



DuraCloud for Dummies

Should I stay or should I go
[to the cloud]?

~Carissa Smith, DuraSpace

Apologies...

- I wish I could sing... but, sadly, I cannot.
- And I like corny jokes/metaphors, too...



Should I stay or should I go [to the cloud] now?

- Advantages of staying/going
 - If you stay:
 - Potentially cheaper per TB
 - “Complete” control
 - If you go:
 - Easily scalable
 - Pay as you go/use
 - Availability of services to run over content

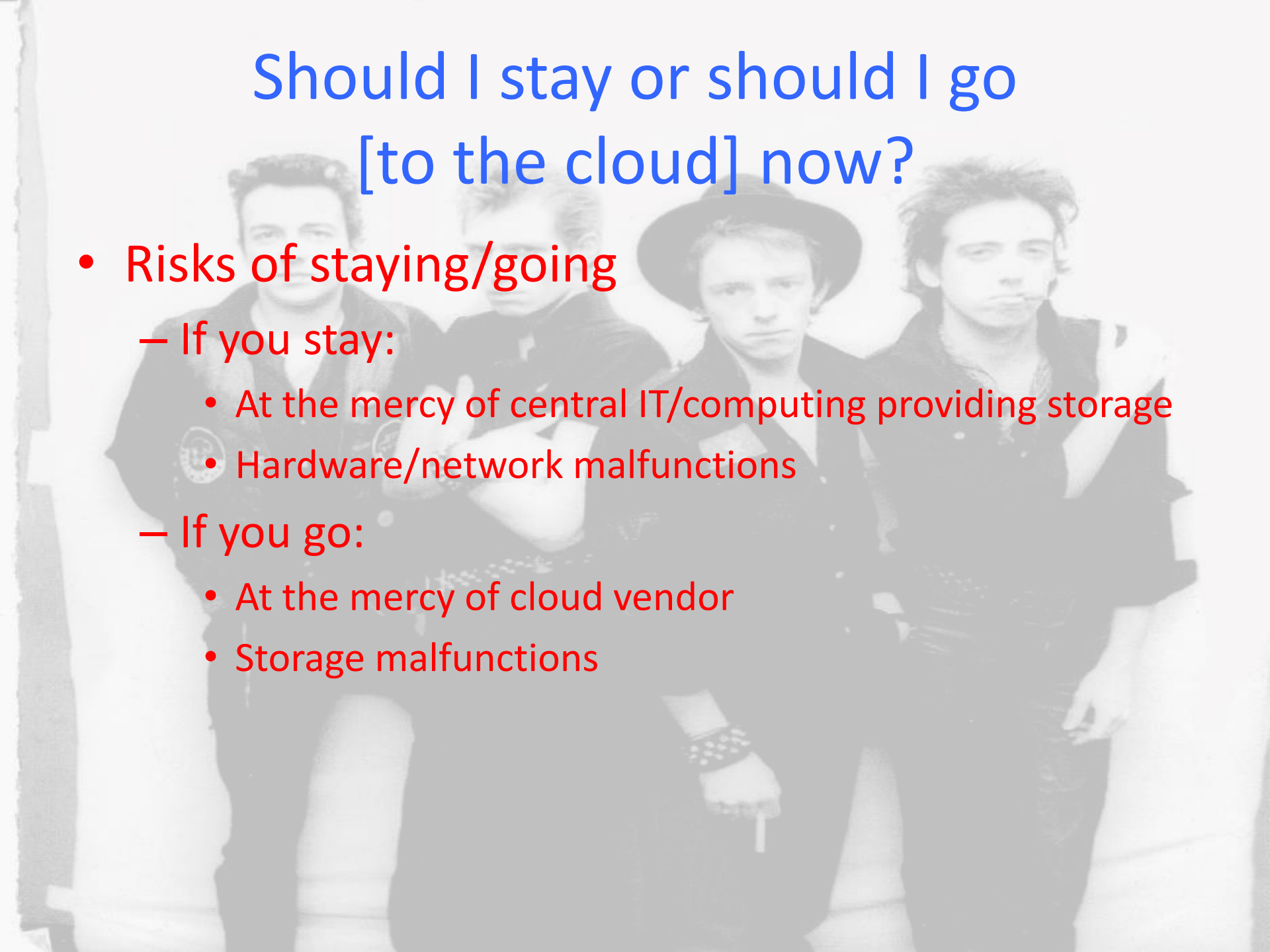


Should I stay or should I go [to the cloud] now?

- Disadvantages of staying/going
 - If you stay:
 - Locked in to hardware choice
 - Expensive/difficult to scale storage up/down
 - If you go:
 - Unknown changes at any time to:
 - Pricing for storage
 - Services offered
 - Location of storage
 - Service level agreement

Should I stay or should I go [to the cloud] now?

