

Cloud Object Storage And The Use Of Gateways

Live Webcast

September 26, 2017 10:00 am PT





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Today's Topics

- Market Trends
- The Hybrid Cloud Strategy
- Object Storage Basics
- Primary Gateway Use Cases for Cloud
- Summary



MARKET TRENDS

The Data Explosion

New, mostly unstructured data sources emerge constantly, creating an expanding data ecosystem for every organization.

75 billion

Internet-connected devices by 2020

Zetabytes by 2020

44

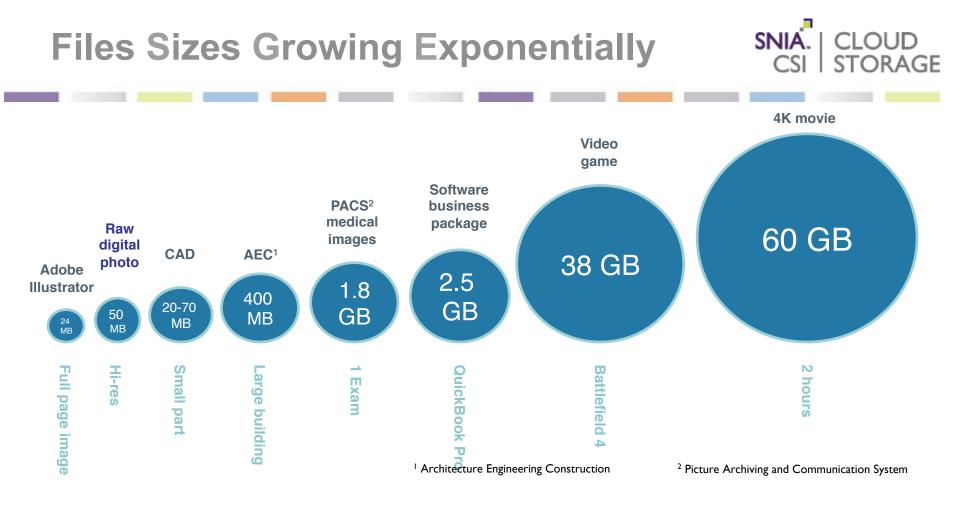
90% of all data was created in the last 2 years

of stored data is unstructured

80%

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What do the analysts say is important?

Cognitive

By 2018, 50% of developer teams will embed cognitive capabilities in their apps

Source: IDC FutureScape

All about the UX

By 2018, 80% of enterprises will overhaul their "Digital Front Door" to support more customers and customer touch points

Source: IDC FutureScape

DIY won't work

Through 2018, over 80% of organizations that deploy or assemble self-managed PaaS frameworks will not achieve the expected cloud PaaS experience

Source: Gartner

Gartner, Predicts 2016: PaaS Innovation Continues Unabated, 12/10/2015, Yefim V. Natis, Lydia Leong, Benoit J. Lheureux, Paul Vincent



HYBRID CLOUD STRATEGY

What Enterprises are Trying to Do





- Use the latest tools
- Release faster, more often
- Incorporate user feedback
 quicker

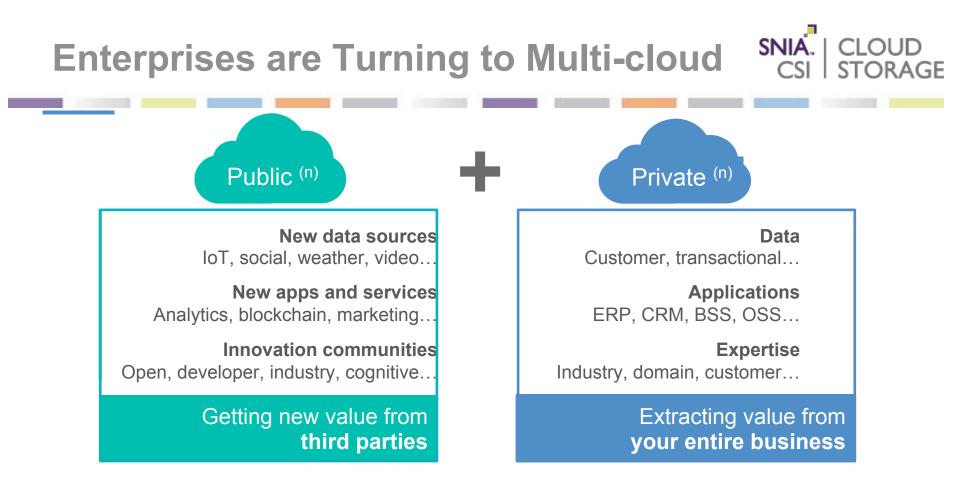


Optimize workloads & data for best fit



- Open trusted apps and data to innovation, securely.
- Maintain/Sustain governance
- Enable apps to use new sources of data
- Build new business models
 across ecosystems

- Lift and Shift selected apps and data to cloud for better agility and economics
- Place data and analytics for best cost/risk/performance profile



Hybrid Cloud for Cost Effectiveness

Speed

change only what you need to get value faster

Innovation

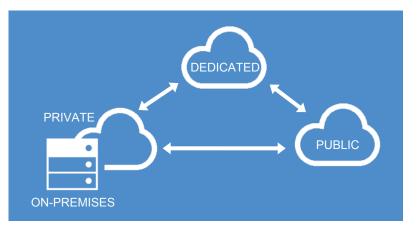
Leverage cloud services, open communities, new technologies to maximize opportunity

Flexibility

Position workloads to deliver on business objectives

Insight

combine data with new sources of data for best outcomes



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Hybrid cloud is a combination of cloud and traditional IT working in unison to deliver value to customers, suppliers, employees, & partners. CIOs report that 16% of workloads now run in a public cloud, growing to 41% in 5 years

> Barron's Tech Trader Daily, April 2016

CLOUD

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CLOUD OBJECT STORAGE BASICS

Traditional Solutions Fail Today's Needs CSI | CLOUD CSI | STORAGE

Storage architecture needs to manage hyper growth and evolving workloads to help unlock data value.

