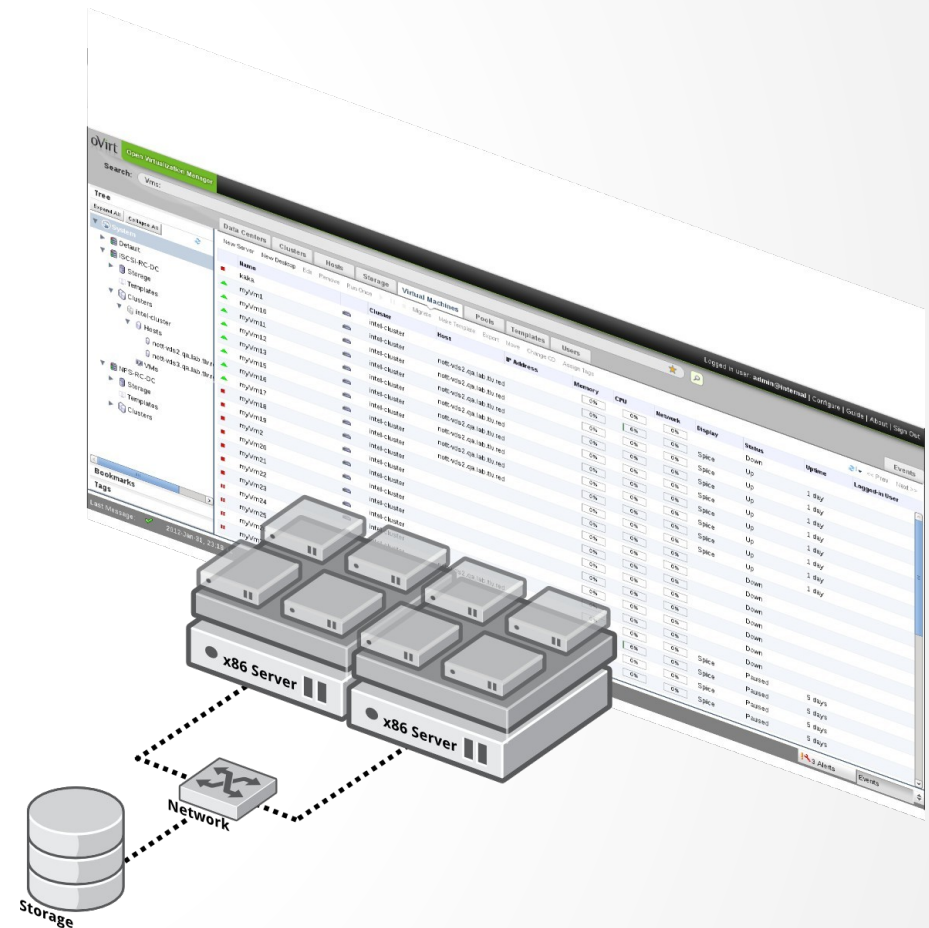# oVirt

OVERVIEW

Agenda

- About me
- What is oVirt?
- Why no (just) OpenStack
- Feature or Functionality
- Background
- Devprocess

