

Nepelae Cloud Infrastructure

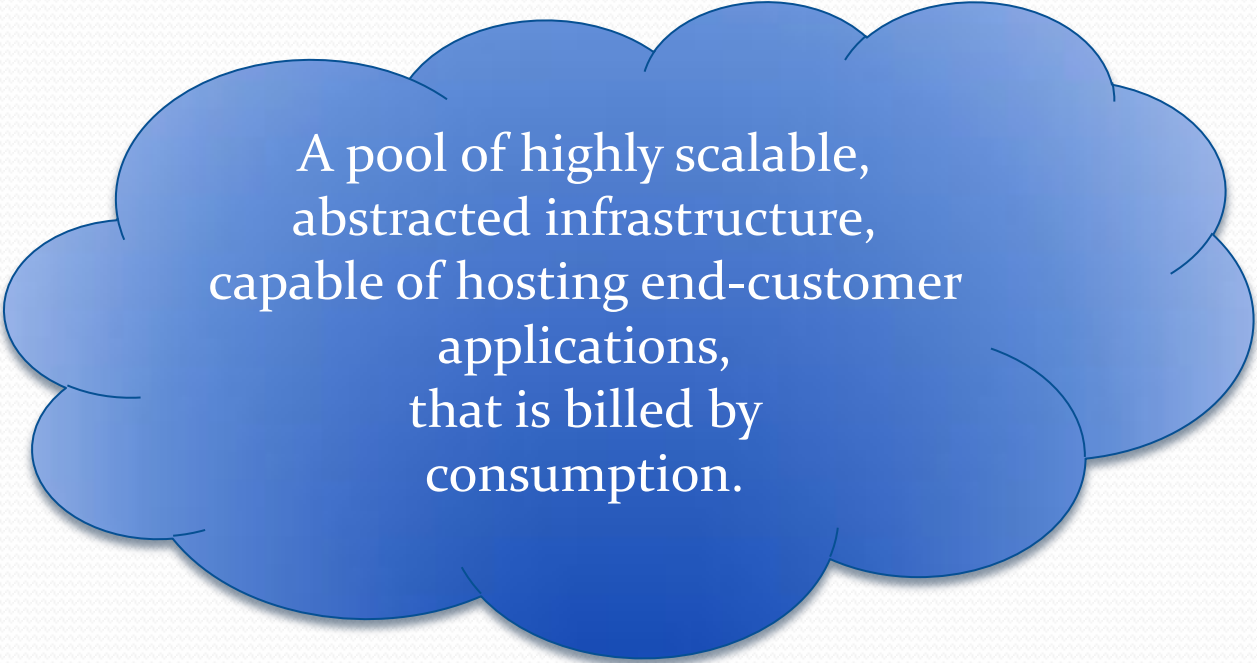
Andreas Papadopoulos
Nepelae Administrator
andpapad@cs.ucy.ac.cy



Laboratory for Internet Computing
Department of Computer Science
University of Cyprus

<http://linc.ucy.ac.cy>

Cloud Computing in Simple Terms



A pool of highly scalable, abstracted infrastructure, capable of hosting end-customer applications, that is billed by consumption.

