The Cloud is Here Don't Get Left Behind

Sarasota Technology Users Group

April 4, 2018

What is the Cloud?

Cloud Confusion

Have you heard people using terms like the cloud, cloud computing, or cloud storage.

And, you’re clueless or really don’t understand about the cloud.

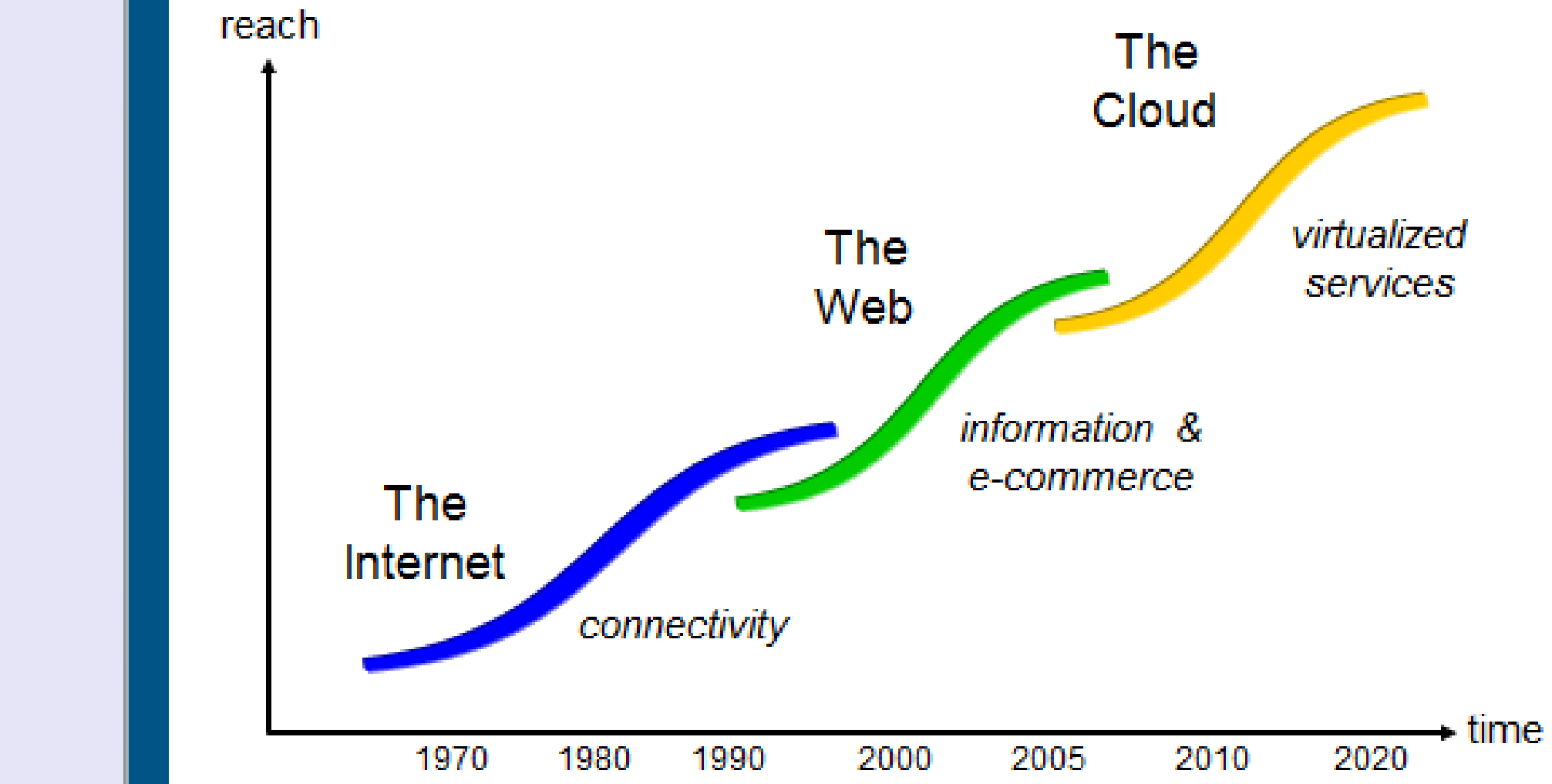
Cloud Confusion

One in five Americans (22 percent) admit that they've **pretended to know what the cloud is** or how it works.

When asked what "the cloud" is, a majority responded it's either an actual cloud (specifically a **"fluffy white thing"**), the sky or something related to the weather (29 percent).

51% said stormy weather would interfere with their cloud computing

The Third Generation



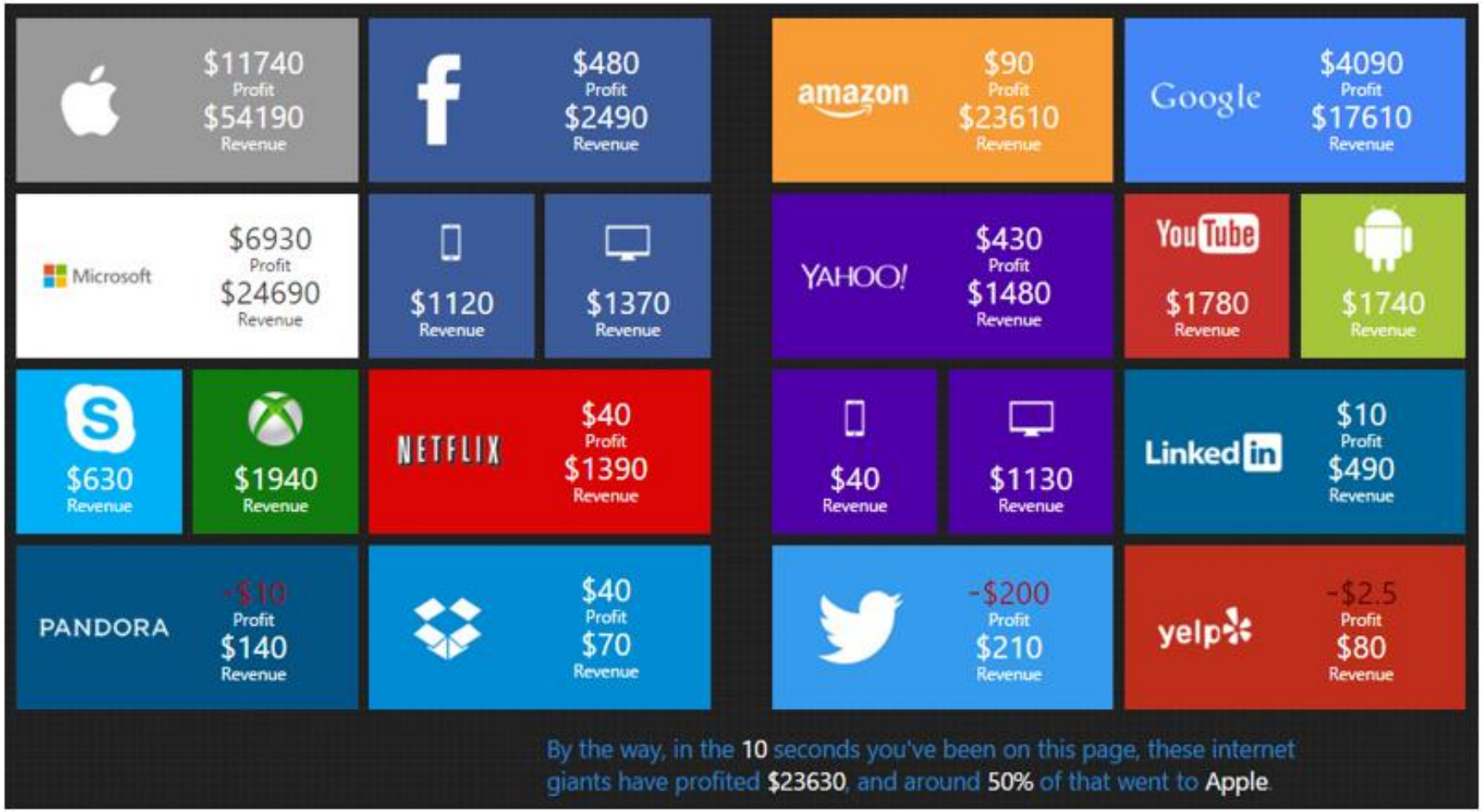
What Happens in 60 Seconds on the Internet (2017)

