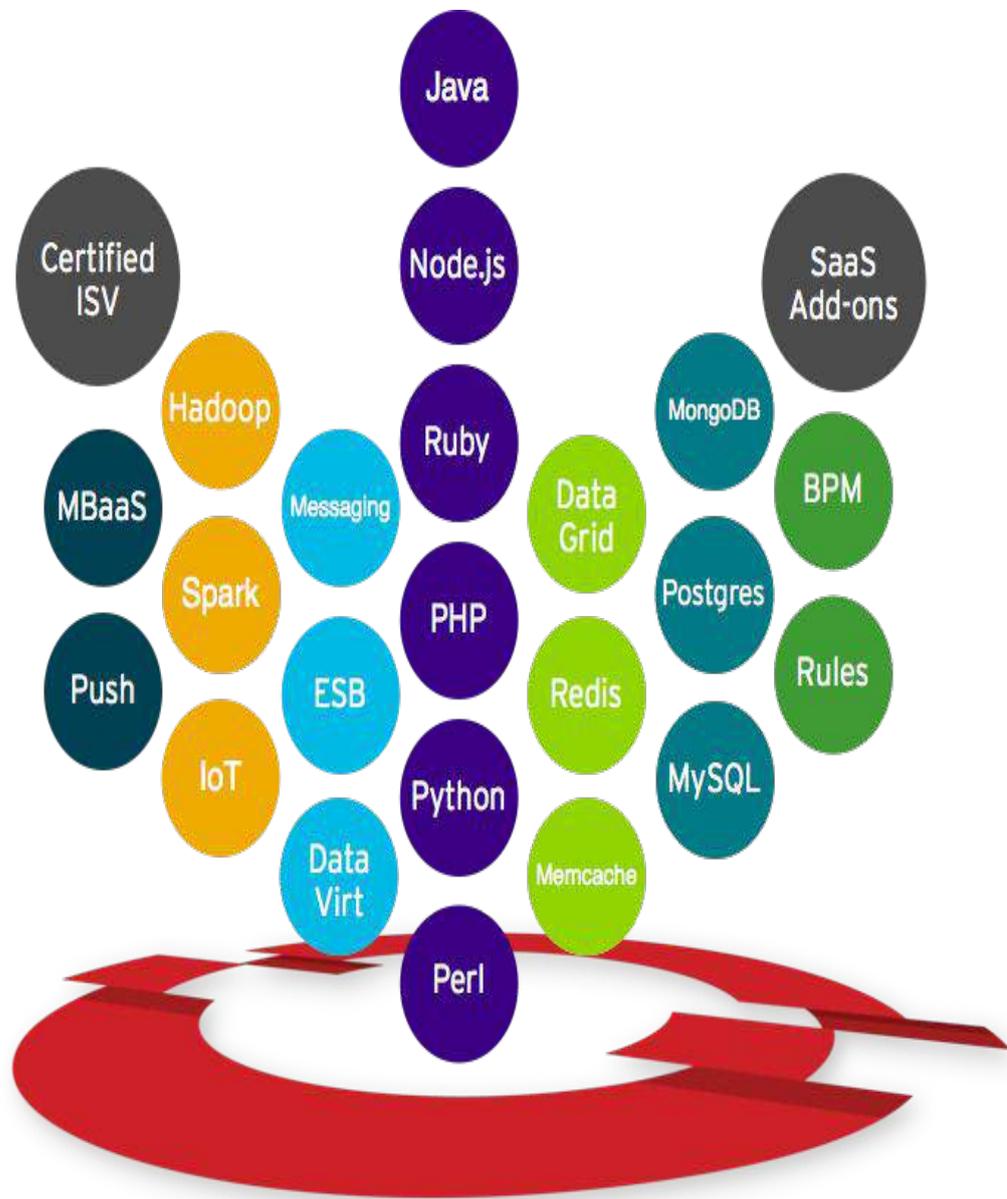
Enterprise Grade



OPENS SHIFT[®]

by Red Hat[®]

