



# RED HAT GLUSTER TECHSESSION SHORT SIDE PRODUCT INFORMATION

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April 2017

# SIDE PRODUCT INFORMATION

## Red Hat Gluster Tech Session

Red Hat Gluster Storage easily integrates with other Red Hat Products.

### **Short explanation/introduction to:**

- Ansible
- Red Hat OpenShift
- Red Hat Virtualization

ANSIBLE

**AUTOMATION FOR EVERYONE**

It's a **simple automation language** that can perfectly describe an IT application infrastructure in Ansible Playbooks.

It's an **automation engine** that runs Ansible Playbooks.

Ansible Tower is an **enterprise framework** for controlling, securing and managing your Ansible automation with a **UI and restful API**.





## SIMPLE

Human readable automation  
No special coding skills needed  
Tasks executed in order  
**Get productive quickly**



## POWERFUL

App deployment  
Configuration management  
Workflow orchestration  
**Orchestrate the app lifecycle**



## AGENTLESS

Agentless architecture  
Uses OpenSSH & WinRM  
No agents to exploit or update  
**More efficient & more secure**



TEAM IMPACT



ENTERPRISE IMPACT

+ Save time and be more productive

+ Eliminate repetitive tasks

+ Fewer mistakes & errors

+ Improve collaboration and job satisfaction

+ Overcome complexity

+ More resources for innovation

+ Increase accountability and compliance

+ A culture of success



**RED HAT**<sup>®</sup>  
**OPENSIFT**  
Container Platform

# WHAT ARE CONTAINERS?

It Depends Who You Ask

## INFRASTRUCTURE

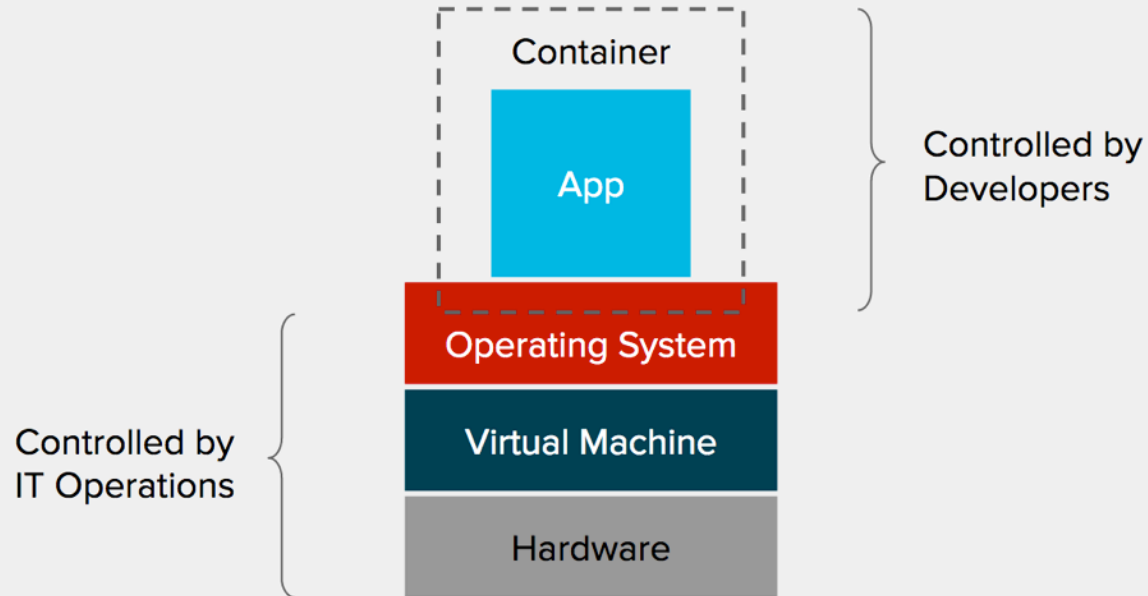
- Sandboxed application processes on a shared Linux OS kernel
- Simpler, lighter, and denser than virtual machines
- Portable across different environments

## APPLICATIONS

- Package my application and all of its dependencies
- Deploy to any environment in seconds and enable CI/CD
- Easily access and share containerized components



