Ubuntu & the Cloud

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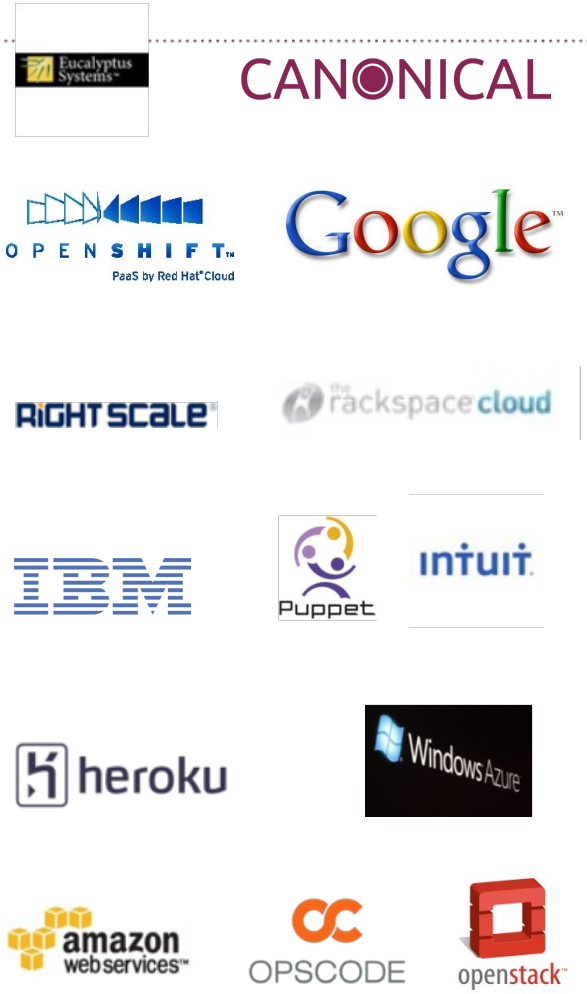
Open Source & The Cloud

What is the Cloud?

The Landscape

- IaaS - Amazon EC2, Rackspace Cloud
- PaaS - Force.com, CloudFoundry, OpenShift, Heroku
- SaaS: SalesForce, Zoho, Google Apps, Zendesk



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Google

RIGHTSCALE

the rackspace cloud

IBM

Puppet

intuit.

heroku

Windows Azure

amazon web services

OPSCODE

openstack

The Model: a Mapping

- IaaS: Servers & Storage
- PaaS: Middleware
- SaaS: Applications

Why Cloud?

