



Integrating Fedora with DuraCloud

DuraSpace Webinar: 11 Jan 2012

Chris Wilper
DuraSpace

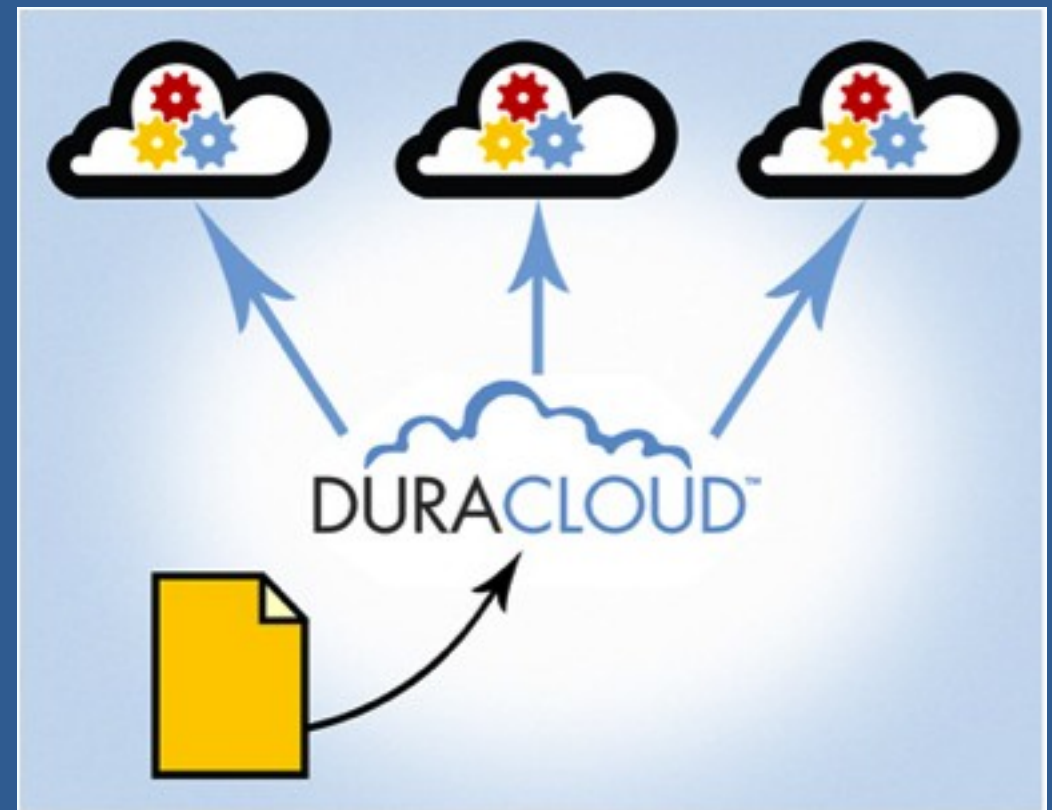
Who is DuraSpace?