OpenShift Application Services

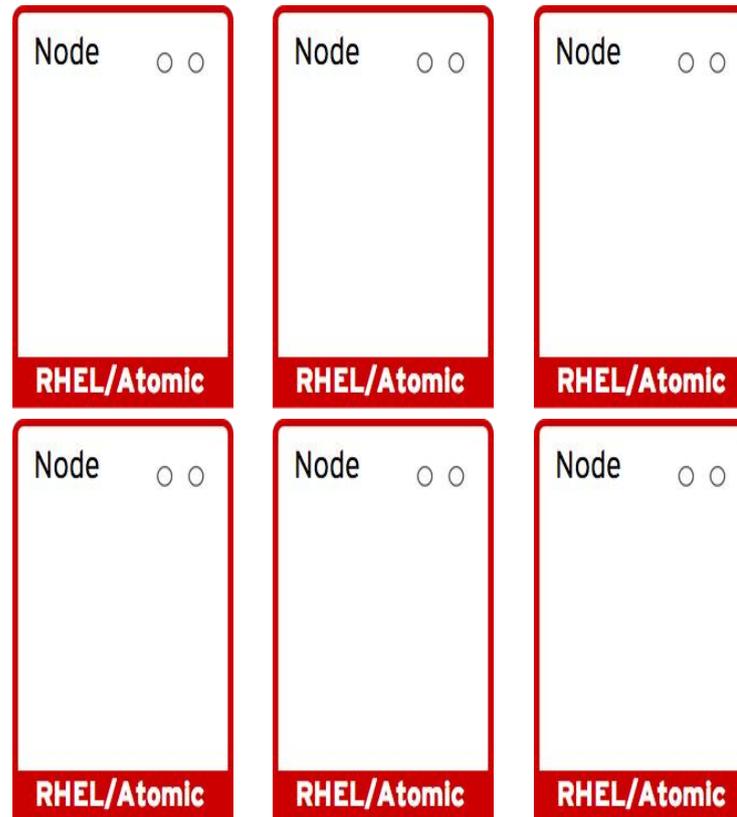


- Red Hat
- ISV Partners
- Communautés

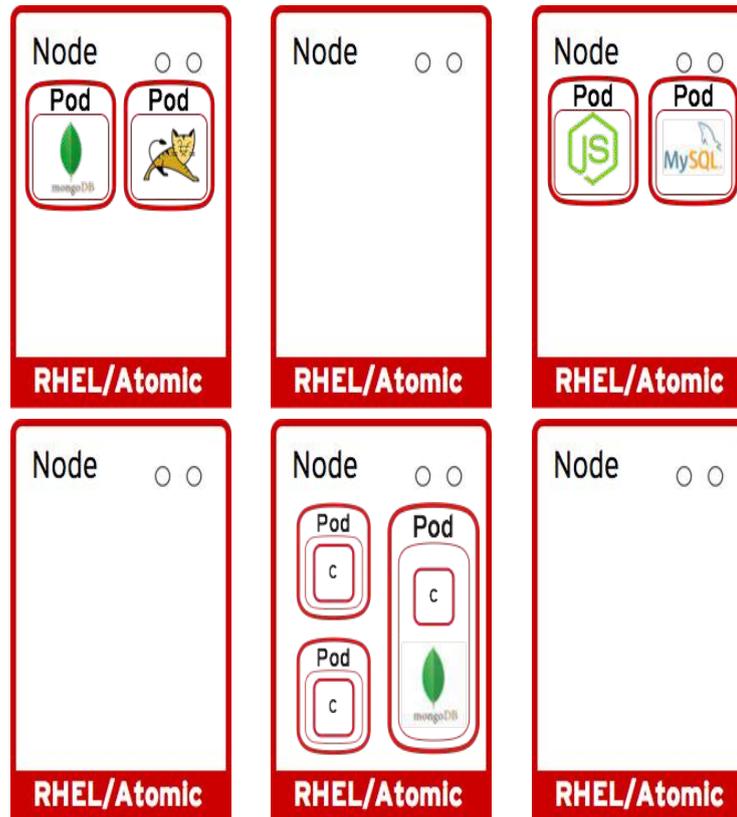
OpenShift Architecture



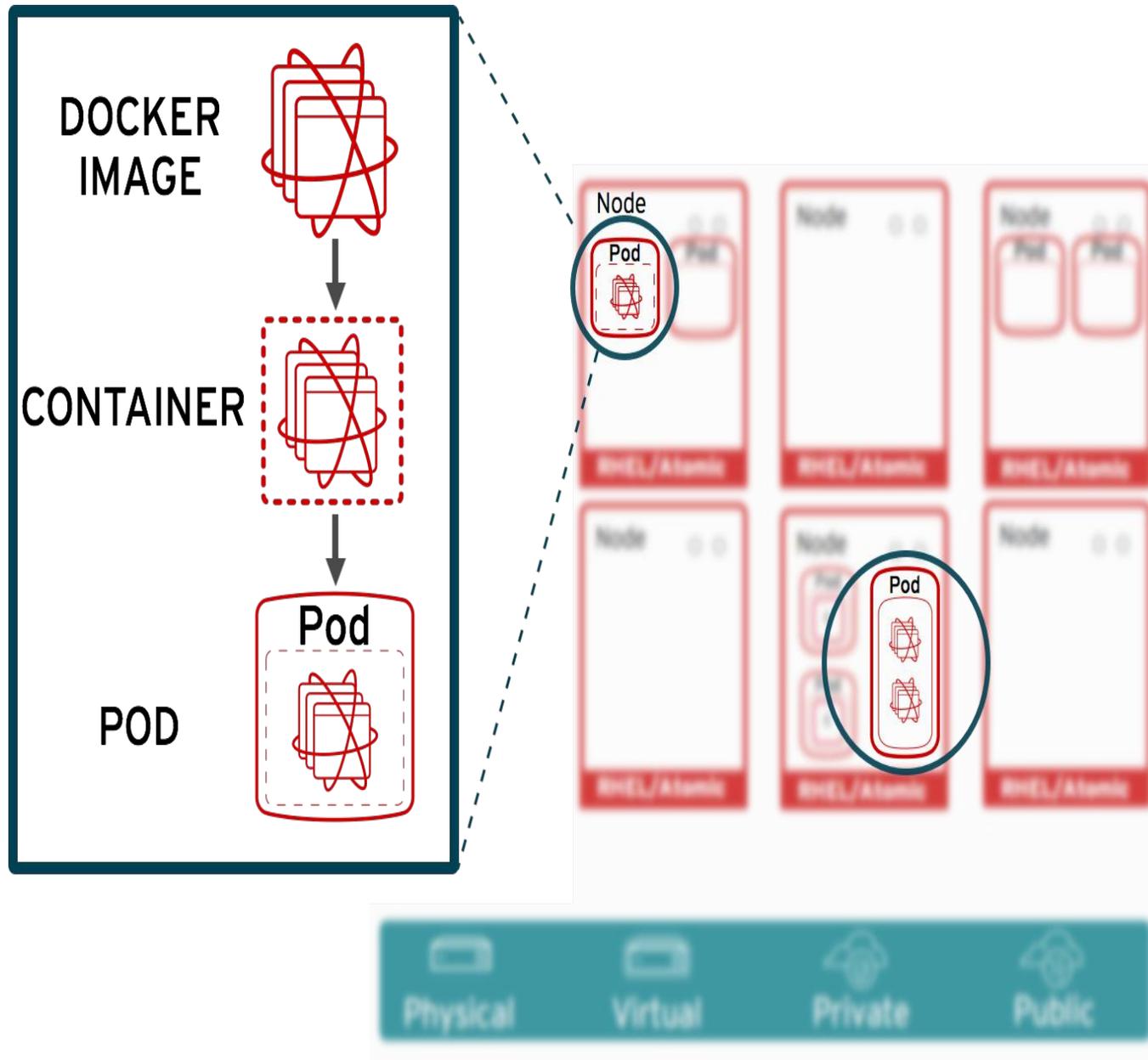
Openshift Nodes sont des instances RHEL



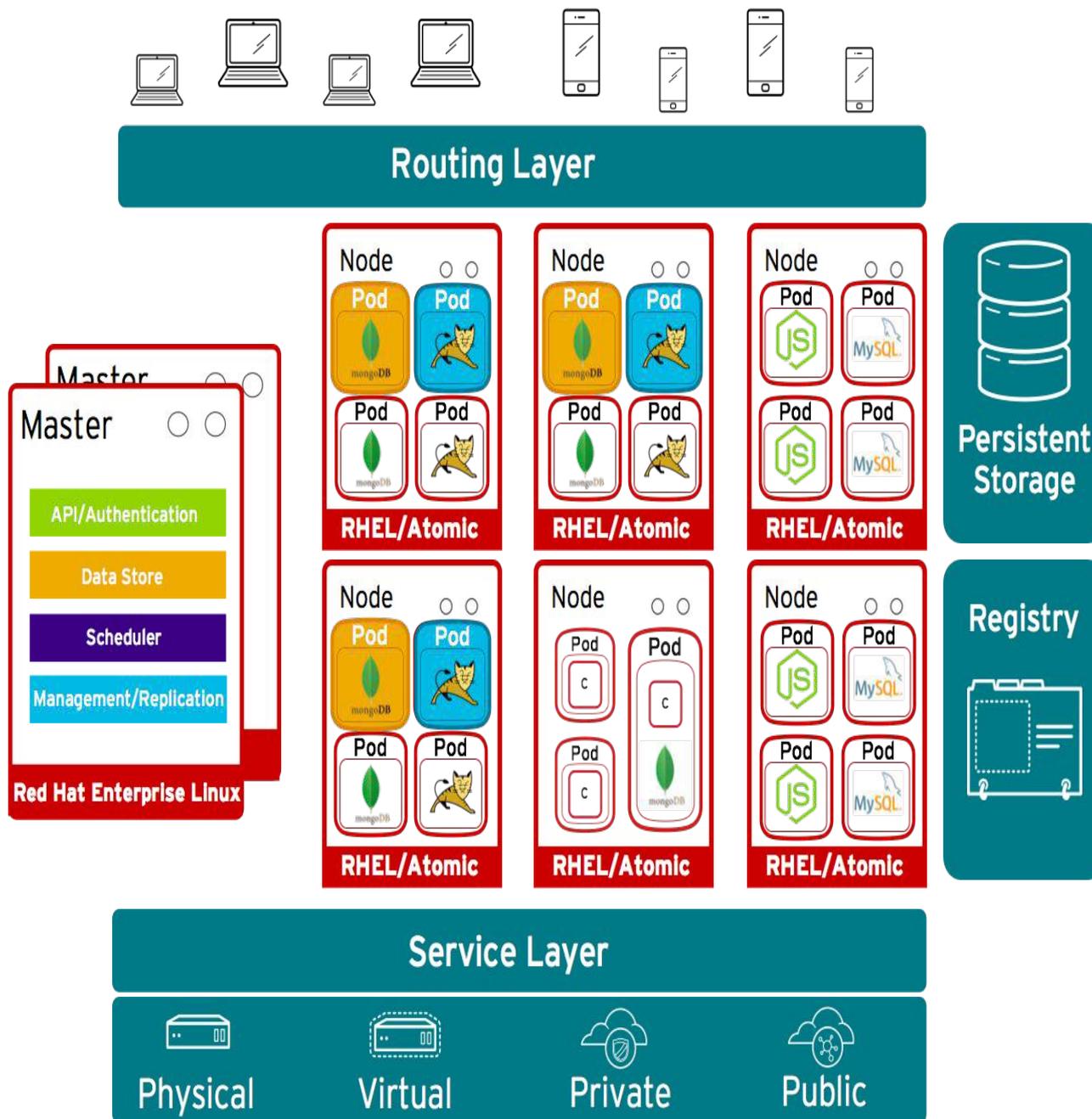
Les services applicatifs s'exécutent dans des containers docker



