



ALL ABOUT THE CLOUD

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Agenda

- What is the “Cloud? “
- Why use the Cloud
- Popular Cloud Services
- Demonstration



What is the “Cloud”

- The types of “storage” available:

1. Local Storage – saving files on your computer’s built in hard drive aka the “C drive”
2. Removable Storage – devices that you insert into your computer that can expand your storage and then save to that physical storage device.
** Such as USB Drives, External Hard Drives and old school “CDs”
3. Remote Storage – THE CLOUD

- When you store/save an item in the cloud, it’s stored on Internet servers instead of a local hard drive
- The cloud is simply using the Internet store your “things” and access remotely from any location

Where is the Cloud?

- This is the most common misunderstood issue
 - *Your data is not stored in “cyberspace” – it is not floating around*
 - *Your data is being stored on remote servers located somewhere else*
 - *These servers are owned by companies, such as Google, Amazon, Apple etc and you are asking them to store the data and have access to your data whenever, wherever you like.*



Why Use the Cloud

- In the past...if this happened:
 - *Laptop crashes*
 - *USB Flash Drive gets corrupted*
 - *Lose a CD*
 - *CD get badly scratched*

Then

YOU LOST EVERYTHING



But with Cloud Storage

- If your computer's hard drive or any removable storage devices fail

You can still access all your data in the Cloud



Continued

- You may also access your cloud services among multi platforms:
 - *Access files from your Desktop, Laptop or Smart device*
 - *Watch a movie at home on your desktop or watch it on the go on your tablet*
 - *Using a cloud service provides 24/7 accessibility to what is important to you*

Is your data safe on the Cloud?

- Unfortunately, it's not anymore safe than your own physical storage - Remember the cloud is still a physical server, just located somewhere else, however, they won't spill coffee on their servers
- The servers can get damaged although chances of this are slim - the Storage companies will have the best backups
- Can those servers be hacked? Yes, but unlikely. Those remote servers have better security than the average user
- The bigger threat is "US" - Hackers have a better chance of accessing your cloud account through you and NOT through the cloud server:
 - Need STRONG Passwords - should be at least 8 characters, include uppercase and lower, numbers and symbols
 - Make security questions more difficult. Don't use "street you grew up on" which can easily be found out
 - Use 2-step verification if available
 - Only use secure WIFI networks or use a VPN for extra WIFI security
 - Be smart and don't answer emails that ask for account information - contact them via phone

Cloud Services – which one?

- There are many options when it comes to cloud services
- Some services are included with a device you own:
 - *Apple uses iCloud*
 - *Google uses Google Drive and Google Photos*
 - *Microsoft use OneDrive*
- 3rd Party Cloud service
 - *Most popular - DropBox*

The Amazon logo, featuring the word "amazon" in a black, lowercase, sans-serif font with a curved orange arrow underneath it.The Microsoft logo, consisting of four colored squares (red, green, blue, and yellow) arranged in a 2x2 grid, followed by the word "Microsoft" in a black, sans-serif font.The Google logo, featuring the word "Google" in its multi-colored, sans-serif font.The Dropbox logo, featuring a blue diamond shape made of four smaller diamonds, followed by the word "Dropbox" in a black, sans-serif font.

iCloud from Apple

- This is the most popular but also not a typical cloud service.
- Apple's iCloud is actually a synchronization/backup service. It allow users with multiple Apple products to sync their apps, photos files across all their Apple devices
- Apple's iCloud will back up your most recent data, it is a backup service – in case your device is lost, stolen, damaged, you can download the old device's stored backup to your new device.
- iCloud is synchronization and backup - not a traditional cloud storage:
 - *For ex: if you delete a photo from your device it will automatically delete the photo from the cloud.*
- Each Apple ID is given 5GB free cloud service
 - *If you exceed 5GB you can pay to increase your cloud amount*
 - 50GB – 99cents per month
 - 200GB – 2.99 per month
 - 2TB – 9.99 per month

Google Drive and Google Photos

- Google Drive – cloud storage for files, such as Google Docs, Sheets and Slides
- Can also store MS files on Google Drive – Word, Excel etc. You can edit those MS files as well, but may need a plug in or access your files via the Google Chrome Browser.
- Traditionally Google Drive does not backup files – it is a synchronization service providing access to your files from any platform
- However, you can add the Backup option via this link from Google:
- <https://www.google.com/drive/download/>
 - *15GB free Google storage for Drive, Photos and Gmail*

