



# Ceph Day @ Shanghai

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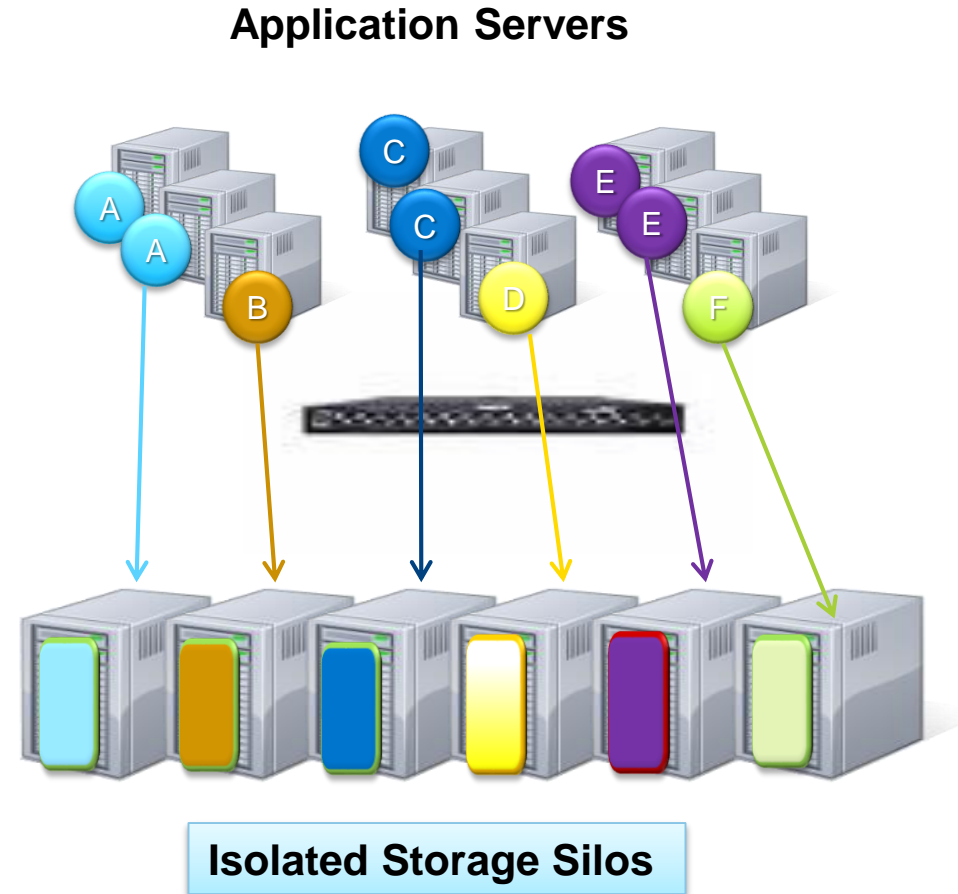
# Traditional Storage Challenges

## Storage Silos (Traditional)

- Apps (A,B,C, etc.) mapped to specific appliance
- Storage optimized to a specific workload

## Challenges

- Limited/no sharing, interoperability
- Different management interfaces
- Different support contracts
- Limited Scalability
  - Oversubscription
  - Fork Lift Upgrades



# End User Storage Pain Points



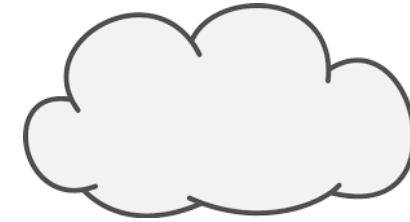
## Cost

Capacity doubles every two years; IT budget is ~ flat



## Lack of Choice

Lack of interoperability & Management standards



## Cloud Readiness

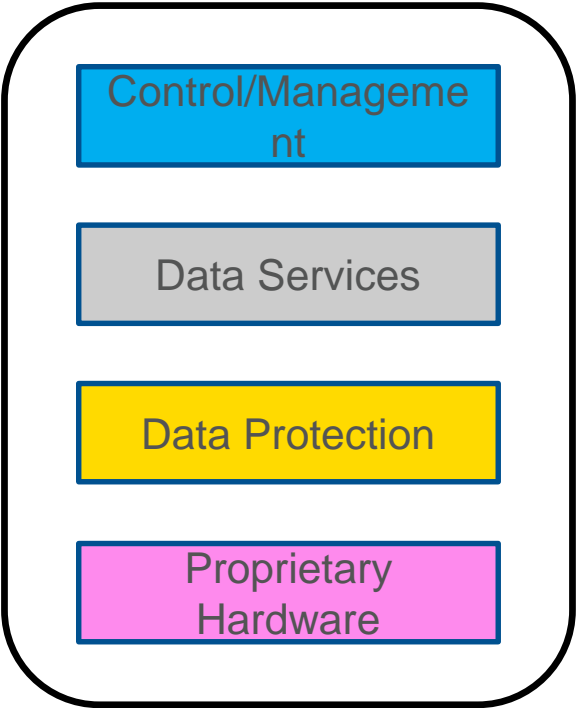
70% say current storage holds back cloud initiatives