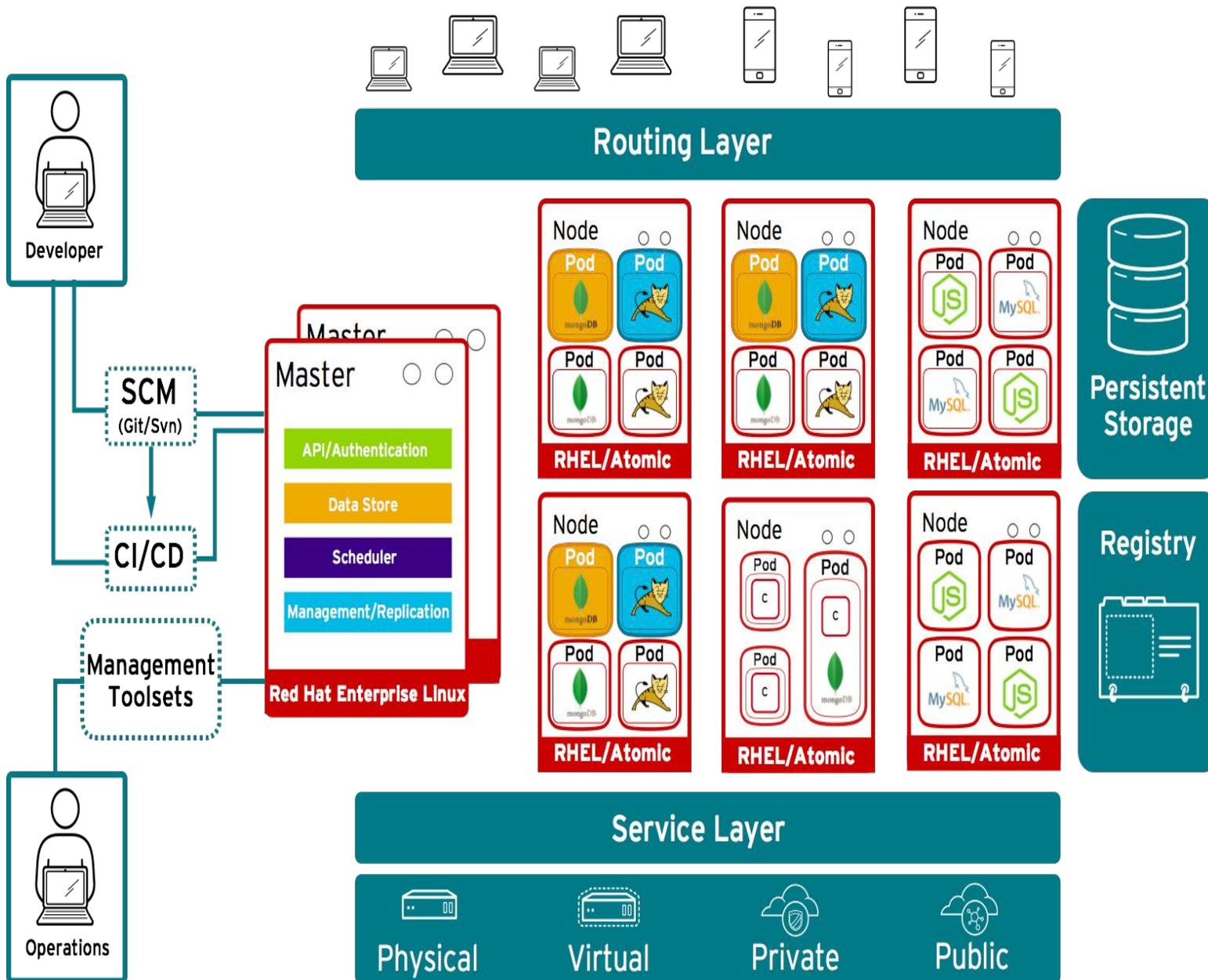
Les Pods représentent un ou plusieurs containers docker