# THE SOLUTION



# WE NEED MORE THAN JUST CONTAINERS

## Scheduling

Decide where to deploy containers

## Security

Control who can do what

## Lifecycle and health

Keep containers running despite failures

## Scaling

Scale containers up and down

## Discovery

Find other containers on the network

## Persistence

Survive data beyond container lifecycle

## Monitoring

Visibility into running containers

## Aggregation

Compose apps from multiple containers

Kubernetes is an open-source system for automating deployment, operations, and scaling of containerized applications across multiple hosts



**kubernetes**

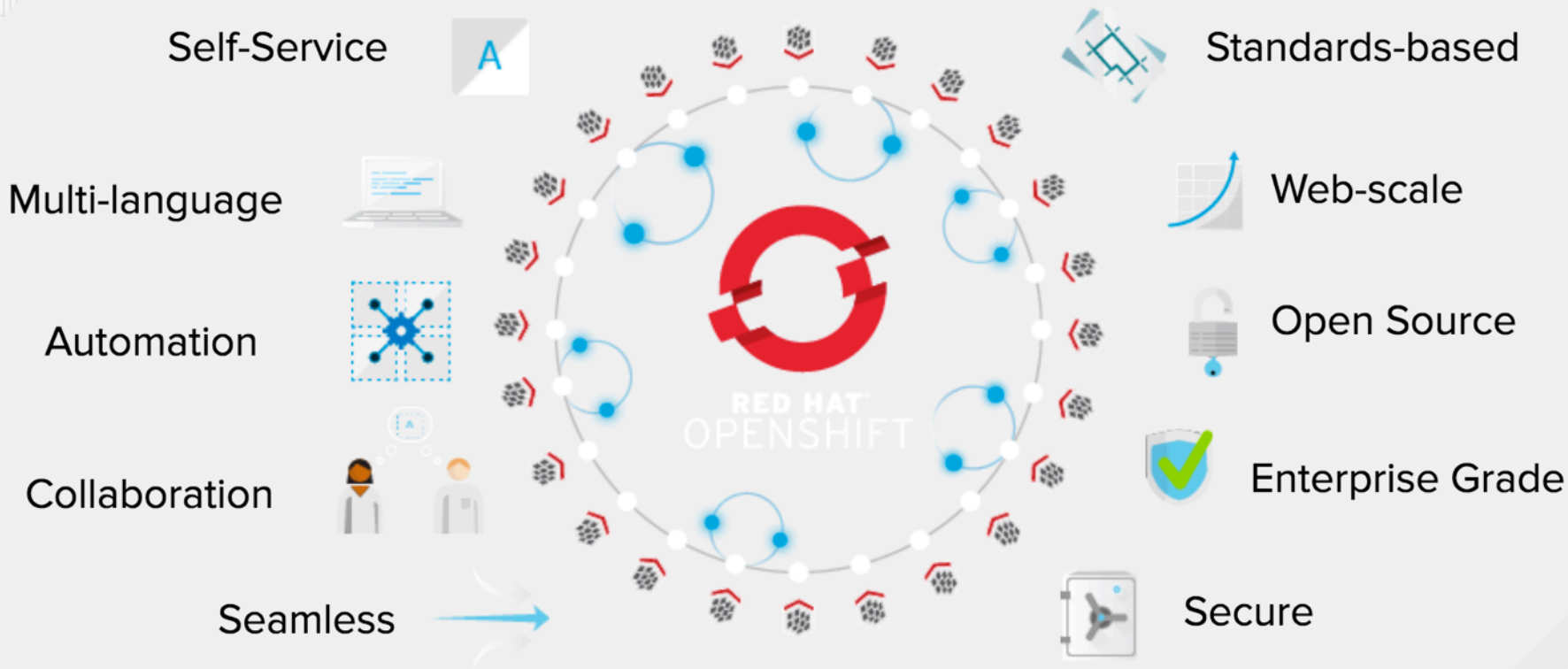
# NOT ENOUGH, THERE IS MORE!

