

Eucalyptus Overview

The most widely deployed on-premise cloud computing platform

EUCALYPTUS

Vision	We bring the power of cloud to your business
Value Proposition	The world's most widely deployed on-premise Infrastructure as a Service cloud software platform
Solution Highlights	<ul style="list-style-type: none">• Open source developed and enterprise implemented (HA)• Compatible with industry leading AWS API• Hybrid and private clouds on heterogeneous infrastructure• Professional services – expert cloud training & consulting
Ecosystem	<ul style="list-style-type: none">• 25,000 cloud starts annually• Over 200 partners• Compatible with AWS compatible tools and images
Background	<ul style="list-style-type: none">• Started in 2007 as an NSF-funded research project at UC Santa Barbara, incorporated in Jan 2009• Operations in USA, UK, Germany, India, & China



Recent News

- April 18: Eucalyptus Announces \$30M Series C Funding
- April 6: CETC32 and Eucalyptus Sign Strategic Partnership to Accelerate Cloud Computing Adoption in China
- March 22: Amazon Web Services (AWS) and Eucalyptus Partner to Bring Additional Compatibility Between AWS and On-premises IT Environments
- February 29: Wipro Establishes Strategic Partnership with Eucalyptus



Customers / Trials



Bank of America



Deutsche Bank



SBERBANK

By your side

Bloomberg

Nokia Siemens Networks



SONY



ECHOSTAR
Entertainment-Anytime. Anywhere.

FedEx

SYNOPSYS



Financial Sector /
Large Enterprise

Raytheon

HARRIS



Booz | Allen | Hamilton

AEROSPACE



Federal / Government



ACTIVISION

Plinga



workday

ancestry.com

YAHOO!

Overstock.com



Buy.com



Web 2.0 / Web Services



Testimonials



“We needed dynamic content management and Infrastructure as a Service. Eucalyptus was the answer.”—Jay Basnight, Senior Digital Marketing Manager, PUMA



“We have been extremely impressed with Eucalyptus' reliability and scalability as well as the dedicated, expert service from the Eucalyptus support team. With Eucalyptus, we anticipate that we will see an immediate return on investment without losing any of the public cloud benefits.”—Thorsten Lubinski, CTO, Plinga



“Our NRCS planners will be able to leverage these cloud computing services to aid farmers and ranchers in their support of a healthy environment, and enable productive use of their land.”—Ken Rojas, senior project manager for the USDA



Broad, Global Partner Ecosystem



Cloud App
Development



Data Center
Automation



System
Integrators



Cloud
Management



Cloud Data
Center



Platform and Infrastructure

Use cases

1. Bursty workloads: web and mobile applications
2. Transient apps: dev & test environments
3. Big data: analytics and computations

and: hybrid clouds, rich media encoding/decoding, complex and large-scale data processing, training & e-learning, storage-as-a-service, remote desktop hosting, public cloud, carrier-grade cloud



Customer Need for Cloud

Agility is key...

Flexibility



Automation



Speed



Trust



Self-Service
Resource
Configuration

Self-Service
Resource
Provisioning

Dynamic
Resource
Management

Resource
Chargeback
and
Reporting

Infrastructure as a Service (IaaS)