- Google – 3.5M searches
- Emails sent – 156M
- Spam Emails sent – 103B
- Facebook – 521,960 likes
- YouTube – 4.1M videos watched
- Text Messages sent – 16M
- Amazon sales - $258,555

2017 This Is What Happens In An Internet Minute

Created By:
@LoriLewis
@OfficiallyChadd

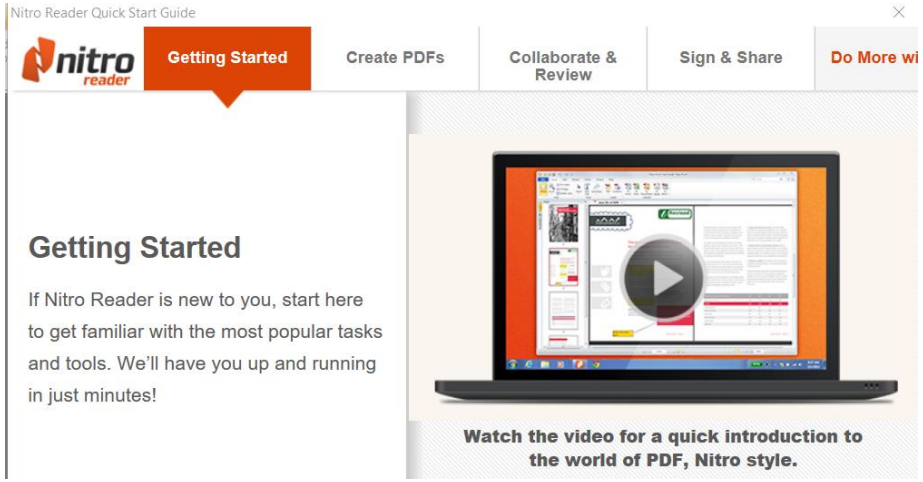
Every 10 Seconds the Tech Giants Make This Much (2016)



Your Computer Back-in-the-Day

- Hard drive (C: drive)
- Purchase programs
- Install on HD
- Create docs
- Edited photos
- Used web to search / send e-mails….

Apps/Programs on Your HD



Tied to Your Computer

- Programs / Data / Photos…
- Couldn’t access from another device or computer

Did You Start Becoming Mobile?

- Save content to storage devices
- Take device to compatible computer
- Open and use content

Do you use Web-Based Apps?

- Apps (programs) stored on remote server
- Available over the Internet

What is the Cloud?

- It’s everything we access remotely over the Internet
- Our data isn’t actually in the sky in a white fluffy cloud
- When something is in the cloud, it means it’s stored on a network of servers instead of (or in addition to) our computer’s hard drive or external drive
- We access it via our favorite Web browser

chrome

DuckDuckGo

Why Use the Cloud

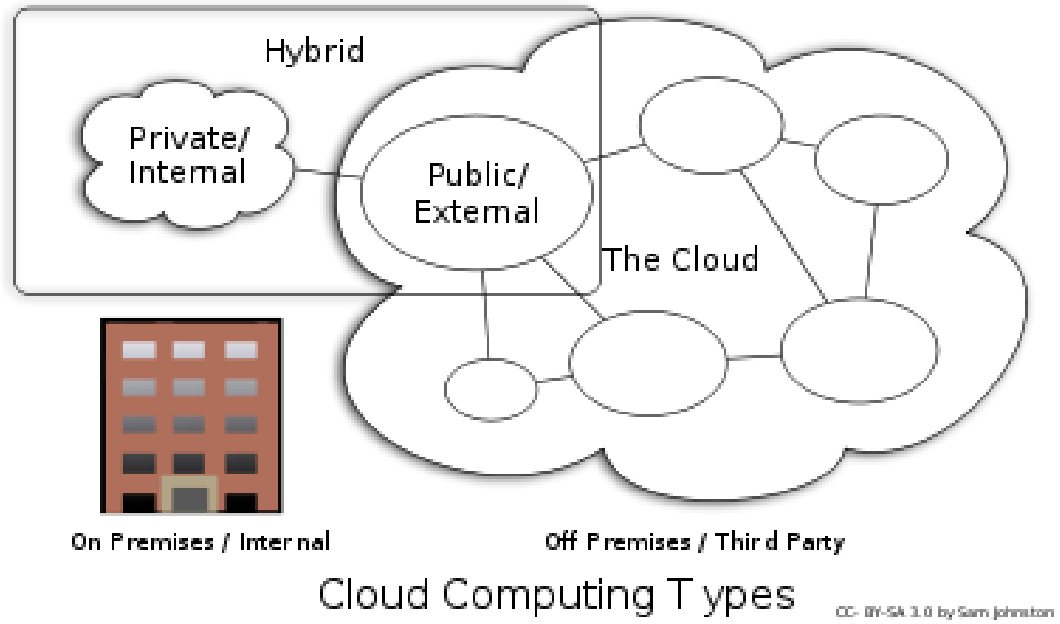
- It’s convenient
- It’s reliable
- We can access our data from any device with an Internet connection

