OpenStack Community & Ecosystem Future

叶璐 OpenStack Ambassador/Qunar DevOps Engineer



Key Growth Stats

- 1,494 contributors, with 169 organizations
- · 394 new features
- 7,257 bug fixed (+120% from the Juno)
- Red Hat, HP, IBM, Mirantis, Rackspace, OpenStack Foundation, Yahoo!, NEC, Huawei and SUSE
- 792,200 strings translated
- **113 drivers and plugins** supported across the computer, storage and networking capabilities

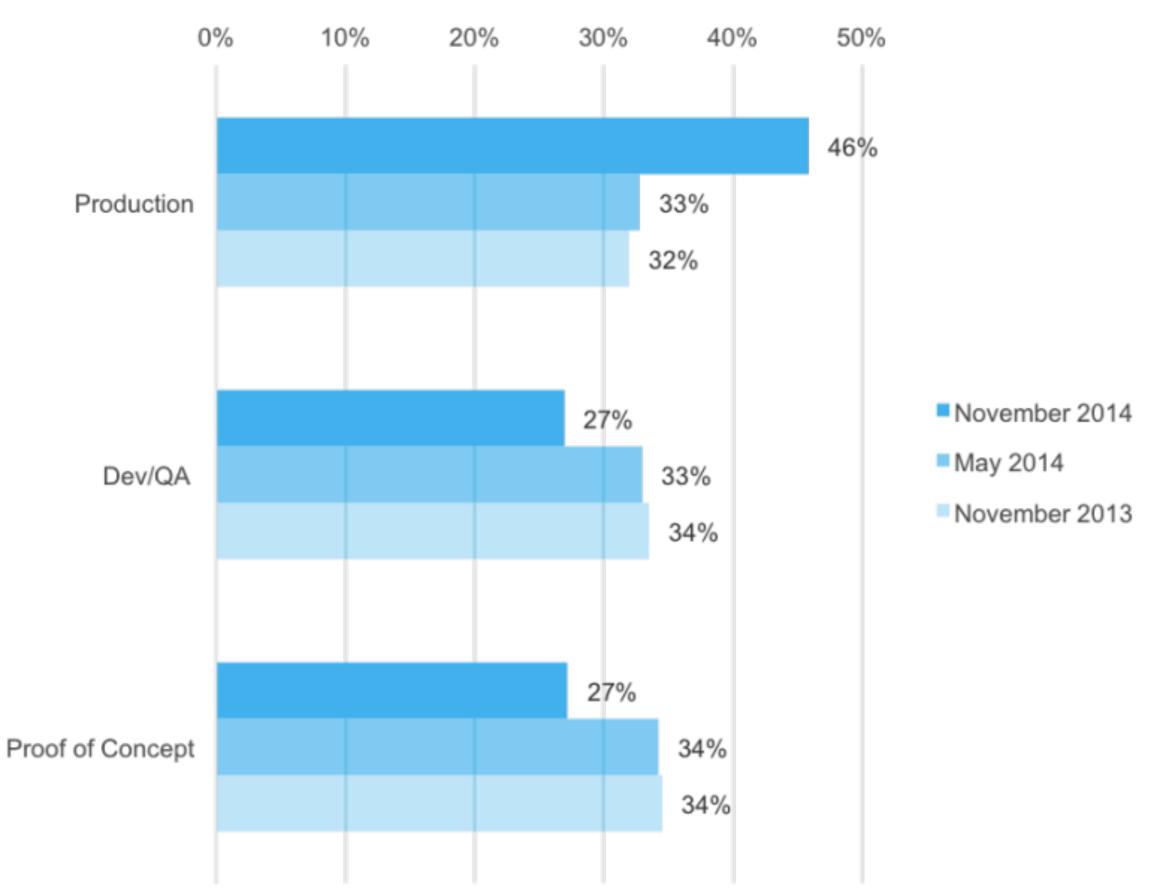
Kilo Key Themes

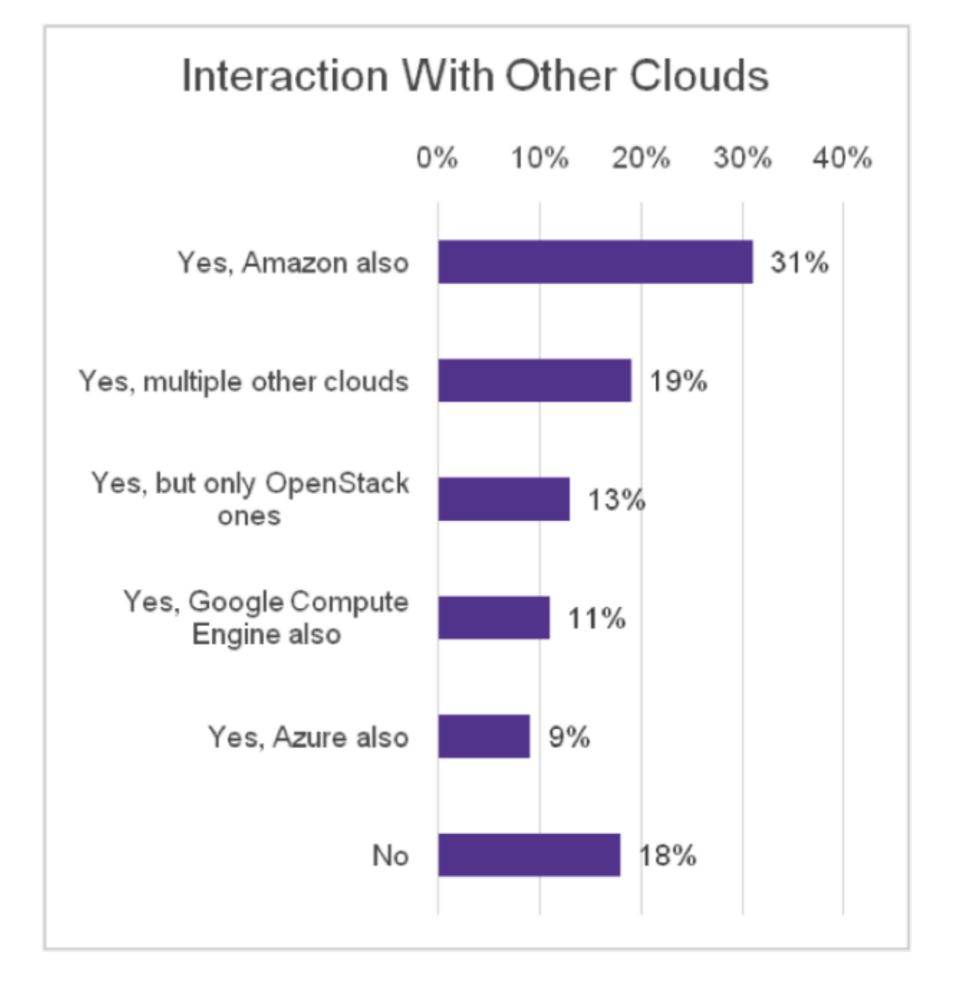
Tightly Defined Core	 Stability, scale across core compute, storage and networking services Defined common foundation for OpenStack clouds
Interoperability	 Rigorous testing standards to ensure consistency across plugin options Identity federation enables hybrid and multicloud use cases
Beyond Virtual Machines	 Ironic delivers next generation of bare metal provisioning Solid platform to support existing workloads, and adopt emerging technologies like containers, PaaS and NFV

