

Cloud Storage

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What is Storage?

- ▶ A place – a repository – to store files, music, video, data
- ▶ Traditionally, a mix of media types
 - Tape
 - Diskette
 - Spinning Disk
 - USB Drives
 - Solid State Disk
- ▶ Residing inside or close by your computer
 - Connected by a cable or other electrical interface

What is the Cloud?

- ▶ Light & Fluffy?
- ▶ Dark & Gloomy?



What is the Cloud?

- ▶ The Internet
- ▶ Services on the Internet
- ▶ Storage on the Internet
- ▶ Accessible from anywhere

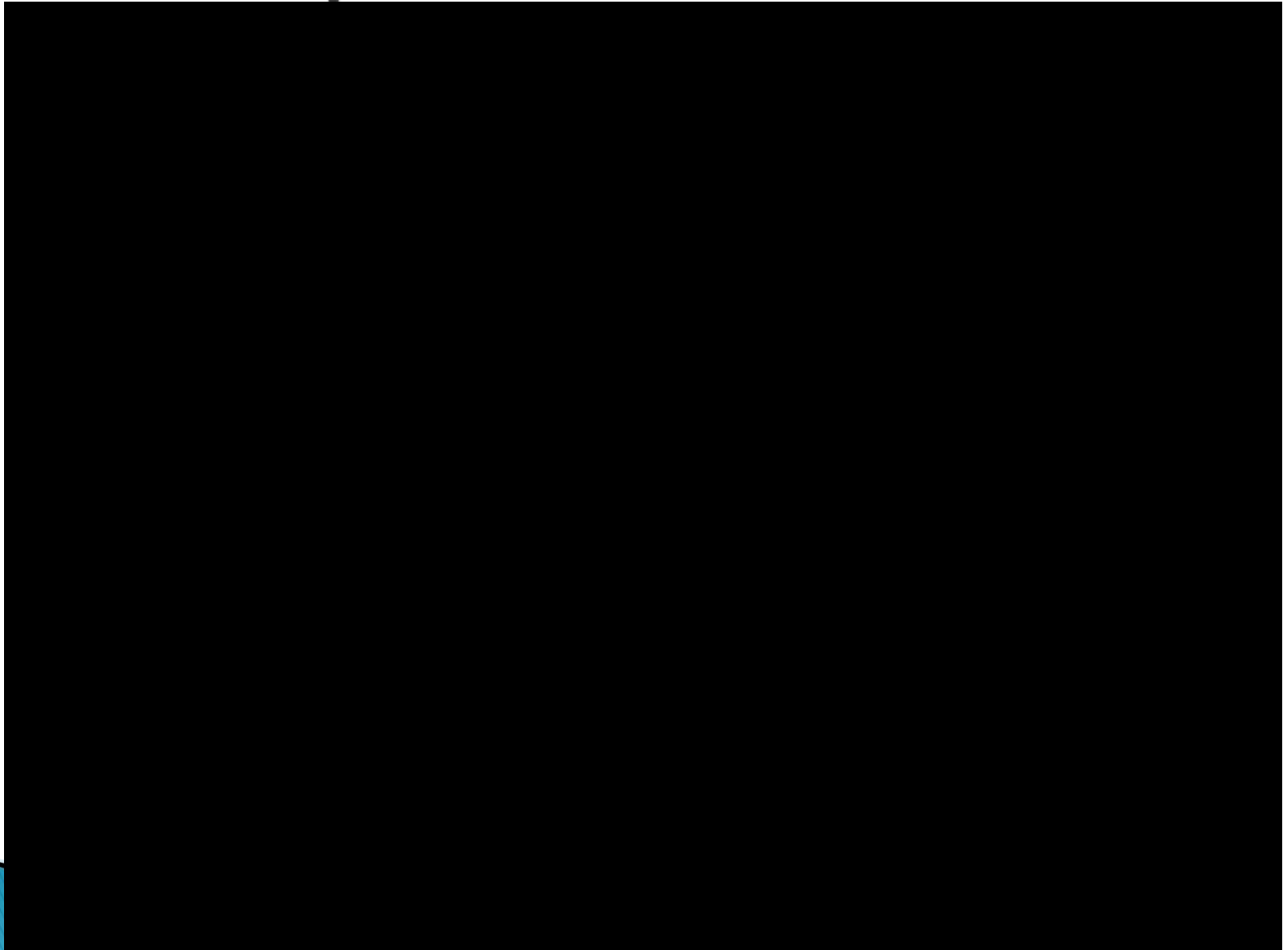


What is Cloud Storage?