Cloud Computing

Having secure access to all your applications and data from any network device

Clouds

- Public Clouds
- Private Clouds
- Community Clouds



Cloud Computing Types

CC- BY-SA 3.0 by Sam Johnston

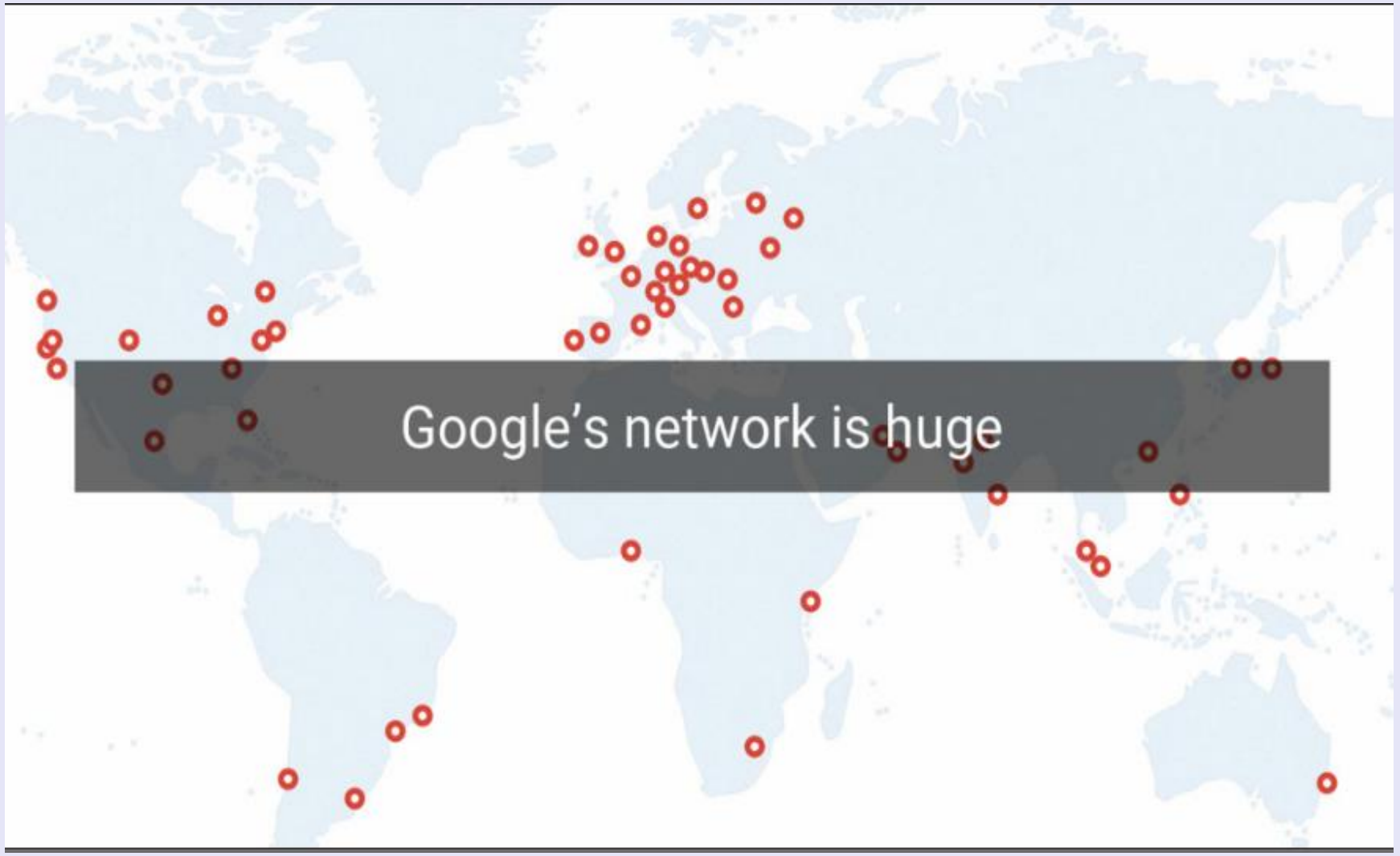
Where Does Everything Live?

- On a network of servers
- Use Wi-Fi to access
- At friends / neighbors / on vacation / city parks / libraries
- Starbucks
- McDonalds
- Nothing to forget (USB drive, etc.)
- External HD stays at home

What is a Server?

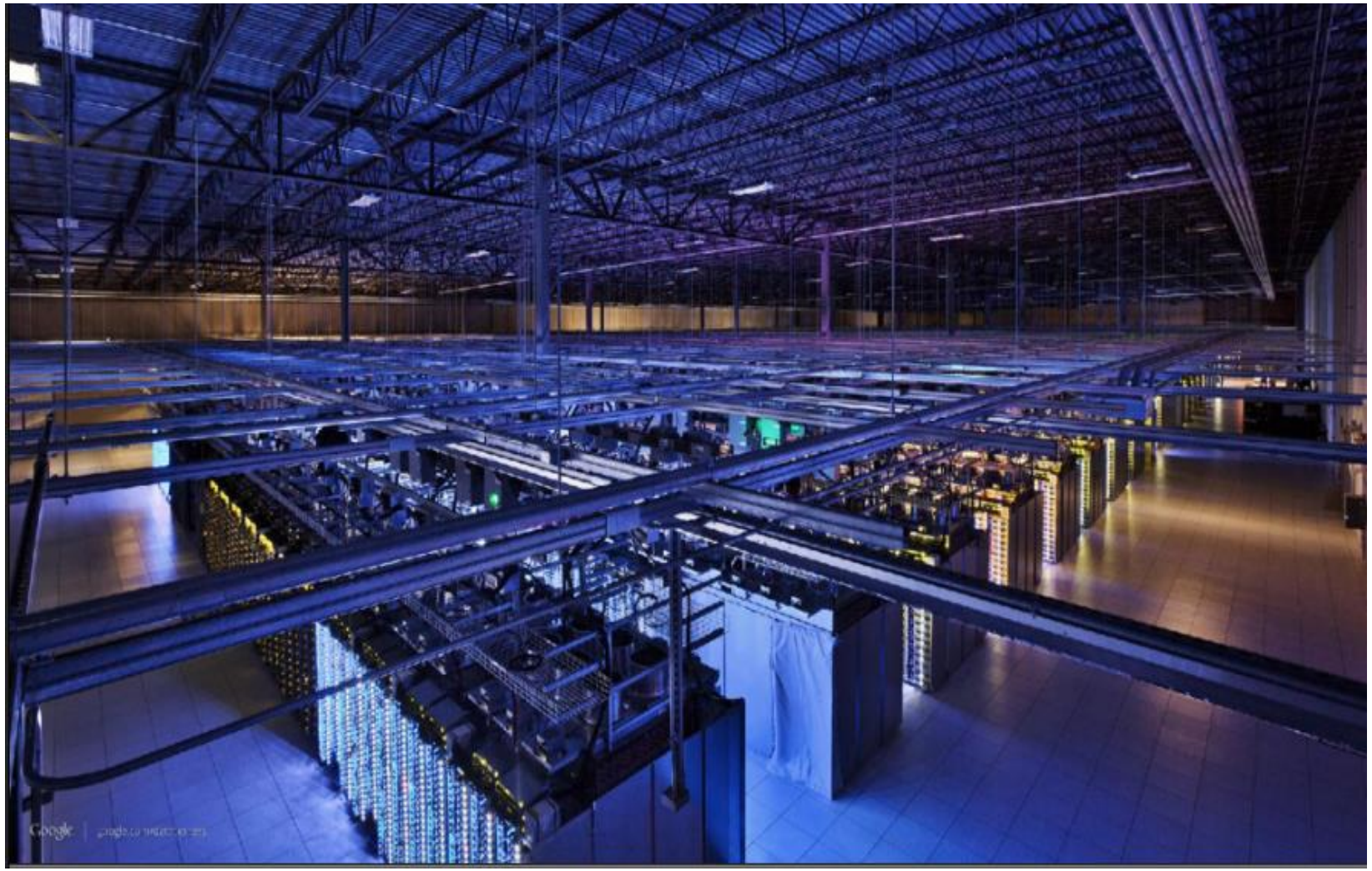
- A server is a computer that provides data to other devices
- It processes requests and delivers data to our devices (computers, tablets, phones, etc.) over the Internet
- Server farm provides massive storage and processing power
- Rack-mountable hardware
- Takes up minimal space