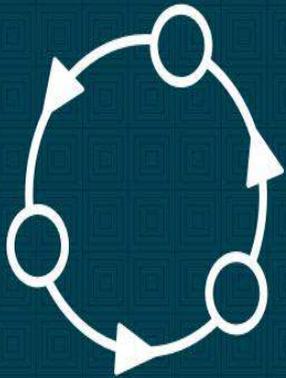
Le Master Orchestre et manage les pods



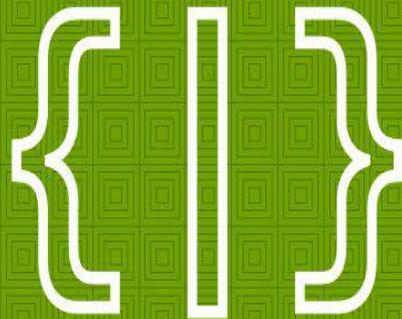
OpenShift Architecture



Conclusion : Valeur d'OpenShift



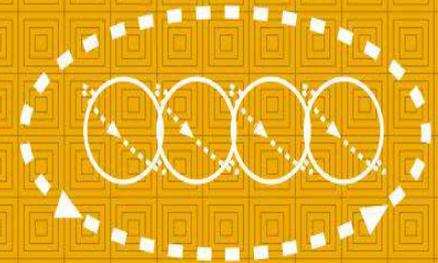
**Expedite
Innovation To Market**



**Accelerate
Application Development**



**Increase
Operational Efficiency**

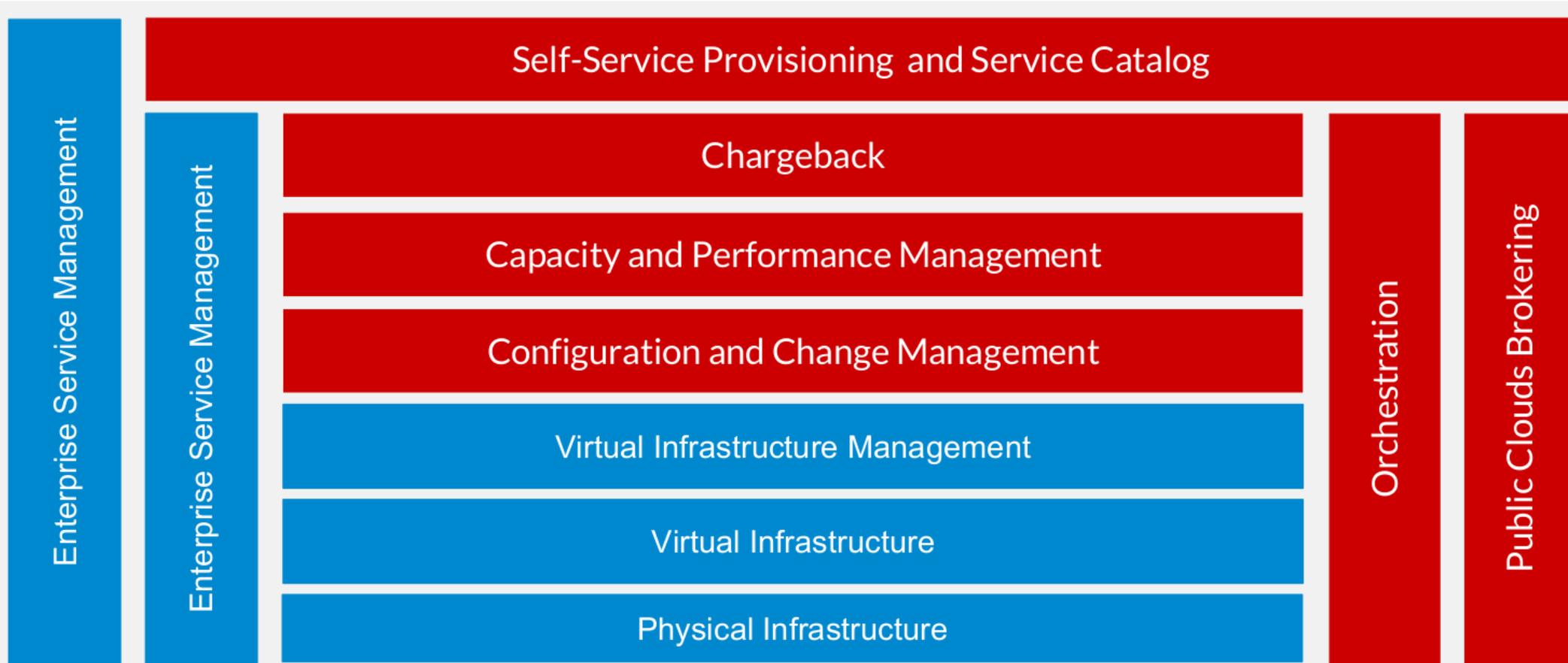


**Enable
DevOps**

RED HAT CLOUDFORMS

Management Hybride

CLOUDFORMS : Périmètre



Red Hat CloudForms

Gestion centralisée des environnements Cloud hétérogènes



CLOUDFORMS

Capacités

INFRASTRUCTURE-AS-A-SERVICE (IaaS) CONSUMERS

SUPPORT

SERVICE
DELIVERY

OPERATIONS

DEV

Q&A

GOVERNANCE

FINANCE

RESOURCE
MANAGERS

SINGLE PANE OF GLASS

INSIGHT

Discovery, Monitoring,
Utilization, Performance,
Reporting, Analytics,
Chargeback, Trending



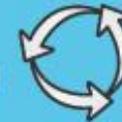
CONTROL

Security, Compliance,
Alerting, Policy-Based
Resource and Configuration
Enforcement



AUTOMATION

IT Process, Task and
Event, Provisioning,
Workload Management
and Orchestration



INTEGRATION

Systems Management,
Tools and Processes,
Event Consoles, CMDB,
RBA, Web Services



ADAPTIVE MANAGEMENT PLATFORM



CLOUDS



INFRASTRUCTURE

CloudForms Catalogue de Services

The screenshot displays the Red Hat CloudForms Management Engine interface. At the top, the browser address bar shows the URL `https://10.39.167.186/catalog/explorer`. The main header includes the text "RED HAT CLOUDFORMS MANAGEMENT ENGINE" and a user profile for "Administrator | EVM". A navigation menu contains tabs for "Cloud Intelligence", "Services", "Clouds", "Infrastructure", "Control", "Automate", "Optimize", and "Configure". Below this, there are sub-tabs for "My Services", "Catalogs", "Workloads", and "Requests".

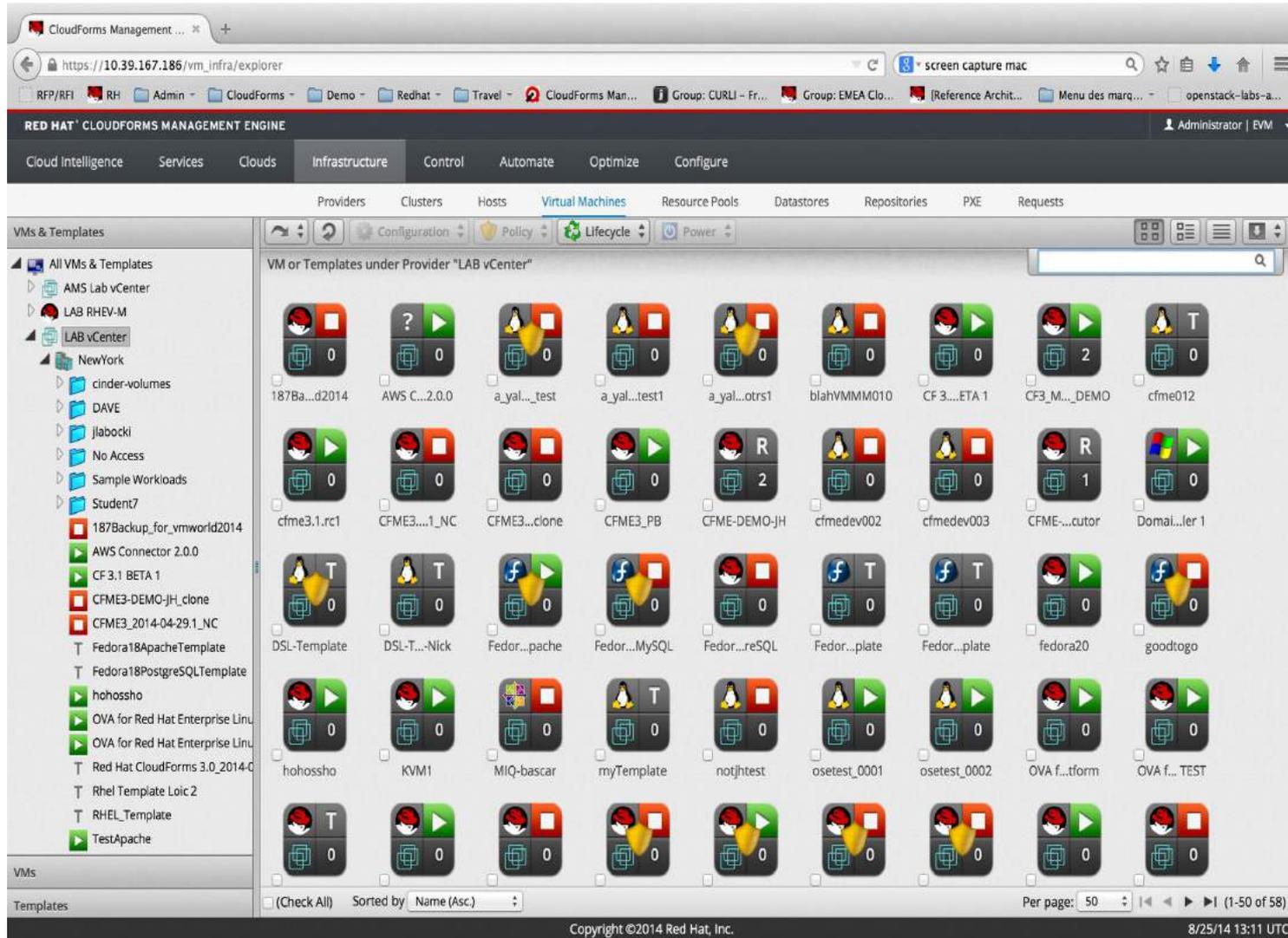
The "Catalogs" tab is active, showing a "Service Catalogs" sidebar on the left with a tree view of categories: "All Services", "Amazon Operations", "Amazon Services", "Cloud Services", "DevOps Team Alpha", "HEAT Templates", "Red Hat - PaaS", and "ServiceFlex".

