

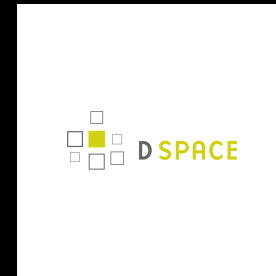
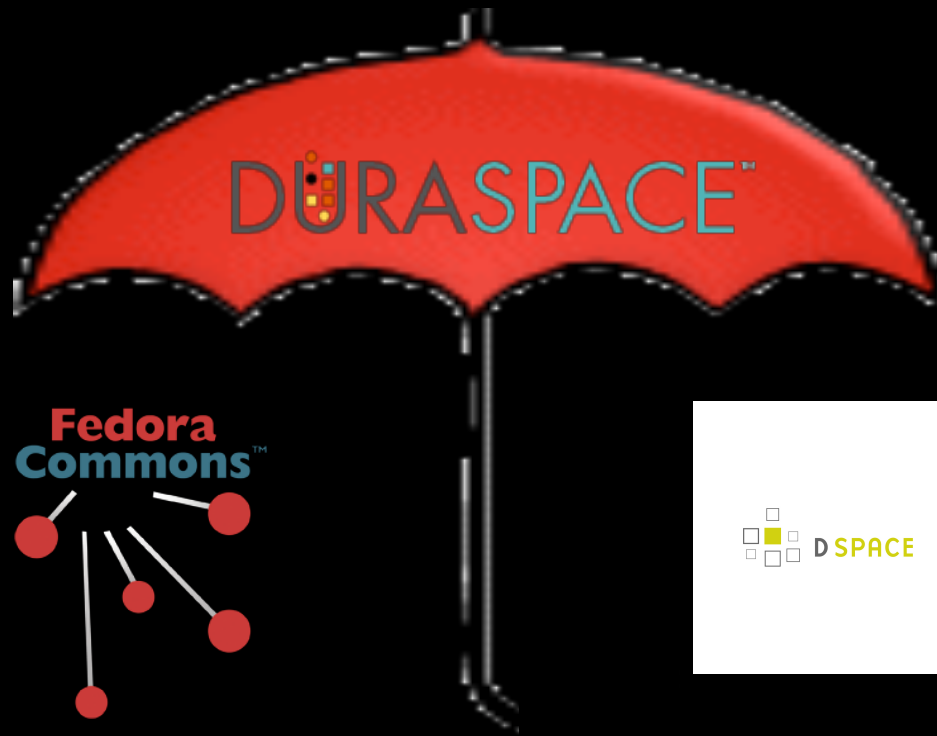
DuraCloud

Managing durable data in the cloud

The logo for DuraSpace, featuring the word "DURA" in a grey sans-serif font and "SPACE" in a teal sans-serif font. A small trademark symbol (TM) is located to the upper right of "SPACE". Above the "U" in "DURA" is a small graphic of a 3x3 grid of squares, with the center square being orange and the others grey.

Michele Kimpton, Director DuraSpace

Open Source Portfolio



DuraCloud

Goals of DuraSpace

Stewardship:

Support and align open source development communities for DSpace and Fedora

Innovation:

Think beyond existing platforms

New strategies for enabling access and preservation of digital content

Sustainability:

Develop business model to sustain the non-profit and open technologies we support

Emergence of Infrastructure

Systems



Networks

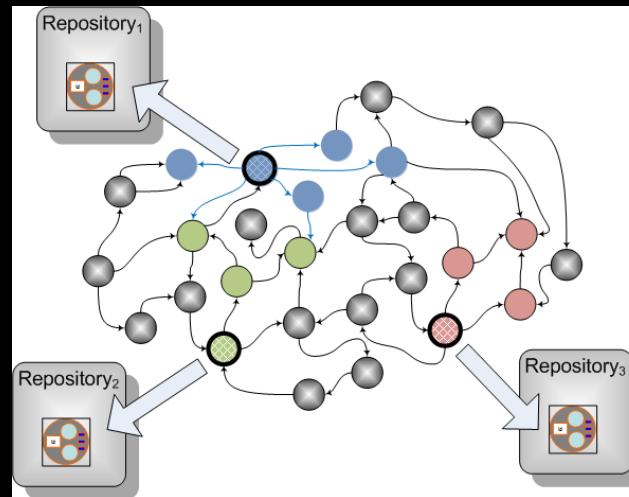


Integrate components
Central control
Dedicated/specialized gateways
More closed
More preconceived

Integrate systems
Distributed control
Generic gateways
More open
More reconfigurable

Vision: Federated Repositories and Cyberinfrastructure

Heaven



DuraCloud

What About the 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).



