

EMC ATMOS

Manage Big Data in the Cloud

Roberto Lotti Sr. Account Technology Consultant

Big Data Challenges







Unstructured Content

Prepare for digital universe explosion—34.2 zettabytes of growth 2020

Distributed Big Data

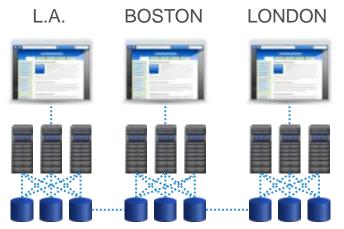
Aggregate data as a business advantage; manage as one

Accessibility Make available

Make available around the globe—from any device—any location

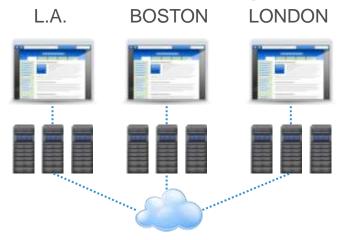
EMC²

A New Approach for Distributed Big Data



Storage islands

- Disparate systems
- Manual administration
- One tenant, many systems
- IT provisioned storage



Single storage pool

- Single system across locations
- Automated policies
- Many tenants one system
- Self-service access



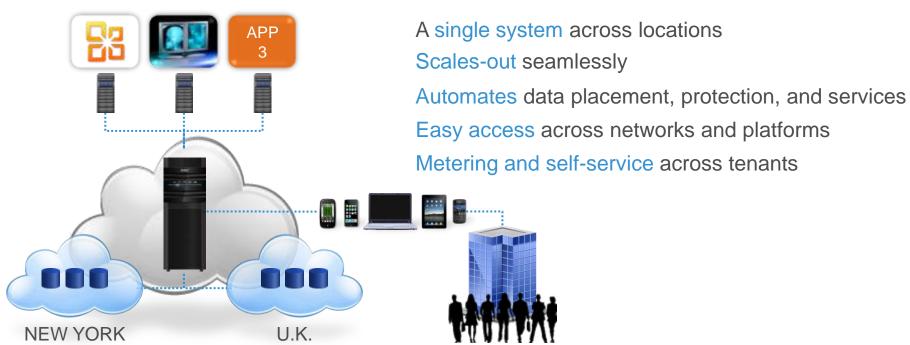


EMC Atmos

BIG. SMART. ELASTIC.

EMC Atmos

Efficiently store and manage distributed Big Data



Optimized to Handle Big Data Applications

CUSTOM APPLICATIONS PACKAGED APPLICATIONS SEAMLESS ACCESS





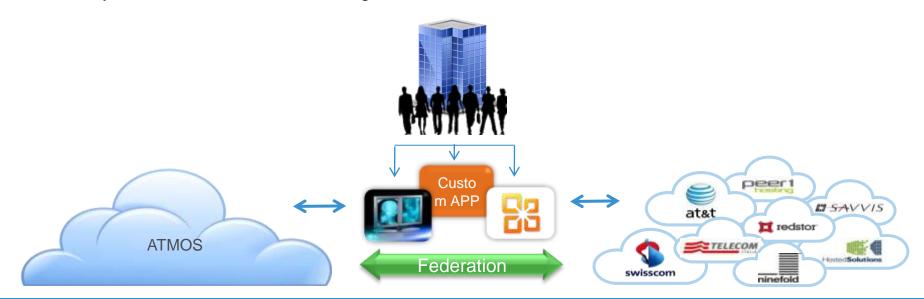
Private, Hybrid or Public Storage Clouds

Atmos for Private, Hybrid Clouds

- On-premises storage, with external extensibility
- Scalability, control, and flexible service level agreements

Atmos-powered Public cloud services

- Public storage-as-a-Services built and delivered on Atmos
- Internet-accessible, on-demand storage







EMC Atmos

Capabilities



Aggregate Distributed Big Data

A single system across locations



- Global namespace
- Common view independent of location
- Central management and automation
- Single pane of glass across systems



Easily expand storage

Scale out seamlessly



- Expand capacity and locations
- Increase performance
- Add applications and tenants



Make Big Data Smart

Automate data placement, protection and services

- Metadata drives business decisions
- Flexible protection methods
- Built-in data services

Policy A.

"Status=UserPaid" Multiple copies multiple sites



Policy B:

"Modality=MRI"
Multiple copies
retained 5 years





Make Big Data Accessible

Easy access across networks and platforms

- Web services for next-gen apps
- File-based access for traditional apps
- Access via Windows, Linux, Web, mobile devices



Atmos Deployment Models





Purpose-built hardware

- Standard components—factory configured, racked, and cabled
- Optional high availability and redundancy

WS2-120



Small/Medium Compute

WS2-240



Dense Compute

WS2-360



Intel Xeon 5500 "Nehalem"

2 TB low-power SATA drives

- 60 TB cloud entry point
- Up to 480 TB per rack
- Up to 720 TB per rack

Software on VMware

 Certified with EMC VNX, VMware-supported servers, and third-party storage

Atmos Virtual Edition





VMware vSphere

NFS/FC/iSCSI Storage

- Starts at 10 TB
- Up to 960 TB per site

 EMC^2

Offer Storage-as-a-Service

Metering and self-service



- Single infrastructure—multiple tenants
- Users manage policies and storage
- Meter capacity and usage for chargeback

How businesses are using Atmos today



Web delivered services

Storage-as-a-service

Archive



EMC Atmos Cloud Storage Portfolio



GeoDrive for Windows and Linux

- User or application access
- Installs on Windows or Linux





Atmos Cloud Delivery Platform Software

- Software to deliver storage-as-a-service
- Enables metering and self service

STORAGE-AS-A-SERVICE

Atmos

- Atmos cloud storage software
- Software/hardware appliance
- Scale out architecture



Atmos Virtual Edition Software

- Atmos cloud storage software-only
- Runs in VMware ESX environment

Integrated Partner Solutions Extend your Storage

Needs **Custom Applications**























Archive to the Cloud











Cloud Backup and Recovery







Content Management and Collaboration AvePoint EMC DCTM metalogix newbay









File Tiering



EMC Cloud

Tiering Appliance





Medical Imaging Archive







Mobile and File Sync and Share











WAN Optimization and Fast File Transfer









Web Delivered Services

Vistaprint



Business Benefits

- Automated service levels and cost by consumer type
- Cut storage costs
 - \$1.4M / year storage savings
 - + \$300,000 / year bandwidth savings
- Continuous availability
 - 100% up time for uploads
 - Mapped to customer location

Situation

- 100%+ digital media growth
- Access for globally distributed applications
- Competitive pressures to retain low cost/high service
- Provide different levels of service by customer type

Solution

- EMC Atmos cloud storage across 3 locations
- \$1.4M / year storage savings
- \$300,000 / year bandwidth savings
- 100% up time for uploads



EMC Atmos Resources and Tools



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