About me

- 李建盛（适兄）
- lijiangsheng1@gmail.com
- Worked at RedFlag Linux
- Open Source Preacher
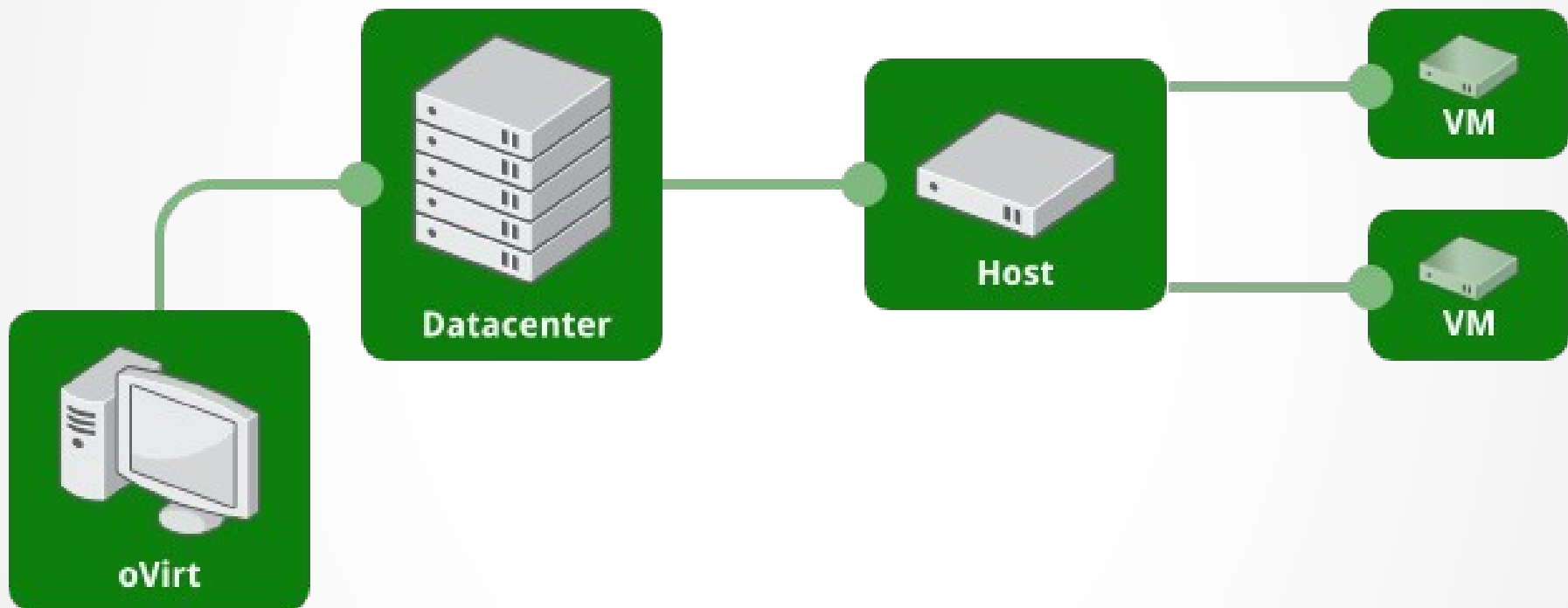- C/python/java ......
- Anaconda/peacemake/cloudstack

What is oVirt?

- Large scale, centralized management for server anddesktop virtualization

- Based on leading performance,scalability and security infrastructure technologies