Cloud Services

Elastic web-based infrastructure for storage and compute



Over 750 organizations using DSpace or Fedora worldwide

Challenge

Digital preservation is essential but difficult to implement

- Tools and processes unproven
- Limited IT support
- Resources unavailable
- Task can be overwhelming (replication, migration, emulation, etc.)

Challenge

Barriers to making digital content more accessible and useful to researchers

- Systems not interoperable
- Heterogeneous applications/platforms
- Lack of commons standards
- Non-elastic compute capability

Advantages – Cloud Services

- Flexibility
- Scalability
- Pay for use
- Easy to implement
- Cost

Economies of Scale and Cost

Public cloud providers drive cost down through scale, location and virtualization technology

Technology*	Cost Medium Datacenter	Cost Large Datacenter
Network	\$95 per Mbit/sec/mo	\$13 per Mbit/sec/mo
Storage	\$2.20 per Gbyte/mo	\$.40 per Gbyte/mo
Admin	140 servers/admin	>1000 servers/admin

Large Datacenters (tens of thousands of computers)

Medium Datacenters (thousands)

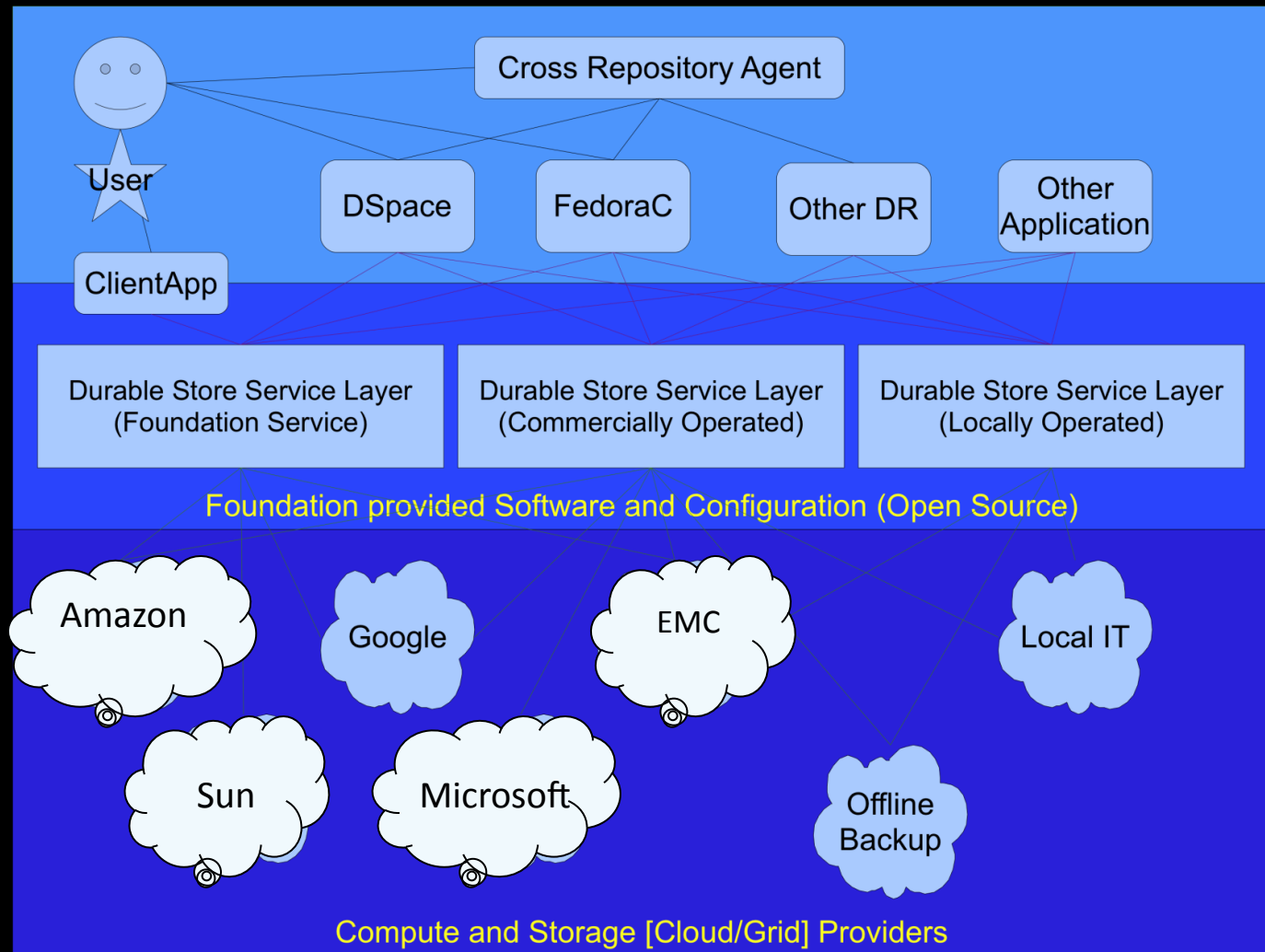
Source: Hamilton, Internet-Scale Service Efficiency,, LADIS Workshop (Sept 08)