Elastic

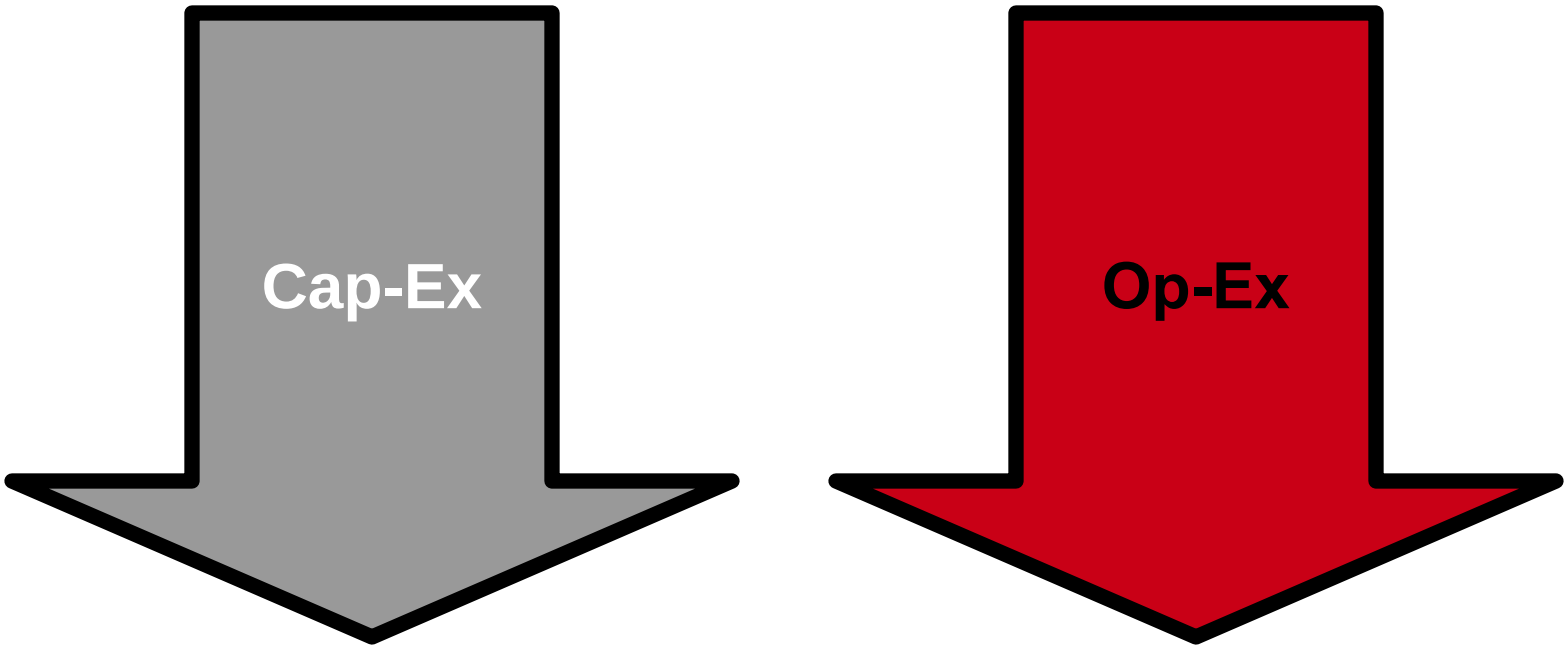
Multi-tenancy

Pay As You Go

Pace of Innovation

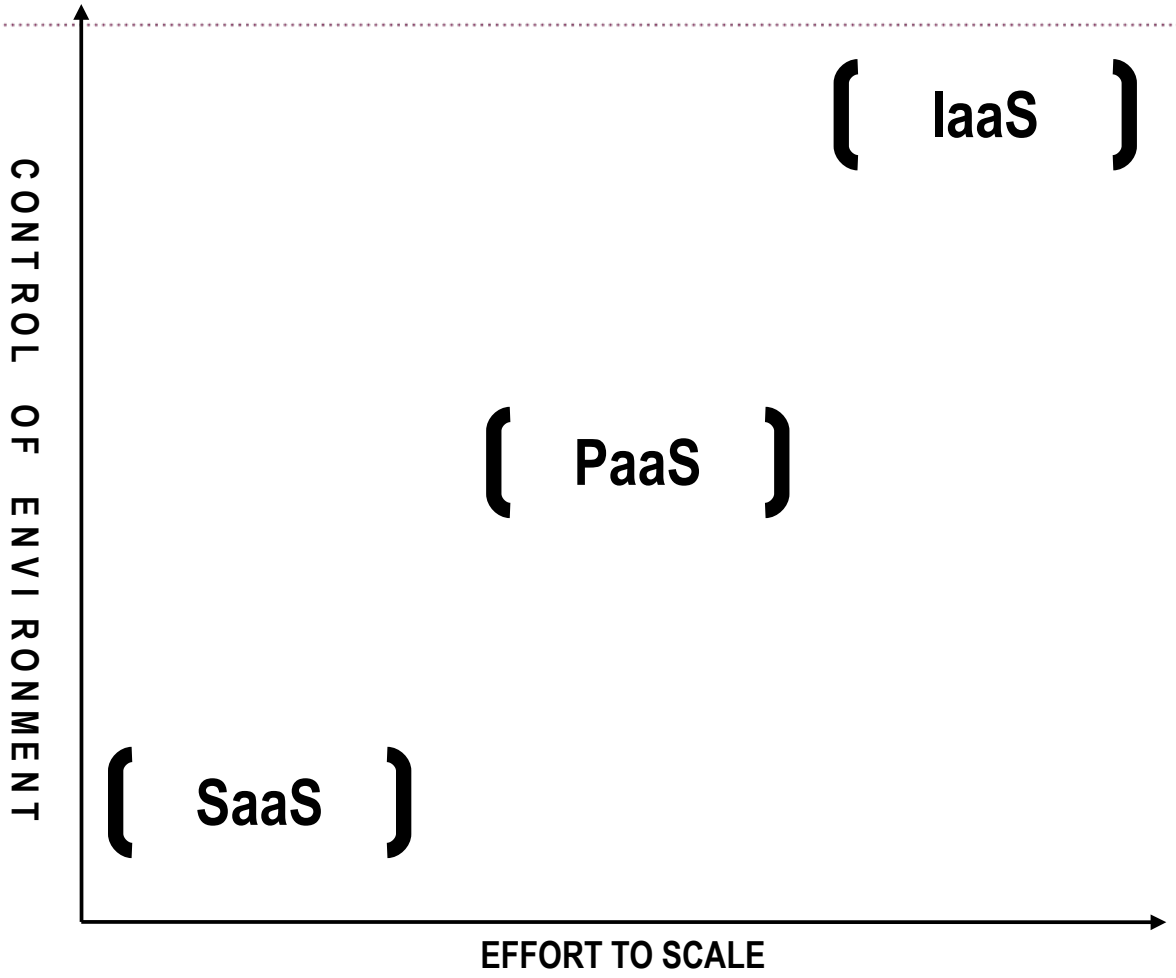
Speed of Provisioning

An Opportunity



	Cloud	Traditional
Accessibility	Minutes	Days
Capex	Pay As You Go	Fixed, Upfront Cost
Economies of Scale	Yes	No
Geography	Distributed	Local/Offsite
Multi-tenant	Yes	No
Scalability	Elastic	Manual
Virtualized	Yes	Both

