DURACLOUD™

An Introduction to DuraCloud

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Who are we?

DSpace
Fedora
DuraCloud

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Why cloud?

A style of computing where massively scalable IT-related capabilities are provided "as a service" using Internet technologies to multiple external customers.
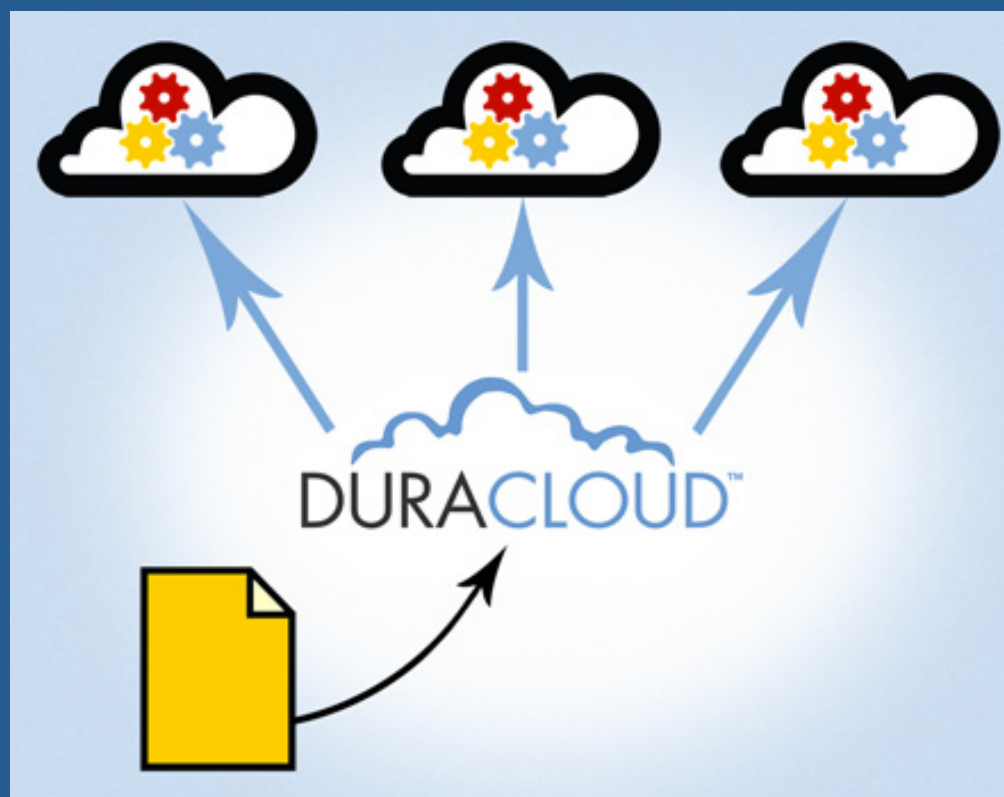(Gartner 6/08)

What is DuraCloud?

- Open technology *and* managed service that utilizes cloud infrastructure for preservation support and access services

