CANONICAL

Ubuntu Enterprise Cloud

Canonical

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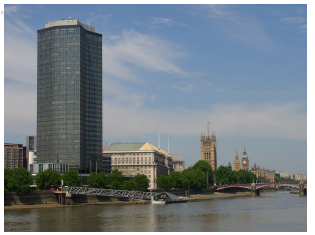

- Who we are
  - the company behind Ubuntu
  - in 28 countries
- What we do
  - Ubuntu Server & Desktop and IaaS CLOUD
- We provide Ubuntu Advantage:
  - Professional services
  - Landscape system management
  - Training

Ubuntu Enterprise Cloud

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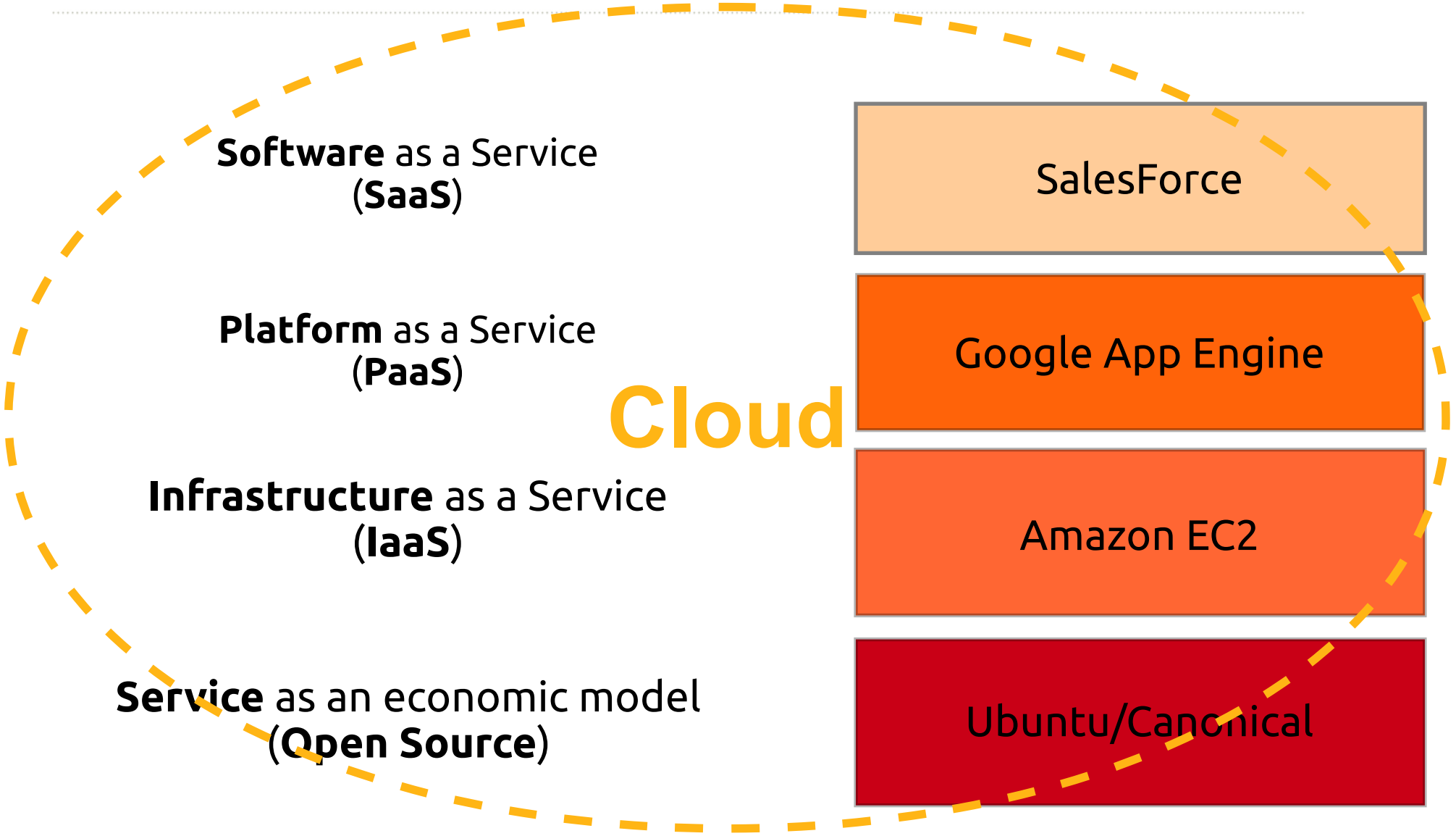
Cloud Computing



