

DuraCloud

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Workshop on Software Infrastructure for
Reproducibility in Science

May 2013

DuraSpace

- Mission is access, discovery, and preservation of scholarly digital content and data
- Steward open source projects in this space (Fedora, DSpace, VIVO)
- Provide managed services to the community



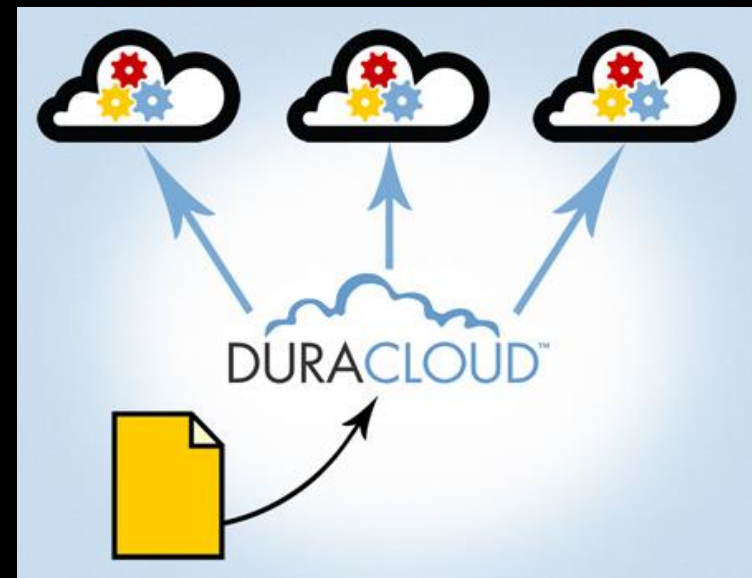
DURACLOUD™

DURA
SPACE™

What is DuraCloud?

Community based SaaS runs in the cloud, providing online storage and preservation services

- ✓ *Upload once and make multiple copies to various storage providers*
- ✓ *Ongoing fixity checks*
- ✓ *Integrated management and reporting through web UI*
- ✓ *Access content anywhere from any Internet connected device*



How does DuraCloud help preserve content?

- ✓ Ability to easily move online copies offsite, distribute geographically
- ✓ Check the health of all copies
- ✓ Repair or replace corrupted files
- ✓ Ability to do a full or partial restore of content with no technical assistance
- ✓ Scale storage up or down as needed
- ✓ Full Web access with ability to view/edit/delete and upload/download your content

Amazon vs. DuraCloud

Features	Amazon	DuraCloud
Online backup	✓	✓
Web access	✓	✓
Integrated management console		✓
File health checkup		✓
Ability to move or copy content to multiple cloud providers(SDSC and Rackspace)		✓
Online Sharing		✓
Shibboleth integration		✓
Community-share platform		✓
Business relationship with DuraSpace		✓