- ▶ Storage services in the cloud
 - ▶ Accessible from anywhere
 - ▶ Generally, Safe & Secure
 - ▶ But speed may be an issue
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- ▶ First introduced by DropBox in 2008

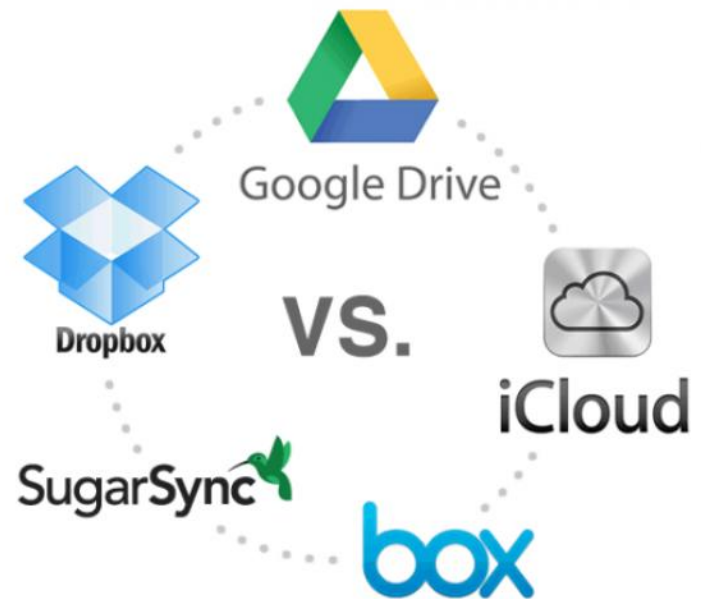


First Dropbox Presentation

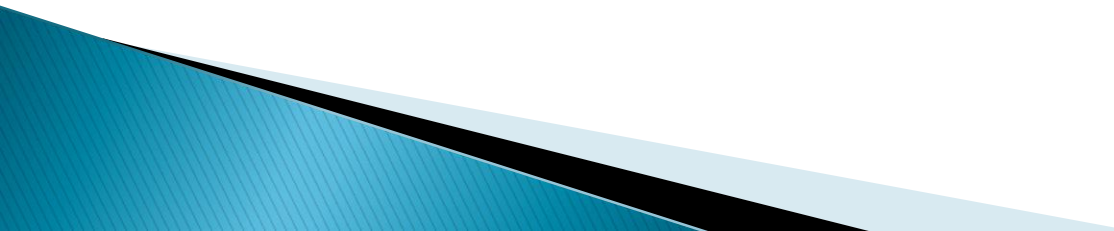


Who Does Cloud Storage

- ▶ All the big names
 - Google, Microsoft, Apple
- ▶ And lots of others
 - Dropbox
 - SugarSync
 - HP
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What Are Common Features

- ▶ Encryption
 - ▶ Multi-platform
 - ▶ Ease of Access
 - Virtual Drive, Folders, Browser, Apps
 - ▶ Sharing
 - ▶ File Versioning
 - ▶ Some free storage
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Encryption

- ▶ Data is (generally) encrypted as it is transmitted and as it is stored
 - But do you trust your provider? They can see your data.
 - Read the Terms of Service
- ▶ Solution: Encrypt your data before you send it.
 - But this adds complexity
 - It may get in the way