The main content area, titled "All Services", displays a grid of service cards. Each card includes an icon, a description, and an "Order" button. The visible services are:

- Amazon DEV Instance**: Description: Amazon DEV Instance. Icon: Amazon Web Services logo.
- Cirros1 - Auto Scale Web Front**: Description: Cirros1 - Auto Scale Web Front. Icon: FLEX logo.
- Create - Elastic Load Balancer**: Description: Create - Elastic Load Balancer. Icon: Amazon ELB logo.
- Create - RDS Instance**: Description: Create - RDS Instance. Icon: Amazon RDS logo.
- Create - S3 Bucket**: Description: Create - S3 Bucket. Icon: Amazon S3 logo.
- Create - Virtual Private Cloud**: Description: Create - Virtual Private Cloud. Icon: Amazon VPC logo.
- Dev DB Server**: Description: Dev DB Server. Icon: Database logo.
- Dev Workstation**: Description: Dev Workstation. Icon: Alpha logo.

At the bottom of the interface, there is a "Sorted by" dropdown set to "Name (Asc.)" and a "Per page" dropdown set to "20". The footer contains the text "Copyright ©2014 Red Hat, Inc." and the date/time "8/25/14 12:33 UTC".

CloudForms visibilité des VM's



VM OS Etat VM

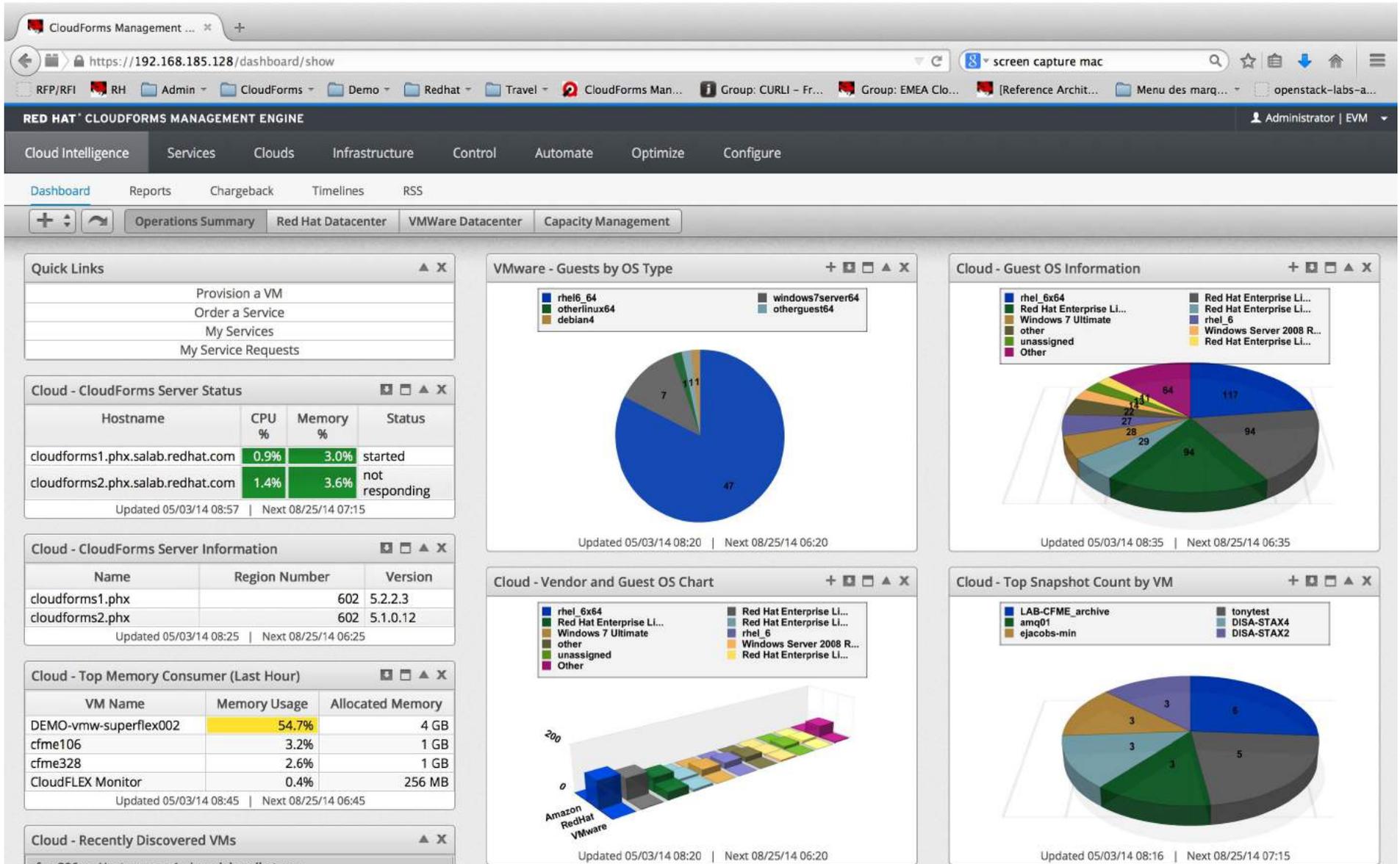
Politique de sécurité

Platform

nbr Snapshots



CloudForms Rapport Management Global



RED HAT CLOUDFORMS

RoadMap

CLOUDFORMS : Nouvelle interface

Dashboard for TENANT COMPANY NAME. User: JOHN DOE. Remaining Credit: \$220.55.

Metric	Value	Percentage
Remaining Budget	\$220.55	97%
Services	12	
Requests	6	
CPU Usage	97%	
Memory Usage	97%	
Storage Usage	97%	
Online Services	8	
Offline Services	4	
Expiring Soon	1	
Error Requests	2	
Pending Requests	4	

Navigation: Dashboard, My Services (12), My Requests (2), Service Catalog, Notifications (3).

