

Online Backup



Area 2 Computers and Technology Group

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Basic Types of Cloud Services

Online Storage Services are similar to a blank Hard Drive

- You must manually upload and download files
- No scheduling or incremental uploads

Backup Services allow you to schedule backups and to perform incremental backups.

- Many allow you to store and recover recent versions
- Most try to make things automatic

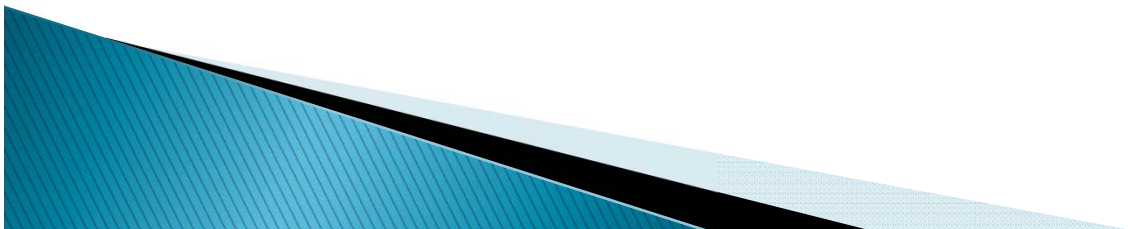
Synchronization is a combination of Storage and Backup

- Files are stored in cloud and downloaded to multiple computers.
- When file is changed on one device, it is changed on all devices.
- Great way to access and edit files from different computers.
- Good way to share files that are too large to email.



Two Types of Backup

- **Drive Imaging**
- **Selected File Backups**



Drive Imaging

- Backs up a complete hard drive or partition
- Backs up the Operating System and all Programs
- Backs up all of your data files, pictures, music, etc.
- Some software allows you to make incremental images.
- Not many people backup the OS or Programs. If computer crashes, you have CD's to restore them



Drive Imaging

- Requires a lot of space on destination hard drive
- Allows you to quickly restore your Operating System and Programs in case of disk failure
- Most online services do not offer Drive Imaging
- Windows 7 includes Drive Imaging software, but no incremental backups (each image is complete size.)
- Popular programs for Drive Imaging are Acronis TrueImage, Norton Ghost and Paragon



Data File Backup

- Data file backup programs are everywhere.
 - Download free software programs
 - Windows 7 has backup software included
 - External hard drives come with backup software
 - Purchase Acronis TrueImage or other proprietary programs with special features.



Data File Backup

What are the Primary Problems with Data File Backups?

- Select which files to backup – Need to know where all of your data is stored on the computer.
 - Documents, Pictures, Music, Videos, Email, Contacts, Browser Bookmarks, etc.
- Remember to backup regularly.
- Need software that only backs up changed files (incremental)
- Be able to recover a file or an *earlier version* easily.
- You are not protected if a file is created and lost between backups.

Storage Media for Backing Up Data Files

Media	Disadvantages	Advantages
Burn backups to DVD's	Slow and cumbersome. Takes multiple DVD's.	Good permanent record of dated file images
Backup to an external hard drive	If fire or other disaster, everything is lost	Fairly simple and low cost. Easy to recover files.
Backup to an online service	Costs money.	Easy to setup and works automatically. Easy to recover files.

Popular Online Backup Services (alpha sequence)

Online Backup Service	Stated Price	Price for 3 PCs and 50GB Data for 1 Year	Free Plan
Acronis Online	\$50/year	\$50	2GB 30-day trial
Carbonite	\$59/year/1 PC	\$177	15-day trial
CrashPlan	\$50/yr/1 PC unlimited	\$120	30 day, free to backup to a friend's computer
IDrive	\$49.50/year/150GB/1 PC	\$149.50	5GB free account
Jungle Disk	\$3/month plus storage fees	\$81	None.
KineticD	\$2/GB/unlimited PCs	\$100	14-day trial
MiMedia	\$99/year/100GB/Unlimited PCs	\$99	7GB free account
MozyHome	\$5.99/mo/50GB/1 PC	\$119.88	2GB free account
Nomadesk	\$75/year/unlimited/3 PCs	\$75 (subject to fair use policy)	30-day free trial
Norton Online Backup	\$50/25GB/5 PCs	\$100	30-day 5GB trial
SOS Online Backup	\$79.95/year/5 PCs	\$79.95	14-day trial

Online Backup Services have Similar Features

- You select which files (folders) are to be backed up
- You setup a backup frequency (can be continuous.)
- Online Company uploads incremental backups (changed files or folders)
- Online Company keeps some dated versions for retrieval.
- Varying levels of encryption security.
- Files can be accessed from any computer on the internet.



Features of Selected Cloud Backup Services

Acronis Online

- Integrates with Disk Imaging to external drive
- Up to 5 PC's
- Storage up to 250GB
- Version sets stored for 45 days.
- Pricing is \$5/month or \$50 per year
- Free trial for 30 days
- Interface takes some time to figure out.



Features of Selected Cloud Backup Services

Carbonite

- Unlimited Storage.
- Version sets stored for 90 days.
- Pricing is \$59/year per computer.
- For \$99/year allows a System Image Backup online
- Free trial for 15 days



Features of Selected Cloud Backup Services

Mozy

- Scheduled backups of all types of files.
- Keeps all file versions for 30 days
- Pricing is \$5.99 for 50GB
- Can access files from anywhere, even on smartphones
- Free trial for 15 days



Features of Selected Cloud Backup Services

CrashPlan

- Free service to backup to external drive or to another computer.
- Pricing is \$50/year for unlimited online
- Pricing is for 1 computer only
- Can access files from anywhere with internet access



Popular Free Cloud Storage and Synchronization

Google Docs

- Gives you 1 GB but files converted to Google format don't count. (Free storage can be extremely large if Doc, Excel & PPT files converted to Google's format.)
- Picasa Web gives you another 1 GB for photos but smaller files don't count.
- Easy to use. All you need is a Gmail username and password.
- Easily share files and pictures with others.
- Add-in for MS Office let's you upload to Google Docs with a single click.
- You can view documents when offline.

Popular Free Cloud Storage and Synchronization

Dropbox

- Everyone's favorite tool for sharing and synchronizing files.
- Offers 2GB of free online storage
- Synchronizes files across multiple computers and platforms, Windows, Mac, iPhone, etc.
- Easy to share large files and pictures with others.
- Company is now valued at \$1 Billion



Popular Free Cloud Storage and Synchronization

Microsoft SkyDrive

- Offers 25GB of free online storage
- Offers 5GB of Synchronized storage
- Download Windows Live Mesh to install on computer
- Interface is a little difficult but product is quite good.
- Good way to share files with others.



Popular Free Cloud Storage and Synchronization

iCloud

- Synchronization of selected apps and file storage
- Apple gives you 5GB free. Content purchased from Apple doesn't count toward limit.
- Replaces current MobileMe software
- Only works with iOS5 devices. (My 2nd gen iPod Touch won't work)



Free Online Storage Only

Adrive

- Offers 50GB of free online storage
- No synchronization or version sets in free accounts
- Don't know about it's financial status



What is My Personal Backup Strategy?

- I have two external hard drives.
- I do a complete system image once a month and then incremental backups weekly. (I use Acronis TrueImage)
- I rotate backups between the two hard drives so that the prior month is always intact.
- Once each year I copy all of my photos and most valuable document files onto a portable hard drive and keep it at my daughter's house.
- I am now working with Google Docs and Windows SkyDrive to synchronize data with my laptop.