- Risks of staying/going
 - If you stay:
 - At the mercy of central IT/computing providing storage
 - Hardware/network malfunctions
 - If you go:
 - At the mercy of cloud vendor
 - Storage malfunctions



What if I stay [a local solution]?

- Things to keep in mind if you decide to stay:
 - How do you provide geographic distribution of backup copies?
 - How do you ensure all copies are kept synchronized?
 - How do you enable quick retrieval and restoration of some/all of your content in event of data loss/recovery scenarios?
 - How do you ensure the health of all copies on an ongoing basis?

What if I go [to the cloud]?

- Things to keep in mind if you decide to go:
 - How do you transfer content to the cloud?
 - How do you determine and implement a local “workflow to the cloud”?
 - How and what preparations need to take place in order for content/collections to be ready for transfer to the cloud?

You gotta let me know how do I get there [to DuraCloud]?

- Upload through the web interface



Login

Username

Password

Login

You gotta let me know how do I get there [to DuraCloud]?

- Synchronization tool



You gotta let me know how do I get there [to DuraCloud]?

- **REST API**



You gotta let me know how do I get there [to DuraCloud]?

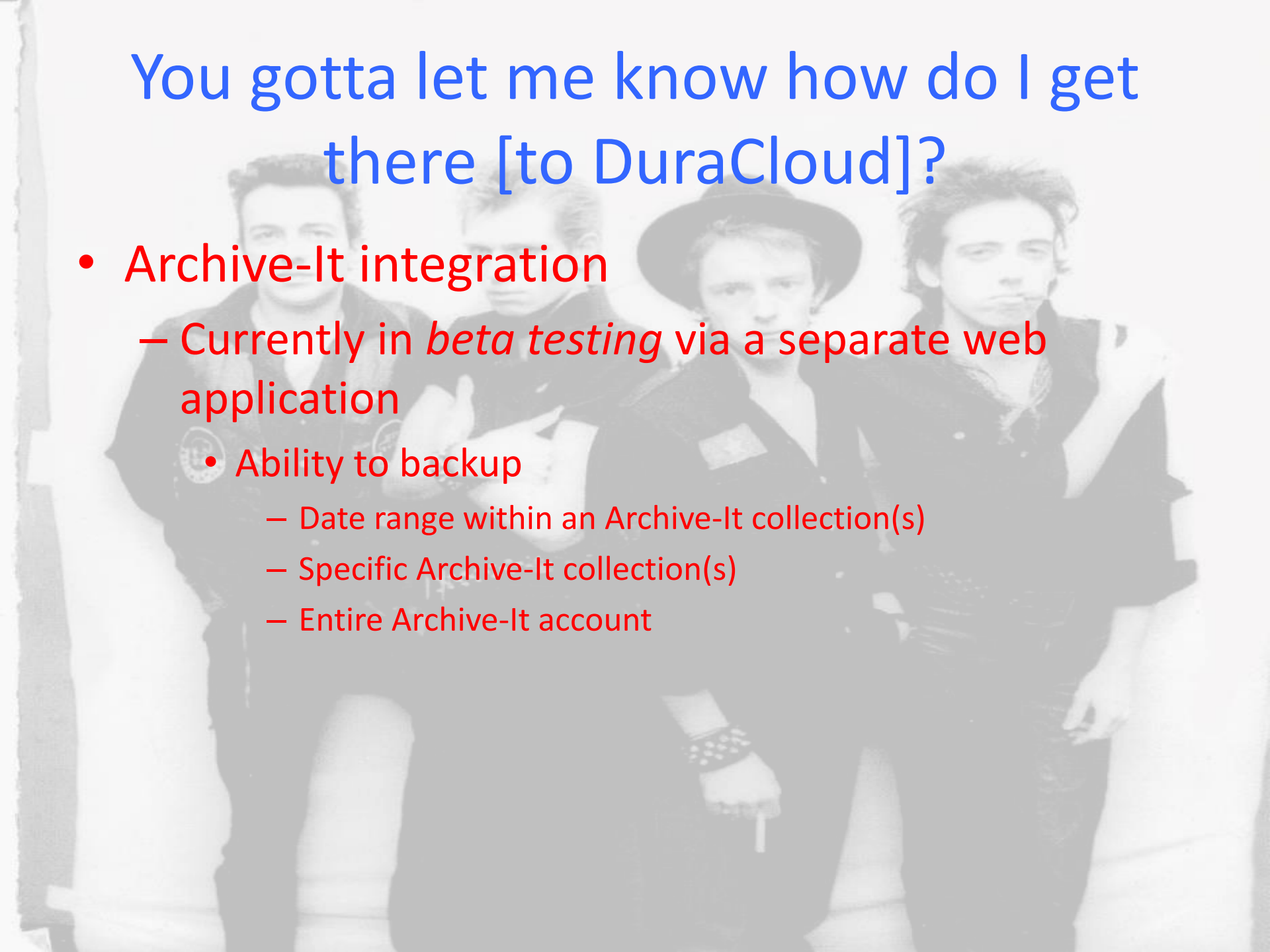
- DSpace integration
 - Via the Replication Task Suite which is embedded in the DSpace administrative user interface
 - Ability to backup/restore:
 - Single items
 - Collections
 - Entire DSpace repository

You gotta let me know how do I get there [to DuraCloud]?