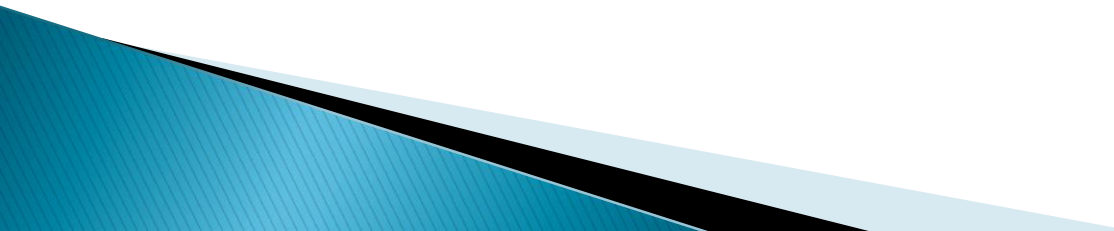
Multi-Platform

- ▶ Most services have apps and services that work equally well (or poorly) on all platforms:
 - Android
 - Apple (IOS & MAC)
 - Windows
- ▶ But iCloud works much better on Apple and not very well on Android and Windows (if at all).

Ease of Access

- ▶ APPs
 - For your phone or tablet to provide access
- ▶ Browser
- ▶ Virtual Drive (desktop app)
 - The I:\ drive
- ▶ Sync Folder(s)
 - Data placed in the folder magically appears on the cloud storage

Sharing

- ▶ Share some or all of your data
 - ▶ Share folders (and all of their contents)
 - ▶ Share individual files
 - ▶ Share with Family, Friends, or everybody
 - ▶ Share via Policy or Share via a link
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File Versioning

- ▶ Quickly and Easily go back to an older version of a file

Specialized Cloud Storage

- ▶ Backup your device
 - Carbonite
 - Mozy
 - Apple iDrive
- ▶ Backup & share your photos
 - Flickr
 - Picassa
 - Facebook

Free Storage

- ▶ All the services will start you out with some amount of free storage
- ▶ Typically 2 GB to 15 GB for free
 - Dropbox – 2 GB
 - Apple iCloud – 5 GB
 - Microsoft One Drive – 15 GB
 - Google Drive – 15 GB

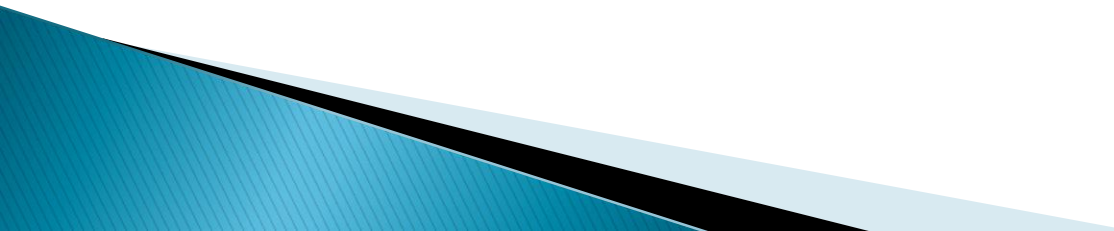
And Not So Free

- ▶ You pay for additional storage
 - Typically in 100GB and 1TB options
 - Look for sales
- ▶ More free storage can be obtained
 - Getting friends to sign up
 - Automatically uploading your photos
 - Promotions with hardware solutions
 - Buy a Samsung Phone – get 100 GB of OneDrive
 - (For two years)

Why Use It

- ▶ **Safe & In the Cloud**
 - So it's a good backup
- ▶ **Facilitates sharing**
 - Between your own devices
 - Wherever you are
 - Between friends and family
 - No more having to send 50 MB files in email (if you could do that in the first place)
- ▶ **It's backed up**