Ubuntu AMI – The #1 Public Cloud OS

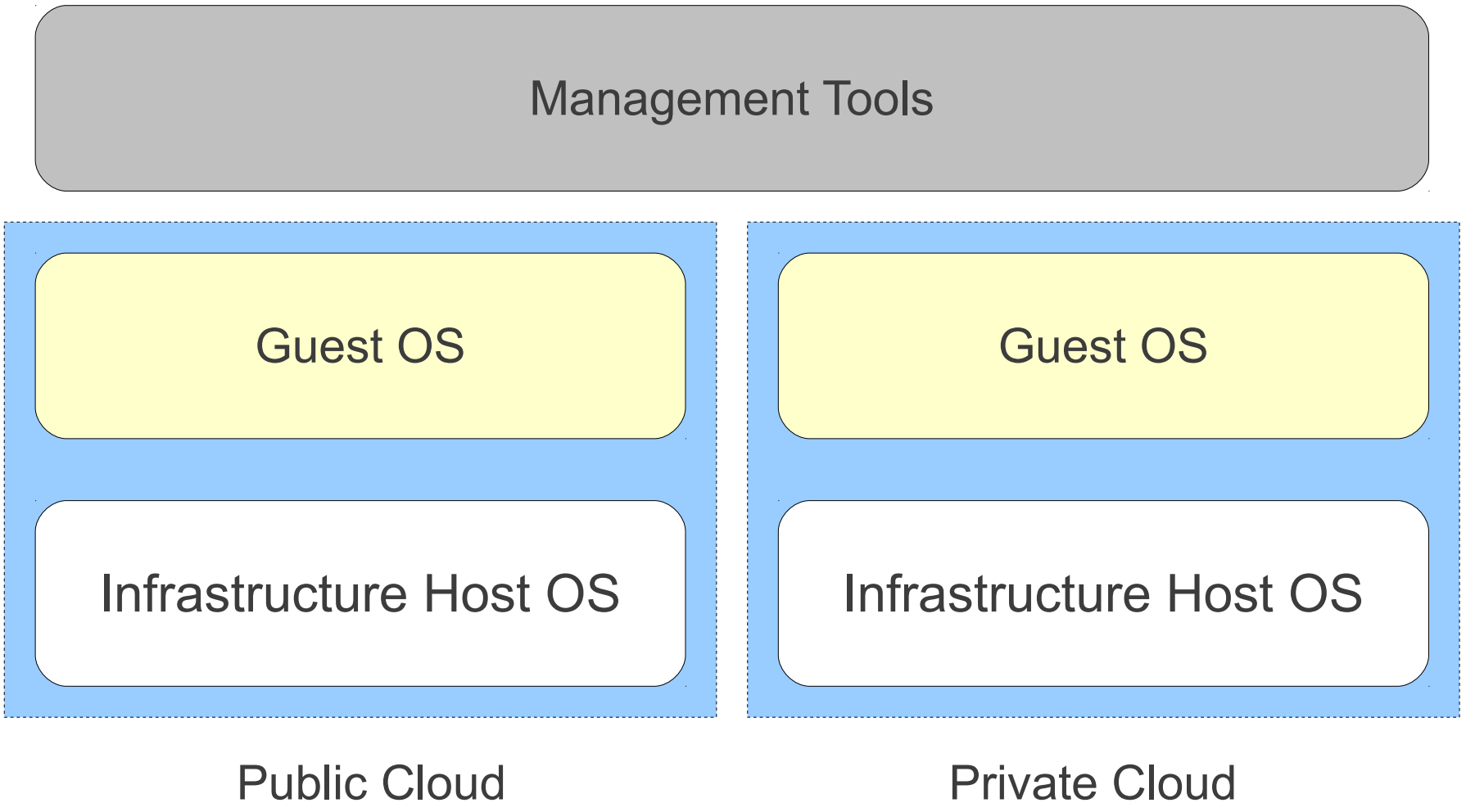
- Images available since 2007
- Believed to be the most widely deployed OS