Google Server Farms



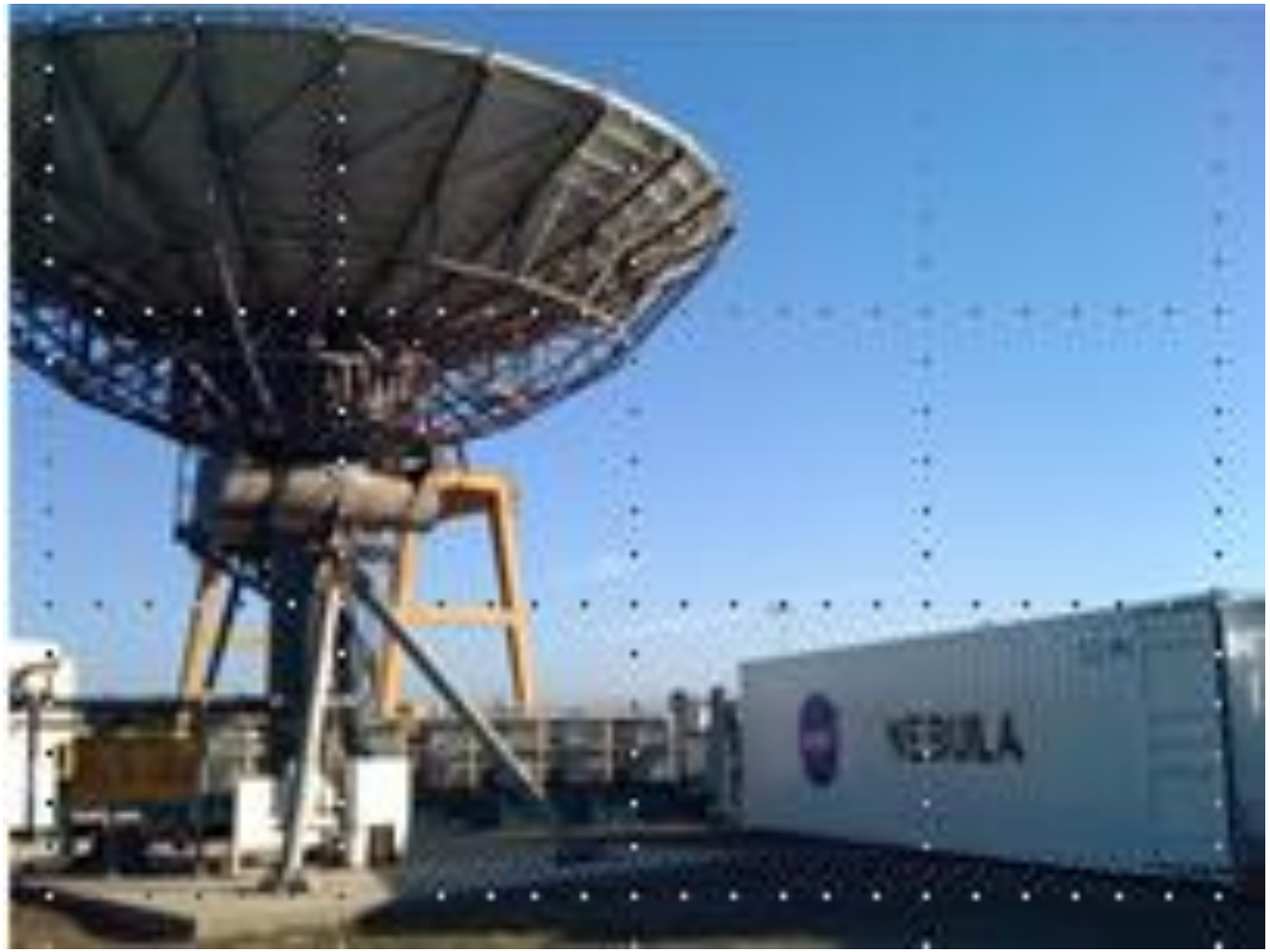
Google Server Farm

Google Server Farm



Google's Shipping Container Server Farm

NASA Nebula Cloud Servers

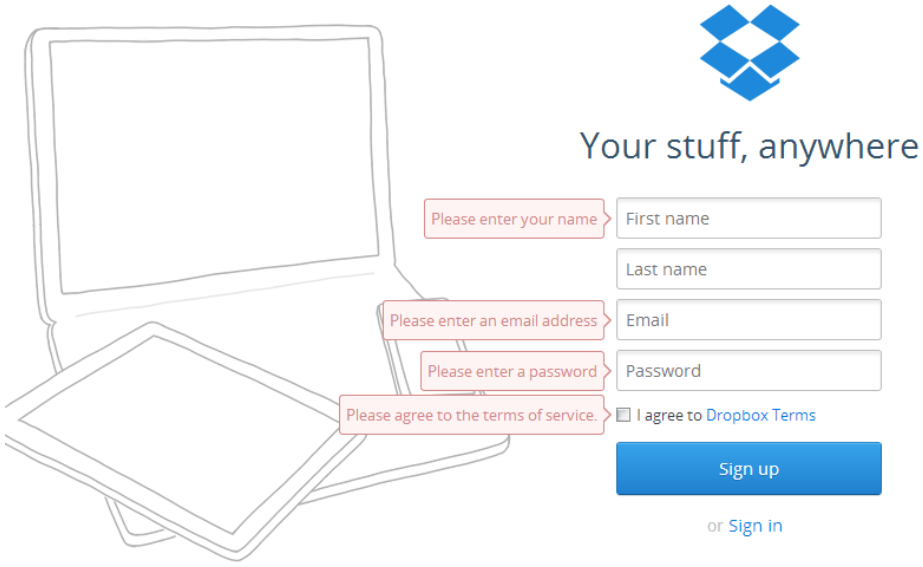


Facebook's Arctic Server

- First non-US data center for Facebook
- Edge of the Arctic circle in Northern Sweden
- Utilizes inexpensive and green power generated by dams
- Don't need A/C just use fresh Arctic air

What Do We Need to Access the Cloud?

- Internet connection
- Account
- User name & password / passphrase
- Agree to terms



What Apps can we use in the Cloud?