  ✓ *Upload once and make multiple copies to various storage providers*

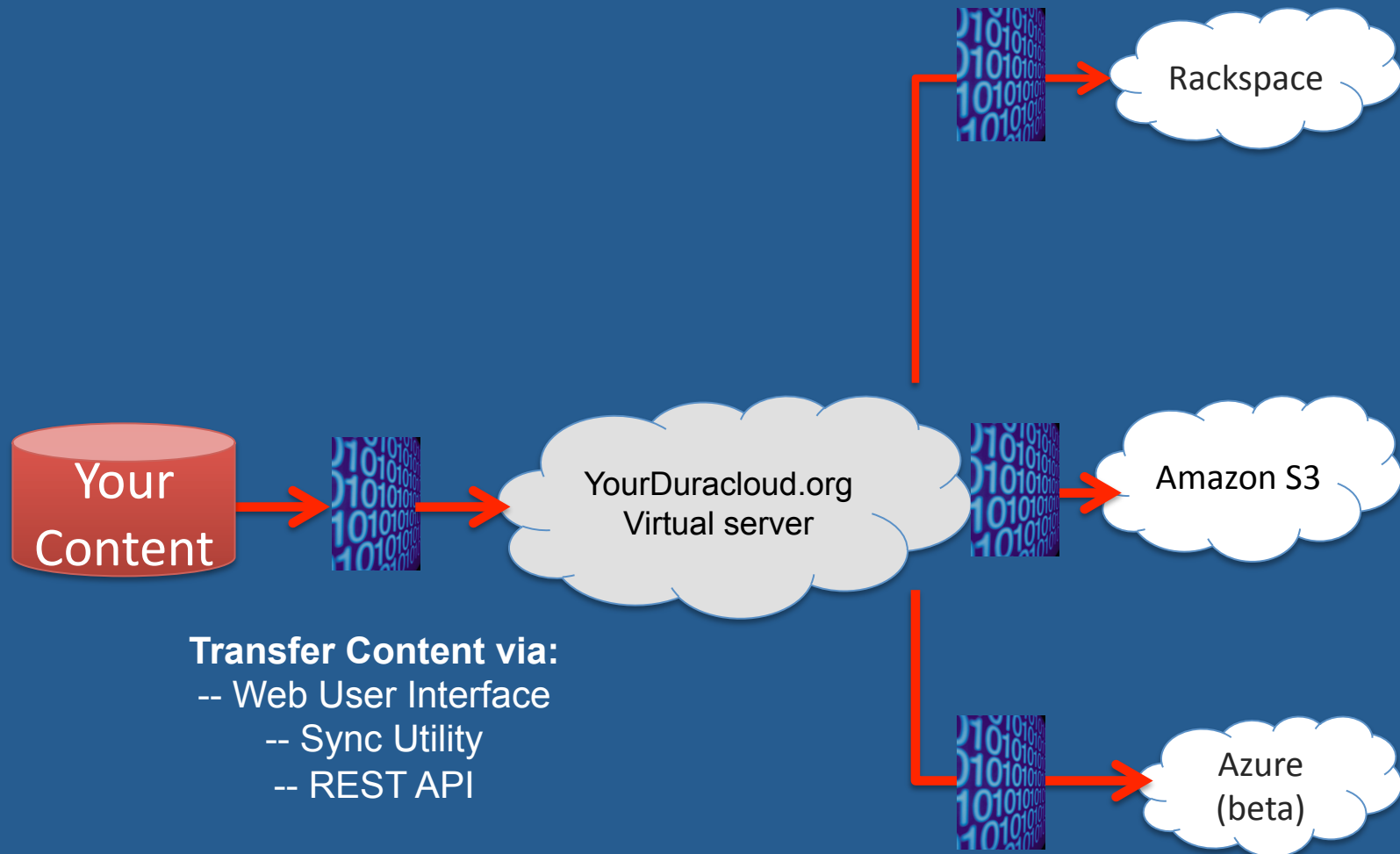 ✓ *Access anywhere from any Internet connected device*
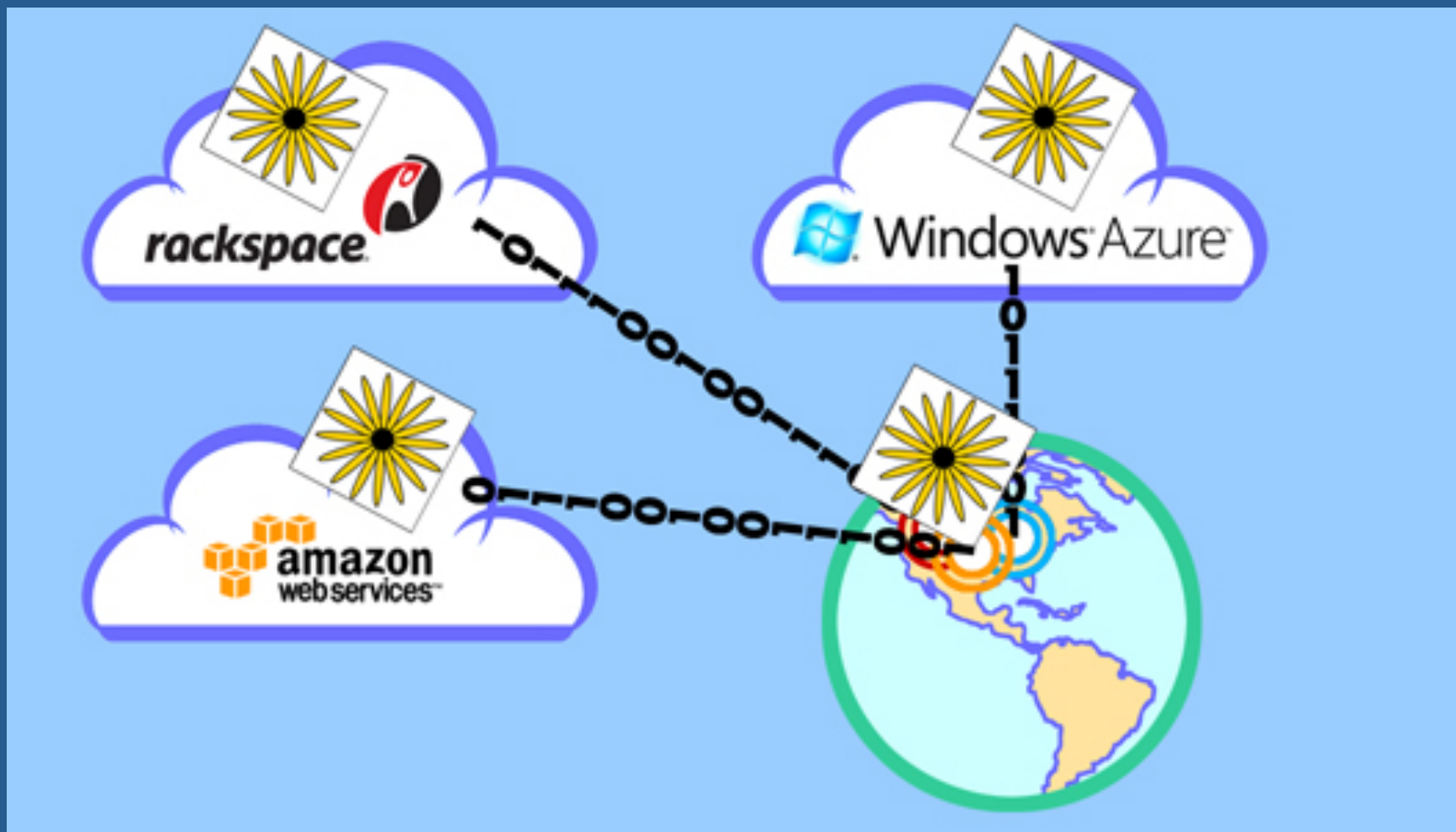
What are the benefits?

