





What is it?

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Source: Montana State Library Archive





How much data?



- Wayback Machine has 2 PB + 20 TB/month (2006)
- Google processes 20 PB a day (2008)
- "all words ever spoken by human beings" ~ 5 EB
- NOAA has ~1 PB climate data (2007)
- CERN's LHC will generate 15 PB a year (2008)



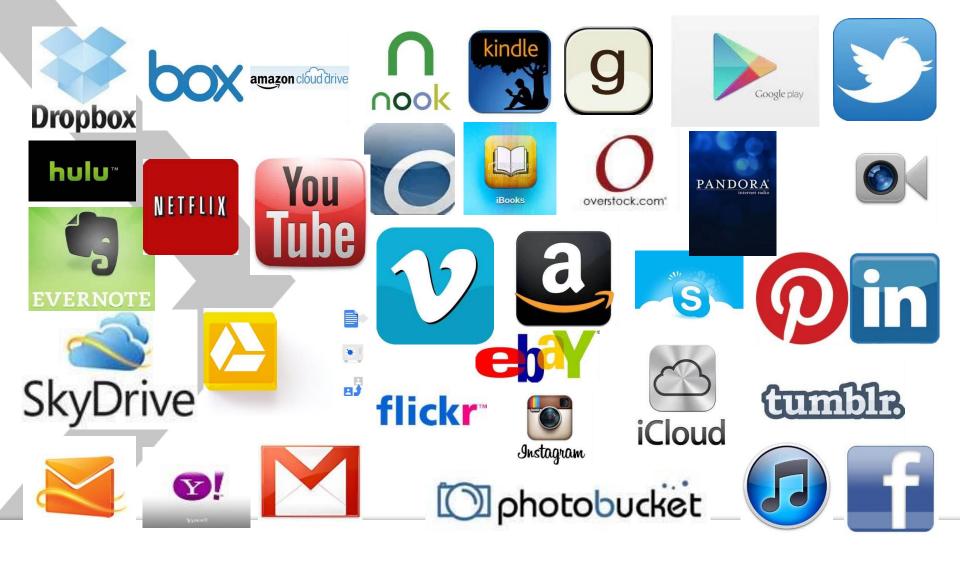
The Average Cloud user



- Connects to the cloud via the Internet
 - Does computing tasks, or
 - Runs applications, or
 - Stores Data

Do you Use the Cloud?





type of service



Software as a Service (SaaS) is a software distribution model in which applications are hosted by a vendor or service provider and made available to customers over a network, typically the Internet.

http://searchcloudcomputing.techtarget.com/definition/Software-as-a-Service















The Cloud Requires

100th Anniversary of Chula Engineering 2013

- An Internet connection
- An account Created with a user name and a password
- Agree to Terms



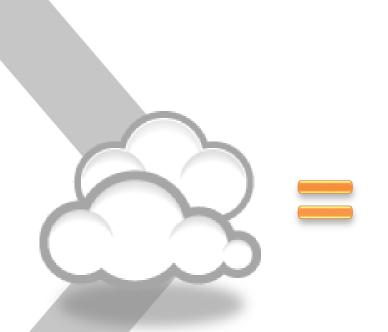
First		Last	
Choose your user	name		
			@gmail.com
Create a password	d		
Confirm your pas:	sword		
Birthday			
Month	‡	Devi	Year
wonth	*	Day	Year
Gender			
I am			\$
Mohile nhone			
Mobile phone			
Mobile phone			

Default homepage
Set Google as my default homepage.
Your default homepage in your browser is the first page that appears when you open your browser.
Prove you're not a robot
Skip this verification (phone verification may be required)
energies Stanks
Type the two pieces of text:
C •) •
Location
United States \$
☐ I agree to the Google Terms of Service and Privacy Policy
Google may use my account information to personalize +1's on content and ads on non-Google websites. About personalization.
Next step



So what is the cloud?











Computing and software resources that are delivered on demand, as service.

(2013, January) A Walk in the Clouds. Cloud Computing, CDW-G Reference Guide., 3-5.





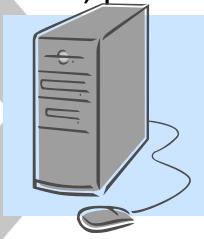
The Back Story

From ground to cloud

Computer Storage



- Computers have internal or hard drive storage(C: Drive)
- CPU has a drive for storing programs, documents, pictures, videos, presentations, etc...



Standard Computer Tower or Central Processing Unit (CPU)



Inside the Computer



Internal Storage



- Content is stored on THAT computer
- To use content must return to THAT computer
- Cannot access this content from another device or computer





Programs



- Purchase programs
- Load to the computer
- Each computer would need the program loaded and stored on the internal drive











External Storage



- Allows your content to become mobile
- Save to the storage device
- Take device to any compatible computer
- Open and use content









SanDisk

External Hard Drive





Networked Storage



- Multiple work stations talk to one unit that stores information and data.
- Data is not saved to the C: drive, but to a network drive
- Can retrieve the data stored to the network from any of the connected workstations.