- Office Suites
- Social Networking
- Digital Editing
- E-mail
- Chat
- Back up

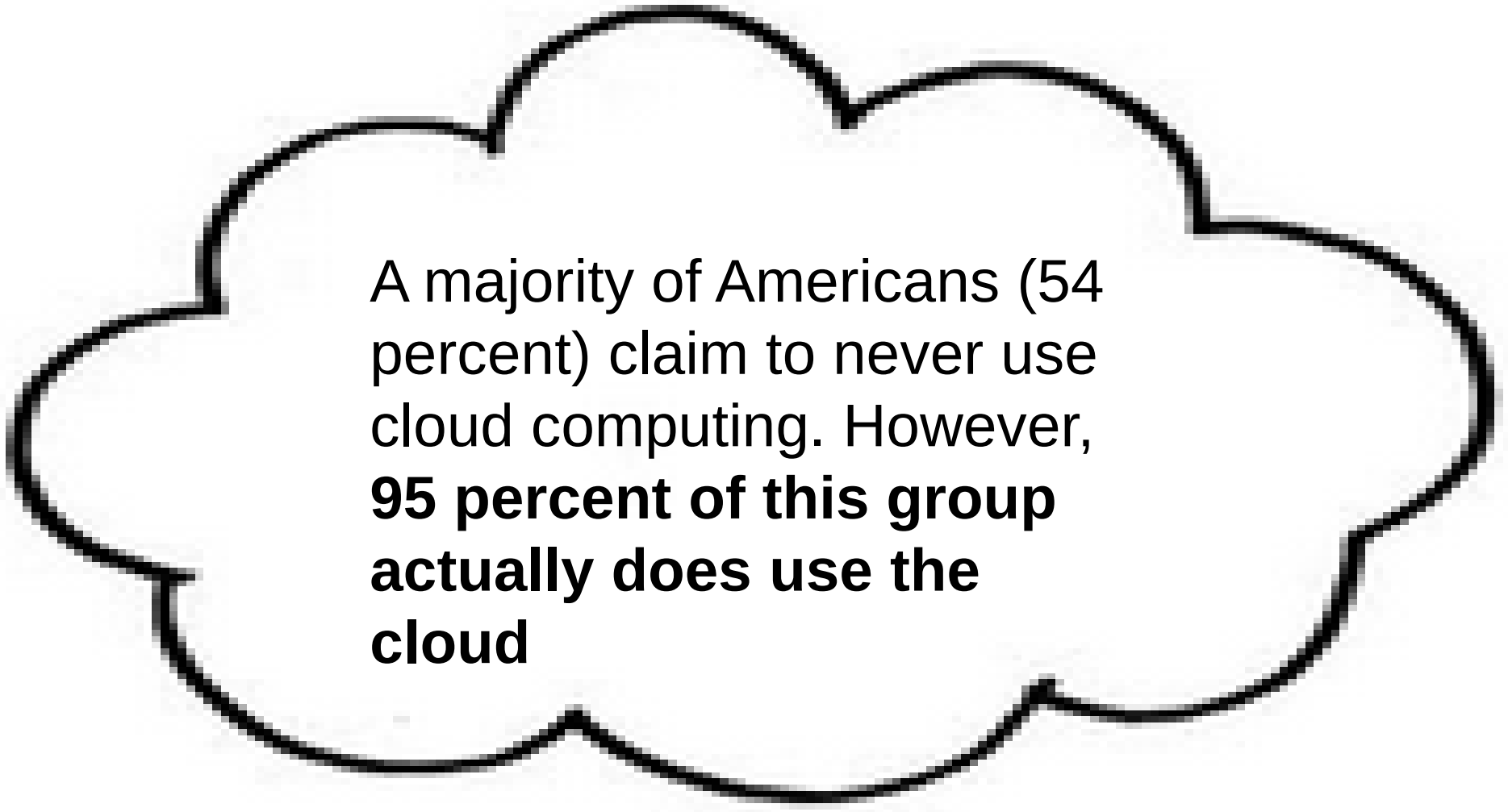
What can we share?

- Documents
- Spreadsheets
- Presentations
- Photos
- Videos
- Newsletters
- Calendars
- Much more….

APCUG's Newsletter Contest

- Online file sharing

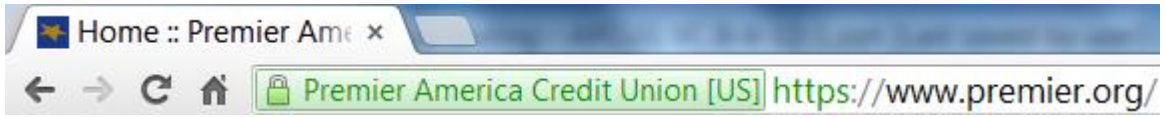
We already use the Cloud!



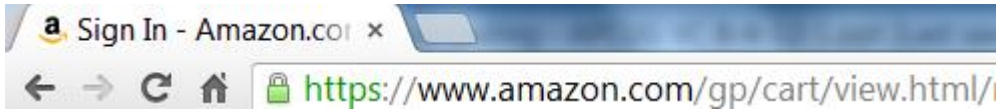
A majority of Americans (54 percent) claim to never use cloud computing. However, **95 percent of this group actually does use the cloud**

We already use the cloud!

- Online banking



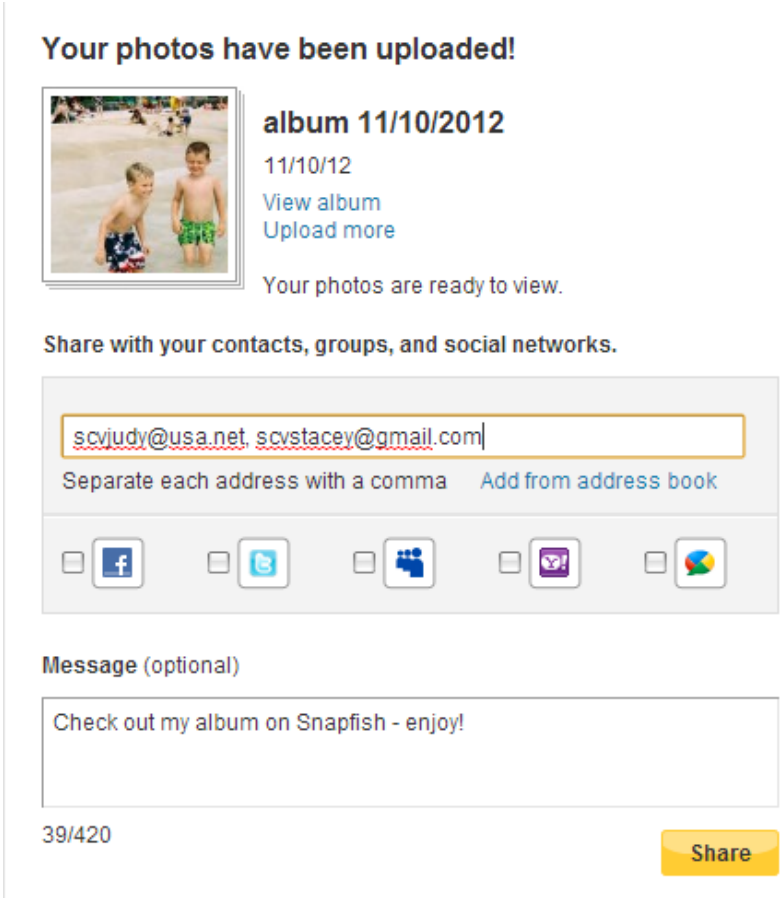
- Online shopping



- Social networking (Facebook, Twitter, etc.)