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



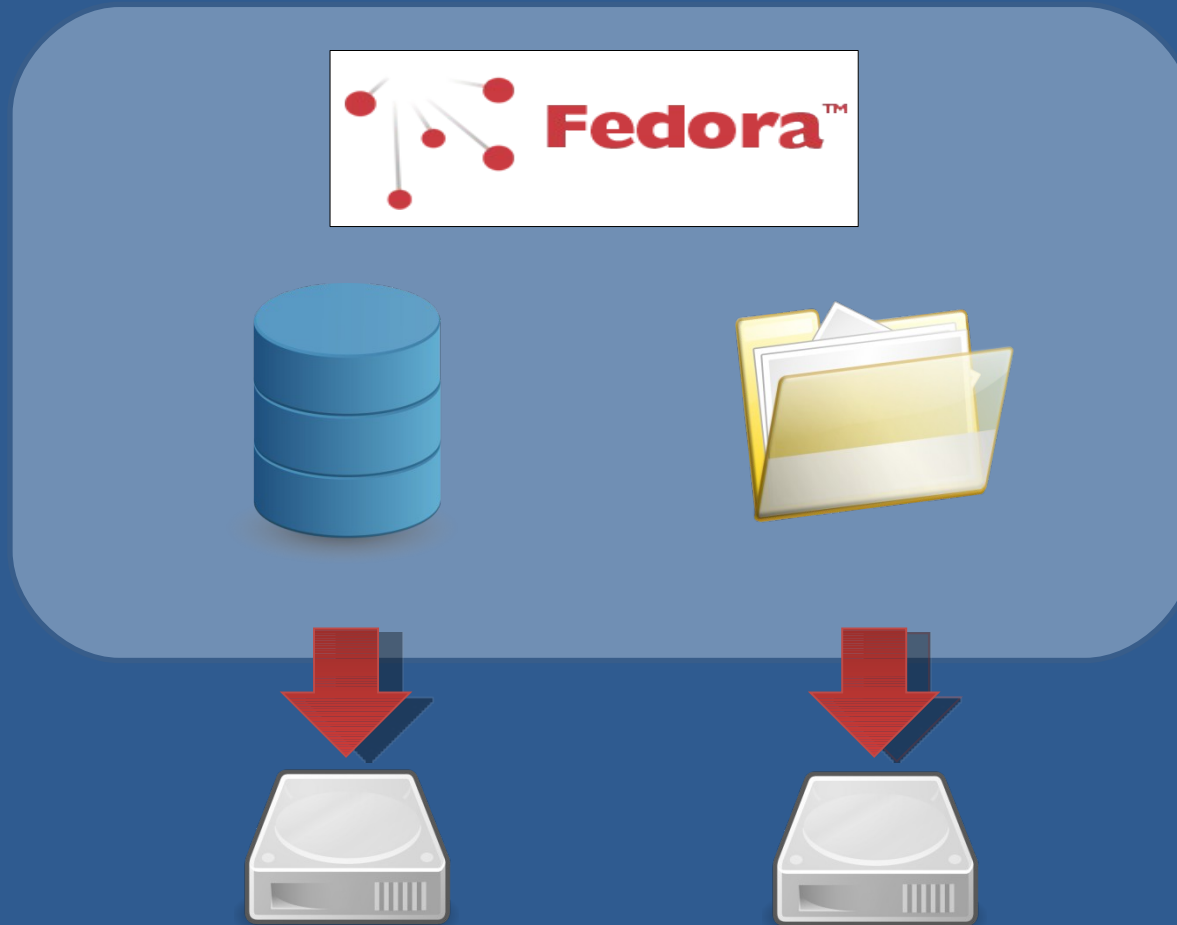
DuraCloud Use Cases: A Snapshot

- Archiving and Preservation of Repository Content
 - Backup (online, off-site)
 - Restore (from cloud to local)
 - Synchronization (between local and cloud)
 - Duplication (between multiple cloud stores)
 - Integrity Checking
- Multimedia Access
 - Image Viewing
 - Media Streaming