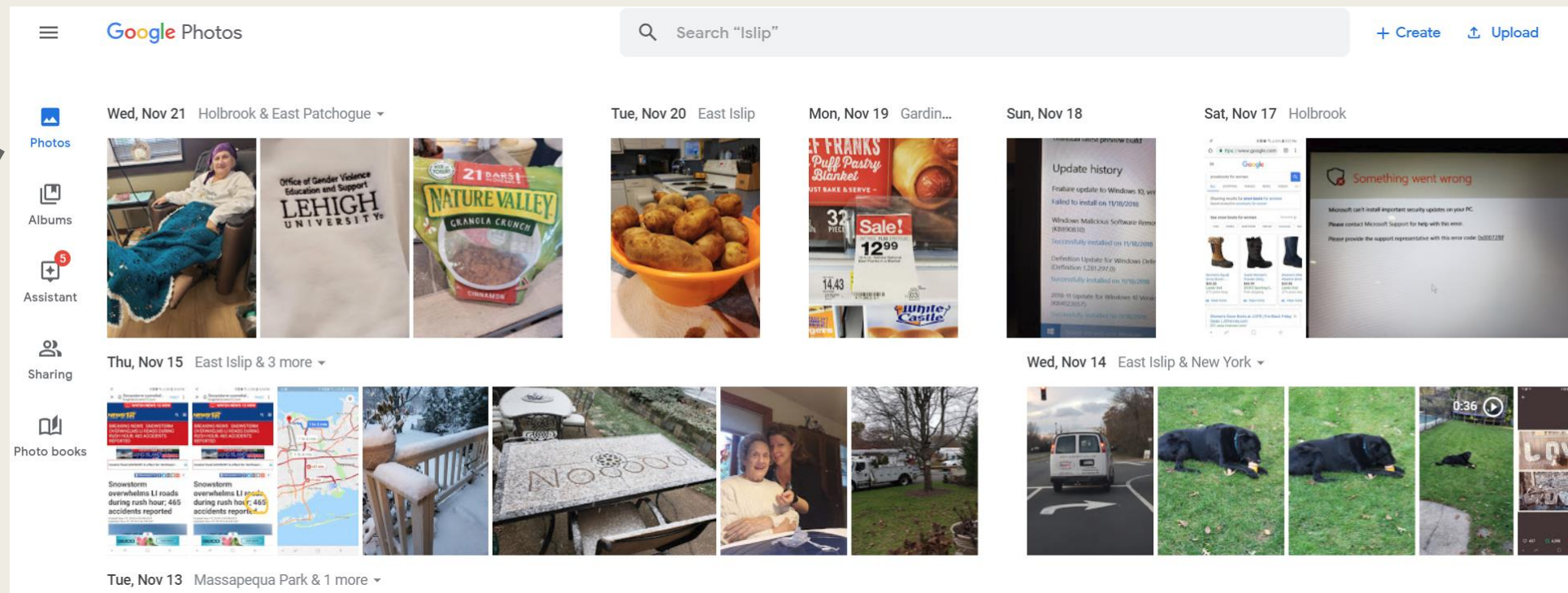
Continued on next slide



Google Photos

- Google Photo gives you unlimited storage space BUT for photo resolutions capped at **16 megapixels** and video resolution to 1080p.
- Google gives you the option to store at higher resolutions, but the storage counts against your free 15GB Google Drive limit. (see previous slide)
- This link shows you how to choose which Google Photo Storage option you'd like <https://photos.google.com/settings>

Google Photos
File
management



Microsoft OneDrive



- Microsoft's cloud storage is available for customers with a Microsoft account. (Basically anyone using a Windows 10/Surface device)
- MS users will get 5GB free storage (\$1.99 per month to increase to 50GB per month)
- Users can also increase their storage by signing up for Office 365 (for a fee)
- Click here for more details about OneDrive

<https://www.windowscentral.com/how-get-started-onedrive-windows-10>

* Update – Google Photos

- On July 10, Google will “delink” Google Photos from Google Drive, and the two Google storage services will stop automatically keeping each other's photos in sync
- FOR MORE INFORMATION CLICK HERE: <https://tinyurl.com/y57rb8wv>

What is Dropbox aka DB



- Dropbox is the ultimate in cloud service and file sharing. DB can be used across all platforms. Not restricted to a device's cloud.
- DB makes sure that anything in a particular DB folder is kept safe online and mirrored on any other device you have DB installed.
- Dropbox Basic account comes with 2 GB FREE. If you want more space or features, you can upgrade to Dropbox Plus, Professional, or Business
 - Click here for more information <https://www.dropbox.com/help/billing/cost>
- Dropbox's most popular feature – upload all your photos from your device to DB and then delete those photos from your device to free up storage. They are truly stored on DB.

Do I need more than one Cloud Service

- Yes!
- You can never be too careful when protecting your information.

COMPARING CLOUD SERVICES

WHICH SHOULD I CHOOSE?

Which Drive is right for you? Check out the chart below to learn more about each one.

Name	Pros	Cons	Available Devices
iCloud	Automatic syncing between devices, free 5GB of storage.	Can only access through the browser or on Apple products, collaborative abilities are a bit limited.	iOS, macOS
Google Drive	Include an entire office-suite (Docs, Slides, etc), 15GB free, best choice for collaboration.	An overwhelming amount of features, offline access is limited.	iOS, Android, Windows
Google Photos	Free unlimited at compressed resolution	Compressed resolution for photos	iOS, Android, Windows and macOS (browser)
Microsoft OneDrive	Include an entire office-suite (Docs, Slides, etc), 5GB free (longtime users get an extra 10GB free), great for collaboration, multi-platform.	An overwhelming amount of features.	iOS, Android, Windows, macOS
Dropbox	2G of free storage to start with, 500 MB extra every time you invite a friend, available for a wide range of products, simple but easy to use interface.	Expensive compared to the competition.	iOS, Android, Windows, macOS Fire OS, Linux x

Let's take a look