\* Source IDC; April '14

\* Source 451 Research; Dec '14

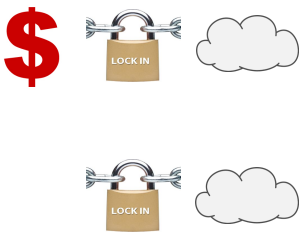
# SDS and SBS Address End User Pain Points

## Traditional “Silo” Storage (System Centric)



SDS  
Addresses  
OPEX

## SDS Framework (Datacenter Centric)

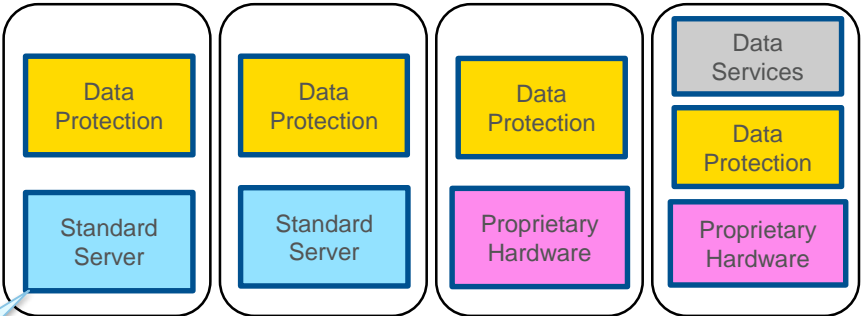


Control/Management

Data Services



SBS  
Addresses  
CAPEX

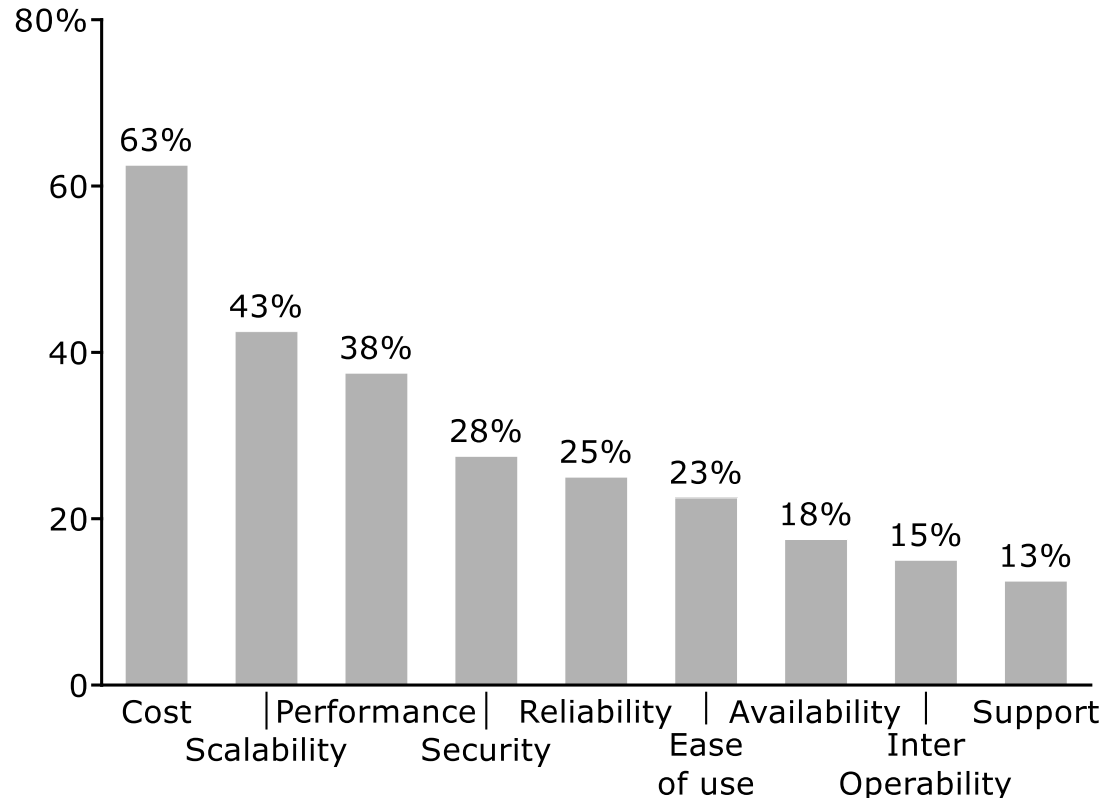


# Cost, performance, scalability key priorities for users

## ENTERPRISE

What are the top 3 priorities that your organization considers when designing storage infrastructure?