DuraCloud Customers Using Fedora

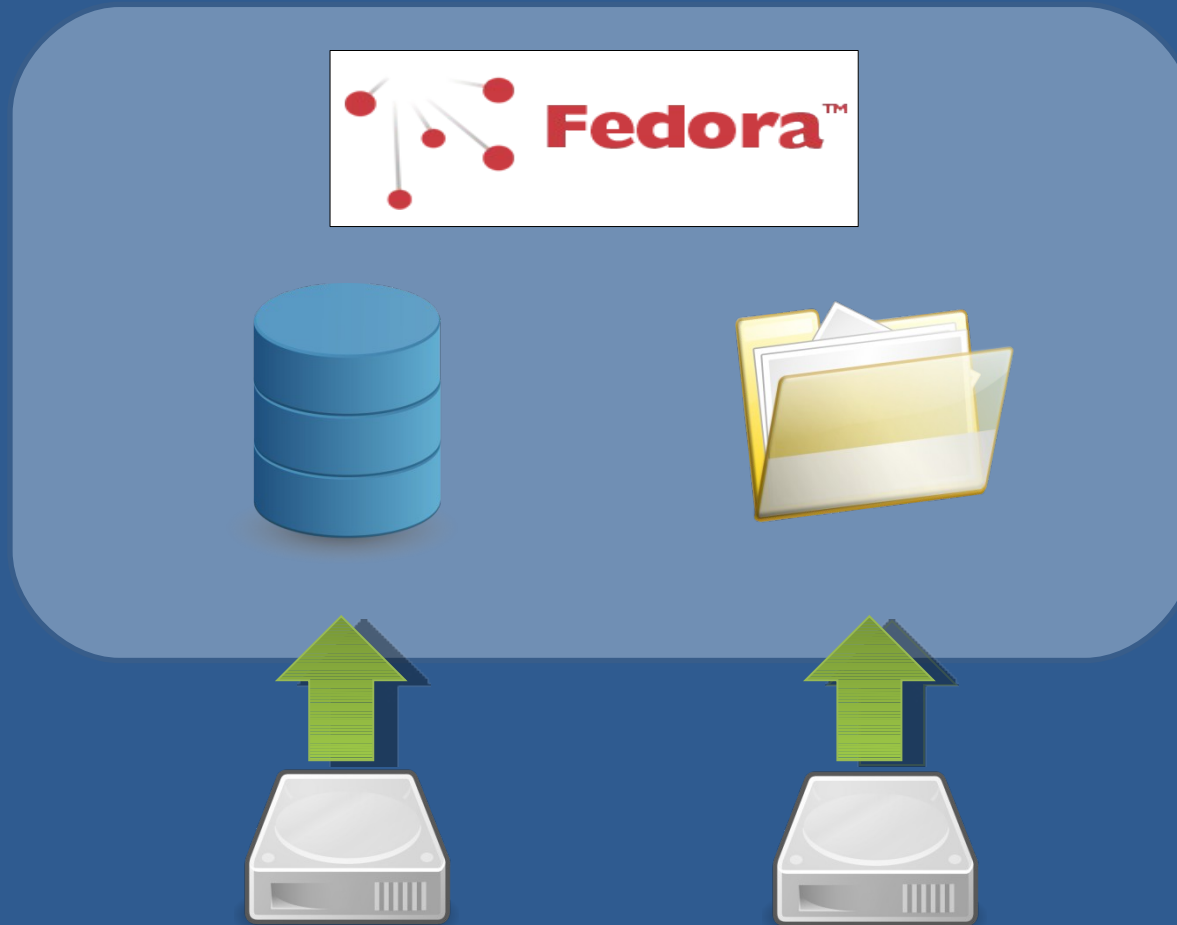
- Colorado Alliance of Research Libraries
- Columbia University
- Discovery Garden
- Hamilton College
- Northwestern University
- University of Prince Edward Island