Active

3 , 5 En	boot gineers	222,	936
SUPPORTING ORGANISATIONS	AVERAGE CONTRIBUTORS MONTHLY	PATCHES MERGED MONTHLY	TEST CLOUDS BUILT DAILY
490+	660+	7,500+	700+

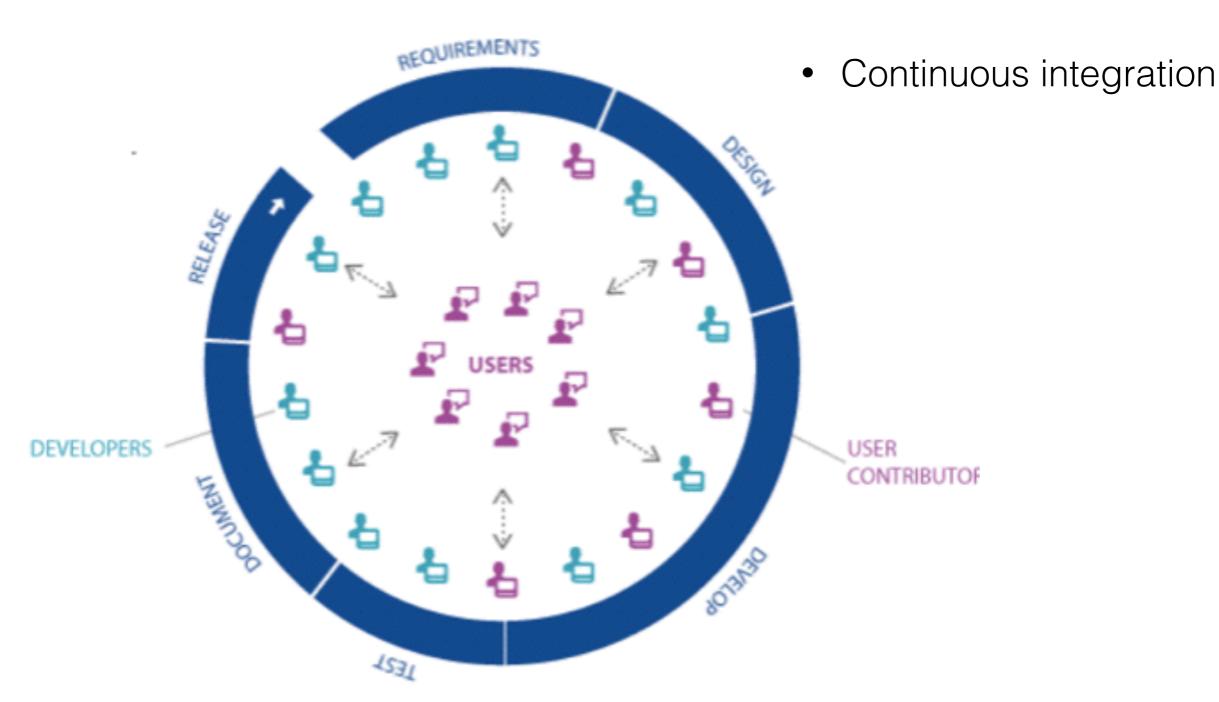
Deployment Stage





