

The Cloud is the Internet – sort of



This is a representation of just part of the global Internet with The Cloud servers



Just a Term

Server

A computer dedicated to a specific function like Networking, Storage, computing, etc. This equipment is usually very powerful and large from a data standpoint, but not big physically. (think YouTube, Facebook, AOL, Gmail, your bank, financial services) -

all services that are used by millions of people that access servers on The Internet



The Cloud means these servers that are accessed over The Internet

Services on those servers are called Cloud Computing.

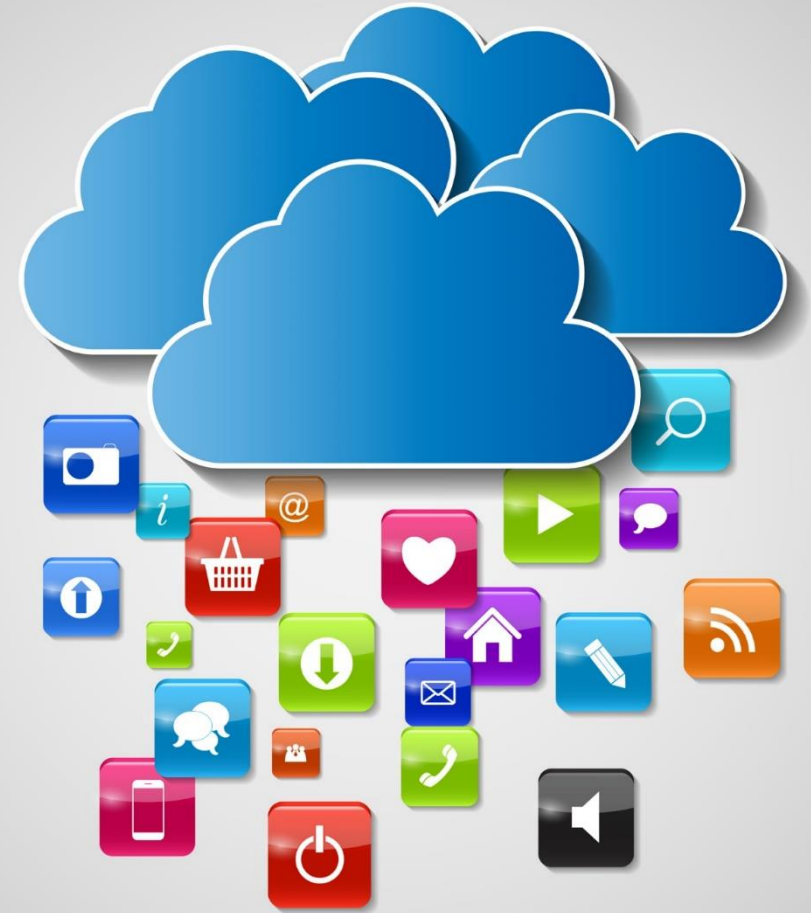
Computing is any activity that uses computers to manage, process, and communicate information.



