



RED HAT
OPEN SOURCE DAY

Europe, Middle East & Africa



FULLY AUTOMATED AND SCALABLE INFRASTRUCTURE WITH RED HAT OPENSTACK AND CEPH

Michele Naldini

Solution Architect

mnaldini@redhat.com

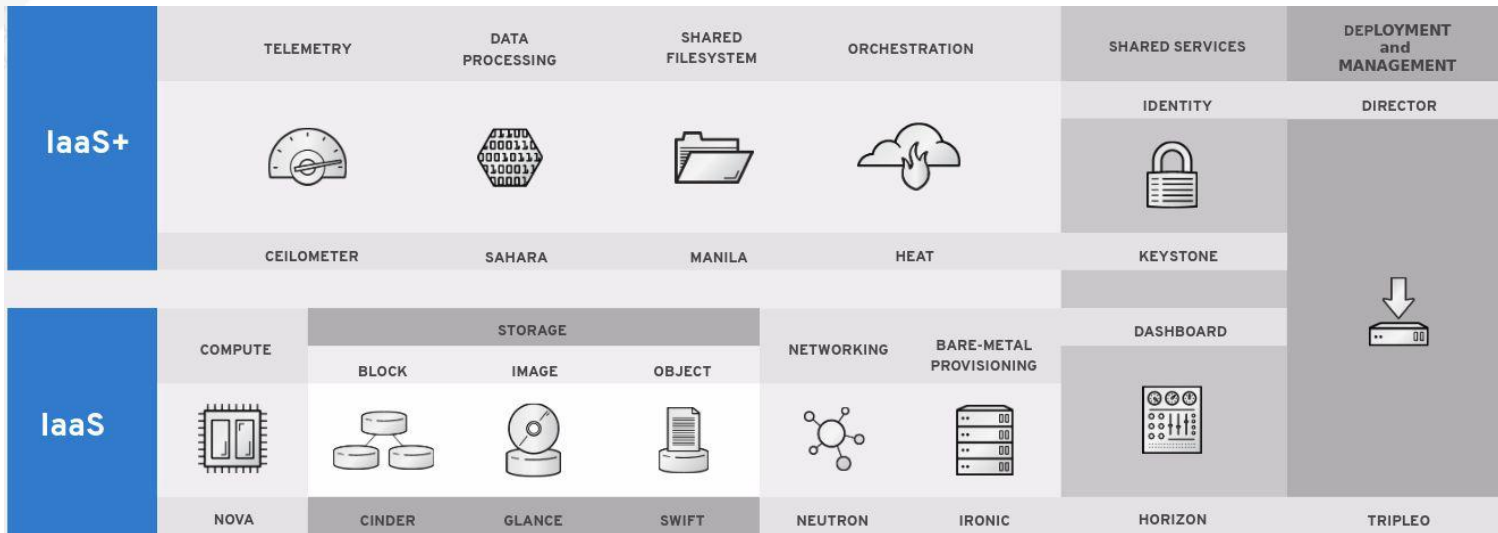
Rinaldo Bergamini

Solution Architect

rinaldo@redhat.com

Openstack

Infrastructure as a Service



Open Source



Modularity

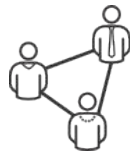


Easily scale out



Powers Digital Business





Openstack

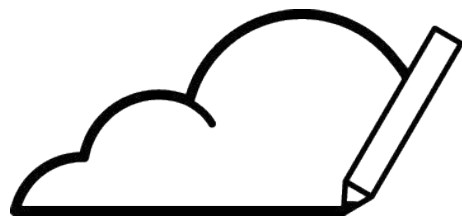
30.000 *Developers*

624 *Companies*

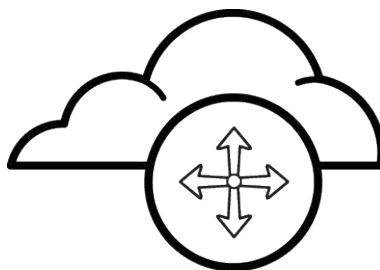
#1



We Know Openstack is **POWERFUL** ... We Need To Use It In an **EFFECTIVE** Way



**Automated
Workloads
Build**



**Scalable
Services**



Control

Data Center as a Service



Business Goals

1. Innovate faster than competition