Eucalyptus Solution

An enterprise open source,
Infrastructure-as-a-Service (IaaS)
software platform

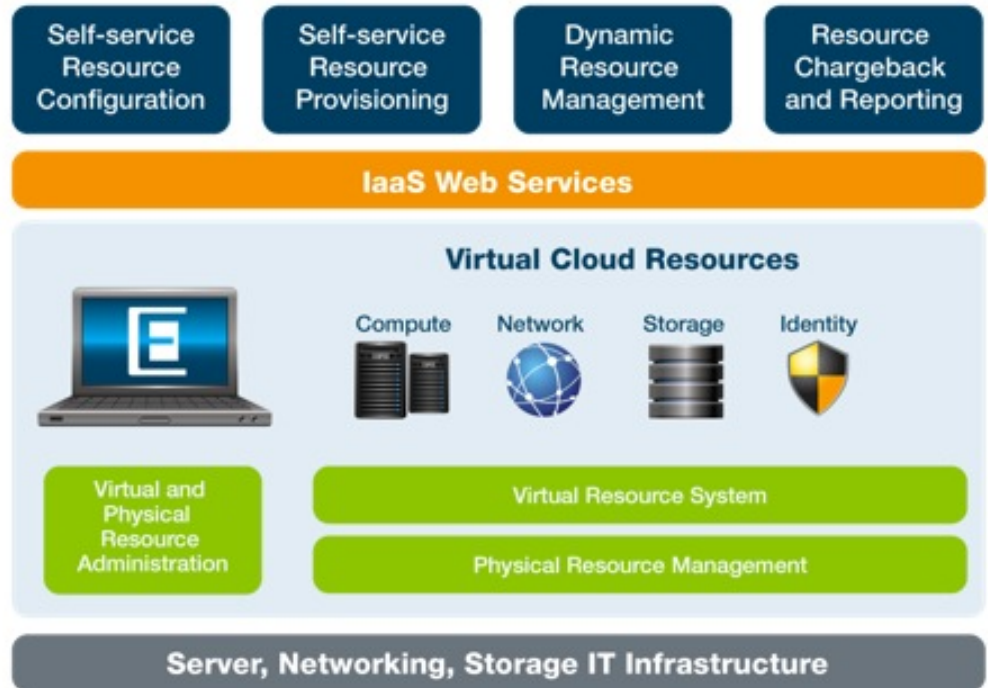
Web services API to enable Self-serviceable
infrastructure

Compute, network, storage and identity resources are
accessible as services

Virtual resource management orchestrates resource
placement, handles security & traffic isolation,
identity and storage

Physical resource management tools interface with
hypervisor, storage, and network infrastructure

On-premise and Hybrid Cloud Infrastructure as a Service



Eucalyptus 3

- High-availability (HA) of the Eucalyptus Service
 - Hot fail-over and repair for all components except NC
- AWS Identity and Access Management (IAM) API plus extensions for private clouds
 - Quotas and metering
- Eucalyptus Block Storage improvements
 - Capability to boot instances from Block Storage
 - NetApp and JBODs SAN drivers
- Full support for Windows images
 - Seven different versions, AWS compatible authentication, sysprep, ephemeral disk
- Accounting/Usage reporting
 - Charge-back interface linked to quotas