- Fedora integration
 - Via the Cloudfsync which is a separate web application accessible through DuraCloud or downloadable/installable
 - Ability to backup/restore:
 - Objects
 - Subset of Objects (various queries available)
 - Entire Fedora repository

You gotta let me know how do I get there [to DuraCloud]?

- Archive-It integration
 - Currently in *beta testing* via a separate web application
 - Ability to backup
 - Date range within an Archive-It collection(s)
 - Specific Archive-It collection(s)
 - Entire Archive-It account



Always tease, tease, tease [with DuraCloud features]

- Web-based user interface to all content

The screenshot displays the DuraCloud Administrator web interface. At the top left, the DuraCloud logo is visible, along with navigation tabs for 'Spaces' and 'Services'. A 'powered by amazon web services' logo is also present. In the top right corner, there are links for 'Help' and 'Logout', and a placeholder for a user logo with the text 'INSERT your logo here. (replace logo in x-duracloud-admin)'. The main content area is divided into three sections: 'Spaces', 'Content Items', and 'Space Detail'.

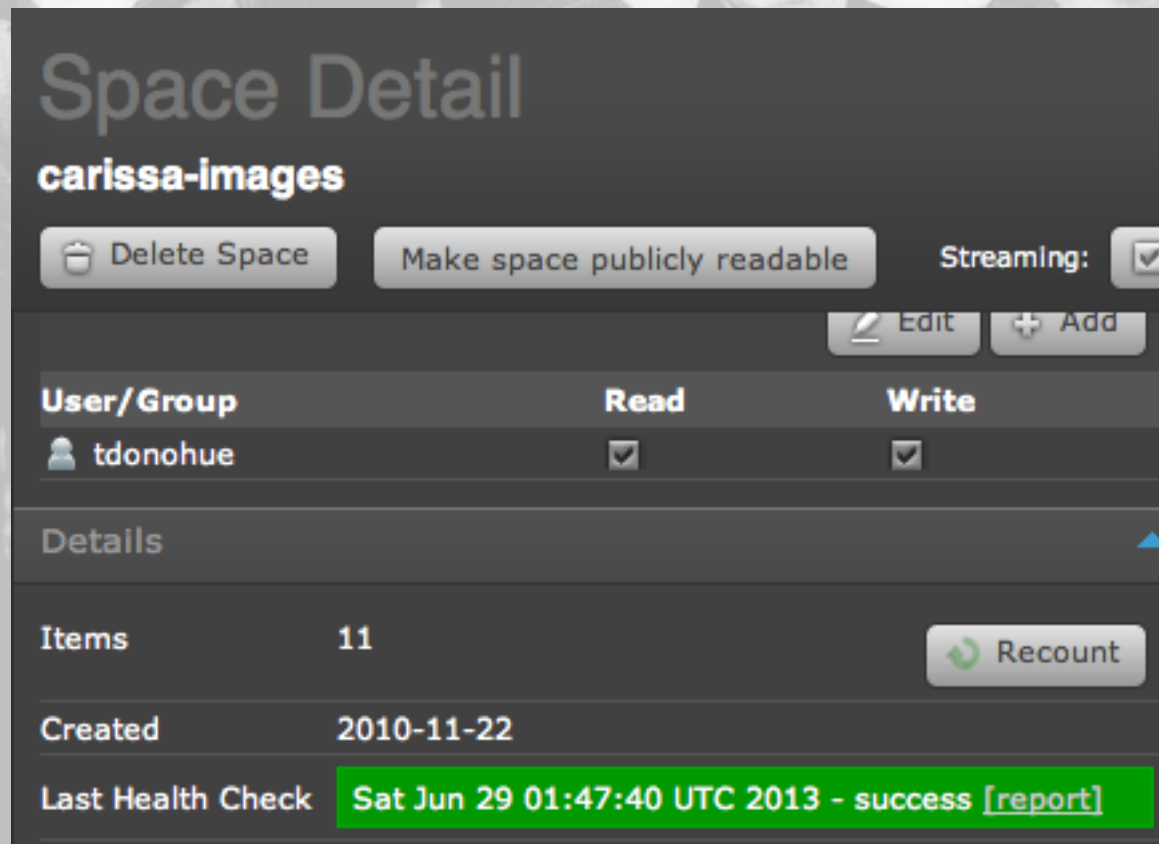
Spaces Section: A list of spaces is shown, with 'carissa-images' selected. The list includes spaces like 'bb-test', 'carissa-folder-test', 'carissa-images', 'carissa-upload-test', 'carissa-uploads', 'carissa-video-test', 'carissa-video-test-viewer', 'cwilper-test', 'db-test', 'educational-test-space', 'michele-content', 'movie-archive', 'photo-archive', and 'noster'.