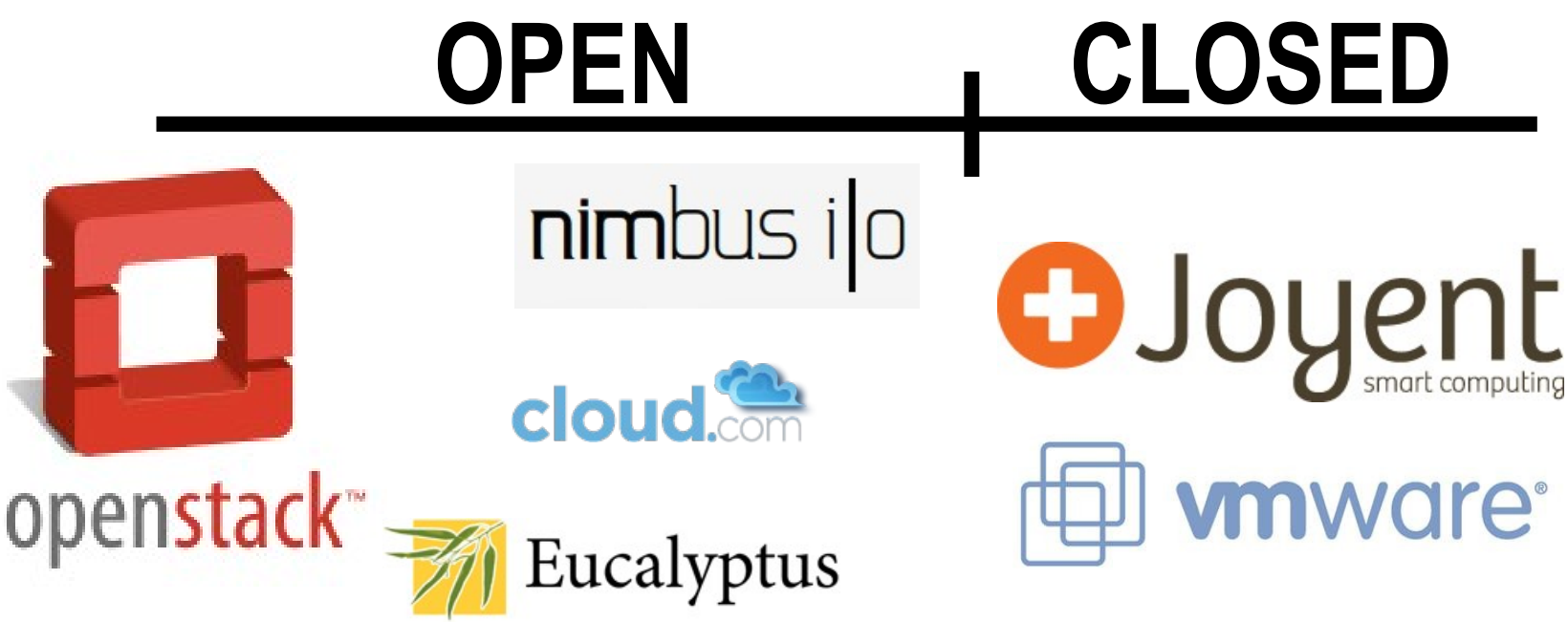
But…


IaaS
PaaS
SaaS
CONTROL OF ENVIRONMENT
EFFORT TO SCALE

TM

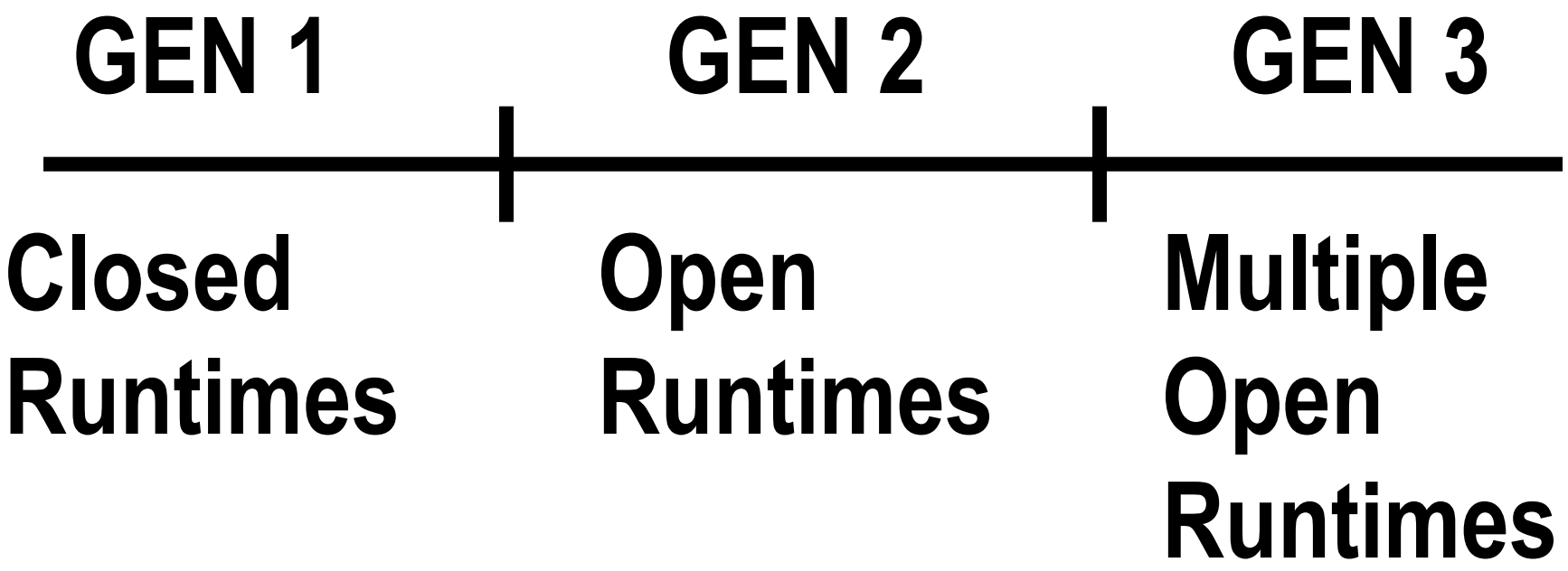
open source

Hosted IAAS Options



PAAS Generations

The Future is Open



Hybrid cloud is the goal:

Move workloads between your private cloud and major public cloud infrastructures

Friction-free deployment

Provisioning and deployment friction destroy your agility and efficiency

Power density is critical:

ARM processors coming to the data centre

OpenStack – the Open Cloud

Openstack Compute (- Nova)

- Delivers instances and disk space on demand to run Ubuntu Cloud Guest or most other Operating Systems.
- Logical equivalent to AWS EC2

Openstack Image Service (- Glance)

- Delivers machines images locally and remotely
- Ubuntu Cloud Guest enabled
- Logical equivalent of AWS AMI Server

Openstack Object Storage (- Swift)

- Delivers Peta-scale object storage capabilities with redundancy built-in.
- Logical equivalent to AWS S3

OpenStack – the Open Cloud

Ubuntu + OpenStack (12.04 LTS)

Thank you.

Questions?

https://pages.ubuntu.com/ubuntu-cloud-jumpstart

www.ubuntu.com/business/cloud/overview

juju.ubuntu.com

@ubuntucloud on Twitter

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