2. Deliver more Value Added Services



Dev Goals

1. Focus on Coding not on Infra
2. Start Develop Now
3. Test many times without constraint



Infra Goals

1. Quick Fully automated setup
2. Reusable and Idempotent
3. Control and compliance

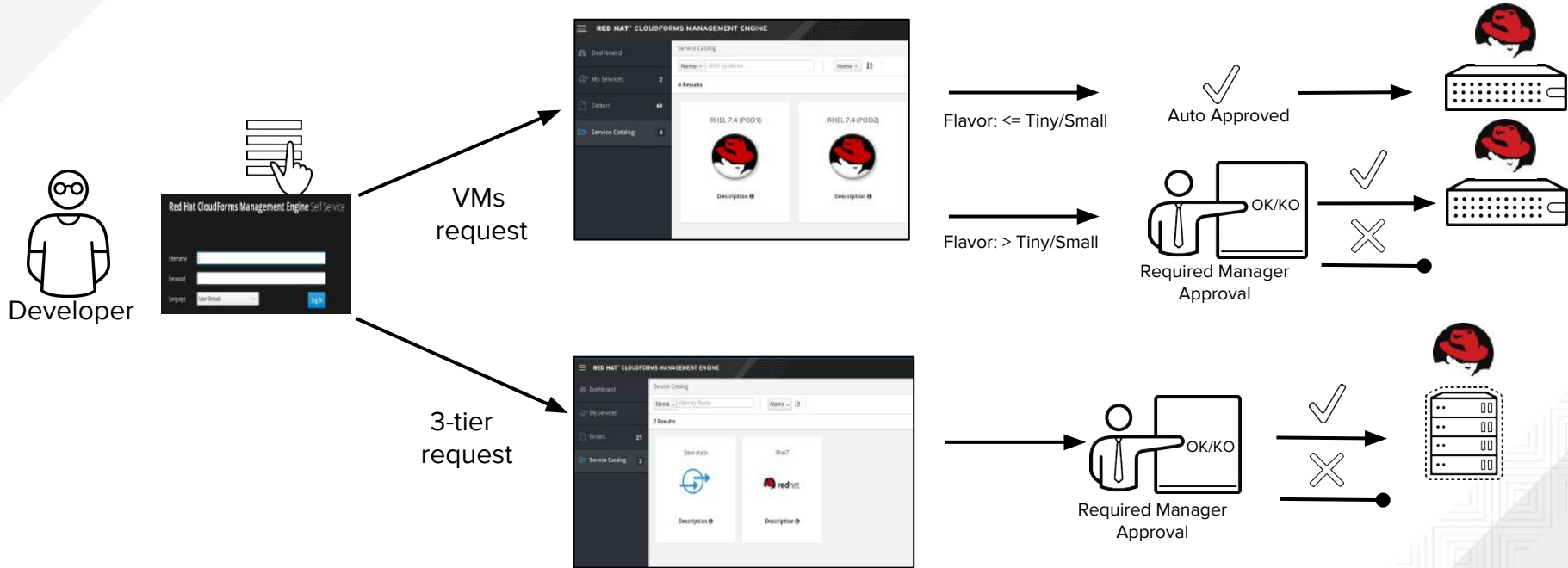


CONTROL & COMPLIANCE BUT NOT LIKE THIS ...



How to: Red Hat Cloudforms + Openstack

Service Request Workflow





RED HAT
OPEN SOURCE DAY

Europe, Middle East & Africa



DATA CENTER AS A SERVICE DEMO TIME!

Elastic Auto Scaling



Business Goals

1. Accommodate Business Cycle
2. Grant service quality
 - a. Availability
 - b. Performances
 - c. SLA/KPI



Infra Goals

1. Scale Out/Down” Services and Infrastructure accordingly to predefined metrics
2. Avoid manual configurations



RED HAT
OPEN SOURCE DAY

Europe, Middle East & Africa



ELASTIC AUTO SCALING DEMO TIME!