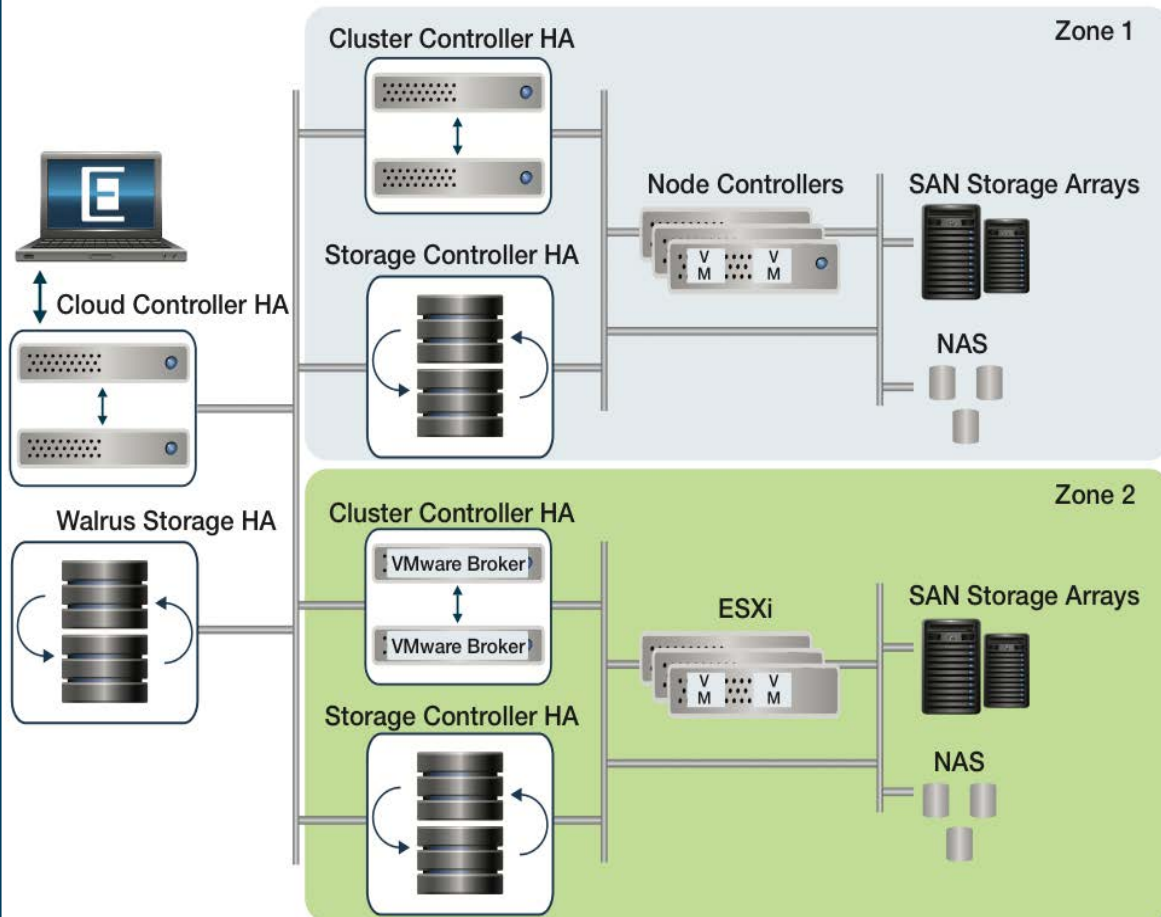
Eucalyptus 3 - Platform Improvements

- Revamped image caching in the Node Controller
 - Faster instance starts using copy-on-write
- Re-factored VMware broker
 - Faster and more robust image preparation
 - Support for vSphere 4.X
 - Improved scale, more extensive deployment topologies
- Extended Linux distro support
 - RHEL 5 and RHEL 6, packages for Canonical LTS (Ubuntu 10.04)
- Re-designed administrative webUI
- Improved command-line admin tools
- Re-designed packaging, upgrade and dependency management
- Re-designed installation mechanism (package repositories)