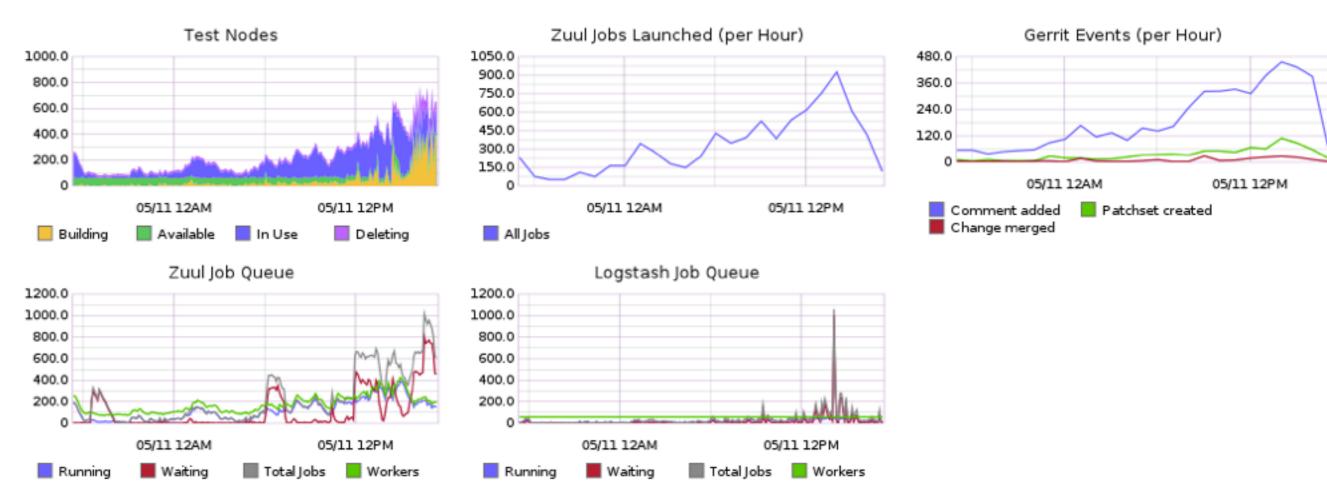
OpenStack Develop Process

• From requirement to release



Zuul Status

Job Stats

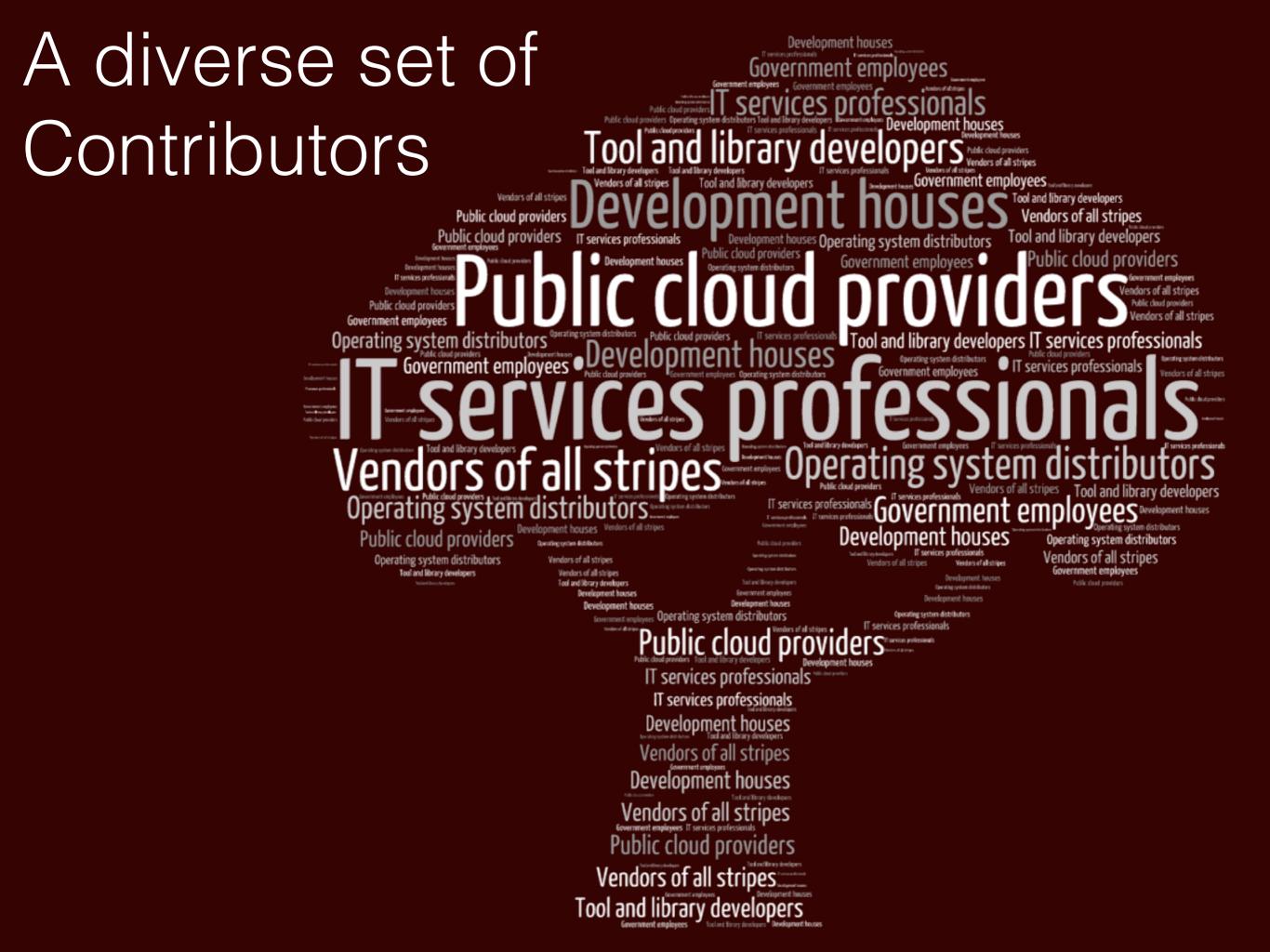


Zuul info

Zuul version: 2.0.0

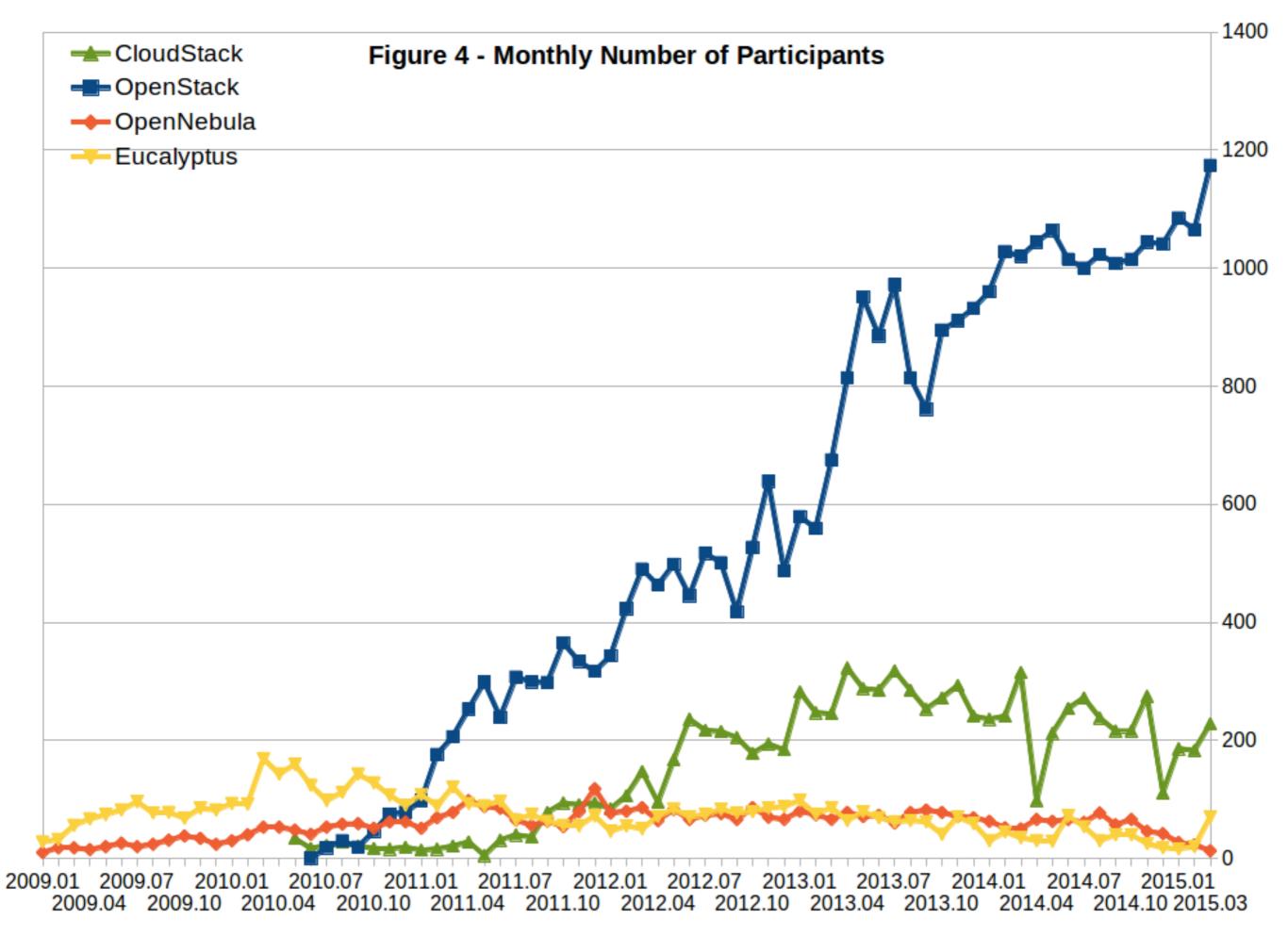
A diverse set of contributors