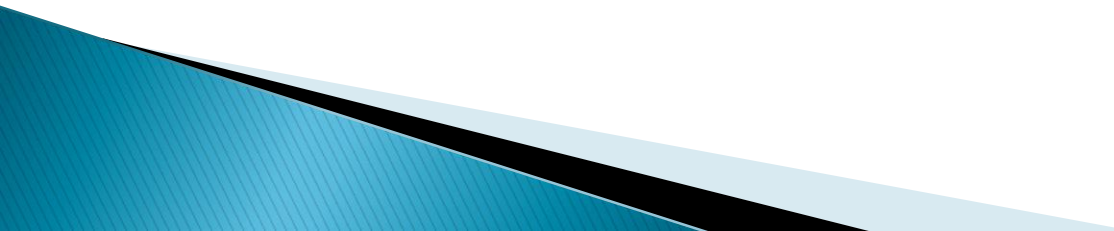
But

- ▶ Privacy Concerns
 - ▶ Internet not always available
 - ▶ Speed is slower than local storage
 - Depends in part on internet connection
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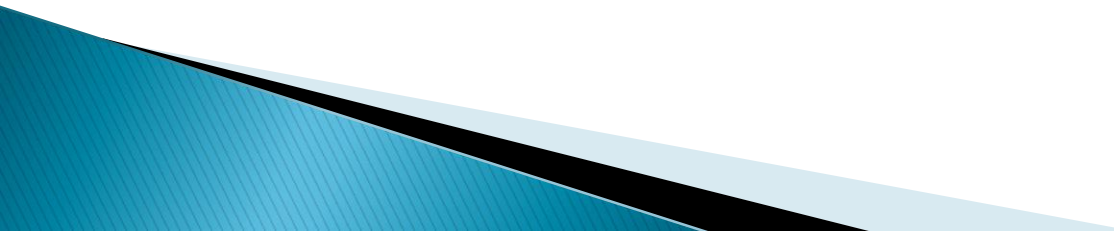
Google Drive

- ▶ Free Storage: 15 GB
- ▶ Cost of 1TB / yr : \$119.88
- ▶ Max file size: 5 TB
- ▶ Gotcha's: It's Google
- ▶ Extras: Unlimited photo uploads that don't count against storage limits if restricted to "screen size"
- ▶ Integrates very well with Google Docs
- ▶ 100 GB (extra) if you have Chrome Book

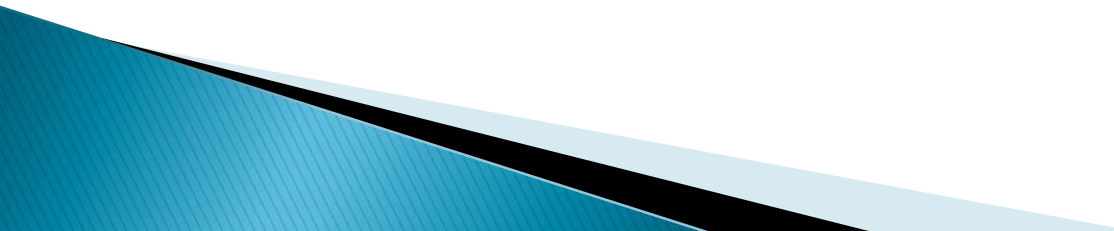
Microsoft One Drive

- ▶ Free Storage: 15 GB
 - ▶ Cost of 1TB / yr: \$83.88
 - ▶ Max file size: 10 GB
 - ▶ Gotcha's: User Interface bland
 - ▶ Extras: 1TB of free storage with Office 365 subscription. Integrates well with Windows and Office
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Apple iCloud Drive

- ▶ Free Storage: 5 GB
 - ▶ Cost of 1TB / yr: \$239.88
 - ▶ Max file size: 15 GB
 - ▶ Gotcha's: Very Apple centric – no Android app
 - ▶ Extras: Baked into iPhone & Mac
 - ▶ Not to be confused with iDrive
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DropBox

- ▶ Free Storage: 2 GB
 - ▶ Cost of 1TB / yr: \$99
 - ▶ Max file size: 10 GB
 - ▶ Gotcha's: None really
 - ▶ Extras: Often run specials like the 50GB add-on for Samsung phone owners (for two years)
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Is That All There Is?

- ▶ There are other services not discussed here as they tend to be specialized or not well known.
 - ▶ Some services like Carbonite or Mozy are specialized as backup products and not general cloud storage.
 - ▶ Services change regularly, features are added or deleted; Pricing changes
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