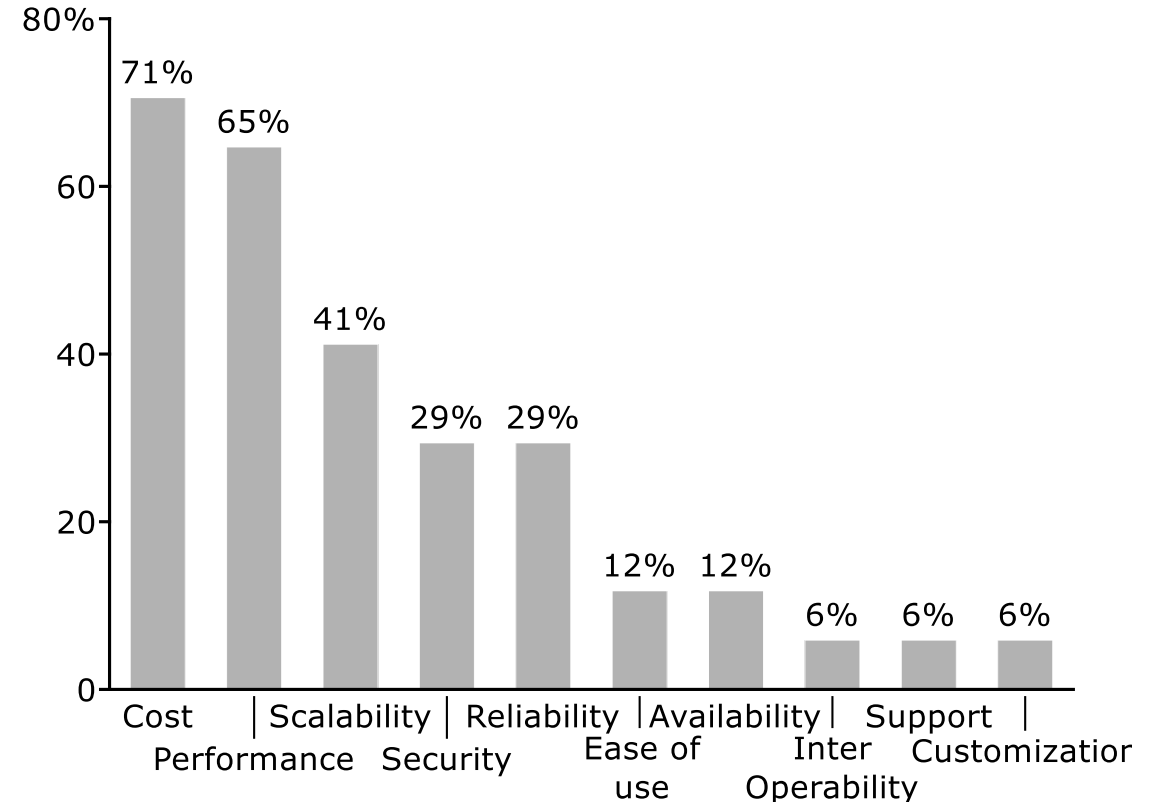
*% of times mentioned*



## CLOUD PROVIDER (TIER 2)

What are the top 3 priorities that your organization considers when designing storage infrastructure?

*% of times mentioned*



# Why intel?

- Intel invest a lot on Open source software
- We want to work w/ our partners and customers to provide better product and solution
- High light:
  - Intel is No.2 Ceph code contributor world wide
  - Key features for Ceph – cache tier, EC, New Store, RGW, kv-store etc.
  - Embrace the new Hardware features – 3D NAND and 3D XPoint™ etc.

## And more...

Intel open source Virtual storage manager (VSM) – the Ceph management tool in 2015 Dec

- <https://01.org/zh/virtual-storage-manager?langredirect=1>

And we open source CeTune – Ceph profiling tool now...

- <https://github.com/01org/CeTune>

# Call for action

- Participate into the open source community, especially between different storage projects
- Share with us your problems and concerns
- Try our tools – and give us feedback



# Welcome to Ceph Day @ Shanghai, enjoy!

- Thanks our speakers from Intel, Redhat, China Unicom, Ctrip, H3C, SUSE, Mellanox, PowerLeader, XSky
- Thanks your participation: SJTU, FuDan University, ZTE, UnionPay, ShanDa, Yihaodian, Ucloud, BestTV, Chinastandard, Gainet, Inspur, NARI, Pingan, EasyStack, ChinaMobile, Eshore and etc.
- Thanks TechCode to provide place and support for the event!