Content Items Section: A list of 11 items is displayed, including '01485_wintermorning_1280x800.jpg', '02119_deepsilence_1280x800.jpg', '02725_morningmist_1280x800.jpg', 'JaneAusten.gif', 'JaneAustenBiography.gif', 'PrideandPrejudice.gif', 'basket_o_pups.jpg', 'icpsr.txt', 'nested_folder/bostonterrier.jpg', 'standing.jp2', and 'walking.jp2'.

Space Detail Section: The details for the 'carissa-images' space are shown. It includes buttons for 'Delete Space' and 'Make space publicly readable', and a 'Streaming' toggle set to 'On'. The 'Permissions' table shows that the user 'tdonohue' has 'Read' and 'Write' permissions. The 'Details' section shows 11 items, a creation date of 2010-11-22, and a successful health check on Sat Jun 29 01:47:40 UTC 2013.

Always tease, tease, tease [with DuraCloud features]

- Automated health checking




The screenshot shows the 'Space Detail' page for a space named 'carissa-images'. It includes several interactive buttons and a table of permissions. At the bottom, a green bar highlights the 'Last Health Check' status.

Space Detail
carissa-images

Delete Space Make space publicly readable Streaming:

Edit Add

User/Group	Read	Write
 tdonohue	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Details ▲

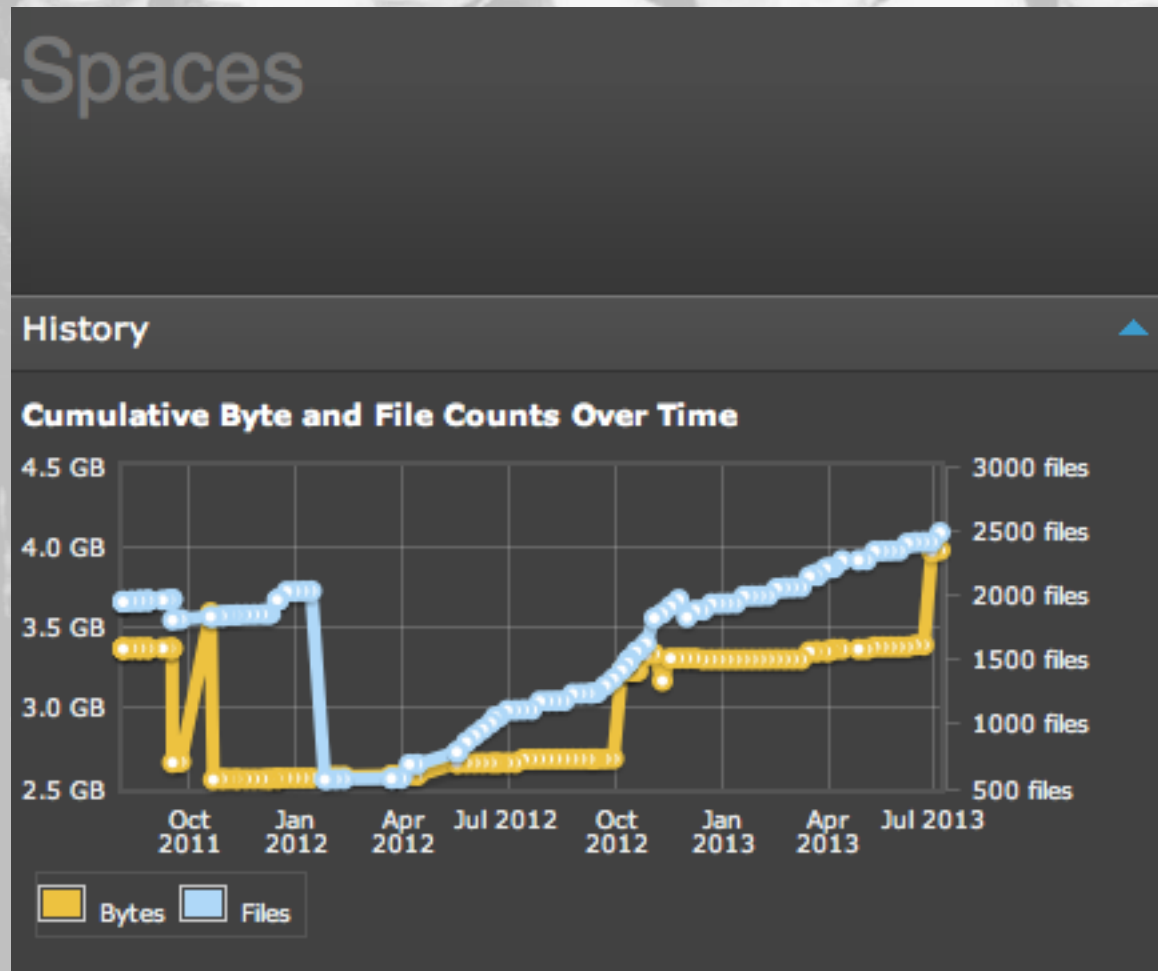
Items 11 [Recount](#)

