



# Security Policies / Cloud Storage

Eric Mencer

Network & Server Operations Manager

[Mencer@wju.edu](mailto:Mencer@wju.edu)



# Storage Choices: Local Drive

- Easy access
- Quick access
- Lots of access
  
- Limited accessibility
- Data loss possibilities
  - Laptops



# Storage Choices: Portable Drive

- Easy / Quick / Lots
- Improved accessibility
- Small footprint
  
- Lost / Stolen



# Storage Choices: Server Drive

- Easy / Quick / Lots
- Improved accessibility
- IT
  - Permissions
  - Data protection
    - RAID
    - Backup / Restore



# Storage Choices: SAN/NAS

- Server Drive benefits
  - Multiple connections
- IT
  - Protecting
  - Backing up



# IT Policies: Our Stuff

- It's right there.
  - Network connection
  - Hard drive
  - Password policy
  - Backup policy
  - Data Security policy



# Storage Choices: Public Cloud

- Easy access
- Quick access
- Lots of access
- Permissions
  - Password entered when?
- Protection
  - Backup?
- Folder synchronization
  - Location of 'local' copy



# Security: Public Cloud

- [Computerworld.com \(Dropbox\)](#)
- [Technewsdaily.com \(Dropbox\)](#)





# IT Policies: Data Security

- Confidential
  - FERPA
  - HIPAA
- Internal Use Only
  - Budgets
  - Memos
- Public
  - News Releases
  - Marketing



# IT Policies: Backup Policy

- Full system backups (weekly/monthly)
  - Restore system
  - Unintentional / Intentional deletion
- Duration of storage
- Rotation of media
- Off-site location



# Our Data: Where is it?

- Dropbox/Skydrive/GoogleDrive etc.
  - Office: Windows 7 Pro
    - Domain Login / Screen Lock / Patched
    - (Local drive / Server-Network drive)
  - Home: Windows XP
    - Family computer
    - WU: 80070424
  - Cell phone:
    - Lost 1 week ago
  - Tablet
    - Kids use every night



# Our Data: Who has it?

- Service provider
  - Not liable for lost, stolen information
- Data Recovery
  - For them; Not us
- Data center locations
  - Country, Continent, Hemisphere



# IT Policies: BYOD

- Discoverable
- Search and Seizure
  - Employee is giving up certain rights
- Loss of personal data
- Shared use
- Device upgrade / replacement



# IT Policies: BYOD

- Specify devices
- Security policy
  - No more swipe and open
- Support
- Ownership of app/data (remote wipe)
- Employee exit



# Cloud Storage

- Benefits
  - Not in Data Center
- Liabilities
  - Not in Data Center



# IT Policies

- Policy making
  - Exec buy in
- Policy updating
  - Versions from 2008, 2005, 2002
- Educate the users
  - Often