Multi-tenancy	Teams and Collaboration
Routing & Load Balancing	Quota Management
CI/CD Pipelines	Image Build Automation
Role-based Authorization	Container Isolation
Capacity Management	Vulnerability Scanning
Infrastructure Visibility	Chargeback

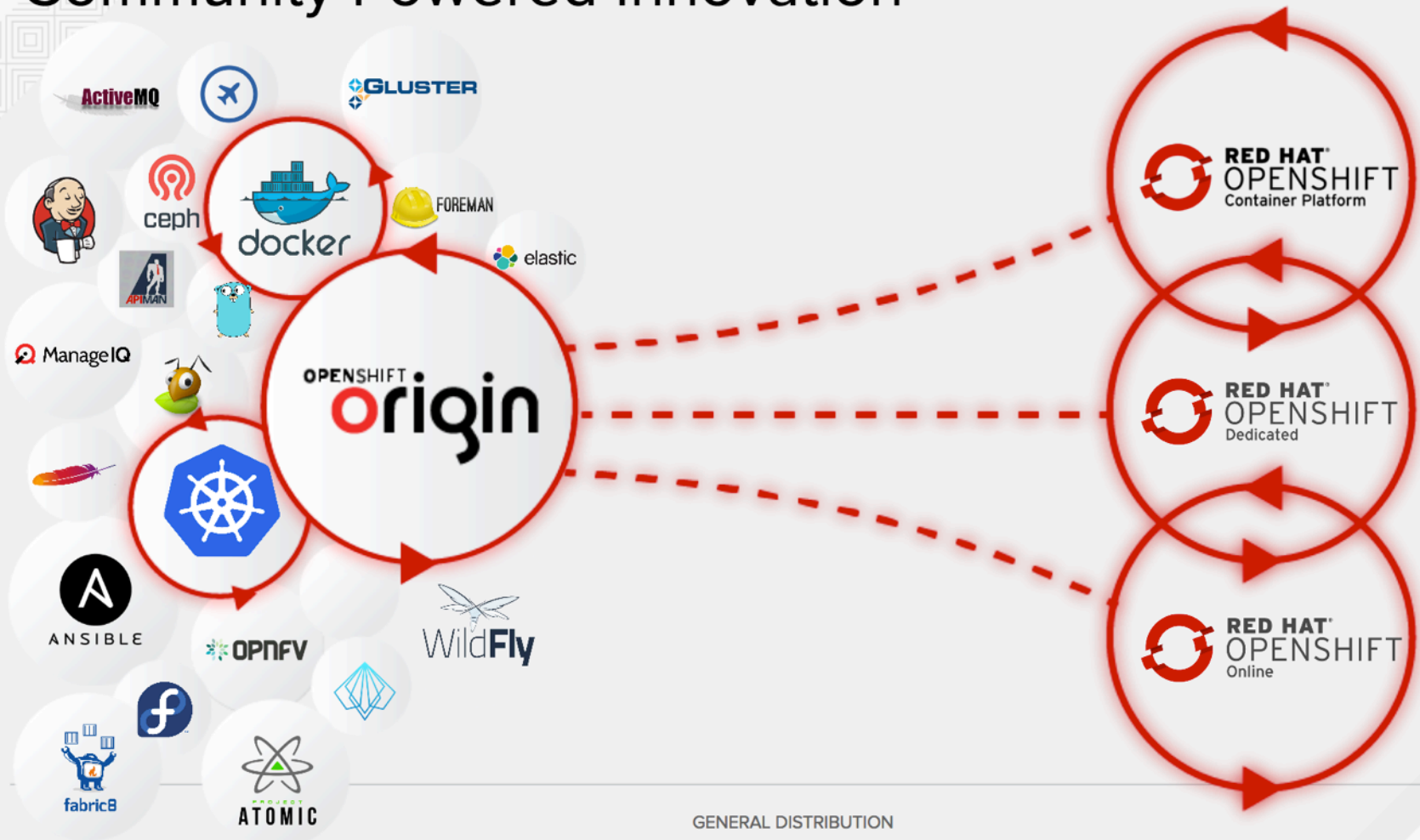
Container application  
platform based on Docker  
and Kubernetes for building,  
distributing and running  
containers at scale