- Focus on KVM for best integration/performance

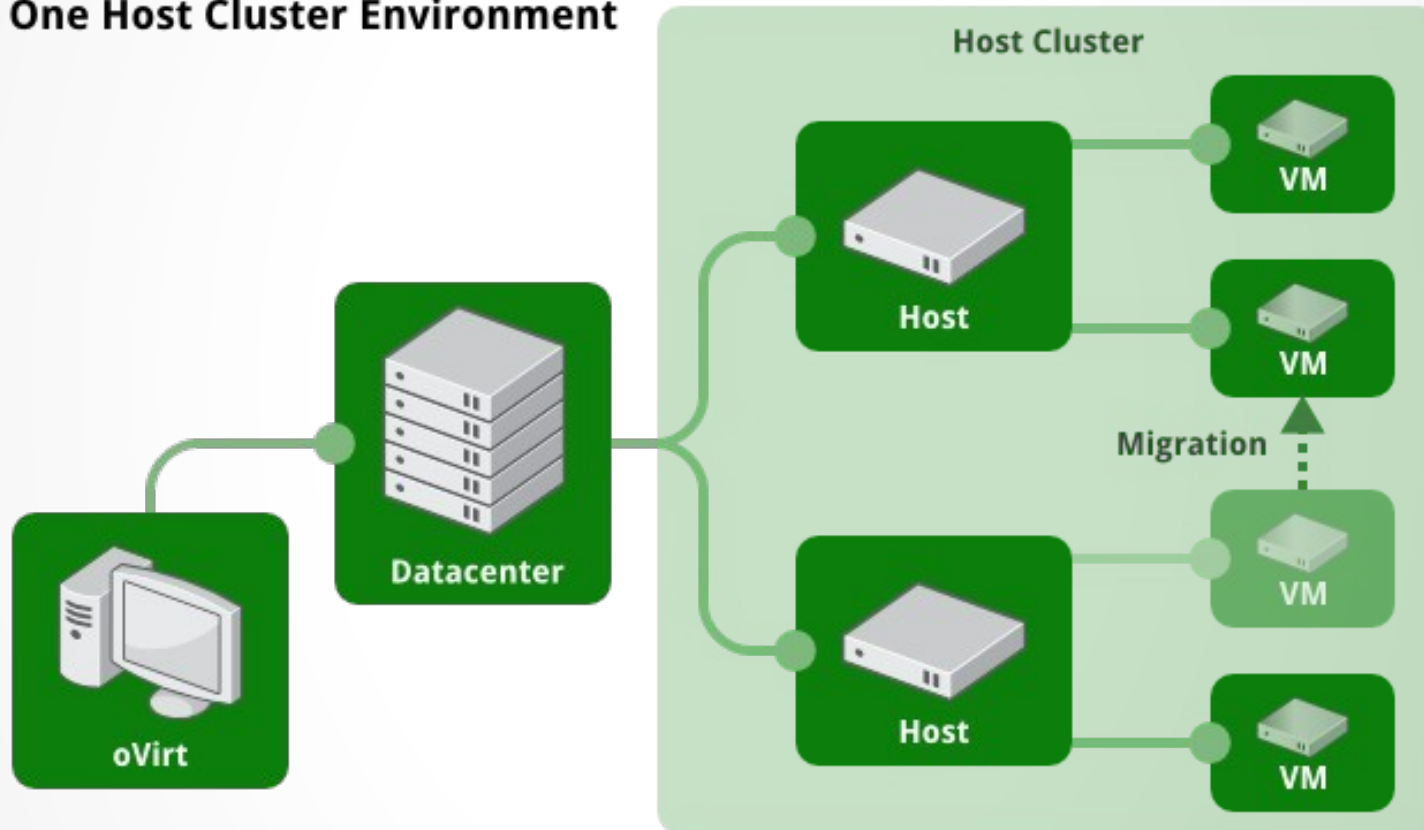- Provides an open source alternative to vCenter/vSphere