Issues

- Stability
- Transparency
- Data lock in
- SLA's
- Trust

DuraCloud

***Trusted management of and access to
durable digital assets in the cloud***



DuraSpace
Mediating
Service



DuraCloud - basics

Replicate to multiple storage providers

Replicate to multiple geographic areas

Monitor and audit digital assets

Compute services in cloud next to content

Hosted by DuraSpace not-for-profit org

Partnerships with cloud providers

“Pay for use” for services and storage

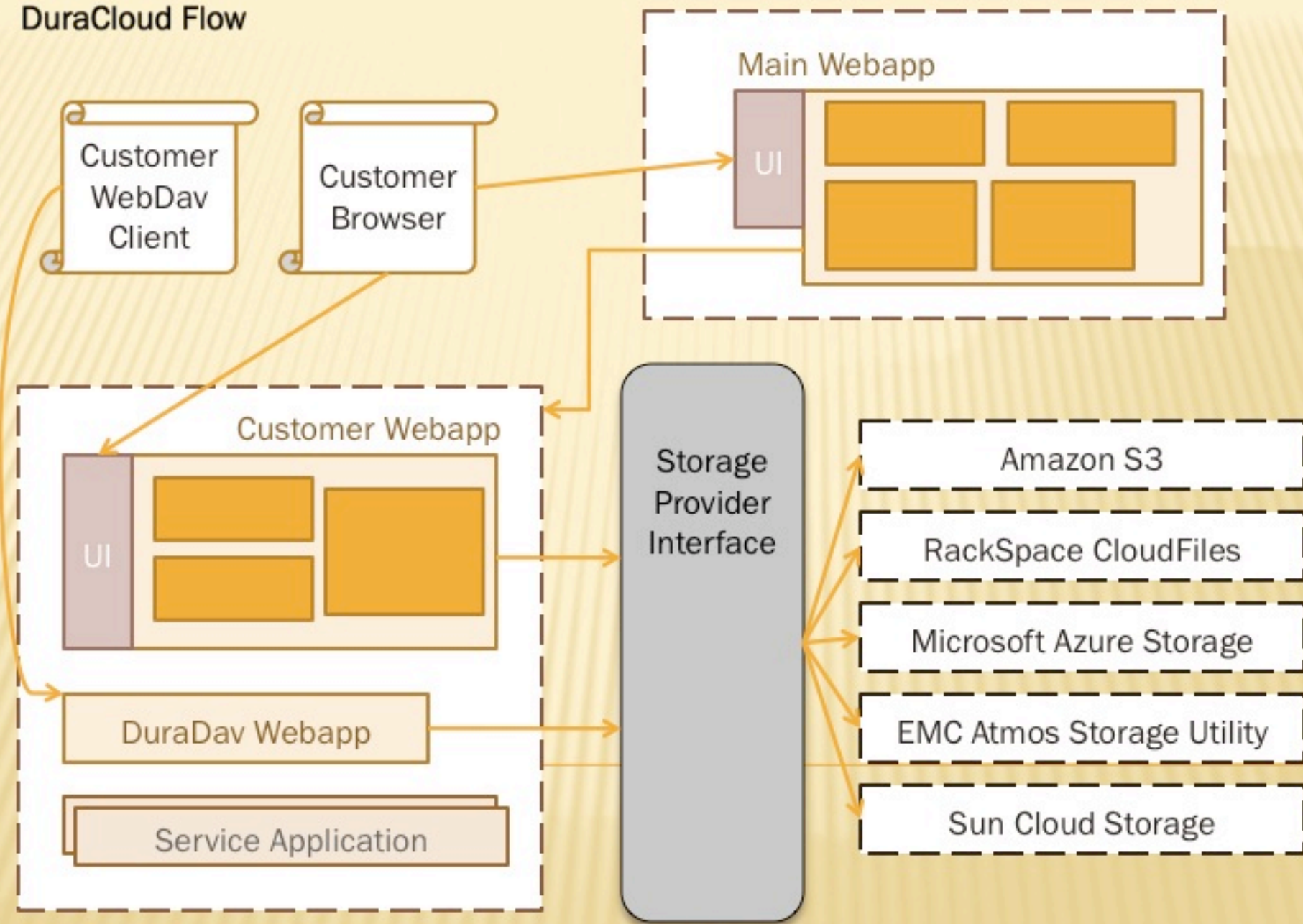
Available to run internally- open source