# Critical features for both Dev and Ops



# Community Powered Innovation

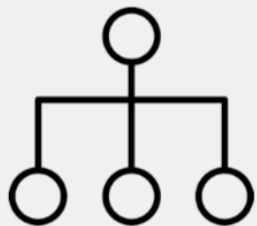


GENERAL DISTRIBUTION

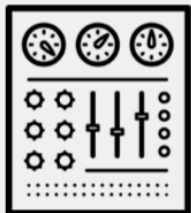
# RED HAT VIRTUALIZATION



# RED HAT VIRTUALIZATION AT A GLANCE



**Centralized Management  
of the Open Source KVM  
Hypervisor**



**Automated Workload  
Management,  
Scalability, sVirt &&  
SELinux**



**Reduced  
Infrastructure Cost**



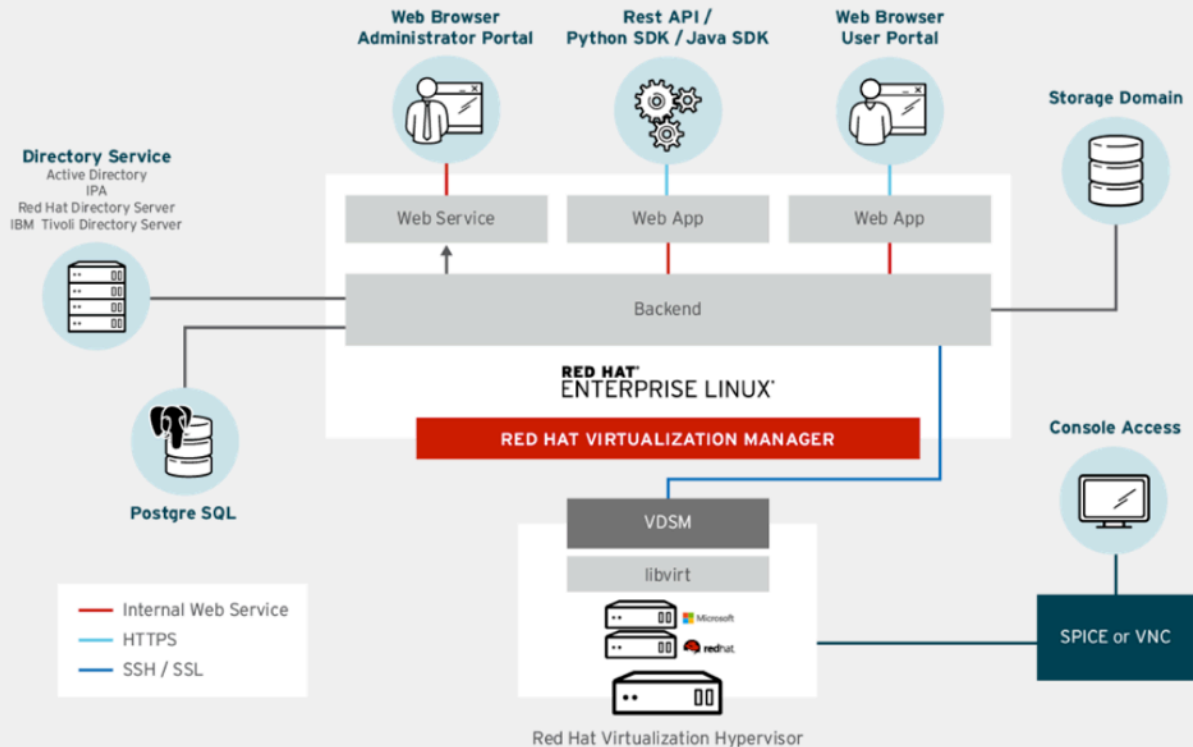
**Unmatched  
Performance**

# RED HAT VIRTUALIZATION BENEFITS

## RED HAT<sup>®</sup> VIRTUALIZATION

- **Leading performance:** Top virtualization benchmarks for performance and scalability
- **Enterprise-ready:** Powerful mix of enterprise features, scalability
- **Open:** Offers choice and interoperability with no proprietary lock-in
- **Cross-platform:** Optimized for Microsoft Windows and Linux guests
- **Integration with future technologies:** OpenStack and containers. Common services layer to facilitate transition to flexible workloads
- **Cost:** Lower total cost of modernization and optimization and higher ROI than competitive platforms

# RED HAT VIRTUALIZATION TECHNICAL OVERVIEW



# NEXT: RED HAT GLUSTER STORAGE TECHNICAL OVERVIEW