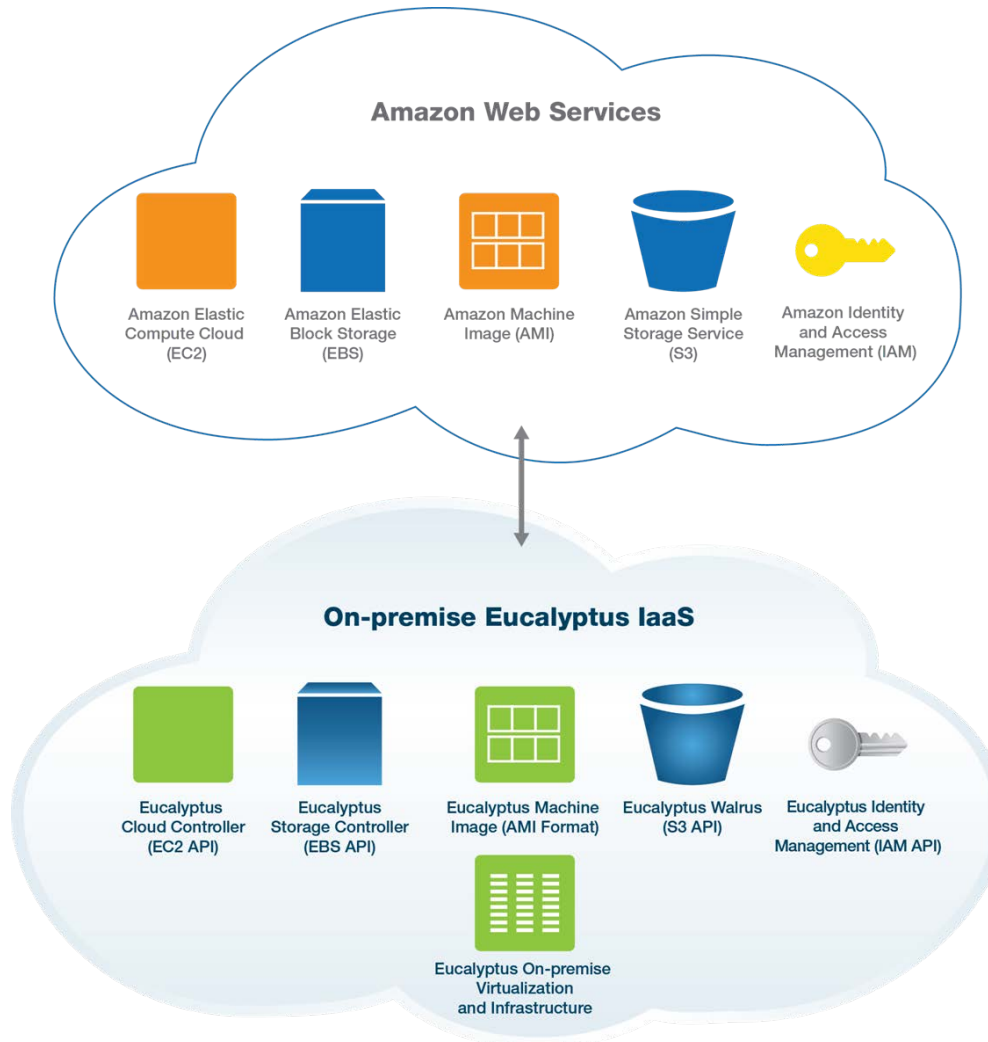


High Availability IaaS

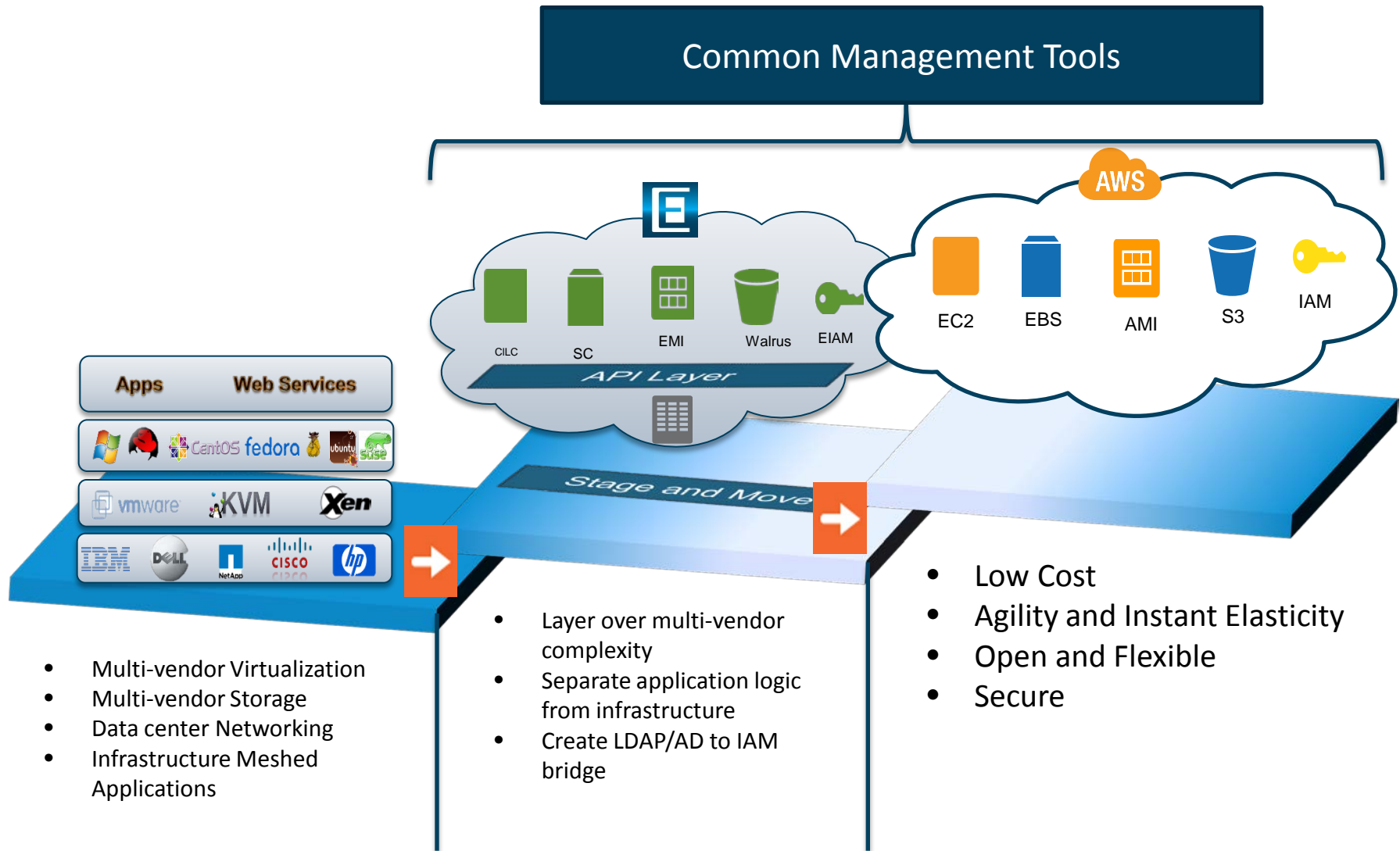
- Prevent single point of failure from disrupting Eucalyptus service
- Detection of service failure(s) with cloud administrator notification
- Automated Eucalyptus service component failure recovery
- No changes required to support applications