- RHEV upstream

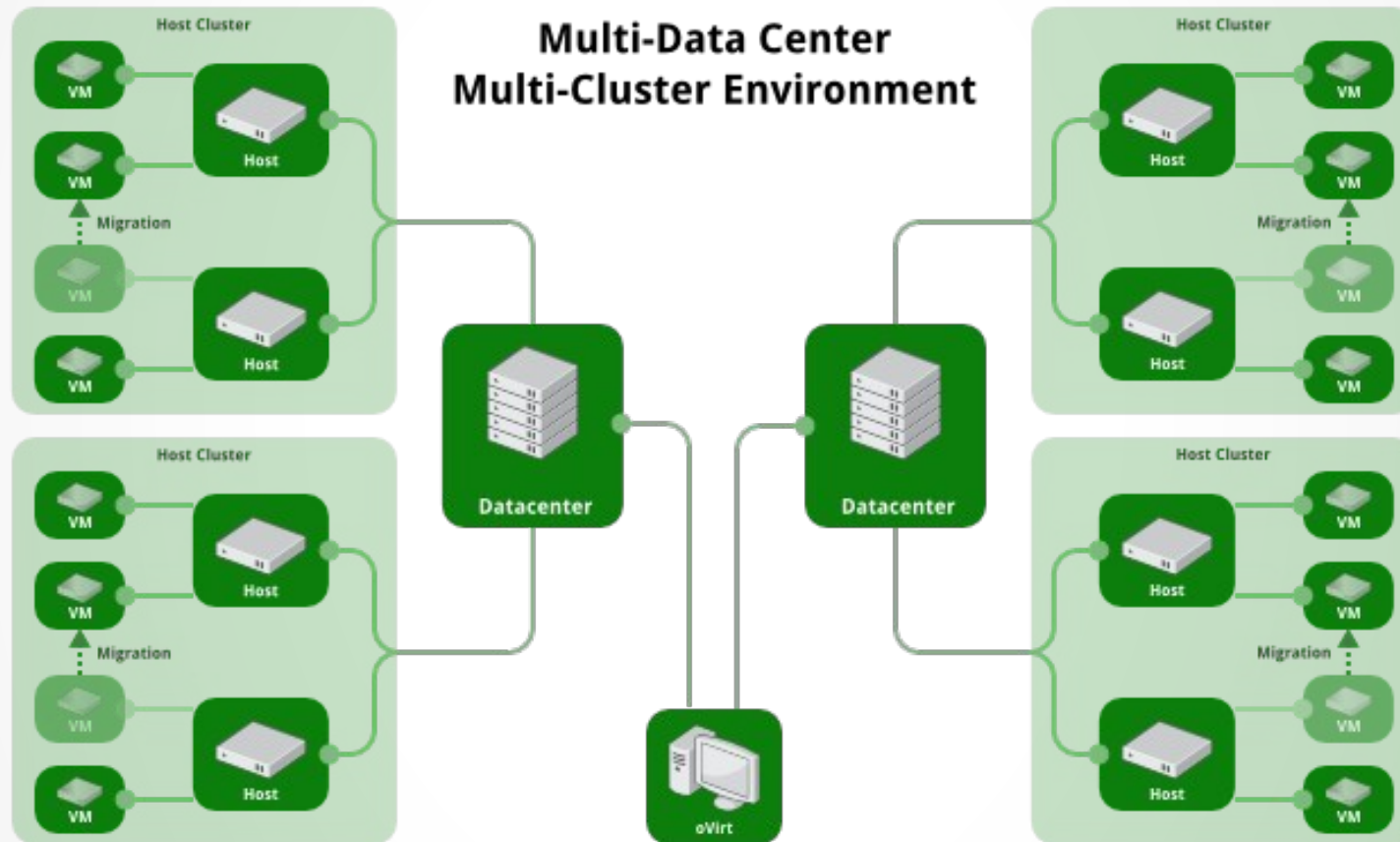# Single host environment

Basic One Host Environment

Single cluster environment

Multiple datacenter environment

Why not OpenStack?

- Statefull VMs: application is king

- Application SLA = VM SLA

- SLA Request VM must High Available

- VM scale up: add vCPU,vRAM etc.

- on line time per years.

