An Introduction to DuraCloud

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Who are we?
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.
How does DuraCloud work?

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

Your Content → YourDuracloud.org Virtual server → Amazon S3

YourDuracloud.org Virtual server → Rackspace

YourDuracloud.org Virtual server → Azure (beta)
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
What does DuraCloud work with?

- DuraCloud is integrated with Fedora and DSpace repository platforms, and tested with ContentDM.
- Retrieval of lost files (admin error)
- Replacement of damaged files
- Disaster recovery

Ingest

DSpace

Database
Asset store

DuraCloud

AIP

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

Submission files

What about an example?
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

<table>
<thead>
<tr>
<th>Features</th>
<th>Commercial Cloud Vendors</th>
<th>DuraCloud</th>
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<tbody>
<tr>
<td>Online backup</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Web access</td>
<td>✔</td>
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<td>Ability to upload/download content via web</td>
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<td>File format identification</td>
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<td>Synchronization to multiple storage clouds</td>
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<td>✔</td>
</tr>
<tr>
<td>Online sharing</td>
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<td>File health checkup</td>
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<td>Community-share platform</td>
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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

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