Planning & Reporting



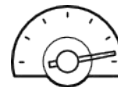
Business Goals

1. Grant resources availability for new and existing services
2. Predict “bottleneck” = forecast accuracy



Infra Goals

1. Collect usage information across providers
2. Predict bottleneck
3. Doing it frictionless





RED HAT
OPEN SOURCE DAY

Europe, Middle East & Africa



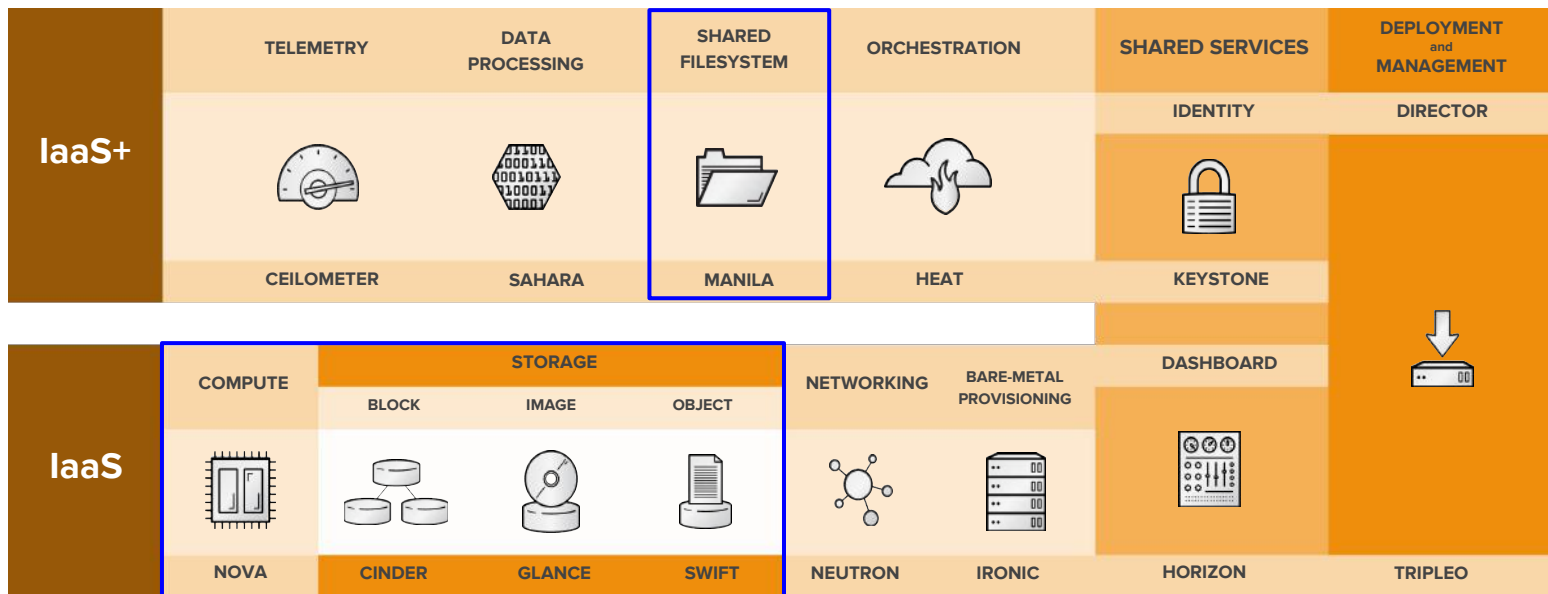
PLANNING & REPORTING DEMO TIME!

RED HAT CEPH STORAGE

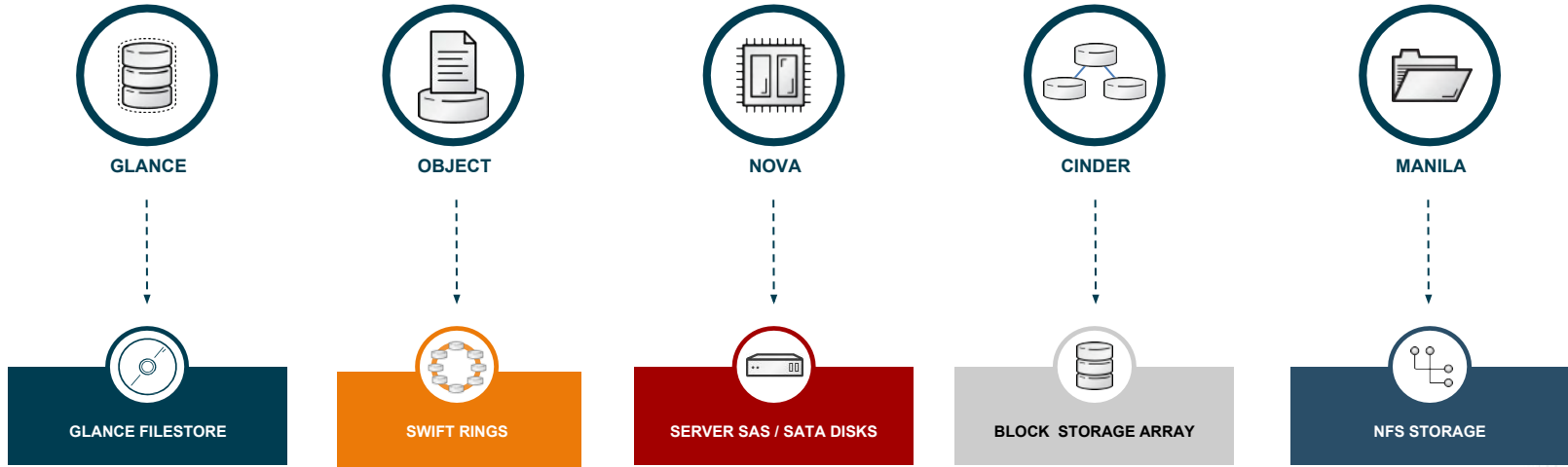
Standard De Facto Storage Solution for Openstack



