

Best Practices for Hosted Data

Learning Goals

- ▶ Understand your “data universe” and treat it as such
- ▶ Appreciate the need for a complete and sustainable backup process
- ▶ Know the measures to avoid losing access to data
- ▶ Awareness of data migration options
- ▶ Consider privacy: honor “theirs”, assert “yours”

5 Single-Word Notions about Data

- ▶ **Unity:** Know your data universe and treat it as such
- ▶ **Redundancy:** Have a complete and sustainable backup process
- ▶ **Control:** Take steps to avoid losing access
- ▶ **Portability:** Confirm your migration options in advance
- ▶ **Privacy:** Honor “theirs”, assert “yours”

Unity

- ▶ What lies at the center of your organization's technology world view?
 - Nonprofits tend to have a technology-centric view of information technology
 - It is much more appropriate and sustainable to have an information-centric world view
 - Well-maintained data will outlive specific tools
 - Technology is just a vessel for storing data

Unity

- ▶ Do you know where all your digital data is?
 - Remote data stores
 - CRM, eAdvocacy, web content, mailing lists
 - Web mail, Google Apps, Flickr, YouTube, blogs, Basecamp, Facebook/MySpace, etc.
 - Local data stores
 - Staff machines and laptops
 - File servers
 - Media – disks, thumb drives, Cds/DVDs, backup tapes
 - Cell phones and hand-held gizmos

Unity

► What to do?

- Establish and maintain a data inventory
 - What is each asset?
 - Where is it?
 - How is it accessed, and who has access/control?
 - What software is needed/available to access it?
 - Is it sensitive? Are there privacy implications?
- Have a process for updating the inventory as you create new information assets
 - Especially for hosted data

Redundancy

- ▶ Have a consistent, comprehensive backup process
 - Link your process to your data inventory
 - Archive hosted data to local backups
 - Archive local backups to off-site locations
 - Automate the process wherever possible
- ▶ Verify your backups are actually usable
 - Use multiple media types (optical vs magnetic)
 - Do test restores

Redundancy

- ▶ Three critical questions to ask
 - If your nonprofit workplace burned to the ground, is all your data safe and accessible elsewhere?
 - If one of your hosted services goes offline, do you have everything you need to migrate to a new service?
 - Are there any “single points of failure” in your organizational data map?

Control

- ▶ As an organization, you should have access to and control of your data
 - Externally, will each hosting service let you export your data on demand in a usable format?
 - Have you read the fine print on the license?
 - Internally, who has access to each data source/data asset?
 - Are there checks and balances?
 - What happens if they get hit by a bus?

Control

- ▶ Passwords are the keys to your data
 - Have an organizational password policy
 - Per data asset
 - Distinguish “strategic” data from “non-strategic”
 - Have passwords on all machines
 - Verify that you can do password recovery
 - Use aliases rather than individual email addresses for hosted account contact information
 - Change your passwords on a regular basis!
 - Whenever there is staff turnover

Control

- ▶ Beware “Free” accounts!
 - You have no control!
 - YAHOO Groups, Google everything, Flickr, etc
 - Avoid free account “sprawl”
- ▶ Free accounts can disappear any time
 - Beware the accidental and the insidious
 - If you depend on the service, pay the fee
- ▶ Make sure hosted documents and data get archived locally

Portability

- ▶ Data is your digital power
 - Your ability to migrate that data is crucial to your long-term effectiveness
 - Discuss migration options before signing on to any service
 - Verify vendor claims, via references or “by hand”
 - Insist on open data standards
 - CSV (comma separated values) is better than nothing
 - Open APIs are a great plus

Privacy

▶ “Their” Privacy

- Your data represents an implicit trust relationship with your network – breaches violate that trust
 - Donors, supporters, allies, staff, etc
- Have a privacy policy for all types of data
 - Follow it. Really.
 - Always consider physical security issues
- Know the privacy policy for your hosted data
 - Where is it physically stored, under what jurisdiction?
 - Think triple-hard about whether to put sensitive data on corporate servers

Privacy

▶ “Your” privacy

- Assert your expectation of privacy in all matters
 - Use secure communications, especially over wireless
 - Encrypt sensitive data (even remotely if possible)
- Some hosted services are presumed to implicitly waive your expectation of privacy
 - GMail
- Consider the implications of your non-private data practices

Summary - The 5 Concepts

▶ Unity

- Know your data universe and treat it as such

▶ Redundancy

- Have a complete and sustainable backup process

▶ Control

- Take the steps to avoid losing access

▶ Portability

- Confirm your migration options in advance

▶ Privacy

- Honor “theirs”, assert “yours”