- Images available since 2008
- Confirmed as most widely deployed OS

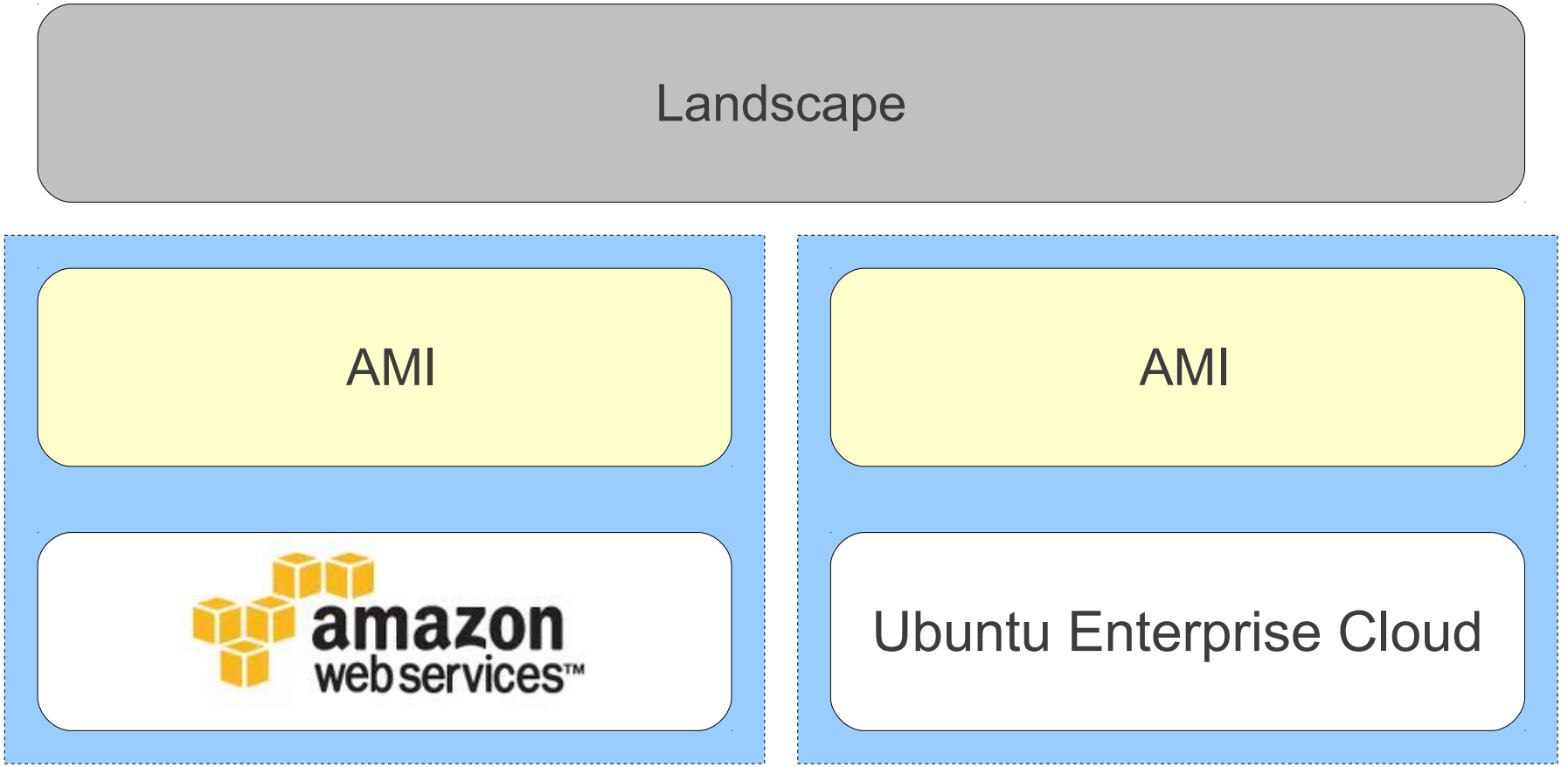
Strategy

- IaaS
  - Focus on infrastructure layer
- Bring the Ubuntu experience
  - Make it as easy as possible for Enterprises to try out cloud computing
- Standards
  - Support current dominant *de-facto* cloud standards
- Open and Lock-In Free
  - Ensure the cloud is based on open-source and lock-in free

Product Overview



Product Overview



Ubuntu Enterprise Cloud

Five Characteristics:

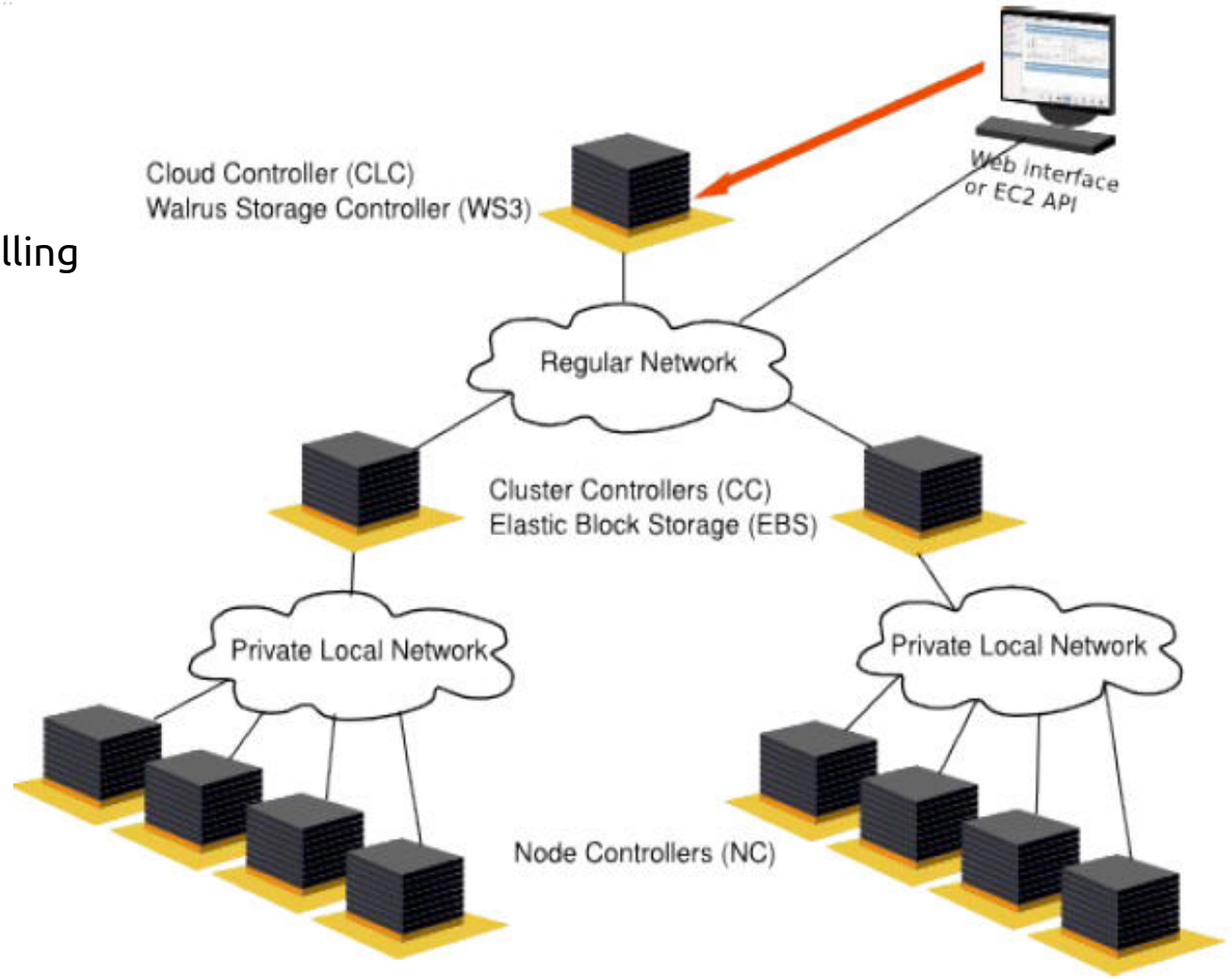
- On Demand Service
- Ubiquitous Network Access
- Location Independent Resource Polling
- Rapid Elasticity
- Measured Service

Delivery Models

- Software as a Service (**SaaS**)
- Platform as a Service (**PaaS**)
- Infrastructure as a Service (**IaaS**)