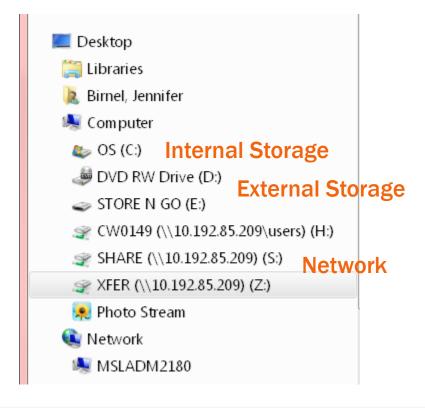




Saving documents



 When you do a "save as" on your computer, you choose where to save the material.





Cloud Storage





- Create an Account –
 User name and
 password
- Content lives with the account in the cloud
- Log onto any computer with Wi-Fi to find your content



Downloads for storage



- Download a cloud based app to a computer you own
- The app lives on your Computer
- Save files to the app
- When connected to the Internet it will sync with the cloud
- The Cloud can be accessed from any Internet connection

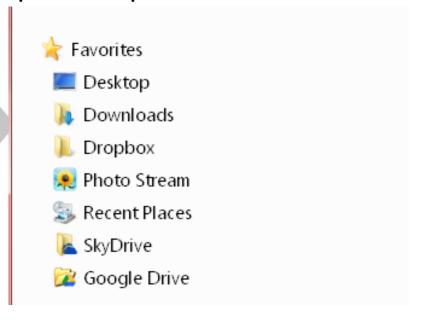




Save file as



- Do "save as" to save a file to your computer and the cloud
- The syncing folders makes data retrieval easier
- Box and DropBox require this download to work

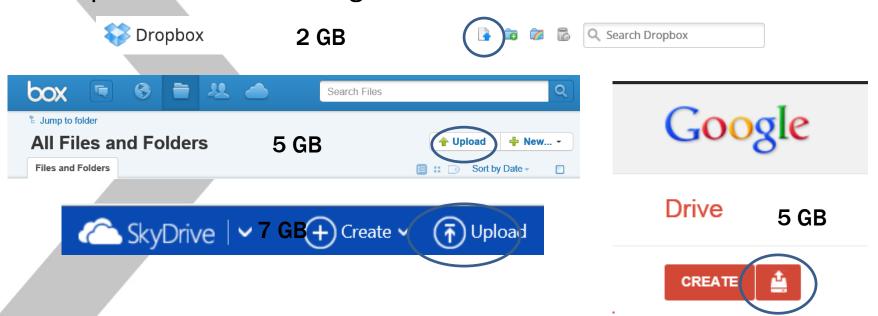




Upload Documents



- Log-in to the online storage account
- Click upload a file
- Find the file on hard drive, network, or external storage
- Upload to cloud storage