Chinese Menu
of Service Options



DuraCloud Flow



Additional services













- Other DuraSpace-provided services on top of content stored in the cloud
 - Search
 - Aggregation
 - Streaming
 - Migration
 - Hosting repositories

老四川
Original Chinese Sichuan Restaurant
Sichuan Gourmet
Delivery: 876-7722 or 876-7723

Appetizers

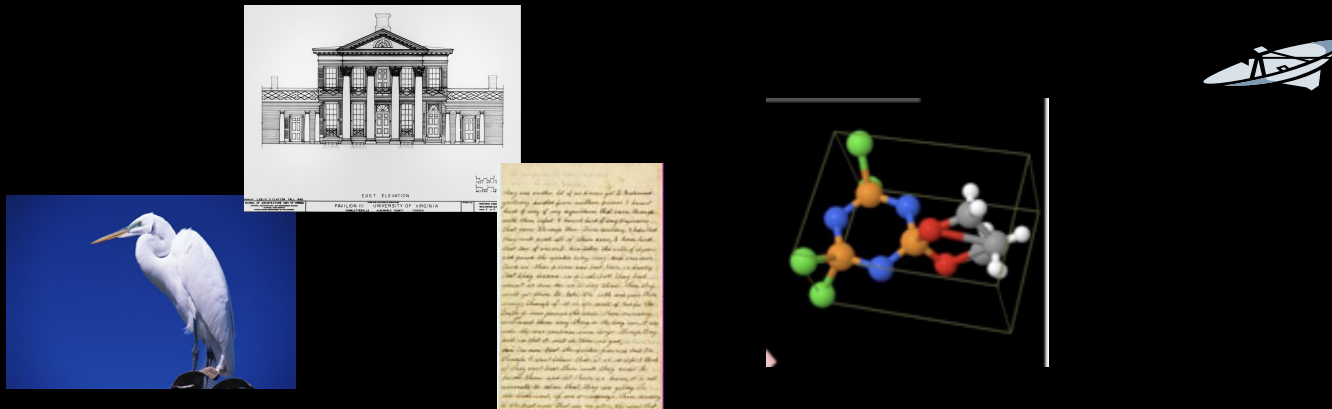
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Enable others to build and deploy services and apps in DuraCloud environment