We already use the cloud!

- Sharing photos online

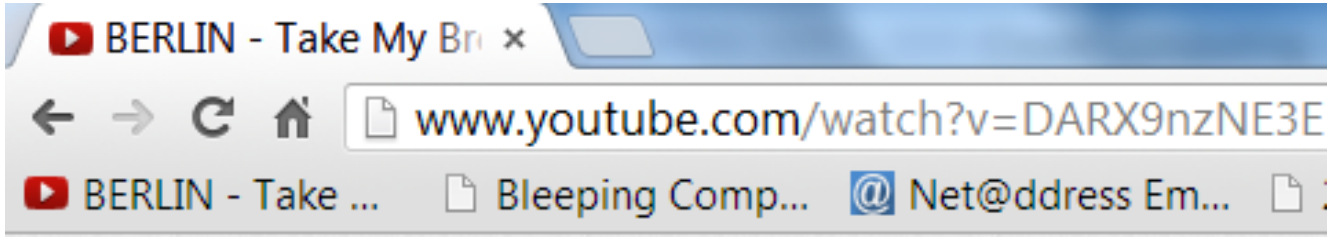


We already use the cloud!

- Online Games

We already use the cloud!

- Listen to Music
  - Pandora – Internet Radio
  - Spotify – All the music, all the time
  - https://play.google.com/music/listen
  - YouTube
    - Favorite Song



Today's Devices Can Link Together Via the Cloud

Smart Phones

Tablets

Desktops

Laptops

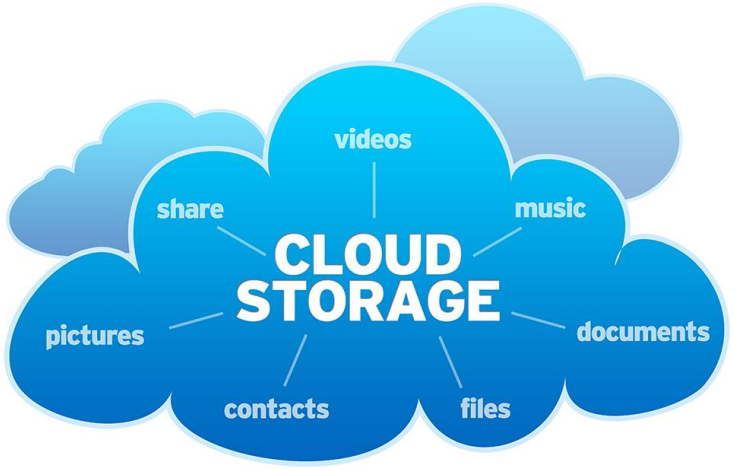
External Hard Drives

Cameras

Printers

What is Storage in the Cloud?

- Redundant back-up of your important files/data/photos, etc.



iCloud

- Built into every new iOS device and Mac
- Access music, photos, calendars, contacts, documents, and more

Android Google

- Built into every Android phone, Chromebook, etc.
- Access through your Gmail account
- Music, photos, calendars, contacts, documents, and more

Chromebooks

- Are all about the cloud
- Designed primarily to use when connected to the Internet
- Google’s Chrome OS
- Don’t need security software
- Automatically checks for and applies security updates

Chromebooks

- Use Google Docs
- Can access them directly from Chromebook
- Can work off-line and save to USB drive
- School districts buying Chromebooks for students and staff

Backup / Storage in the Cloud

- External Hard Drive
- DVDs
- Redundant = Cloud
- Data stored in multiple locations
  - Protected – Password
  - Encrypted
  - Access anywhere / anytime
- Latest version v. many versions
- Free v. Paid

Backup / Storage in the Cloud

FREE

- Microsoft OneDrive (PC/Mac/Android and iOS device) – 5GB
- OneDrive – 15GB
- Office 365 - Unlimited
- Google Drive – 15GB
- Google Photos – Unlimited
- iCloud – 5GB

Backup / Storage in the Cloud

FREE

- Amazon Prime – 5GB
- Amazon Prime Photos – Unlimited
- Dropbox – 2GB
- iDrive – 5GB

Backup / Storage in the Cloud

PAY

- Microsoft OneDrive - 100GB $2/month
- Google Drive – 100GB $2/month
- Amazon Prime – 1TB $60/year
- iCloud – 50GB - $1/month
- Dropbox – 100GB $10/month
- IDrive – 2TB $52/year

What type of security do you need?

- Security
- Firewall
- Router
- Strong Password / Passphrase
- Encryption

Companion Programs

- Malwarebytes

Password

- Strong password
  - Minimum 10+ characters
  - At least 1 capital letter, number, symbol
    - NhrbAtj@Pjg9
- Use a Passphrase = more secure

Organize Your Life in the Cloud

Toodledo

- Organize Your Tasks
  - Folders
  - Search / Sort
- Improve Your Productivity
  - Hotlists
  - Customizable Alarms
- Customize
  - Fields / Views

www.toodledo.com

Toodledo

Toodledo

Tasks | Notebook | Organize | Tools | Forums | Help

VIEW BY:

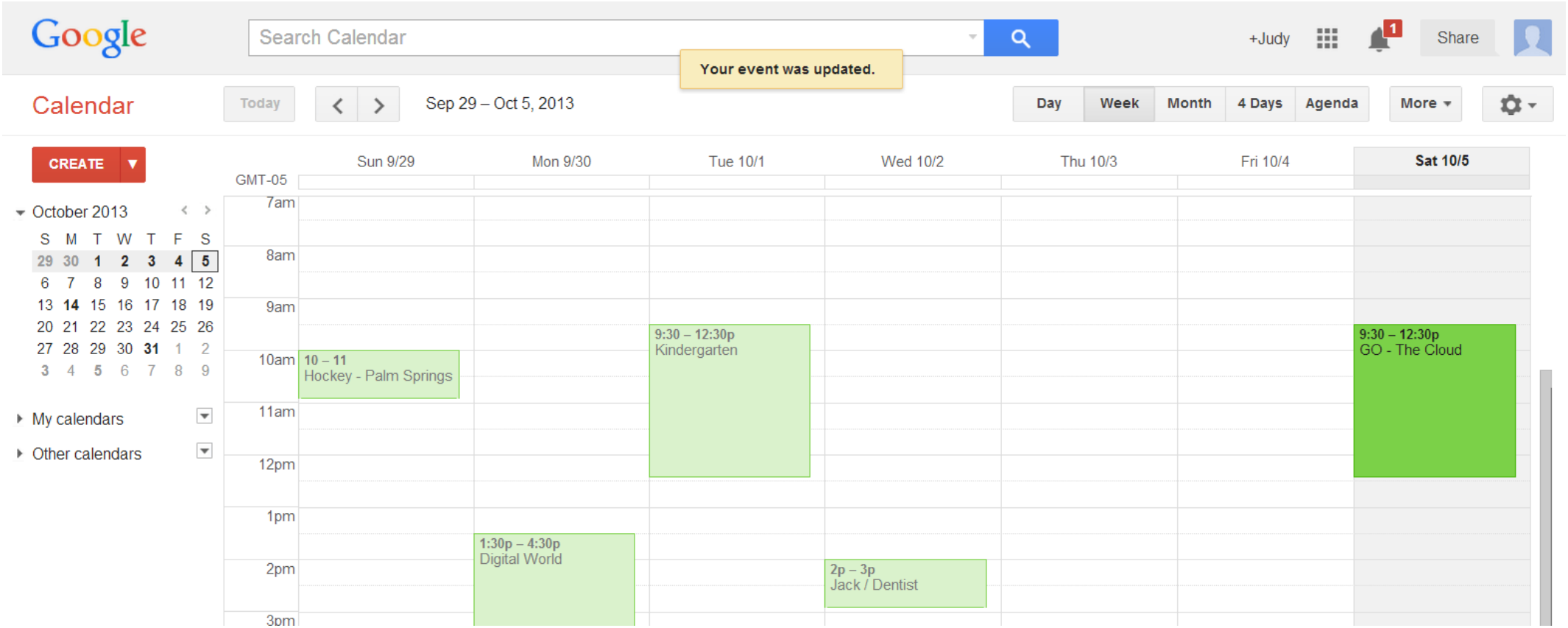
Main | Folder
Due-Date | Priority
Sharing | Search
Calendar