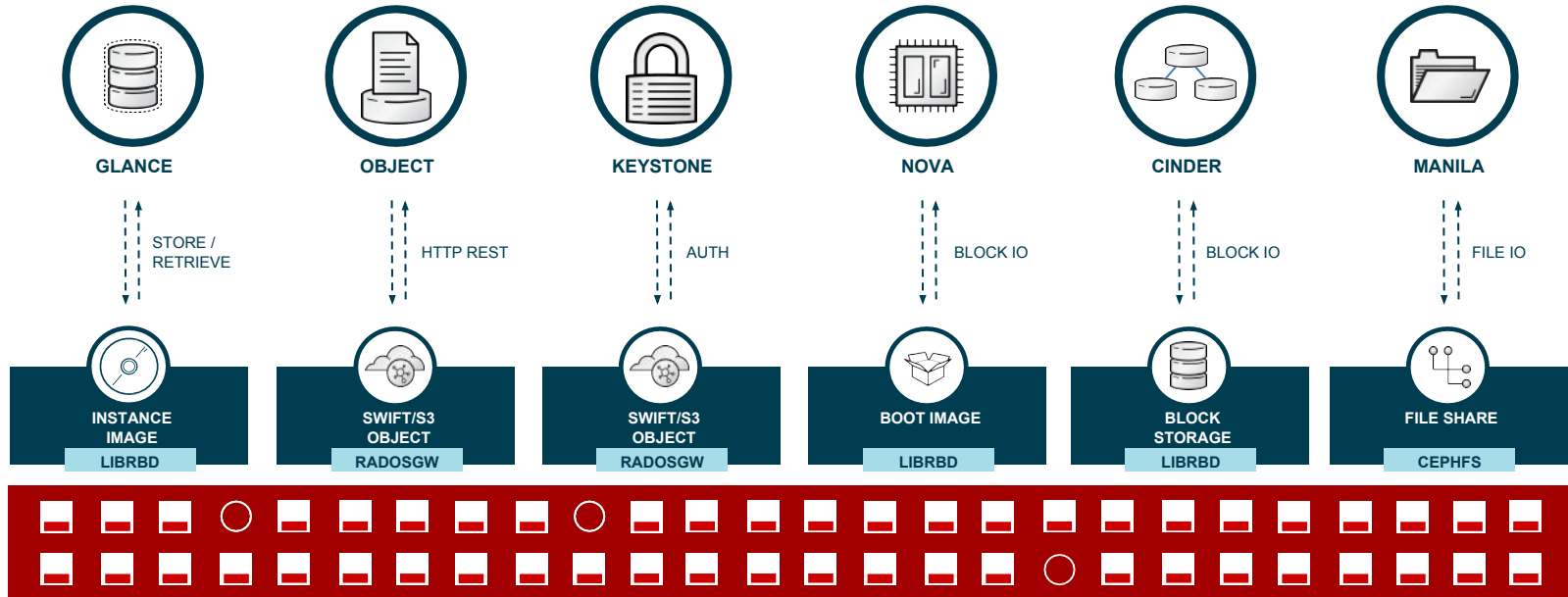
Openstack needs Storage



Openstack without Ceph



Openstack with Ceph



Red Hat Ceph Storage 3 is here!

Check out our press release

1. OpenStack customers fully exploit the scale of the platform through a **unified software defined storage platform (Cephfs fully supported)**
2. Enabling **Windows** and **VMWare** customers to leverage modern, elastic storage without the expense and pain of moving the applications off their existing compute environments (**Iscsi**)
3. Deploying **storage in containers** for simplified operations, **smaller hardware footprint**, and **cost savings**
4. Improving usability and automation, including - **new intuitive, graphical dashboards**

Red Hat Ceph Storage 3 is **expected** to be **generally available** in November 2017.

RED HAT
CEPH STORAGE

<https://www.redhat.com/en/about/press-releases/red-hat-ceph-storage-3-broadens-reach-enterprise-workloads>

How to ?

Check out the Red Hat Developers Blog



<https://developers.redhat.com/blog/2017/11/02/build-software-defined-data-center-red-hat-cloudforms-openstack-2/>
<https://developers.redhat.com/blog/2017/11/02/build-software-defined-data-center-red-hat-cloudforms-openstack/>