Footer: What's New, Popular Services, CloudForms UI.

if user has approval role, add another item to the nav which views all pending requests which they can approve

© 2015 Tenant Company

CLOUDFORMS : Nouveau Catalogue de Service

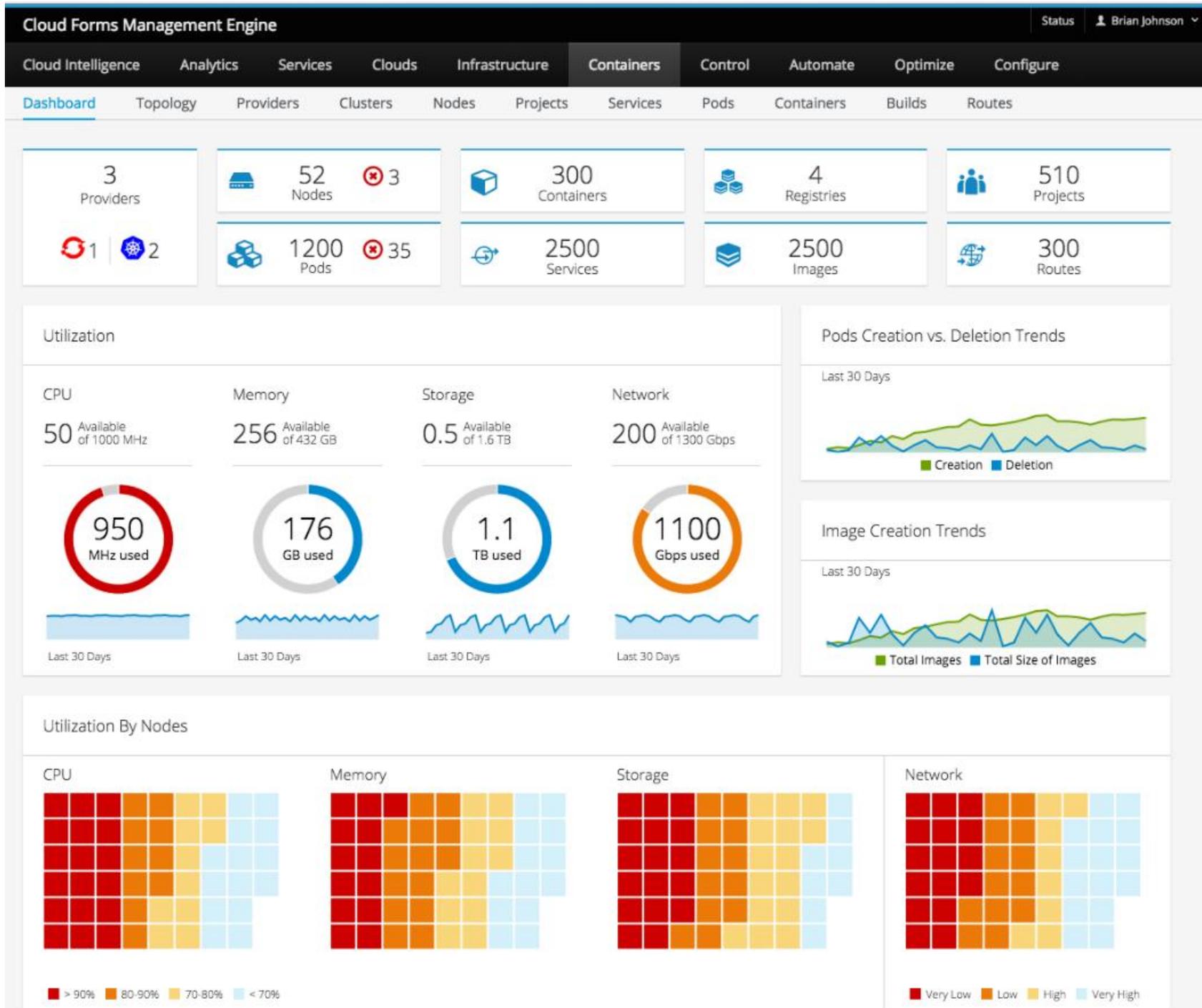
The screenshot displays the Red Hat CloudForms Service Catalog interface. At the top, a purple header bar contains a recycling icon, the text "TENANT COMPANY NAME", a yellow callout box with the text "Add SEARCH on TOP and FIND on each page", and notification icons for messages (2), alerts (3), and a shopping cart, along with a search icon.

A left-hand navigation sidebar includes a user profile for "JOHN DOE" with a dropdown arrow, a "Remaining Credit" of "\$220.55", and menu items for "Dashboard", "My Services" (12), "My Requests" (2), "Service Catalog" (highlighted), and "Notifications" (3). A copyright notice "© 2015 Tenant Company" is at the bottom of the sidebar.

The main content area features a horizontal filter bar with categories: "All", "IaaS", "Infrastructure", "Containers", "Applications" (selected), "Big Data", "Storage", and "Networking". Below this, eight service cards are displayed in a grid:

- APACHE**: \$4.00 / month. Includes the Apache logo and a "More" button.
- JBoss DATA GRID**: \$2.00 / month. Includes the JBoss logo and a "More" button.
- JBoss EAP**: \$2.00 / month. Includes the JBoss logo and a "More" button.
- JBoss PORTAL**: \$2.00 / month. Includes the JBoss logo and a "More" button.
- JBoss WEB Server**: \$4.00 / month. Includes the JBoss logo and a "More" button.
- MongoDB**: \$6.50 / month. Includes the MongoDB logo and a "More" button.
- MySQL**: \$4.00 / month. Includes the MySQL logo and a "More" button.
- Wordpress**: \$8.00 / month. Includes the Wordpress logo and a "More" button.

CLOUDFORMS : CMP IaaS et PaaS



CLOUDFORMS : CMP IaaS et PaaS

RED HAT® CLOUDFORMS MANAGEMENT ENGINE Administrator | EVM

Cloud Intelligence Services Clouds Infrastructure Containers Control Automate Optimize Configure

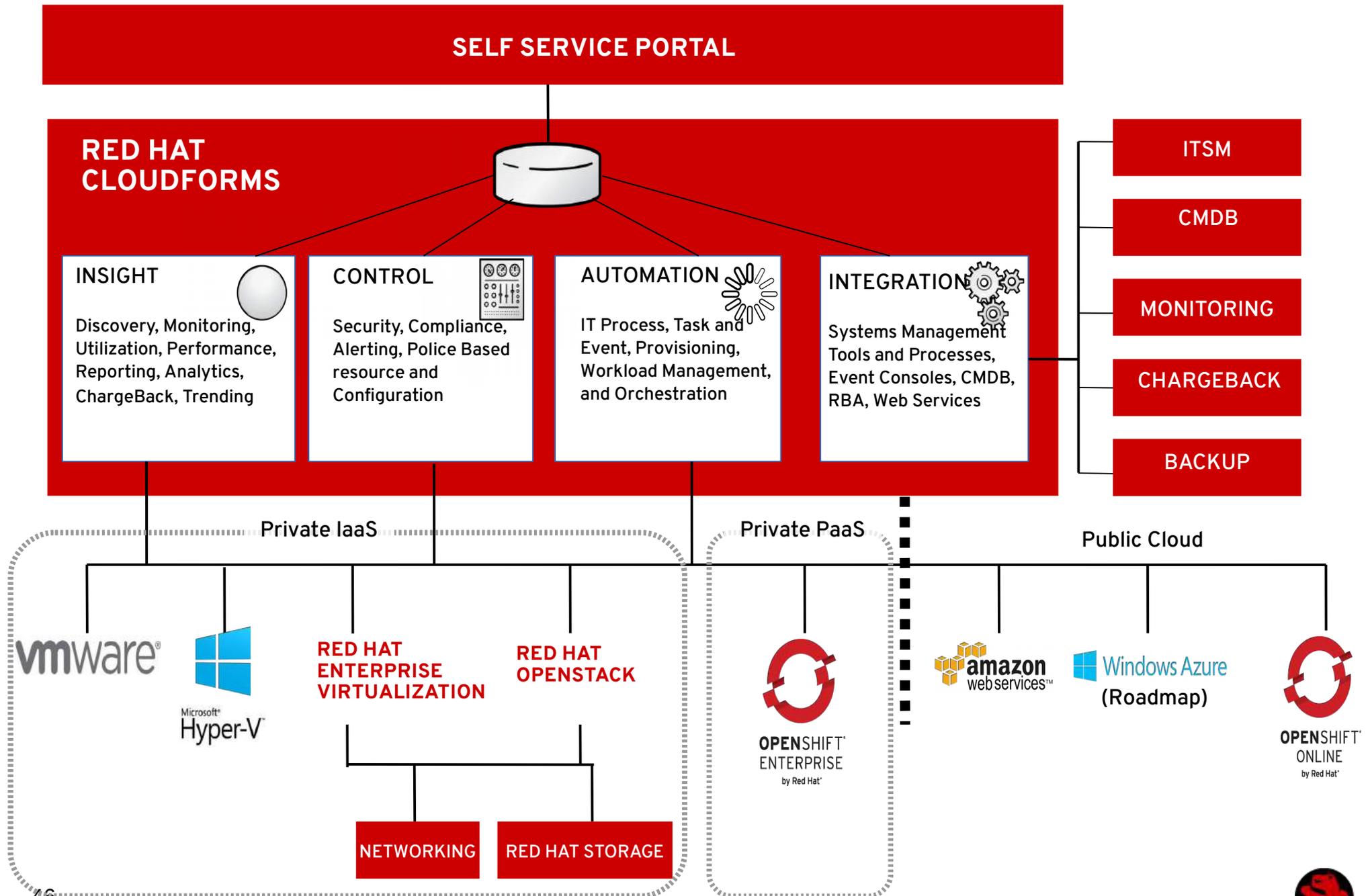
Containers Providers Projects Nodes Container Groups Routes Replicators Images Image Registries Services Containers Topology