More than Storage

Software and applications

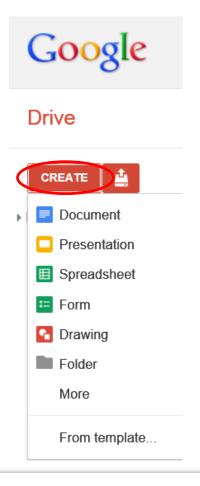


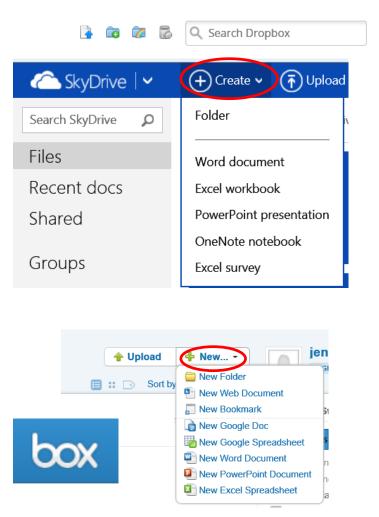
Document Creation





- Google DocsSkyDrive

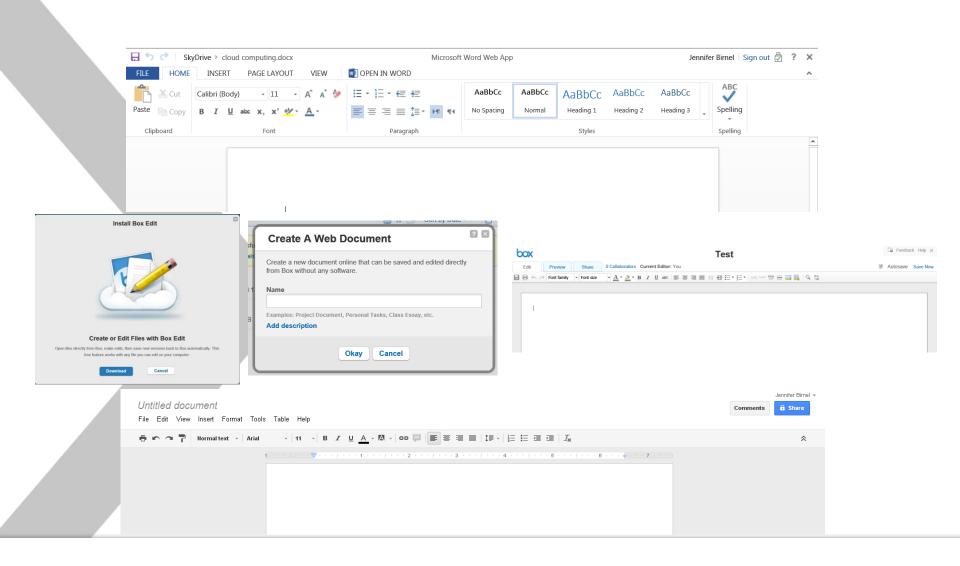






Download required?







Internet is required



- Creation is happening in the cloud
- Saving is going to the cloud
- To retrieve files, must return to the cloud





Implications



What are we comfortable with patrons using?

Name					
First		Last			
Birth date					
Month	▼ Day	/	-	Year	•
Gender					
Select one	•				
How would you like	-	•			
Microsoft account name	e	,			
-	e.com				
Microsoft account name someone@example	e.com				
Microsoft account name someone@example Or get a new email add	e.com				

First		Last	
Choose your u	sername		
			@gmail.com
I prefer to use m	ny current em	nail addı	ress
Create a passw	ord .		
Confirm your p	assword		
Confirm your p	assword		
	assword		
		ay	Year
Confirm your p Birthday Month Gender		ay	Year

	0
First Name:	
Last Name:	
i Email:	
i Password:	
	Strength
Confirm Password:	
Your Phone:	
Storage:	5 GB - Free ▼
	I agree this is for non- commercial use only.
	Continue
By registering you ago	ree to Box's Terms of Service
First name	Last name
Email	
Password	
☐ I agree to Dropbo	ox Terms
S	ign up



Internet capable Devices







Benefits



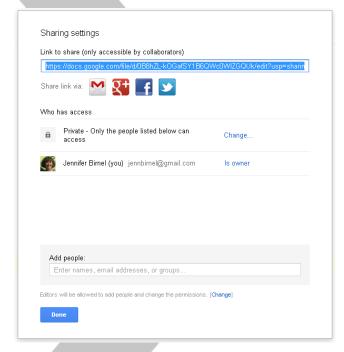
- Saving Large Files
- Multiple file types Photos, videos, presentations, docs
- Back-up of stored files
- File Sharing
- Access from devices
- Nothing to forget (thumb drive, cd)
- Project collaboration

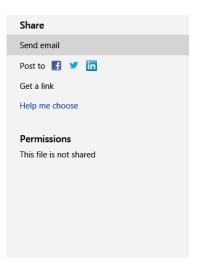




File Sharing







To

Include a personal message (optional)

✓ Recipients can edit

Require everyone who accesses this to sign in

Share

Done

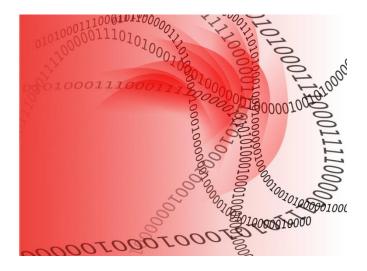
Send a link to "Professional Cover Letter.docx" in email



Other Software services



- Photo editing software
- Online banking apps
- Social media apps
- Communication





Library Specific Services



- WorldCat
- MSC
- Ebsco
- Discover It





Other Cloud Services

types of service



 Platform as a Service (PaaS) is a way to rent hardware, operating systems, storage and network capacity over the Internet. The service delivery model allows the customer to rent virtualized servers and associated services for running existing applications or developing and testing new ones. http://searchcloudcomputing.techtarget.com/definition/Platform-as-a-Service-PaaS





types of service



• Infrastructure as a Service (laaS) is a provision model in which an organization outsources the equipment used to support operations, including storage, hardware, servers and networking components. The service provider owns the equipment and is responsible for housing, running and maintaining it. The client typically pays on a per-use basis.

http://searchcloudcomputing.techtarget.com/definition/Infrastructure-as-a-Service-laaS









Why the Cloud?

advantages



- Can be less expensive compared to buying software and hardware
- Can be used from any computer or device with an Internet connection
- The device does not need as large of an internal storage system
- Compatible with most computers and operating systems
- Updates occur across the service



Disadvantages



- Security Issues
- Terms of Service
- Privacy Policies