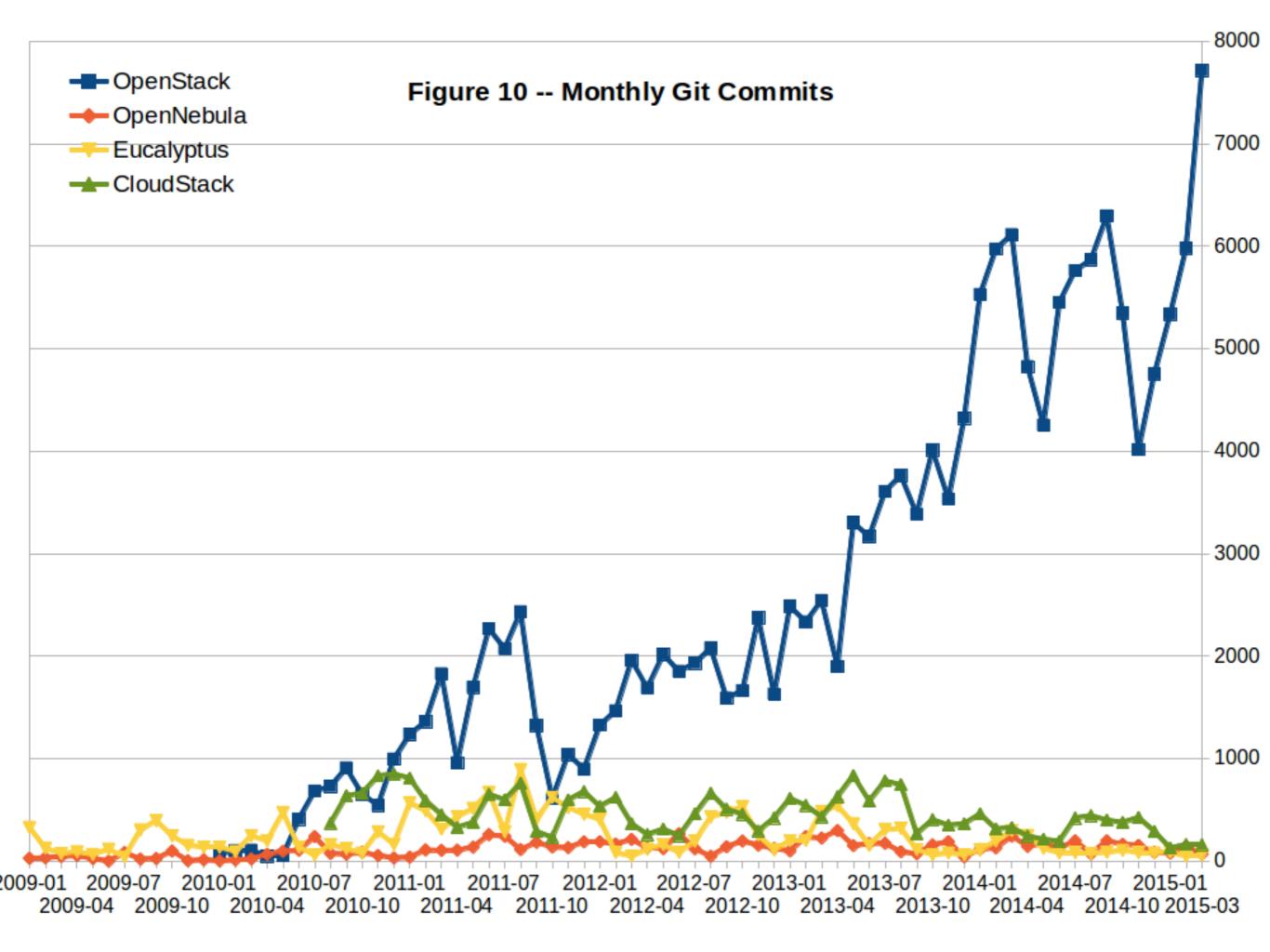
- Vendors of all stripes
- Government employees
- IT services professionals
- Public cloud providers
- Development houses
- Operating system distributors
- Tool and library developers