All Tasks	56
Starred	4
Hotlist	7
Recently Added	56
Recently Completed	6
Recently Modified	56

Add Task | Quick Add Task + | SHOW 42 | SORT:

Task	Priority	Due Date	Folder
Importance Level: 6			
Buy bread for dinner	3 Top	no date	No Folder
Weekly status meeting	1 Medium	Jul 18	Work
Importance Level: 5			
Book hotel for summer vacation	2 High	no date	Family
Pay credit card bill	3 Top	Jul 31	Personal
Take out the trash and recycling	0 Low	Tomorrow	Chores
Importance Level: 4			
Pick up dry cleaning	1 Medium	no date	Chores
Finish the TPS report	2 High	no date	Work
Fix the kitchen sink	2 High	no date	Home
Vote	2 High	Nov 08	Personal
Mom's Birthday	2 High	Jul 28	Family

Google Calendar



Evernote

- Capture anything
  - Save ideas, things you like, things you hear, and things you see
- Access anywhere
  - Works with nearly every computer, phone and mobile device
- Find things fast
  - Search by keyword, tag or even printed and handwritten text inside images

www.evernote.com/

Evernote

EVERNOTE

Evernote Stuff November 2017
11/7/17

https://www.theverge.com/2017/9/6/16215562/evernote-app-organize-how-to-use-maximum-productivity

La Verne November Meeting
11/4/17

Find Lost Items
https://www.komando.com/tips/426076/sponsored-new-tech-helps-you-find-your-lost-

WINDOWS 10 FALL Update
11/4/17

https://www.groovypost.com/howto/using-cortana-pick-up-where-i-left-off-windows-10-feature/

APCUG - Social Media Linnks

The PC Users Group of Connecticut
April 13 at 12:07pm ·

The PCUG of CT - Updated Computers/Technology
https://www.facebook.com/ThePcUsersGroupOfConnecticut/

Boca Raton Computer Society, Inc. added an **event**.
April 24 at 11:00am ·

westchester

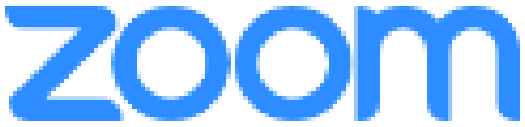
Boca Raton Computer Society
Non-Profit Organization

Communicate via the Cloud

- Gmail
- Yahoo / Rocketmail
- Hotmail / Outlook
- iCloud mail

Communicate via the Cloud

- Skype (VOIP)
- ZOOM.us
  - Free
  - Easy-to-use
  - One:One Unlimited time
  - One:50 participants (40 minutes)



Communicate via the Cloud

- Vonage (VOIP)
  - $9.99/month (US) + taxes & fees
  - Vonage Box / Hi-speed Internet access
  - Voicemail – readable text with E-mail
  - Often have special deals

Communicate via the Cloud

- Ooma (VOIP)

Your estimated costs:

One time costs	Monthly costs
Ooma Telo: $99.99	Taxes and Fees: $3.98
(MSRP)	**Total monthly cost: $3.98**

**Monthly taxes and fees vary based on location.*

Communicate via the Cloud

- Google Voice
  - Choose own number
  - Good for User Groups
  - Readable text voicemail via E-mail

Communicate via the Cloud

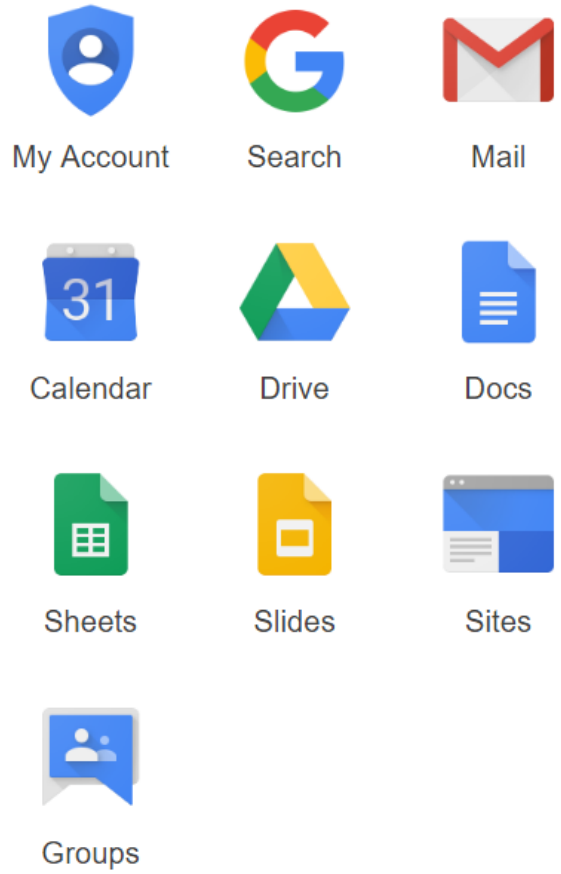
- MagicJack – $35/year
  - Device plugs into computer / router
  - Directory assistance
  - Call waiting / caller ID
  - Free calls to US

Communicate via the Cloud

- Facetime for Mac - $0.99 App Store
  - Video Calls
  - Mac to Mac
  - Mac to the I's