Created 2010-11-22

Last Health Check **Sat Jun 29 01:47:40 UTC 2013 - success** [\[report\]](#)

Always tease, tease, tease [with DuraCloud features]

- Storage reports



Always tease, tease, tease [with DuraCloud features]

- Media streaming

Content Detail

english-bulldog-watching-tv.mp4

 Mime Type: video/mp4

 Edit  Copy  Download  Delete

Watch



00:04  00:53  

Always tease, tease, tease [with DuraCloud features]

- Automatic synchronization among all cloud storage providers

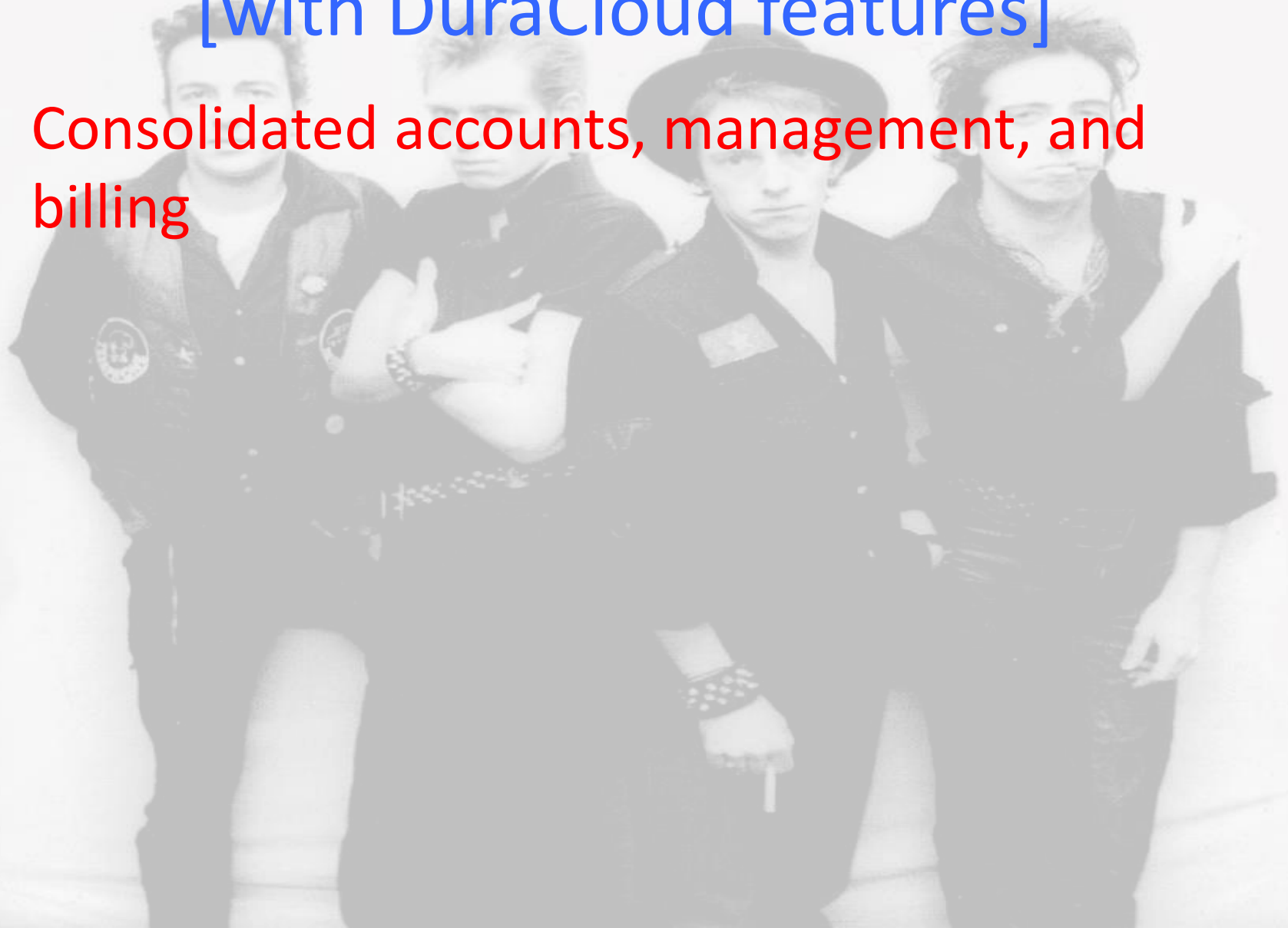
Amazon S3 ▼

SDSC

Rackspace

Always tease, tease, tease [with DuraCloud features]

- Consolidated accounts, management, and billing



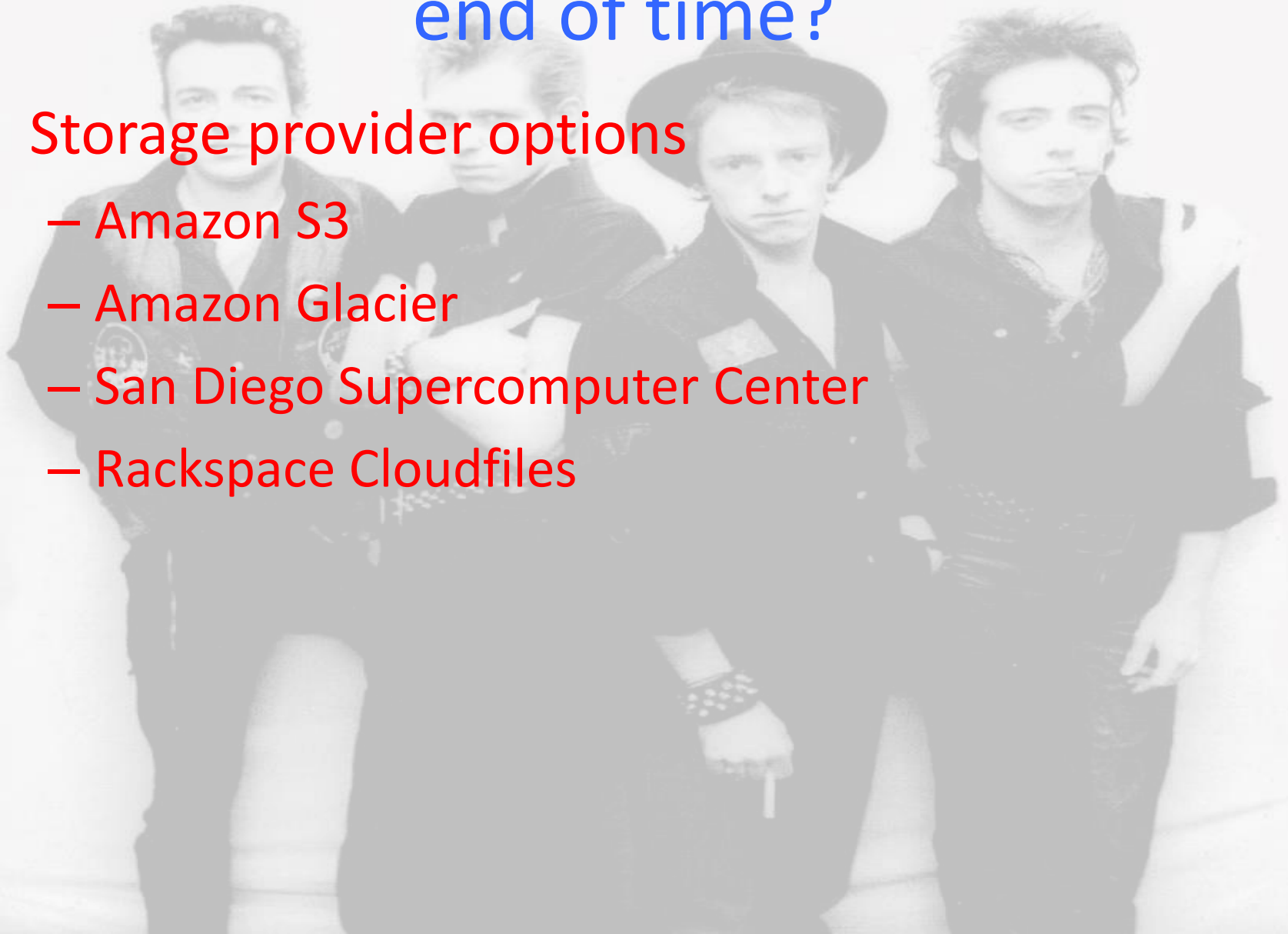
Always tease, tease, tease [with DuraCloud features]