- suit for tradition application

- Stateless VMs: Distributed Applications

- app's SLA no depend VM

- create and delet as needed

- application scale out: add more VMs

- on line per hours/days/mouths

- Change tradition app for cloud
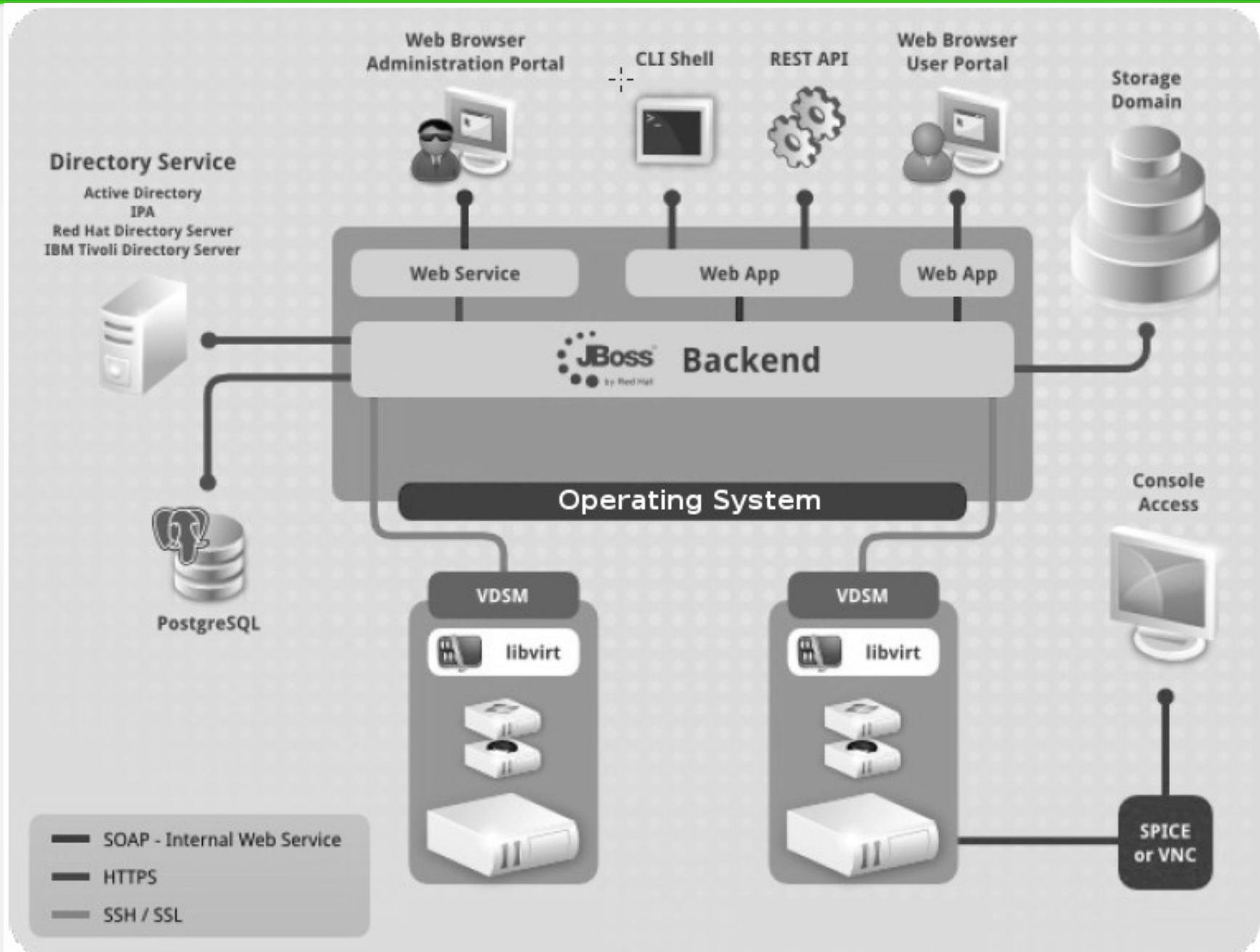
Why not OpenStack(2)

- pet
- not happly only one.
- application

- cattle
- all not happly
- resource and service

Architecture

Administration Portal

Functionality

- ● Centralized Management
- ● High Availability
- ● Live Migration
- ● Storage Live migration
- ● Load Balancing
- ● Power Management
- ● Templates, thin provisioning, snapshots
- ● V2V & P2V Migration tools
- ● Self Service User Portal
- ● Reporting Engine
- ● …… More

Background

- Feb 2007: Qumranet's KVM becomes part of mainline Linux kernel
- Sept 2007: Qumranet's KVM-based Windows VDI product, Solid ICE, ships
- Oct 2007: First commit in old oVirt repo (git.et.redhat.com)
- Feb 2008: oVirt project emerges publicly (for the 1st time)
- Sept 2008: Red Hat acquires Qumranet, Inc.
- Nov 2009: RHEV 2.1 ships w/ .NET-based management server
- Nov 2011: oVirt Project re-launches w/ Java-based management server
- Jan 2012: RHEV 3.0 ships w/ new engine in tech preview
- Feb 2012: oVirt 3.0 release (first community release)
- Aug 2012: oVirt 3.1 release
- Feb 2013: oVirt 3.2 release
- Aug 2013: oVirt 3.3 release
- May 2014 : oVirt 3.4 release
- May 2014: oVirt 3.5 preview

Devprocess

- http://gerrit.ovirt.org
- ssh config
- git clone gerrit.ovirt.org:subproject
- Hacking
- git add /git commit -s
- git push origin HEAD:refs

Come to join us

- Get started with oVirt

  http://www.ovirt.org/Download

- Help us make it better

  http://www.ovirt.org/Develop

- Chinese User Group

  http://ovirt-china.org(come soon)

Thanks for your listening.

Any Questions?

Reference

- http://www.socallinuxexpo.org/sites/default/files/presentations/ovirt-overview-scale-brooks.pdf
- http://www.ovirt.org/File:Open_Source_Cloud.pdf
- litke-lfcs-oVirt-Update-20140328.pdf
- http://www.ovirt.org/File:OVir