Entry level DuraCloud is at price parity with Amazon



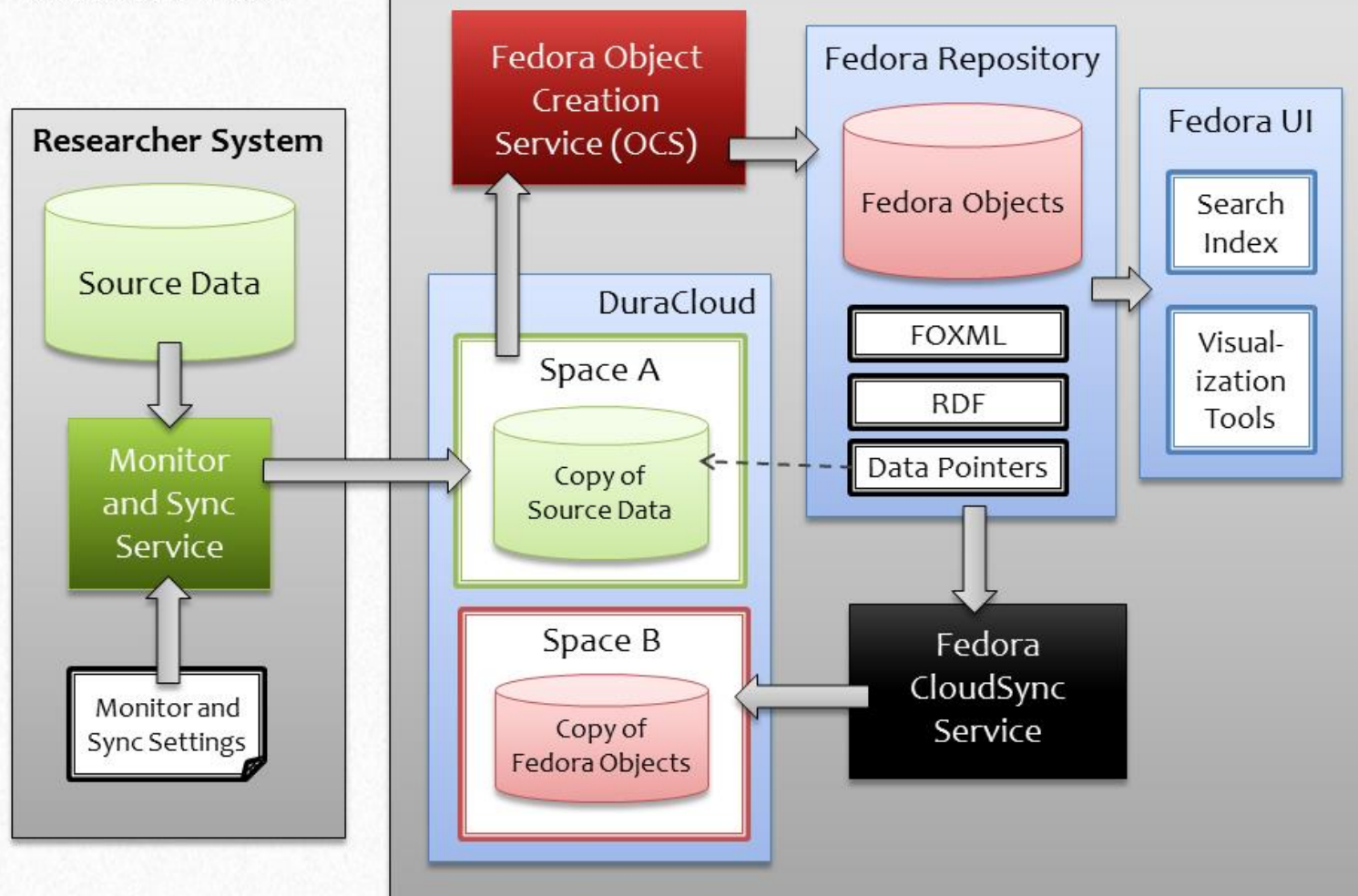


DURACLOUD™

For Research

- Funded by Sloan Foundation
- Project data safely backed up at the source
- Metadata captured and enhanced
- Architecture for pluggable services
- Permits partnership with data managers/curators
- Preservation in the cloud

DuraCloud for Research Architecture Sketch



Duraspace Repository

Projects



- ▷ Cerro Juan Diaz (25)
- ▲ Imported Objects (5)
 - ▷ Docs (1)
 - ▲ Images (1)
 - Artifact_Predicting_End_of_the_World
 - Looter Pit.jpg
 - ▷ Spreadsheets (1)
 - Thumbs.db

Concept Overview

Resources

Viewer

Manage





Duraspace Repository

Projects

- ▶  Cerro Juan Diaz (25)
- ▶  Imported Objects (5)
 - ▶  Docs (1)
 - ▶  Images (1)
 -  Artifact_Predicting_End_of_the_World...
 -  Looter Pit.jpg
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Concept Overview
Resources
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Manage

-  Edit Permissions
-  Purge Object

Object Properties

Label:






Owner:

State: A

Date Created: 2013-04-01T21:52:36.951Z

Last Modified: 2013-04-01T21:52:36.951Z

Datastreams

-  Add
-  Remove
-  Edit
-  Download
-  View

ID	Label	State	Mime Type	Date Created
COLLECTION_POLICY	Collection Policy	A	text/xml	2013-04-01T00:00:00...
DCOM	DCOM Record	A	text/xml	2013-04-01T00:00:00...
LIDO	LIDO Record	A	text/xml	2013-04-01T00:00:00...
OBJ	Artifact_Predicting_End...	A	image/jpeg	2013-04-01T00:00:00...
RELS-EXT	RDF Statements about ...	A	application/rdf+xml	2013-04-01T00:00:00...
DC	Dublin Core Record for ...	A	text/xml	2013-04-01T21:52:36...

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```
<?xml version="1.0"?>
<dcom>
  <content-file-created>2012-11-28T14:42:08.008</content-file-created>
  <content-file-modified>2012-11-28T13:03:14.014</content-file-modified>
  <content-checksum>5687f791f74ed1b490fe9d43acfd76ea</content-checksum>
  <content-file-path>C:\Users\JJM-M4500\DuraCloud for
Research\Cerro_Juan_Diaz\Images\Artifact_Predicting_End_of_the_World_on_11-06-
2012.jpg</content-file-path>
  <content-mimetype>image/jpeg</content-mimetype>
  <content-file-last-accessed>2012-11-28T14:42:08.008</content-file-last-accessed>
  <content-modified>2013-04-01</content-modified>
  <content-size>255263</content-size>
  <creator>dfrtest</creator>
</dcom>
```

Next Steps

- Determine how DuraCloud and DfR might best serve the research community
- Explore partnerships with complementary services, organizations

Questions?

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