- Superior customer support



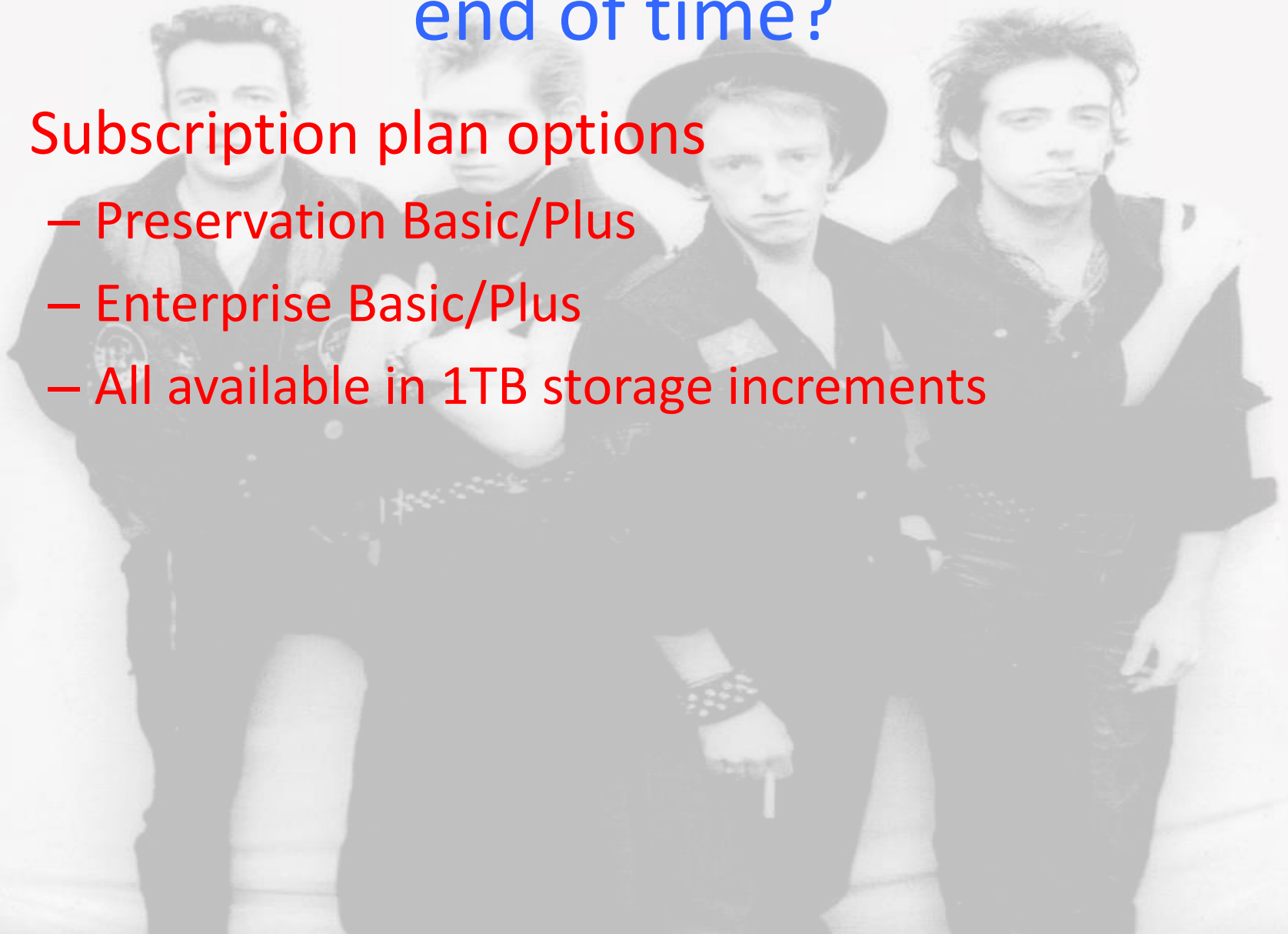
What if I'm scared to commit til the end of time?