AWS – Eucalyptus Partnership



Workload Migration between On-Premise IT and AWS



Community Projects

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Eucalyptus Projects

Search

Projects

[View all issues](#) | [Overall spent time](#) | [Overall activity](#)

Community Events Project

The goal of the Events Project is to send Eucalyptians to cloud events worldwide to share the good word about Eucalyptus.

Weekly meeting on [irc.freenode.net](#), #eucalyptus-meeting, 2pm Pacific US time.

Read more about the [Events Project...](#)

Community Infrastructure Project

This is where we handle all community infrastructure issues.

MEETINGS: Wednesdays, 2:00 Pacific US Time, [irc.freenode.net](#), #eucalyptus-meeting

MAILING LIST: <http://lists.eucalyptus.com/cgi-bin/mailman/listinfo/community>

If you'd like to join this group, please send email to greg.dekoenigsberg@eucalyptus.com....

Google Summer of Code 2012

This project is for coordination of Eucalyptus's participation in Google Summer of Code 2012.

Melding of Individual Talent and Corporate Culture

DESCRIPTION To provide a forum to discuss the melding of individual talent into productive teams to build a successful and sustainable corporate culture.

MISSION To become a hub for all information, discussion and ideas regarding the development of individual talent into successful teams to make the organization grow and prosper. This project will discuss matters such as: ...

Pigeons on a Euca

This application runs a script that periodically "tweets" the status of the cloud for sys.admins to follow on their mobile devices.

Projects for Cloud Administrator

A Cloud Administrator is responsible for the implementation, monitoring and maintenance of the cloud within the organization. Typically this role also involves the implementation of service level agreements (SLA) for permissions, access, quotas, etc. as required by an organization's policies. The Cloud Administrator works directly with System, Network and Cloud Storage Administrators....



Eucalyptus Education Services

Eucalyptus Professional Services provides industry-leading technical training and certification programs that build and recognize knowledge and expertise for the Eucalyptus cloud computing platform.



Eucalyptus offers a comprehensive, professional training curriculum that includes training for:

- **Cloud Administrators**
- **Cloud Operators**
- **End users**

Training Courses are available in a variety of delivery options including:

- **On-site**
- **Live online**
- **Self-paced eLearning**

Eucalyptus Consulting Services



Eucalyptus Professional Services provides Consulting Services to enable IT organizations to successfully plan, design, implement, and operate Eucalyptus-powered clouds. Eucalyptus Consultants are experienced IT Professionals with deep expertise on Eucalyptus architecture, deployment, and operations.