Container Groups Services Nodes Containers Hosts VMs

6/21/2015 13:01 UTC

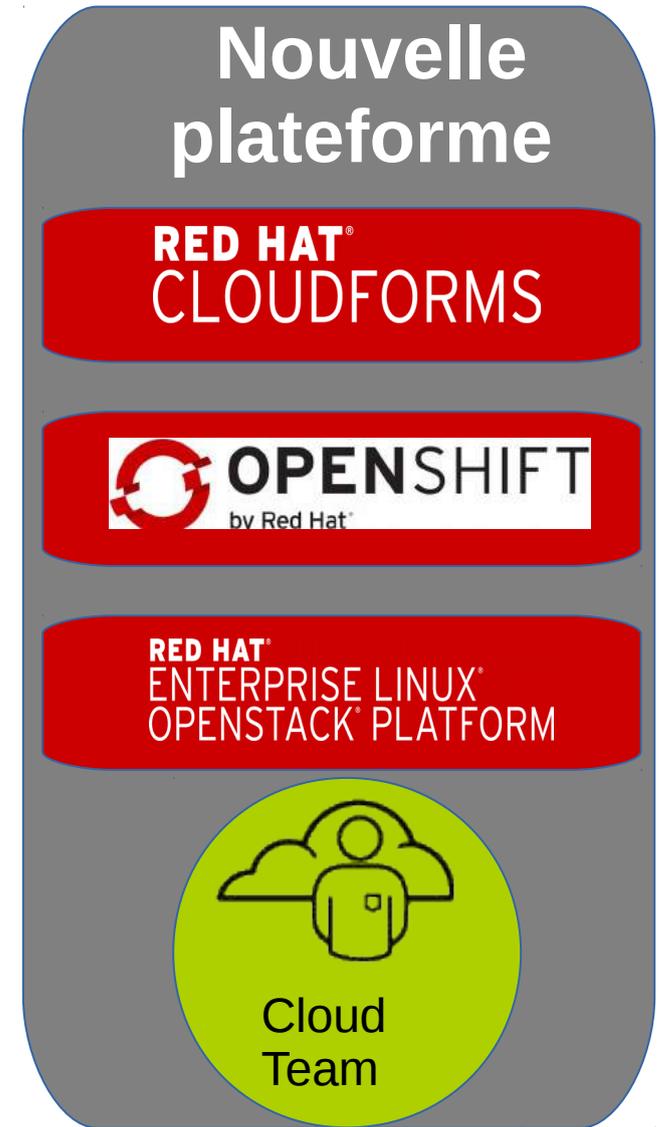
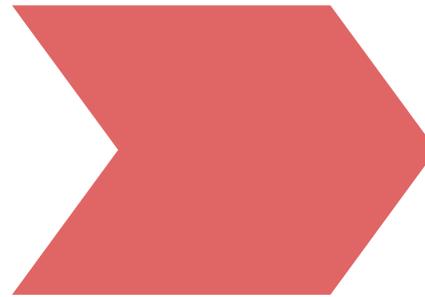
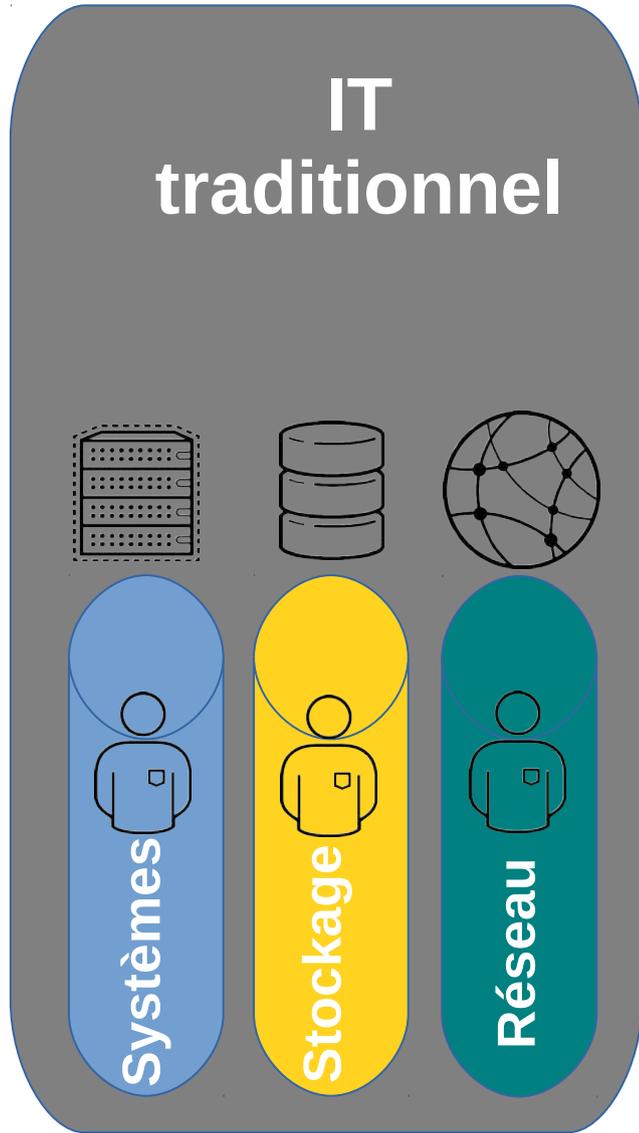