Typical Fedora Backups



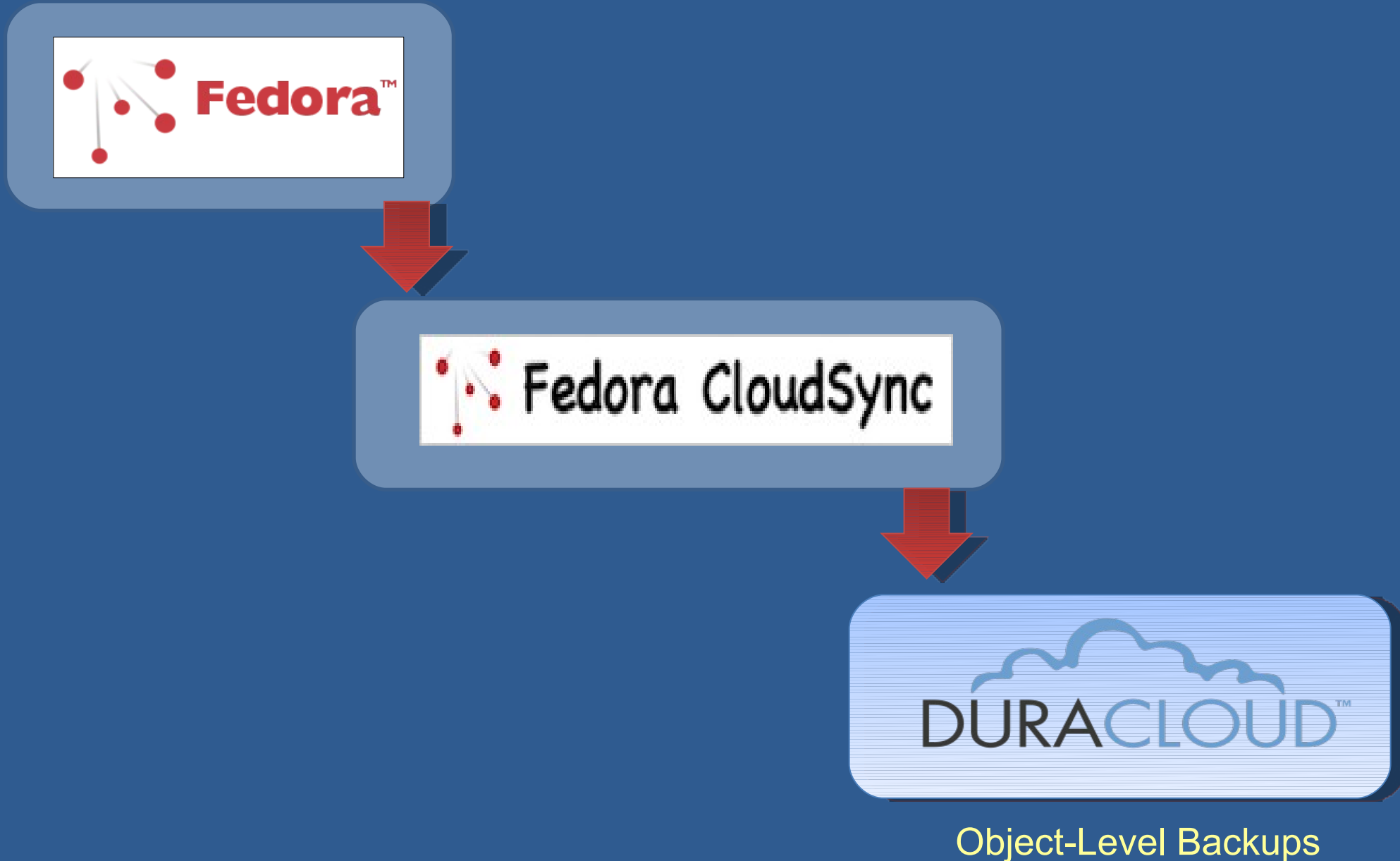
Database & File-Level Backups

Typical Fedora Restores

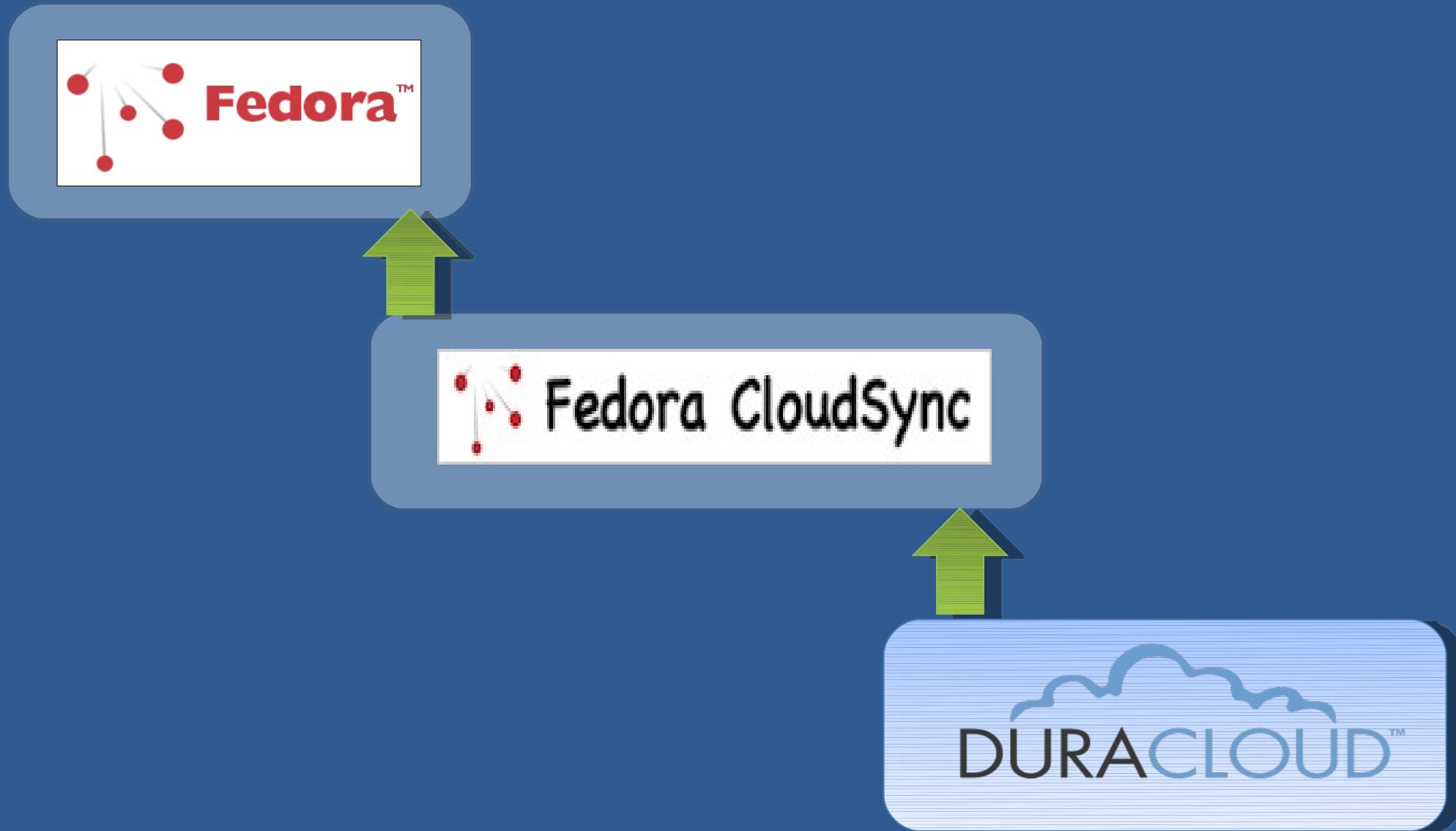


Complete Restores

CloudSync Backups



CloudSync Restores



Selective Restores

Summary

Typical Solution

CloudSync + DuraCloud

Backup
Granularity

❌ All Objects

✅ Any Subset

Restore
Granularity

❌ All Objects

✅ Any Subset

Skill Level

❌ Advanced

✅ Basic

Downtime

❌ Yes

✅ No

Offsite

❌ DIY

✅ Yes

What about Speed?

- With any offsite storage, network bandwidth is a factor.
- In-house approaches can be faster for whole backups and restores (e.g. LVM or ZFS snapshots)
- But consider the entire turnaround and downtime (involving people time, support tickets, etc):
 - For in-house backups
 - For in-house restores

CloudSync Demo

- Live demo will show:
 - Quick Installation
 - Adding a User
 - Stores: Where Fedora data is kept
 - Sets: Objects of interest for a Task
 - Example Tasks:
 - Complete Backup via Copy Task
 - Selective Restore via Copy Task
 - REST API

Jan 2012: CloudSync 1.1

- Copy Externally-Managed Datastreams
- Local Directory-based Stores
- Ability to Edit Sets
- Complete REST API Documentation

