



# Newegg Cloud Computing with OpenStack + Ceph

By Jason Chan  
General Manager, Newegg Taiwan



# Newegg Business Pillars

eCommerce

Global EC  
Outsourcing

Cloud  
Computing  
Products and  
Services



# Challenges and Issues

- Time to market
- Large scale of cloud computing infrastructures and platforms
- Flexibility and scalability
- Reliability and manageability °
- Rapid deployment
- Highly customizable to meet diversified need
- Total cost of ownership

# Previous Status

- A pilot project on AWS with 140+ VM instances
- Proprietarized by AWS S3 、 RDS 、 DynamoDB 、 CloudSearch 、 SQS...
- MUST strictly follow Amazon Web Services guidelines and development disciplines
- Increasing cost and expenditure on infrastructure and VM environment

# Goals

- To build up Newegg Clouds and co-located in Taiwan
- To manage cost and effectiveness
- In-house development of desired products, services and software
- Scalable S/W, H/W and infrastructure
- To sustain high availability and flexibility
- To provide state-of-art Cloud Computing products and Services



# Milestones and Achievement

- 14 days to install racks, servers, routers, switches and corresponding systems
- 13 days to deploy Newegg's VM and S/W development, testing and staging environment
- The first and largest operator grade OpenStack+Ceph using community codes in Taiwan
- Providing Cloud storage up to 3 PB
- Capable of offering 4800 VCPU , 4TB RAM VM



# Benefit and Advantage

- ✓ System performance 50% improvement
- ✓ Web sites response time 60% improvement °
- ✓ Cost reduction on Infrastructure by 73%
- ✓ VM cost reduction by 100%



# Next Steps

- Becoming the largest EC and Cloud vendor based on OpenStack in Taiwan °
- Providing professional services to enable more OpenStack in Taiwan's commercial environment
- To enrich the OpenStack community and create more services and applications



# More references

- Walmart電商3.0新戰略關鍵：打造全球最大OpenStack私有雲
  - <http://www.ithome.com.tw/news/104609>
- 日本雅虎用OpenStack打造5萬台VM
  - <http://www.ithome.com.tw/news/98304>
- Google加入OpenStack陣營
  - <http://www.ithome.com.tw/news/97472>



*Thank you!*

# 附錄 架構示意圖