Red Hat Partenaire de votre stratégie Cloud

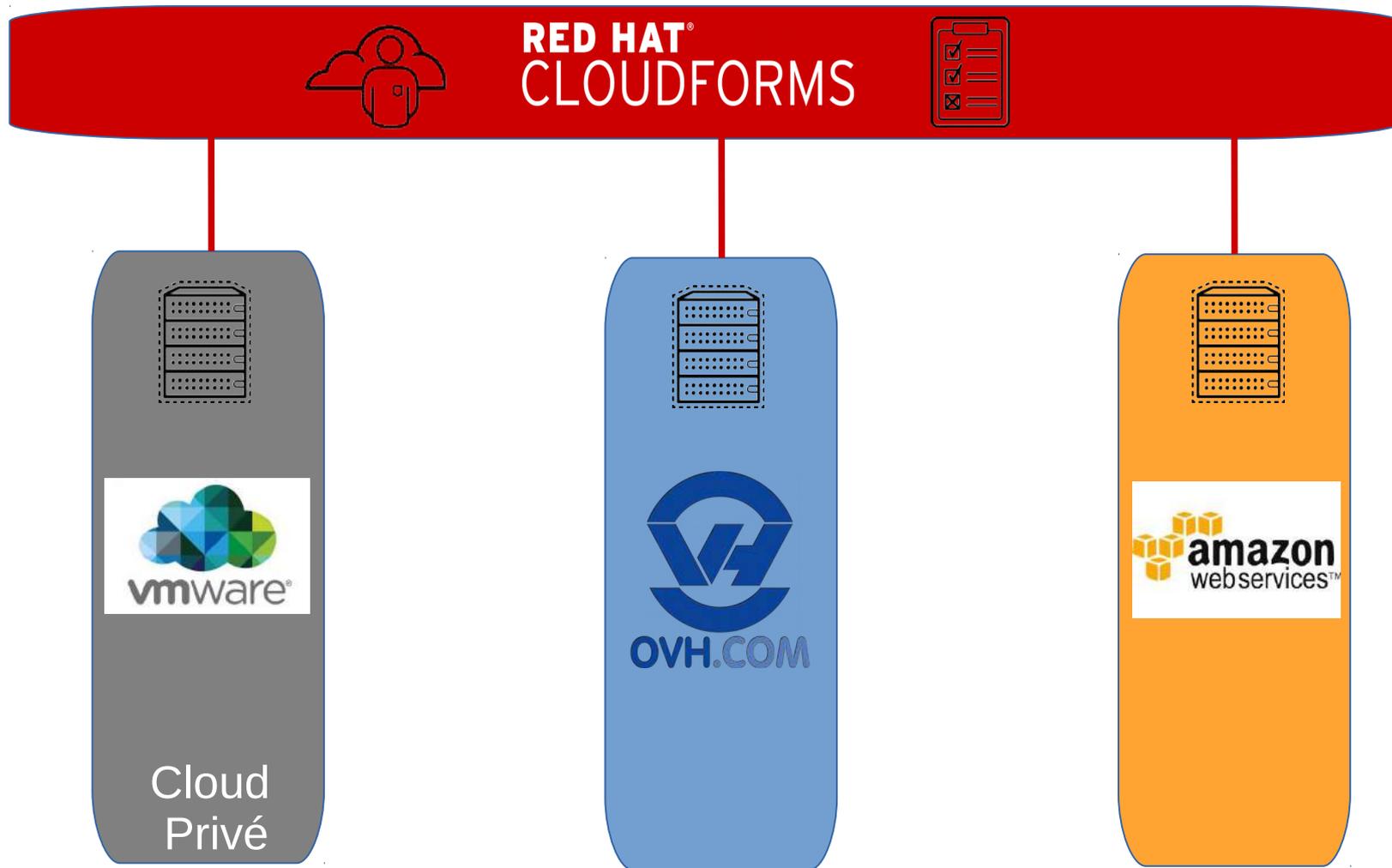


CAS CLIENTS

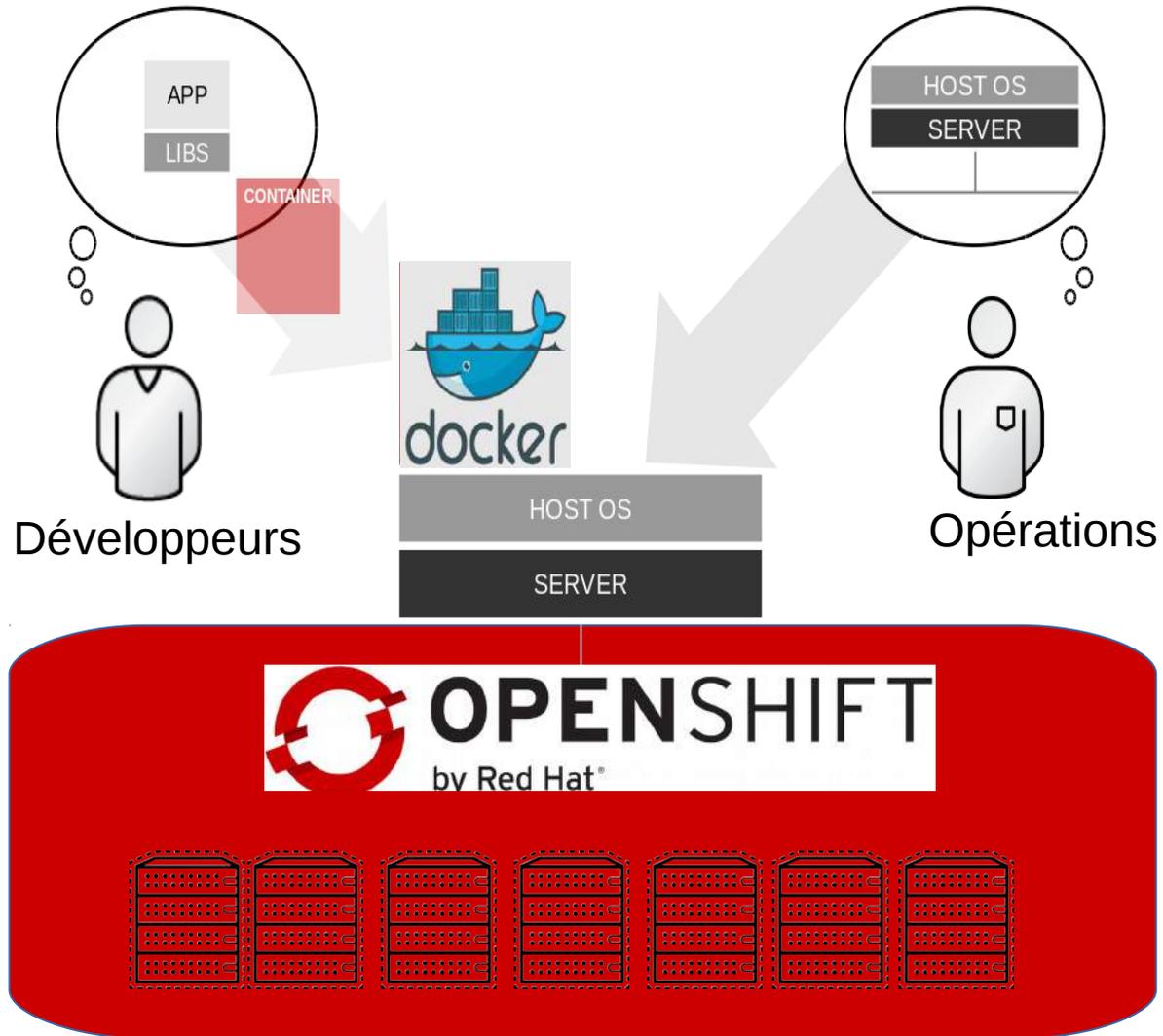
LEADER MONDIAL DE L'ASSURANCE



LEADER MONDIAL DU MOBILIER URBAIN



amadeus





redhat.®