Nephelae's Configuration

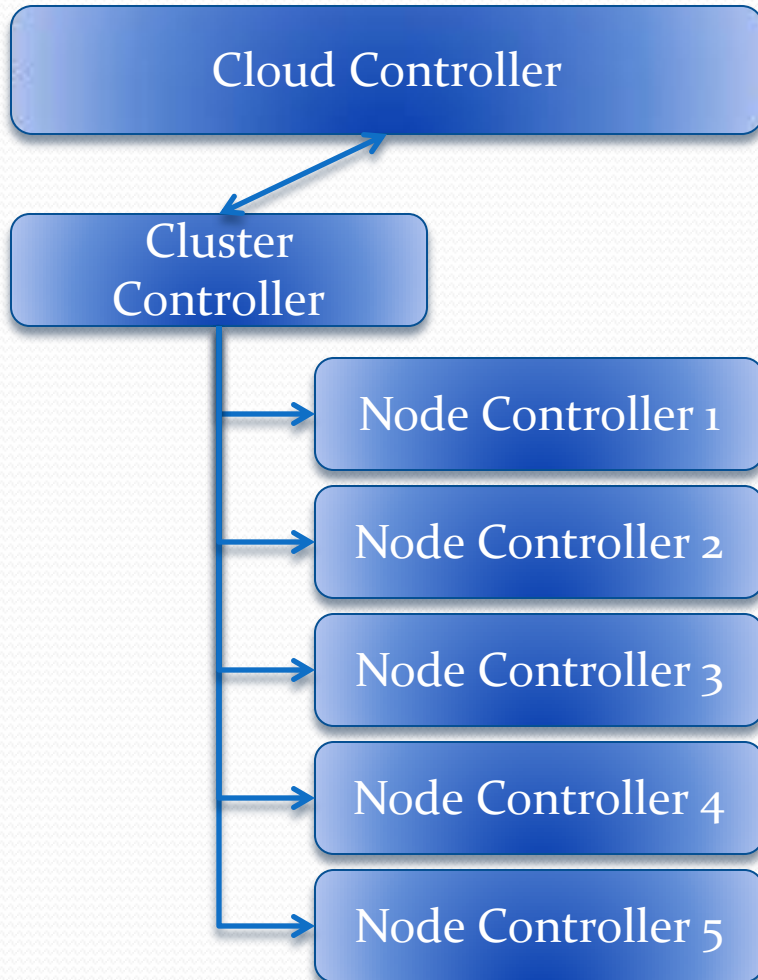
- Nephelae runs
Ubuntu Enterprise Cloud



- Ubuntu Server 11.10
- Open source eucalyptus 2.0.2
 - KVM

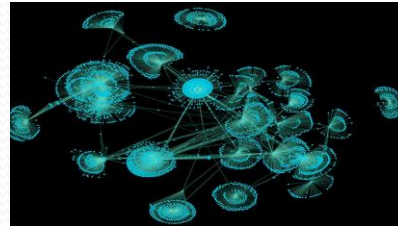


Nepheleae Architecture

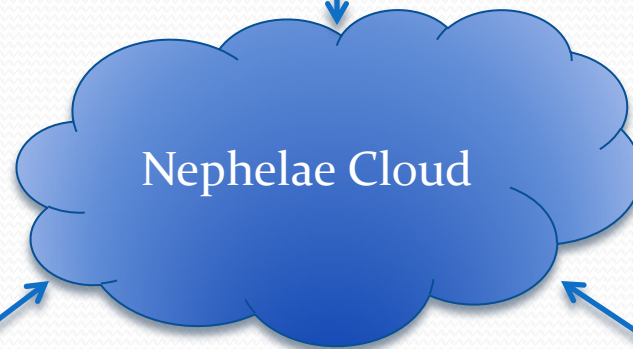


	CPU Model	CPU's	Cores /CPU	RAM (GB)	Storage Capacity (TB)
Cloud Controller - Walrus	E5620@2.40Ghz	2	8	74	1.6
Cluster and Storage Controller	E5620@2.40Ghz	2	8	74	1.6
Node Controller 1	E5620@2.40Ghz	2	8	60	1.6
Node Controller 2	X5650@2.67Ghz	2	12	74	1.6
Node Controller 3	X5650@2.67Ghz	2	12	74	1.6
Node Controller 4	X5650@2.67Ghz	2	12	74	1.6
Node Controller 5	X5690@3.46Ghz	2	12	24	460GB

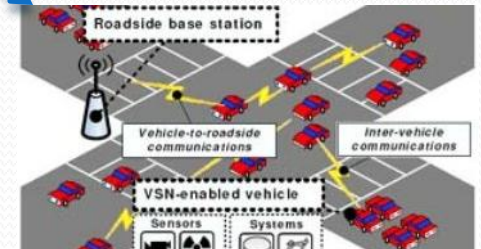
Nephelae Applications



Information
Network
Analysis



Vehicular Network
Simulation



Data Mining



Nephelae Cloud Infrastructure



QUESTIONS?

Nephelae Cloud Infrastructure

Thank you!



Laboratory for Internet Computing
Department of Computer Science
University of Cyprus

<http://linc.ucy.ac.cy>