

# Red Hat's Management & Open Hybrid Cloud

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# Red Hat Cloud Computing

## Solutions:

- Accelerate Service Delivery.
- Optimize I.T & DevOps environments.
- Modernize Development and Operations.
- Deliver Stable & Scalable Infrastructure.

**RED HAT™**  
CLOUDFORMS

 **OPENSHIFT™**  
by Red Hat

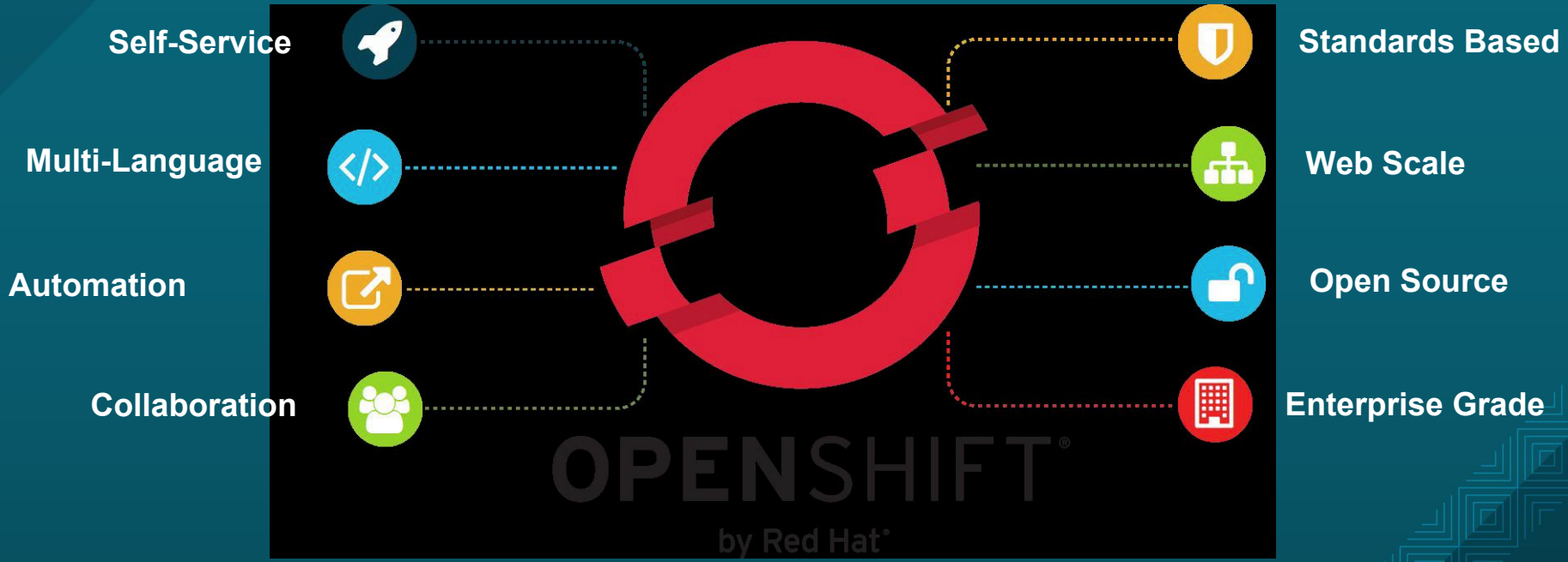


openstack.

# OpenShift



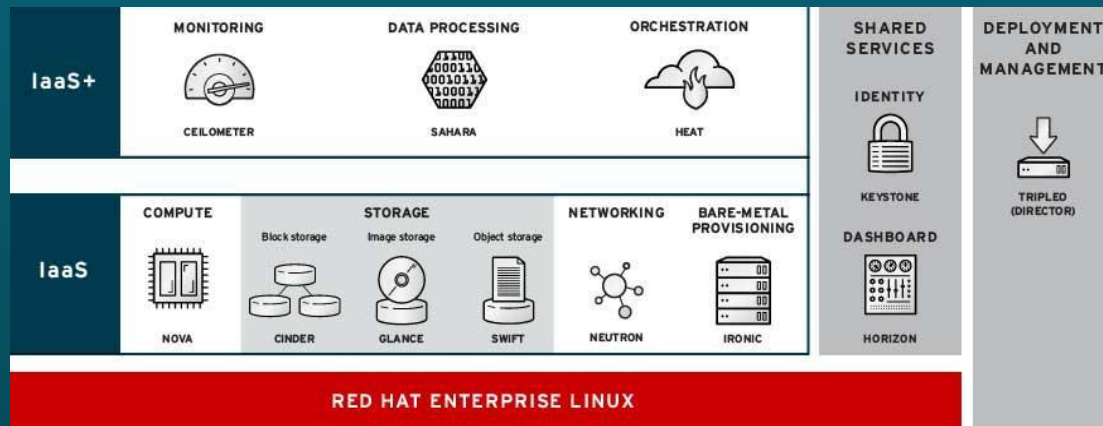
- PaaS – Platform as a Service.
- Brings Docker, Kubernetes and more projects to enterprise.
- Multi-language support.
- Auto-Scaling = minimum downtime.
- Full Red Hat registry support.