Future Ideas

- True “Sync” Task
 - One-way
 - Two-way
- Batch Modify Tasks
 - XSLT
 - Java
 - JRuby/Jython
- DSpace-based Store

More About CloudSync

- Homepage

<https://wiki.duraspace.org/display/CLOUDSYNC>

- Latest Downloads and Documentation

<https://wiki.duraspace.org/display/CLOUDSYNC10>

- Feature Requests & Bug Reports

<https://jira.duraspace.org/browse/CLOUDSYNC>

- Mailing List

<https://groups.google.com/group/fcrepo-cloudsync>

More About DuraCloud

DURACLOUD
Overview Solutions Features Learn More

MY ACCOUNT | DOCUMENTATION | SUPPORT

ONE CLICK TO THE CLOUD: MULTIPLE COPIES, LOCATIONS AND PROVIDERS

Preservation
PRESERVE AND ARCHIVE AS MANY COPIES AS YOU WANT

FIND OUT MORE
TRY IT
SUBSCRIBE **get two months FREE**

DURACLOUD

00:00 00:00

News and Events
Duraspace launches DuraCloud
DuraCloud Direct-to-Researchers
DuraCloud in the News
DuraCloud 1.3 Release
Webinar: Integrating Fedora with DuraCloud

DuraCloud Says
DuraCloud: NOT AVAILABLE
DuraCloud 1.3, file-gated access control over #Cloud content w/ user access improvements <http://t.co/WNXXt9n4>
Repository #DuraCloud

Open Source Community
Why Open Source?
Discussion Forum
Documentation
Issue Tracker
Latest Release

Customer Help and Support
About Us
Contact Us
Cloud Resources
Pricing
Newsletter Sign-Up
Documentation
Help Desk
Cancel Account

DuraCloud is a managed software service that lets organizations archive content across multiple cloud providers and is brought to you by **DURASPACE**

Powered by Fedora, Islandora and Discovery Garden | Licensed under Creative Commons Attribution-Share Alike 3.0 Unported License | Site Map

Web site:
www.duracloud.org

Email:
Carissa Smith, Partner Specialist
csmith@duraspace.org

Introduction to DuraCloud:
www.youtube.com/watch?v=rNB8I2IMQy0

Entire DuraCloud Webinar Series:
www.youtube.com/user/duracloudvideos

Email Carissa if you are interested in a free live DuraCloud demonstration.

Free DuraCloud Trial Accounts

The screenshot shows the DuraCloud website homepage. At the top left is the DuraCloud logo, which consists of a blue cloud icon above the text 'DURACLOUD™'. To the right of the logo are navigation links: 'MY ACCOUNT | DOCUMENTATION | SUPPORT |' followed by social media icons for Twitter and RSS. Below the logo are menu items: 'Overview', 'Solutions', 'Features', and 'Learn More'. A search bar is located to the right of these menu items. The main banner features a background image of a hand holding a magnifying glass over a globe, with a white bird in flight overlaid on the left. The banner text reads: 'ONE CLICK TO THE CLOUD: MULTIPLE COPIES, LOCATIONS AND PROVIDERS' in a light blue box, followed by 'Online back-up' in large blue font, and 'UPLOAD-DOWNLOAD-SYNC CONTENT THROUGH THE WEB' in smaller blue font. Below the banner are three call-to-action buttons: 'FIND OUT MORE', 'TRY IT', and 'SUBSCRIBE', each with a play button icon. A large blue circle is positioned to the right of the 'SUBSCRIBE' button. On the right side of the page is a video player showing the DuraCloud logo with a play button overlay. The video player controls at the bottom show a progress bar and a timestamp of '00:00 00:00'.

Sign up today and get two months of DuraCloud FREE

Photo/Icon Credits

- Hard Drive: http://tango.freedesktop.org/Tango_Desktop_Project
- Folder: <http://www.openclipart.org/detail/13740>
- Database: <http://www.openclipart.org/detail/68413>
- Checkmark & Delete: <http://veryicon.com/icons/system/on-stage/>