# The Dao of OpenStack

Christopher MacGown Dark Lord and God Emperor



## The Dao of OpenStack ...I shouldn't be allowed to name things anymore.

Christopher MacGown Co-Founder and Chief Scientist at Piston Cloud









#### "...the most opinionated people in cloud..."

## Christopher MacGown March 2012





#### "Fuck!"

## Christopher MacGown March 2012





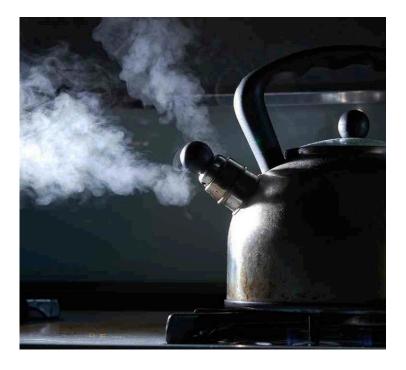


- The leading open source cloud framework
- Founded by NASA and Rackspace in 2010
- Global collaboration of companies
- Massively scalable compute, storage and networking



# 2 kinds of cloud











# The lessons are the same

- Create simple building blocks that are easy to scale
- Full Convergence
- Compute, storage, network, & management on every server
- No special puppies.

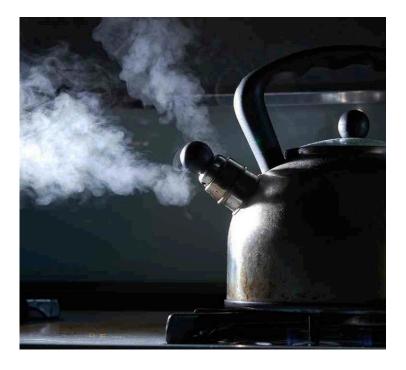






# 2 kinds of cloud







# There are no puppy clouds...





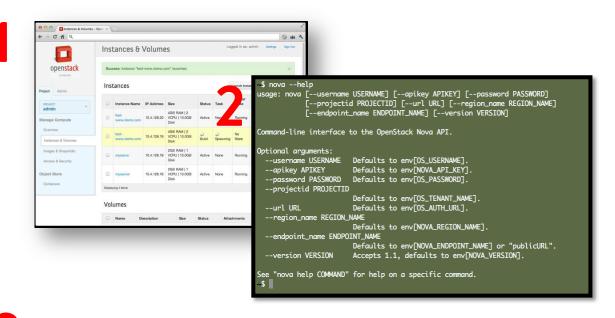
# Meanwhile, yesterday...

"OpenStack is really about shooting cows. Somebody is going to tweet that. You watch. Somebody will."

@hartsock quoting @jmkenty



## 3 interfaces

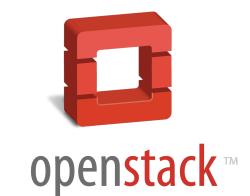


> curl http://mycloud/v2.0/glance/image007



# 4 resources

- Nova
- Cinder
- Swift
- Quantum + (Your SDN here)



• And sure, Glance and Keystone and Oslo – oh my!



# **5** actors with different desires

- Consumer
- Developer
- Operator
- Provider
- Auditor









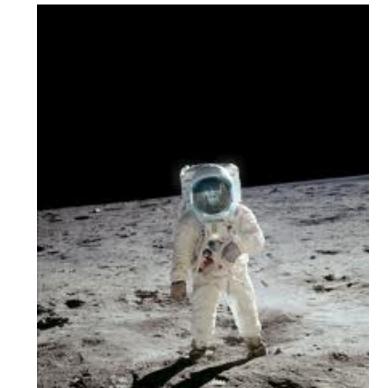


# Developers





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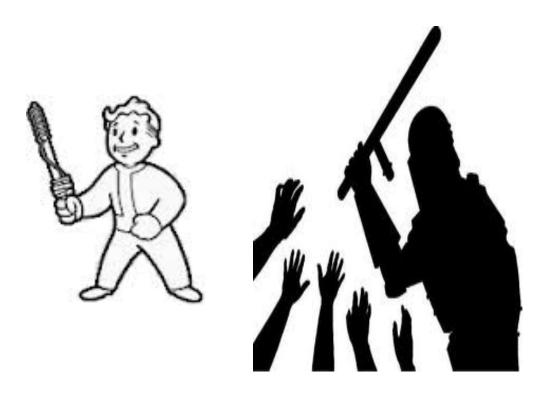


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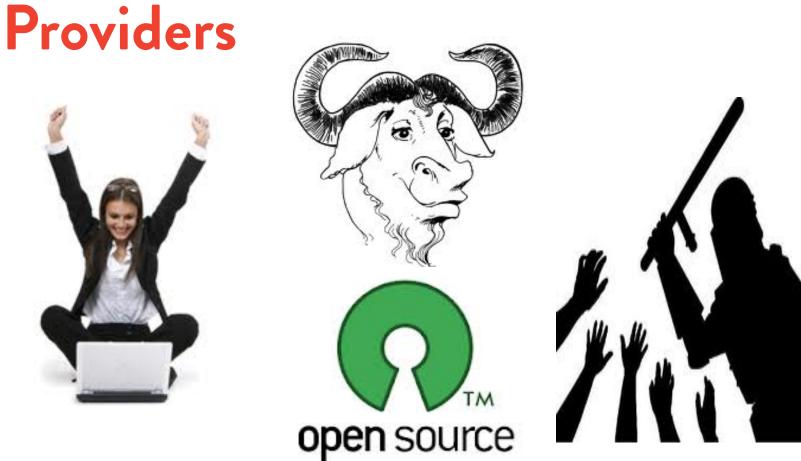














## Auditors







# The desires are the same...

- The targets are different.
  - Op focus on resilience -> happy devs
  - Dev focus on application resilience-> happy consumers
  - Happy users -> happy providers
    Nothing makes an auditor happy, just less sad.