# OpenStack



- IaaS – Infrastructure as a Service.
- Agnostic to underlying hardware.
- Built-in storage system – CEPH
- Look & feel of a public cloud on a **private** cloud.





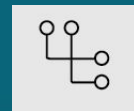
**Governance,  
Compliance**



**Chargeback**



**Integration**



**Process  
Orchestration**



**Executive  
Dashboards**



**Monitoring,  
Health**



**RED HAT<sup>™</sup>  
CLOUDFORMS**



**EC2**

**vmware<sup>®</sup>**



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**Microsoft**



**openstack<sup>™</sup>**



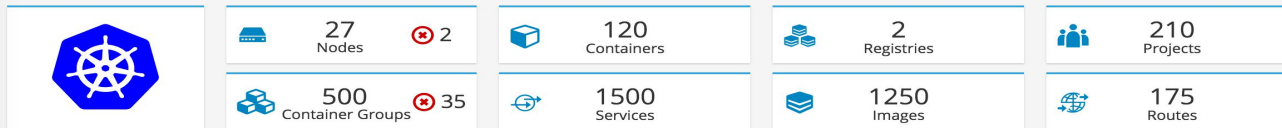
**OPENSIFT<sup>™</sup>**  
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Utilization

CPU

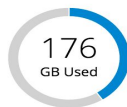
50 Available of 1000 MHz



Last 30 Days

Memory

256 Available of 432 GB



Last 30 Days

Storage

0.5 Available of 1.6 TB



Last 30 Days

Network

200 Available of 1300 Gbps



Last 30 Days

Container Group Trends

Last 30 Days



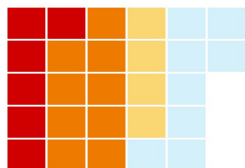
Image Creation Trends

Last 30 Days



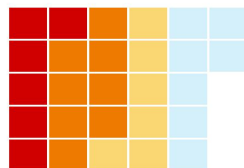
Utilization By Nodes

CPU

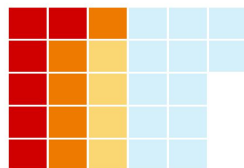


> 90% 80-90% 70-80% < 70%

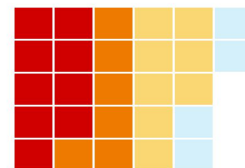
Memory



Storage



Network



Very Low Low High Very High

# CloudForms

- **Full management platform**
  - physical, virtual & cloud IT environments.
- **Unified framework**
  - Single dashboard
- **Manage the entire lifecycle**
  - provisioning to retirement.
- **Risk Management**
  - compliance policies.

vmware®





# Capabilities & Features

- Self-service provisioning & management.
- Accelerate service delivery.
- Governing, Tracking & Compliance.
- Cost Allocation & Chargeback.

# Cost Allocation & Chargeback

- Calculate monetary charges.
- Create sets of computing & storage costs.
- Create chargeback reports for monitoring.
- Cost-effective structure.



# Capacity & Utilization Data Charts

- View resource utilization.
- Plan your infrastructure **better**.
- Detect bottlenecks.
- Compare objects – VM's, clusters...



# Smart State Analysis

- Captures in-depth, real-time information.
- Can be initiated manually or automatically.
- **Agentless** & doesn't require machine to be active.
- History of data over time.



CloudForms Simplifies

# Integration with



- Dramatically simplify automation.
- Provision complex applications & services.
- CloudForms policies can execute playbooks based on events.
- Control alerts.



# OPENSIFT<sup>®</sup> & Container Management

by Red Hat<sup>™</sup>

- Manage security, patching, and performance.
- Mark the nodes that are not compliant.
- Identify containers that come from untrusted registries.
- Scan the content of container images using – compliance.

*matrix* 



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