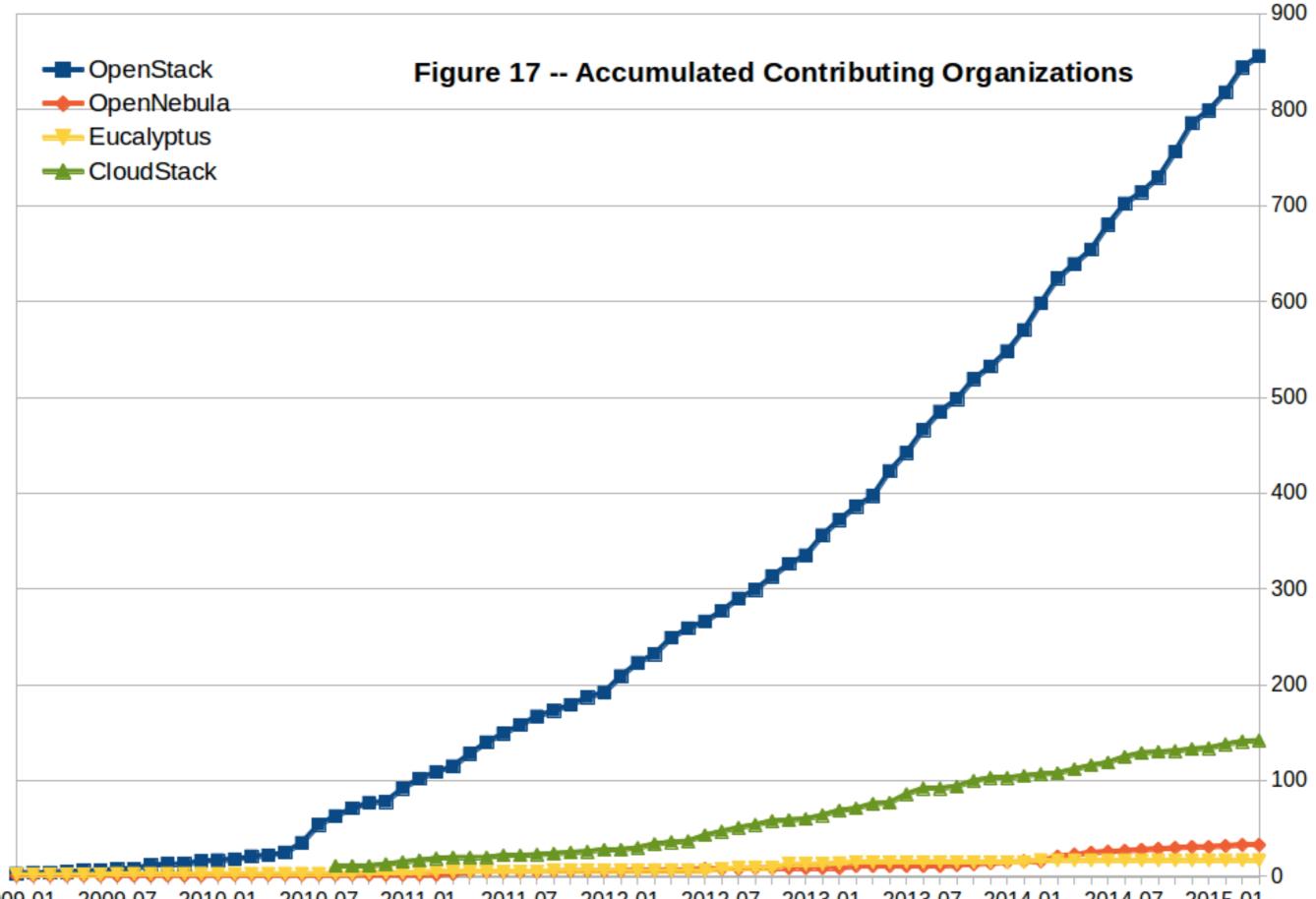


The 4 Open Cloud

- OpenStack
- OpenNebula
- Eucalyptus
- CloudStack

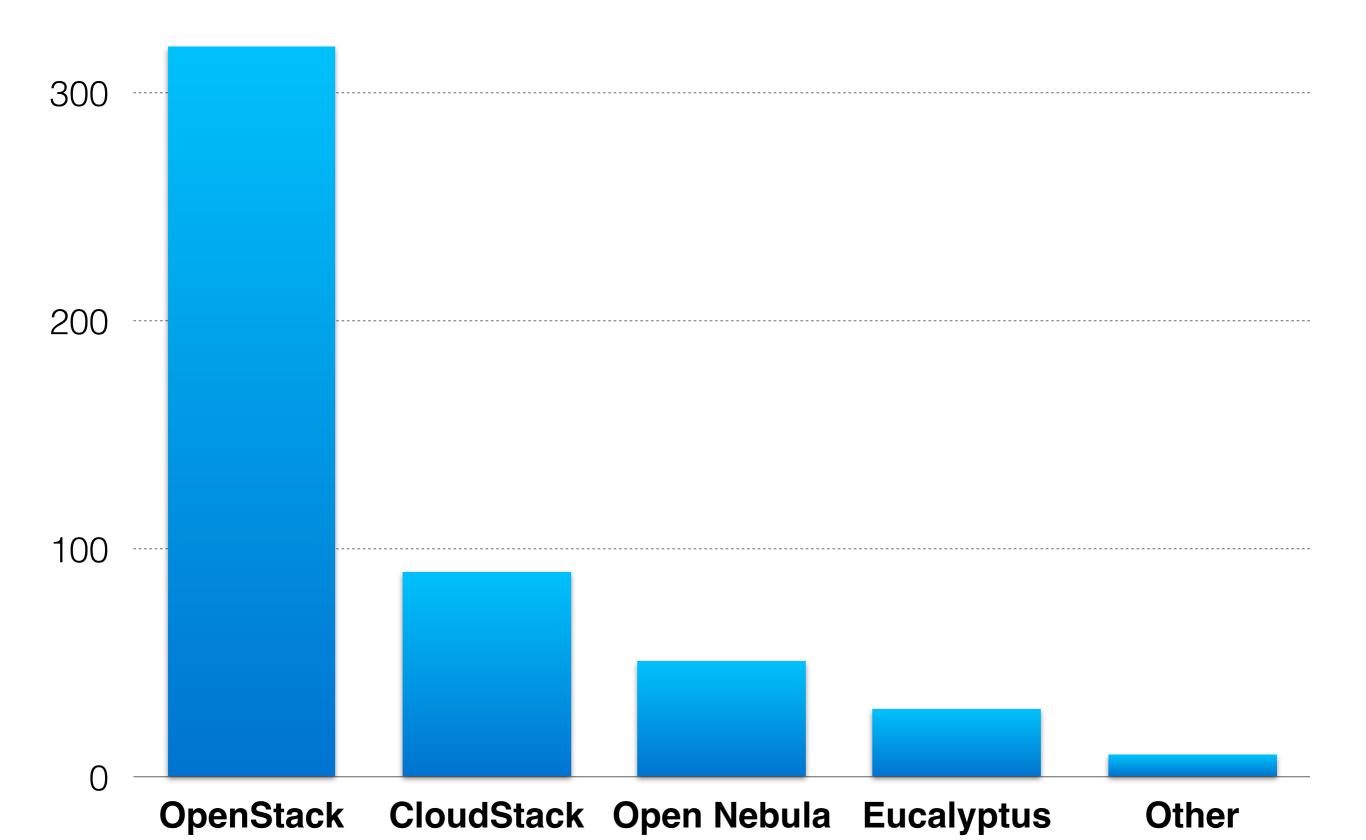






2009-01 2010-07 2011-01 2009-07 2010-01 2011-07 2012-07 2013-01 2013-07 2014-01 2014-07 2015-01 2012-01 2009-04 2009-10 2010-04 2010-10 2011-04 2011-10 2012-04 2012-10 2013-04 2013-10 2014-03 2014-10 2015-03









META INFRASTRUCTURE

• Hypervisors, Containers

SOLUTIONS

- Hybrid Cloud
- PaaS
- Big Data
- OSS/BSS

- VMware Supports OpenStack
- Nebula is shutting down.
- Citrix joins OpenStack community



What is Enterprise Ready?

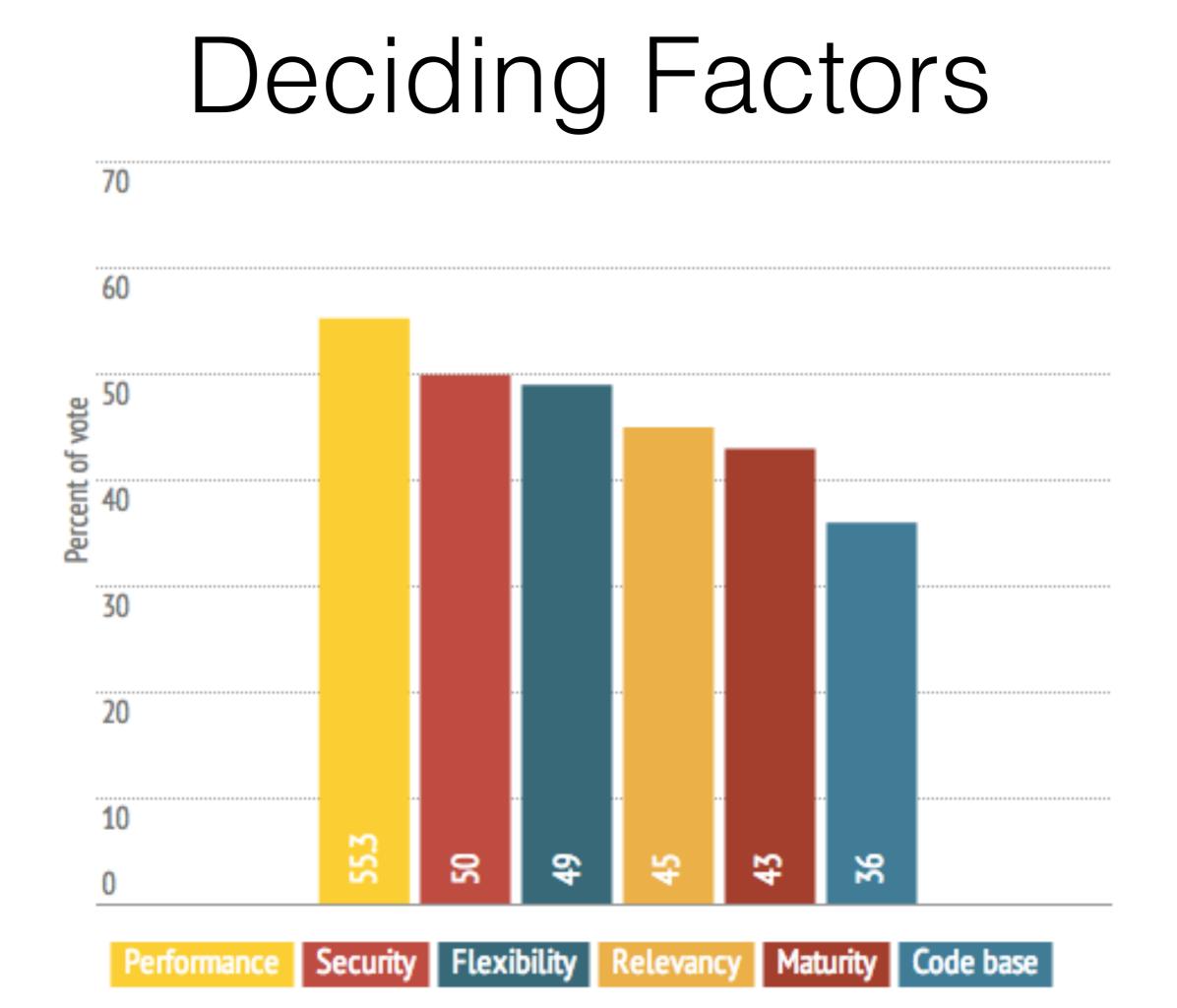
• Stability

Delivering consistent and reliable performance

- Scalability with Availability Easily scale as you grow, highly available on a continual basis
- Upgradability Easily and seamlessly upgrade

OpenStack 设计原则

- Scalability and elasticity are our main goals
- Any feature that limits our main goals must be optional
- Everything should be asynchronous
 - a) If you can't do something asynchronously, see #2
- All required components must be horizontally scalable
- Always use shared nothing architecture (SN) or sharding
 - a) If you can't Share nothing/shard, see #2
- Distribute everything
 - a) Especially logic. Move logic to where state naturally exists.
- Accept eventual consistency and use it where it is appropriate.
- Test everything.
 - a) We require tests with submitted code. (We will help you if you need it)



What do you like about OpenStack?