- Features
  - **Simple:** upload once and make multiple copies to various storage providers
  - **Hosted Service:** web-enabled, no client software needed
  - **Fully managed solution:** one unified interface across multiple providers
  - **Flexible:** built on highly scalable cloud platform
  - **Turnkey services:** preservation support and media access
  - **Open source platform**

DuraCloud offers a simple and scalable cloud-based solution to the problem of preserving digital files.

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How does DuraCloud work?

Rackspace

Your Content

YourDuracloud.org
Virtual server

Amazon S3

Transfer Content via:
-- Web User Interface
-- Sync Utility
-- REST API

Azure
(beta)

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How is my content synchronized?

What else can DuraCloud do?

Archiving and Preservation

Online Backup(s)

File Format
Identification

Bit Integrity
Checking

Duplicate on
Demand

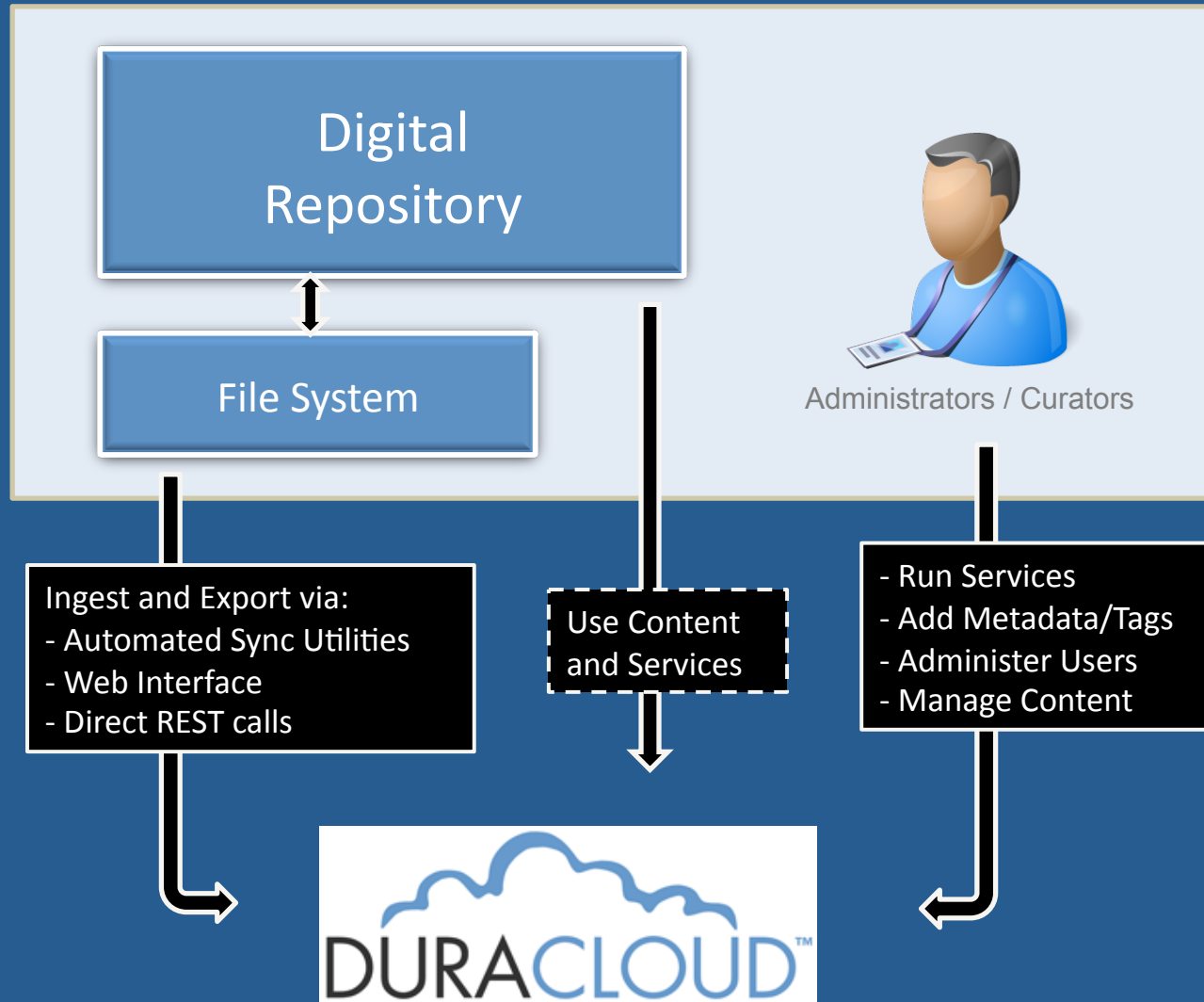**Multimedia Access**

Advanced
Image Viewing

Media Streaming

Image
Transformation

…more on the roadmap

How do I use DuraCloud?

Organization Utilizing DuraCloud

Digital Repository

File System

Administrators / Curators

Ingest and Export via:
- Automated Sync Utilities
- Web Interface
- Direct REST calls

Use Content and Services

- Run Services
- Add Metadata/Tags
- Administer Users
- Manage Content

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What does DuraCloud work with?

- DuraCloud is integrated with Fedora and DSpace repository platforms, and tested with ContentDM
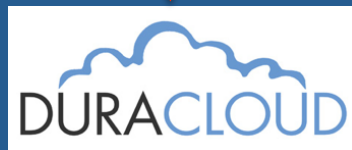
DSpace Replication Task Suite
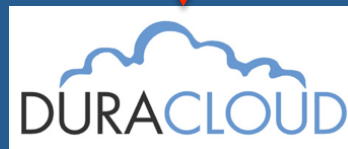
Fedora CloudSync
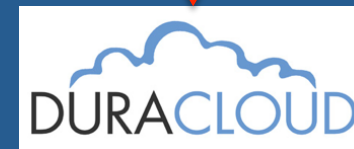
What about an example?

-Retrieval of lost files (admin error)
-Replacement of damaged files
-Disaster recovery

Ingest

Submission files

DSpace

Database | Asset store

AIP

DuraCloud

Preservation services:
-monitoring
-file retrieval
-access
-integrity checking
-replication

amazon web services™

rackspace®

Windows Azure™

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How can DuraCloud help me?

- ✓ Monitor integrity of stored content

- ✓ Ensure all copies of content are synchronized

- ✓ Detect bit corruption or loss

- ✓ Enable geographic distribution under multiple administrations

- ✓ Provision adequate hardware/software to support backup of services and content

- ✓ Process for storage/hardware change (migration)

- ✓ Avoid vendor lock-in

- ✓ Web access with ability to view/edit/delete and upload/ download your archived content

Commercial Cloud Vendors vs. DuraCloud

Features	Commercial Cloud Vendors	DuraCloud
Online backup	✔	✔
Web access	✔	✔
Ability to upload/download content via web	✔	✔
File format identification		✔
Synchronization to multiple storage clouds		✔
Online sharing	✔	✔
File health checkup		✔
Media streaming	✔	✔
Advanced image viewing		✔
Image Transformation		✔
Open source software		✔
Community-share platform		✔

What are users saying?

- "DuraCloud delivers the benefits of a diverse network of storage locations, but without the overhead of managing different vendors."
  ~ICPSR

- "The **_ease-of-use_** of DuraCloud is its most impressive feature."
  ~Columbia

When will DuraCloud be available?

- Launches fall 2011
- Multiple service plans available
- Annual invoicing or monthly billing via credit card options

DURACLOUD ADMINISTRATOR

Login

Username |

Password

Login

Duracloud Administrator Release v1.0.0-SNAPSHOT 460 | ©2011 DuraSpace.org | Duracloud.org | Contact Us

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Sign up for a free DuraCloud trial account at http://duracloud.org/trial_account

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Where can I find out more?

- Web site:
  www.duracloud.org

- Email:
  csmith@duraspace.org

Contact me if interested in a live DuraCloud demo session.