 <p>Bloons Digital Goldfish Ltd Released Apr 05, 2009 \$0.99 BUY APP</p>	 <p>Mover Infinite Labs Released May 11, 2009 Free GET APP</p>	 <p>Ewe Stash - Knitting Treeness, LLC Released May 11, 2009 \$2.99 BUY APP</p>
 <p>Trixel ADEPT Games, LLC Released Apr 27, 2009 \$0.99 BUY APP</p>	 <p>Spawn Illuminati Elements of Design Released Feb 23, 2009 \$1.99 BUY APP</p>	 <p>World of Tunes Com2uS Corp. Released May 13, 2009 \$1.99 BUY APP</p>
 <p>Angels&Demons Sony Pictures Television Released Apr 20, 2009 \$4.99 BUY APP</p>	 <p>Gravulous SilentLogic Studios Released May 01, 2009 \$0.99 BUY APP</p>	 <p>STAR TREK® Electronic Arts Released May 05, 2009 \$2.99 BUY APP</p>
 <p>Myst Cyan Worlds Released May 02, 2009 \$5.99 BUY APP</p>	 <p>Vir2L® Drums Vir2L Studios Released Apr 17, 2009 \$0.99 BUY APP</p>	 <p>Dane Cook Global Zannel, Inc. Released Apr 16, 2009 \$2.99 BUY APP</p>

Use Cases: DuraCloud with Cloud Storage

- Online backup for text, images, datasets, video, audio
- Enable preservation via multiple copies, geographies, administrations
- Elastic provisioning of temporary or permanent storage for projects or jobs



Use Cases: DuraCloud with Cloud Compute

- Streaming service for video
- Hosting JPEG2000 image engine
- Indexing and other processing heavy jobs
- Repositories in cloud
- Data and text mining over open data
- Aggregation and web 2.0 tools on open content and collections

DuraCloud

Underlying software

- Open core
 - ✓ Core components available for others to build on and run
 - ✓ Open source - apache license
- Architecture to create cloud networks
 - ✓ Public clouds
 - ✓ Private clouds
 - ✓ University consortia
- Also useful in research partnerships

Critical success factors

- Ease of use - simplicity
- Trusted partner within community
- Cost effective
- Elastic, scalable, flexible
- Establish key partnerships with cloud preferred cloud service providers
- Build community of developers and users

Partners and Pilots

- Selected initial cloud providers



- Selected 2 initial pilot partners



Pilot use cases

- *Ingest large quantity of material*
- *Replicate to multiple cloud platforms*
- *Manage replication and monitoring*
- *Run services*

Timeline

- Initial open source release— summer 2009
- Begin pilots – September 2009
- Pilot data loading and testing – Fall 2009
- Plug-ins for repository platforms – Q4 2009
- Beta for repository community - Q1 2010
- Pilot testing with compute services Q1 2010
- Report pilot results – Q1 2010
- Launch production service Q2 2010



For more information:

DuraSpace Organization: <http://duraspace.org>

A screenshot of the DuraSpace website homepage. The header features the DuraSpace logo on the left and navigation links (HOME, PRESS RELEASE, FAQ, PEOPLE, LOGOS) on the right. The main content area is divided into two columns. The left column has a heading "Introducing DuraSpace™" followed by a subheading "an organization creating open technologies for durable digital content." Below this is a paragraph about the merger of Fedora Commons and the DSpace Foundation, and another paragraph about the new organization's mission. The right column has a heading "Announcements" followed by a list of recent events: "Available Now: DuraSpace Twitter Feed...", "May 12th: DuraSpace Press Release Available...", "May 19th: OR09 Developer Challenge Winner...", "May 24-26th: DuraSpace Presence at Sun PASIG...", and "June 16th: JumpBox for DSpace...". Below the announcements is a heading "Projects" followed by a list: "DSpace", "Fedora Commons", and "Mulgara". At the bottom of the page is a large DuraSpace logo and a small logo for the DSpace and Fedora Commons partnership.