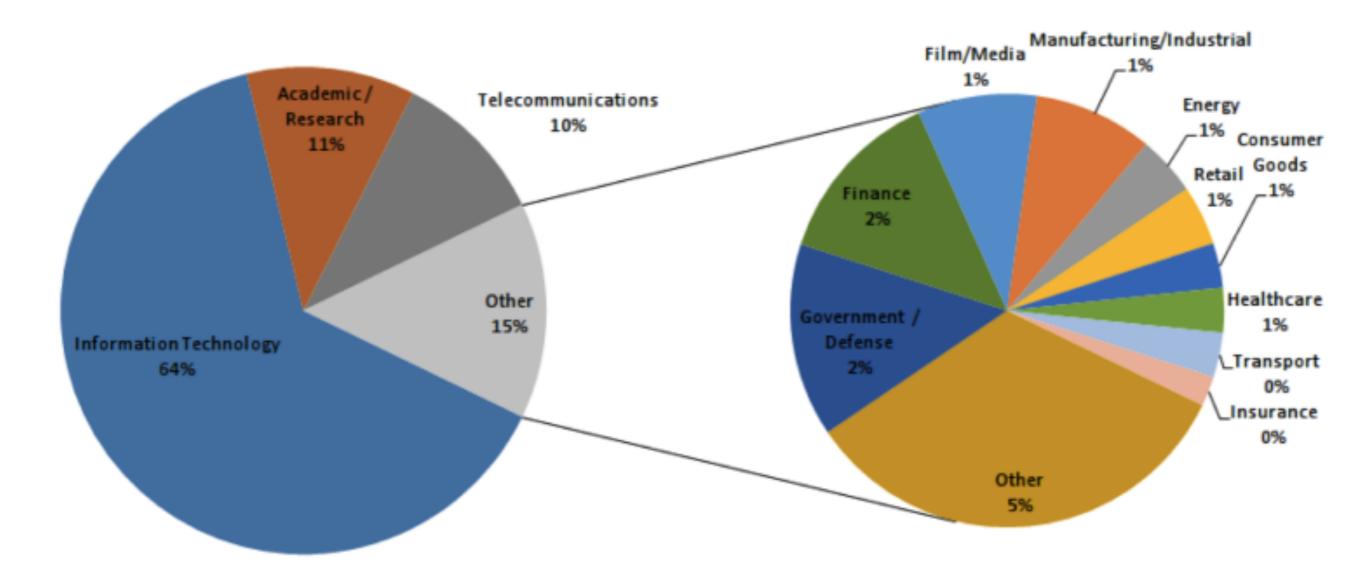
Save money Reduce infrastructure costs CAPEX <-> OPEX flexibility

• Make money

Reduce time to market Enable new initiatives Achieve bigger scale plans

OpenStack in industries

Industries



Users continue to drive roadmap

A few speaking in Vancouver



Superuser Award finalist

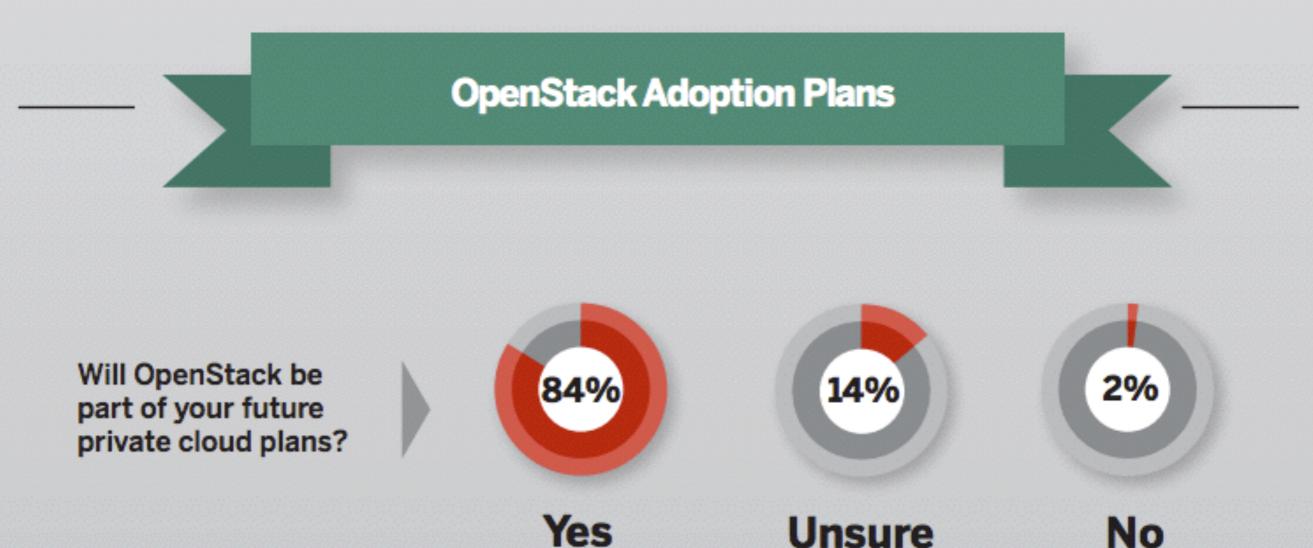


100,000 cores

500%

PBs of storage

Where Are You in Private Cloud Development? Top challenges faced in private cloud **Current implementations** internal development Resource Application Both internally developed management (%) 53% migration (%) and purchased from vendor 25% Internally developed 21% Purchased from a vendor 18 18 1% No private cloud Simplify IT Application management (%) management (%)