Using Google in the Cloud

- Access via Gmail account / Drive



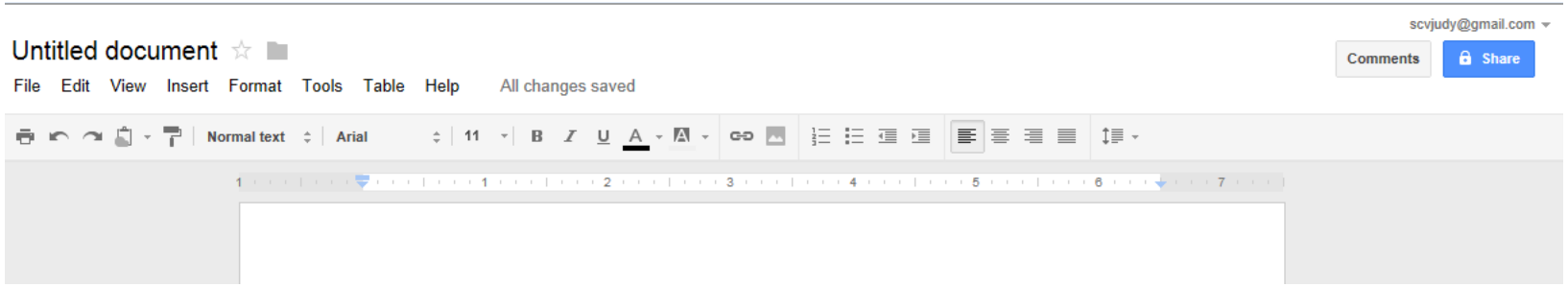
Using Google in the Cloud

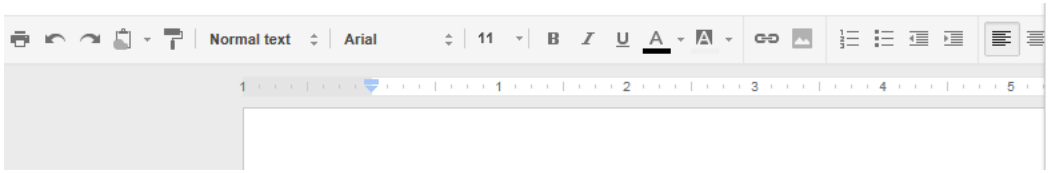
- Docs - create a document, spreadsheet, slide, forms, drawings
- Share a file/folder with someone
- Calendar
- Google Photos
- Create notes and reminders with Google Keep

Google Docs

Comments

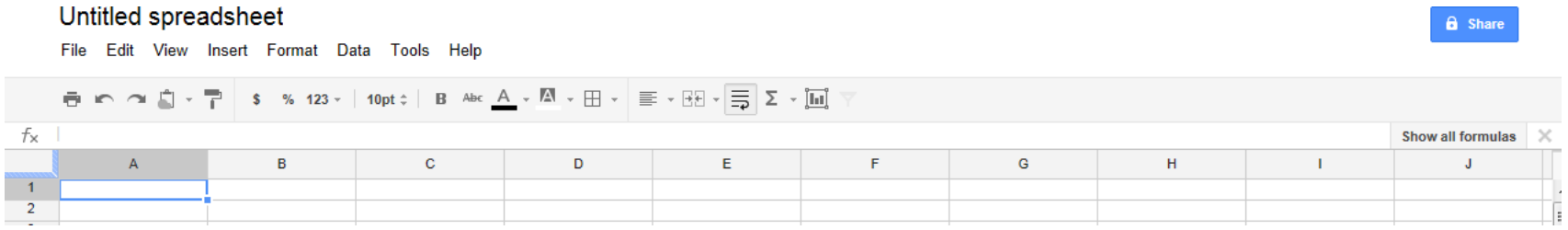
Share





Comments

Google Docs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Share
Show all formulas
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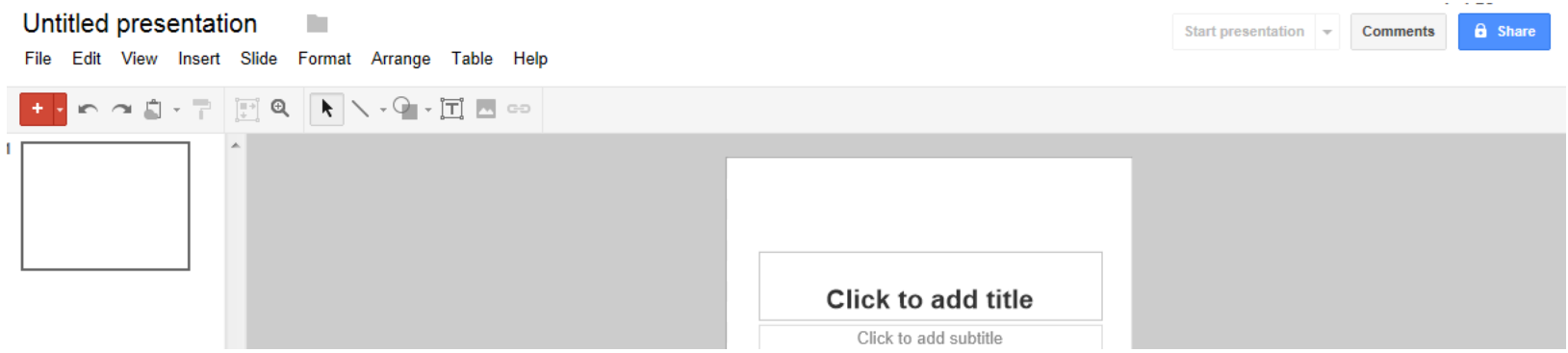
Untitled presentation
File Edit View Insert Slide Format Arrange Table Help
Start presentation
Comments
Share
Click to add title
Click to add subtitle

The Internet of Things

- Is all about the Cloud
- According to analysis firm Gartner, the number of IoT devices will be 20.8B by 2020
- 2.5 IoT devices per person on the planet
- Probably too much data from IoT devices for existing cloud
- IoT designers and cloud programmers working together

The Internet of Things

- New way of analyzing IoT data being worked on
- Can mitigate dependency on cloud storage and enhance IoT role in performing computations and making decisions while staying close to end-user.
- Each IoT device needs own password
- Install updates in timely manner (think Microsoft Tuesday updates)

After Presentation Discussion

- We learn from each other…
- Members Helping Members = what are they using
  - Security programs
  - Password programs
  - Backing up
  - Favorite cloud apps
  - ??
  - ??

Resources

- The Cloud Computing Book
- https://docs.google.com
- https://www.laptopmag.com/articles/chromebooks-vs-windows
- http://hewie.net/
- https://onedrive.live.com/
- www.drive.google.com
- www.idrive.com

Resources

- www.evernote.com
- www.toodledo.com
- www.skype.com
- www.zoom.us
- www.vonage.com
- www.ooma.com
- www.magicjack.com
- www.google.com/voice
- www.apple.com/mac/facetime

Resources

- www.pandora.com
- www.spotify.com
- https://play.google.com/music/listen
- www.youtube.com

The Future of Computing is Here,
in the Cloud!

Questions?

Judy Taylour, APCUG Speakers Bureau
www.apcug2.org / Member Benefits

Jtaylour (at) apcug.org