- Any application, any source, any business
- Flexible, massive scale without roadblocks
- Enabling innovation, discovery, new experience



Demand for a New Storage Architecture CSI | CLOUD

Flexibility in developing applications and leveraging content

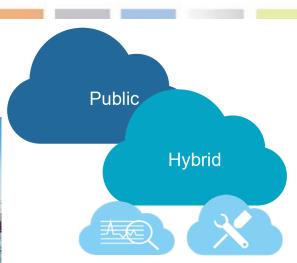
On-Premises

- Compliance/control
- Leverage existing assets





Consistent, uniform and open programming interfaces Ready for cognitive analytics



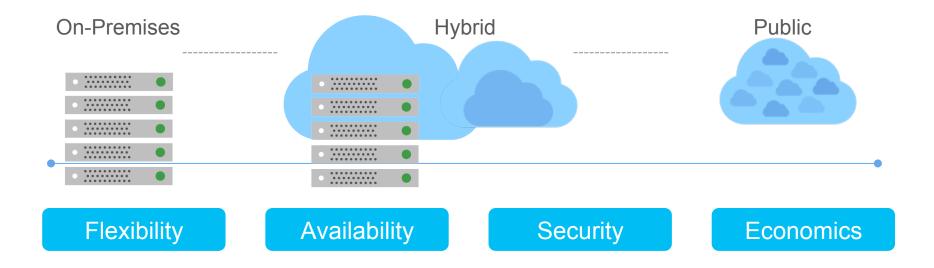
Cloud

- Elasticity
- As-a-service pricing
- Unlimited scale
- Global reach





Cloud Object Storage holds data where it's most available, more useful, and ready to support insights that drive innovation.



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4 11	Media & Entertainment <i>Production</i>	Media & Entertainmen <i>Distribution</i>	Service Providers	Financial Services & Insurance	Health Care & Life Sciences	Government
	Repository for new creative	Global on- demand content hub	Storage as a service for subscribers	archive and	Shared genomics research	
	Active Archive, Backup, Cloud Storage					
	Content Repository		STaaS	Enterprise STaaS		
	Content Collaboration			Enterprise Collaboration		tion
	18			© 2017 IBM Corporation	Genomics Collaboration	

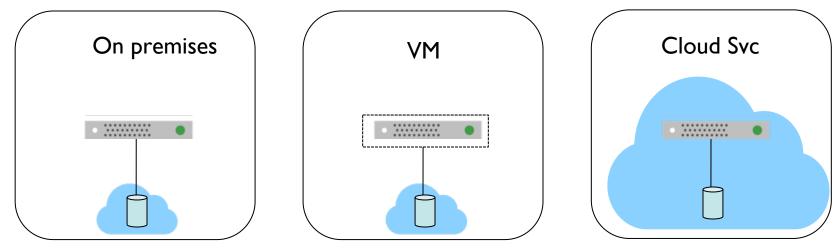


USING GATEWAYS



- A cloud storage gateway provides transparent communication by translating protocols and enabling connectivity for incompatible applications
- Gateways can make cloud object storage appear to be a NAS filer, a block storage array, a backup target or even an extension of the application itself.
- Many cloud storage gateway products provide data optimization and encryption to cloud object storage.

- Gateways are deployed as physical on premises appliance, a virtual machine (VM) image or a cloud service.
- To the application a gateway looks like NAS



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- Shift applications and storage without disruption to existing application and business processes.
- Deploying an object-first, cloud-first roadmap
- Provide always on access to valuable data across multiple device types, geographies and organizations.
- Need to reduce the cost of data storage and management for file services, unstructured data and data archival
- Share and synchronizing data across many mobile devices (BYOD) and Remote office locations
- Need to provide secure access to all your data, and protect against ransomware threats to the corporate network

Proven Use Cases



ILM to the Cloud

- Drain aged and infrequently used content from On Premises NAS
- Cloud Object Storage as Tier 2 or 3 storage resource
- Mitigate NAS sprawl and shift expense from capital budget to operational budget

Enterprise Sync & Share

- Established as File collaboration platform replacing legacy NAS and CMS
- Data protection, content distribution for geographical dispersed locations
- Centralized management of end point content

Application Lift and shift

- Consolidate unstructured data in the cloud to simplify backup, disaster recovery, and archive processes.
- Provide better application performance and more efficient on prem processes



SUMMARY





- New, mostly unstructured data sources emerge constantly, creating an expanding data ecosystem for every organization, thus demanding a change where content is stored and managed.
- Enterprises are considering or implementing a multi cloud strategy as a way to leverage 3rd party content while extracting value from their own data.
- The use of gateways with Cloud Object Storage provide a more cost effective and scalable solution for Enterprises to modernize their business, application and storage processes.



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