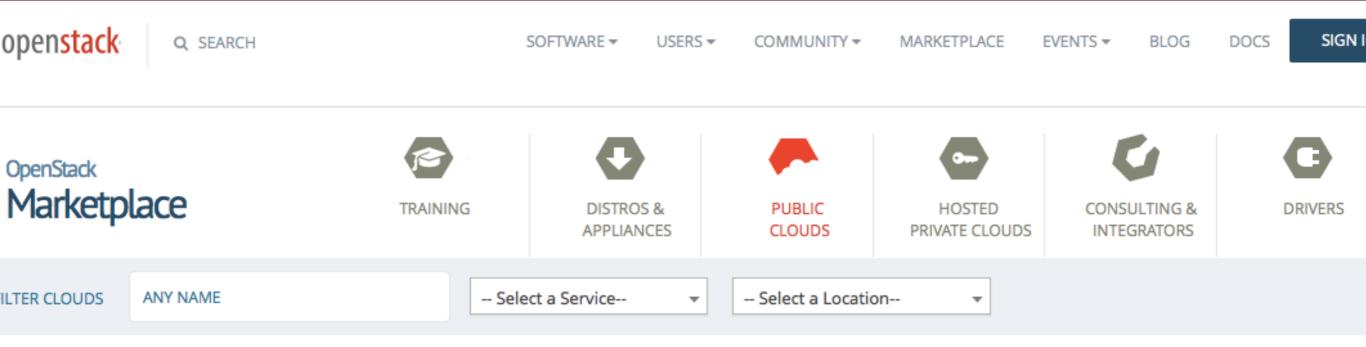


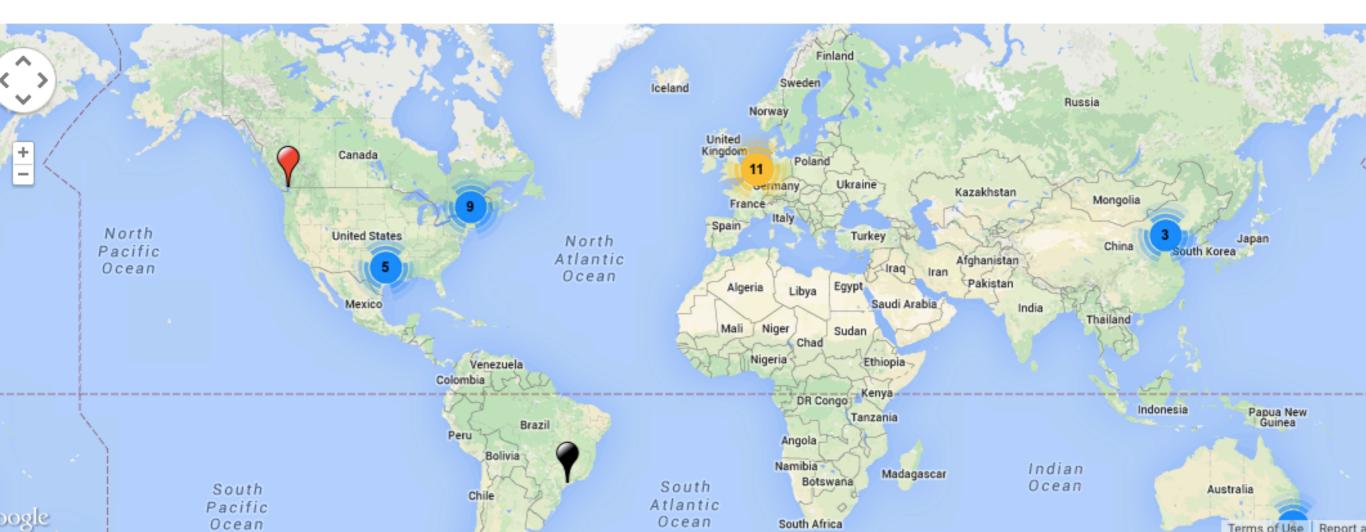
WILL YOU?

OpenStack is not a Product

Yet enterprise may want an OpenStack based Cloud

Commercial Product Marketing Programs





"OpenStack Powered" Program

- OpenStack Board DefCore committee has spent the last 18 months defining core set of services for interoperability and consistency in the market
- This process has resulted in new policy for "OpenStack Powered" technical requirements, which we are introducing this week
- Major changes include:
 - New Compute, Object Storage & Platform programs with different trademark uses
 - New must-pass API tests and designated sections of code openstack.org/interop

New OpenStack Powered Programs

Program Name	Required Code	Trademark Use	Product Examples
OpenStack Powered Platform	Must include all designated sections and pass all capabilities tests	Qualifying products may use the OpenStack Powered logo and use the word "OpenStack" in their product name	Public cloud, hosted private cloud or distribution
OpenStack Powered Compute	Must include all compute-specific code and pass all compute- specific capabilities tests	Qualifying products may use the OpenStack Powered logo and use the phrase "OpenStack Powered Compute" in their product name	Compute cloud or appliance
OpenStack Powered Object Storage	Must include all object storage-specific code and pass all object storage-specific capabilities tests	Qualifying products may use the OpenStack Powered logo and use the phrase "OpenStack Powered Storage" in their product name	Object storage cloud or distribution



代码贡献

Icehouse

Juno

企业	名次	Reviews
Huawei	15	1104
UnitedStack	21	598
EasyStack	33	108
Netease	60	38
Kylin Cloud	63	33
99cloud	75	13
Awcloud	#	#

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EasyStack	41	132
99cloud	53	69
Awcloud	66	65
Netease	71	29
Kylin Cloud	93	9

Code Contribute in Kilo

13	Huawei	2681
21	99Cloud	944
44	Awcloud	287
56	Kylin Cloud	128
62	UnitedStack	87
69	Easystack	54
102	Netease	13

Activities Statistics

- 54 meetups in 2014 (不完全统计)
- 北京780+, 上海500+, 西安250+, 杭州 200+
- #寻找SuperUser活动#
 天河2号进入Award Finalist

Future Plans

- OpenStack Day
- Hackathon
- Design Summit



国内用户

What's next for OpenStack?

Make OpenStack the most attractive platform for applications with a consistent and interoperable experience across clouds and a thriving ecosystem of tools.

See you at the next Summit