Deployment Models

- Private Cloud
- Public Cloud
- Hybrid Cloud



Rich Interface

Example commands delivered by the euca2ools package:

```
euca-add-group                  euca-delete-snapshot            euca-disassociate-address
euca-add-keypair                euca-delete-volume              euca-download-bundle
euca-allocate-address           euca-deregister                 euca-get-console-output
euca-associate-address          euca-describe-addresses         euca-modify-image-attribute
euca-attach-volume              euca-describe-availability-zones euca-reboot-instances
euca-authorize                  euca-describe-groups            euca-register
euca-bundle-image               euca-describe-image-attribute   euca-release-address
euca-bundle-vol                 euca-describe-images            euca-reset-image-attribute
euca-confirm-product-instance   euca-describe-instances         euca-revoke
euca-create-snapshot            euca-describe-keypairs          euca-run-instances
euca-create-volume              euca-describe-regions           euca-terminate-instances
euca-delete-bundle              euca-describe-snapshots         euca-unbundle
euca-delete-group               euca-describe-volumes           euca-upload-bundle
euca-delete-keypair             euca-detach-volume              euca-version
```

CLOUD MANAGEMENT

Here you can: Register EC2 or UEC clouds, Manage access to and use of cloud resource and monitor usage.

Private clouds

- Design team
- Corporate services

Pubic clouds

- Amazon Europe
- Amazon US – N. California

Add public coud

LONDON CLOUD

USAGE SETTINGS

85% Total cloud capacity being used across all groups.

269 Running instances

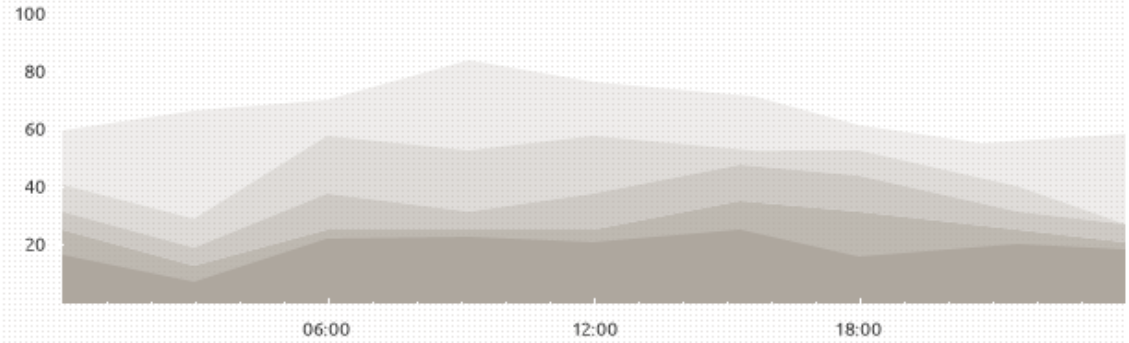
Resource groups

	Instances
Information infrastructure	101
Corporate services	90
Design team	39
Marketing	29
Other users (12)	10

Add additional users

Cloud usage by

Last day | All resource groups



DESIGN TEAM

USAGE INSTANCES ELASTIC IP KEY PAIRS ACCESS GROUPS EBS VOLUMES SETTINGS

20% Total cloud capacity being used by this group

39 Running instances

20 Number of instances each user can start in this group

Users

	Instances
Michael Forrest	5
Christian Giordano	3
Alejandra Obregon	4
Richard Lee	3

Cloud usage by

Last day | All users

Cloud computing use cases

- Testing/Development
- Education/Training
- Web Services deployment and scaling
- Quickly create and tear-down IT environments
- Hybrid clouds
  - Capacity scaling
  - Disaster recovery
  - Back up

Developer Shop

- Developing software that sits on top of complex infrastructures
- Developers need to test code against the entire infrastructure
- It is inconceivable to give each developer a separate infrastructure for testing, limiting edge effects
- With UEC, a developer can spin their own infrastructure to test their code

Future Trends – Ubuntu Roadmap

Easy Hyperscale	Focus on integrating tools, software and technologies which make it easy for DevOps to deploy workloads rapidly and without fuss.
The 1st Cloud LAMP Stack - BigData	Use of Hadoop, Cassandra, Memcached is helping IaaS proposition for the Enterprise

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Thank you!

http://www.ubuntu.com/cloud
http://cloud.ubuntu.com ← blog aggregator

Twitter @ubuntucloud

Cloud Computing vs Virtualization

- Self-service provisioning
- Virtual overlay network
- Security groups
- Elastic IPs
- Scalable, hierarchical storage semantics
- Multi-cloud interface compatibility
- Transactional nature of the APIs
- Flexible image management
- User and group management
- Accounting, quota, and auditing capabilities
- Instance self awareness of the infrastructure environment