- Storage provider options
 - Amazon S3
 - Amazon Glacier
 - San Diego Supercomputer Center
 - Rackspace Cloudfiles



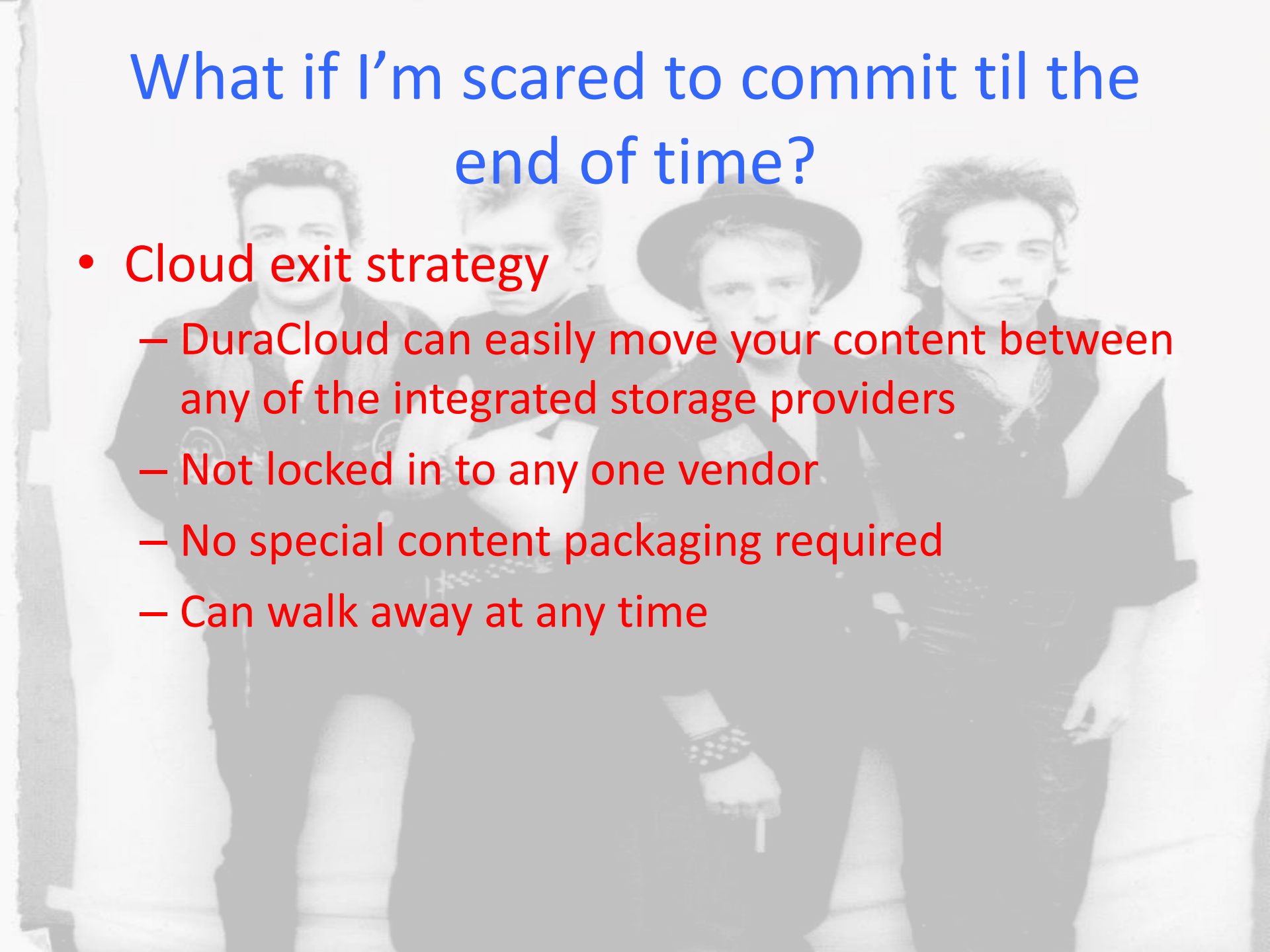
What if I'm scared to commit til the end of time?

- **Subscription plan options**
 - Preservation Basic/Plus
 - Enterprise Basic/Plus
 - All available in 1TB storage increments



What if I'm scared to commit til the end of time?

- Cloud exit strategy
 - DuraCloud can easily move your content between any of the integrated storage providers
 - Not locked in to any one vendor
 - No special content packaging required
 - Can walk away at any time



Not Convinced?

- Not a problem.
- Get started with a free DuraCloud trial TODAY.

More information:

1. <http://duracloud.org>
2. csmith@duraspace.org
3. <http://youtube.com/user/duracloudvideos>

HOME ABOUT CONTACT MY ACCOUNT DOCUMENTATION SUPPORT

DURA CLOUD™

Overview Solutions Features Learn More

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

Online back-up

UPLOAD-DOWNLOAD-SYNC CONTENT THROUGH THE WEB

- ▶ NO WAITING: TRY IT NOW
 - ▶ FIND OUT MORE
- ▶ PURCHASE
 - ▶ **NEW** LOW-COST STORAGE

VISIT SPECTRUM OF DURACLOUD USE CASES

See comparisons of costs vs benefits
Find a use case similar to your institution
Look at simple vs robust use cases