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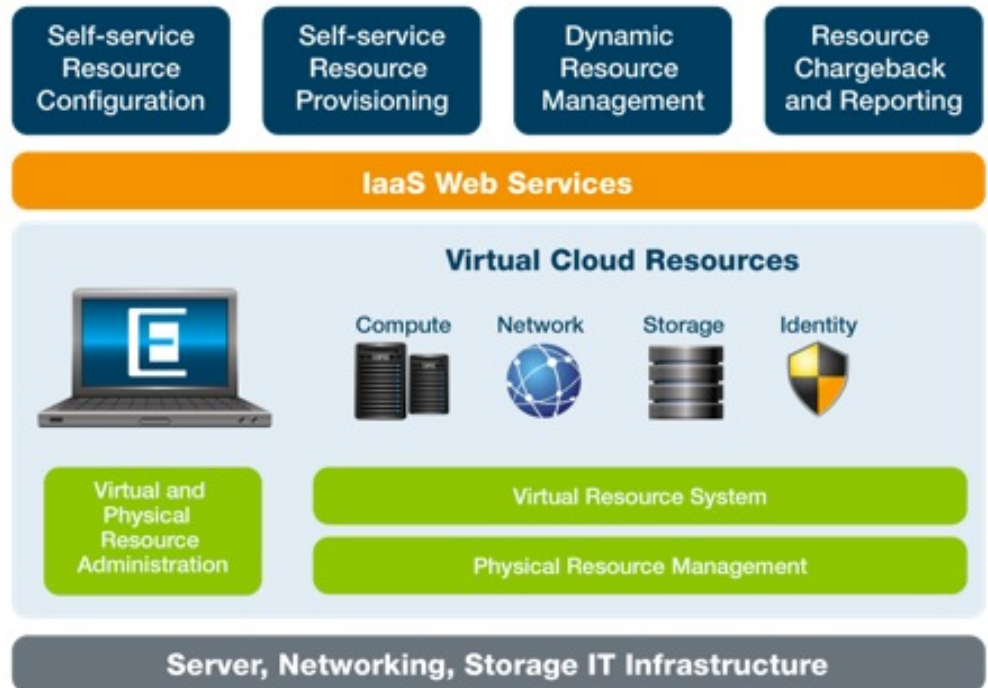
AWS

Cloud on their hardware

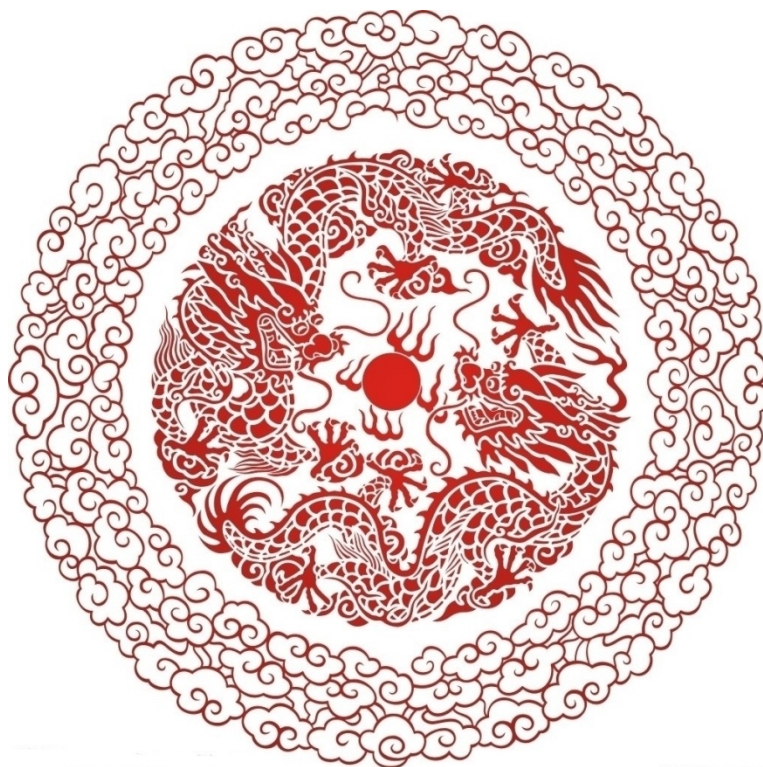
Eucalyptus

Cloud on your hardware

On-premise and Hybrid Cloud Infrastructure as a Service



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