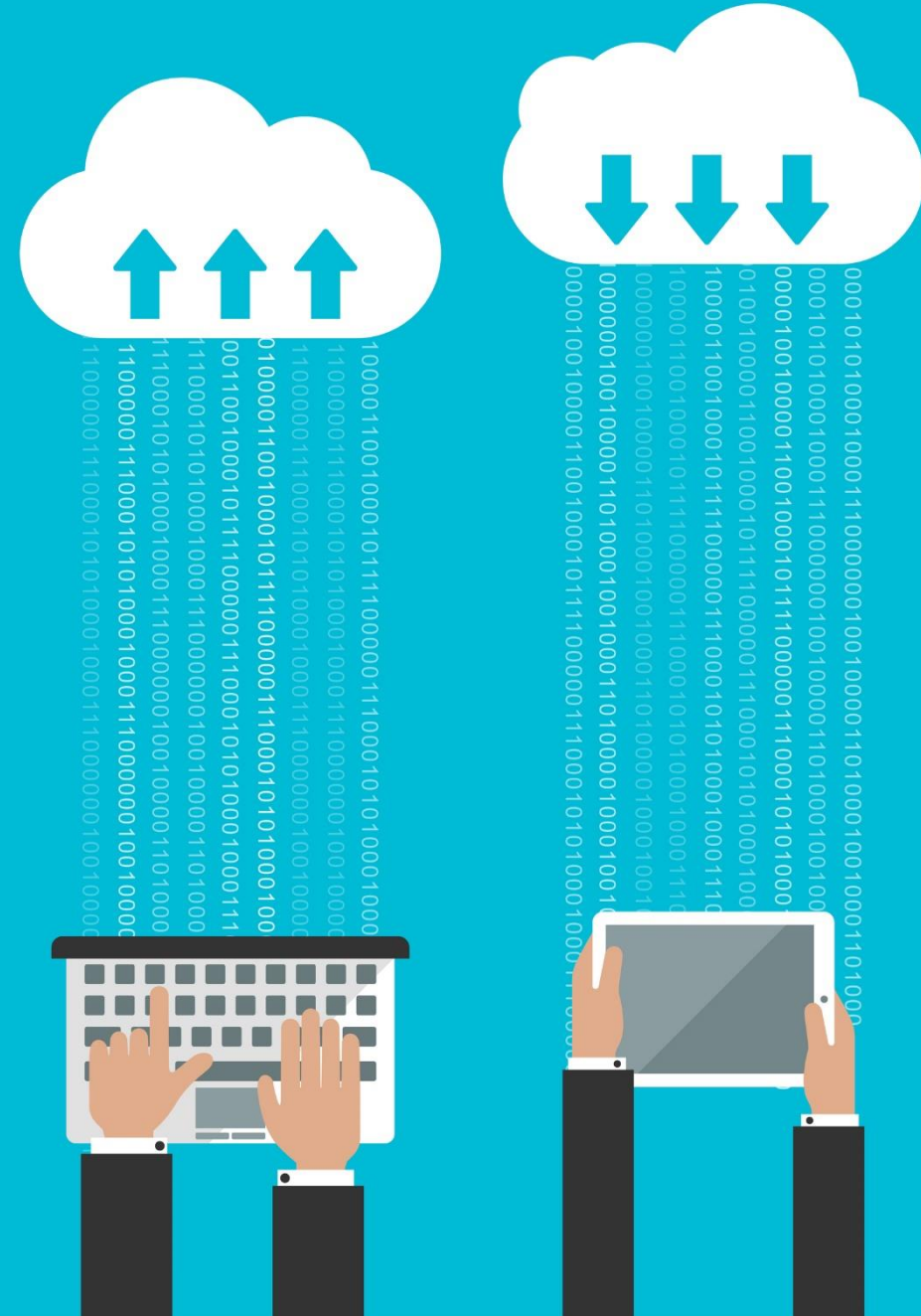
Cloud Computing

The practice of using a network of remote servers hosted on The Internet to store, manage, and process data, rather than using a local server or personal computer

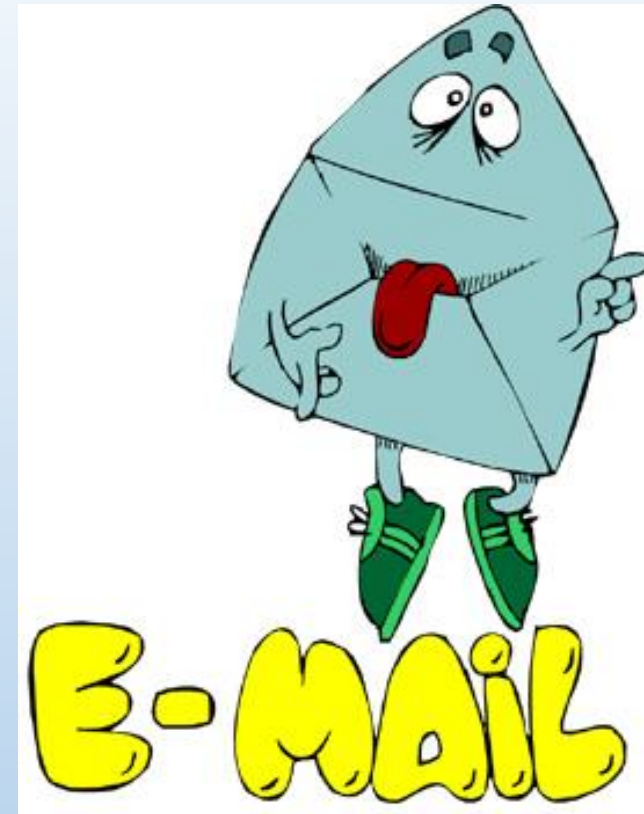
Today's presentation is going to show you how you can take advantage of Cloud Computing – that is access services in The Cloud



*You
already
take
advantage
of it!*



*One of the
most used
Cloud
Computing
services is
Email*



Other Examples:

***Willow Valley
Resident***

Facebook

Playing a game

Your Bank

Live Forward

***Your Financial
Company***

Shopping on line

YouTube

Twitter

Amazon

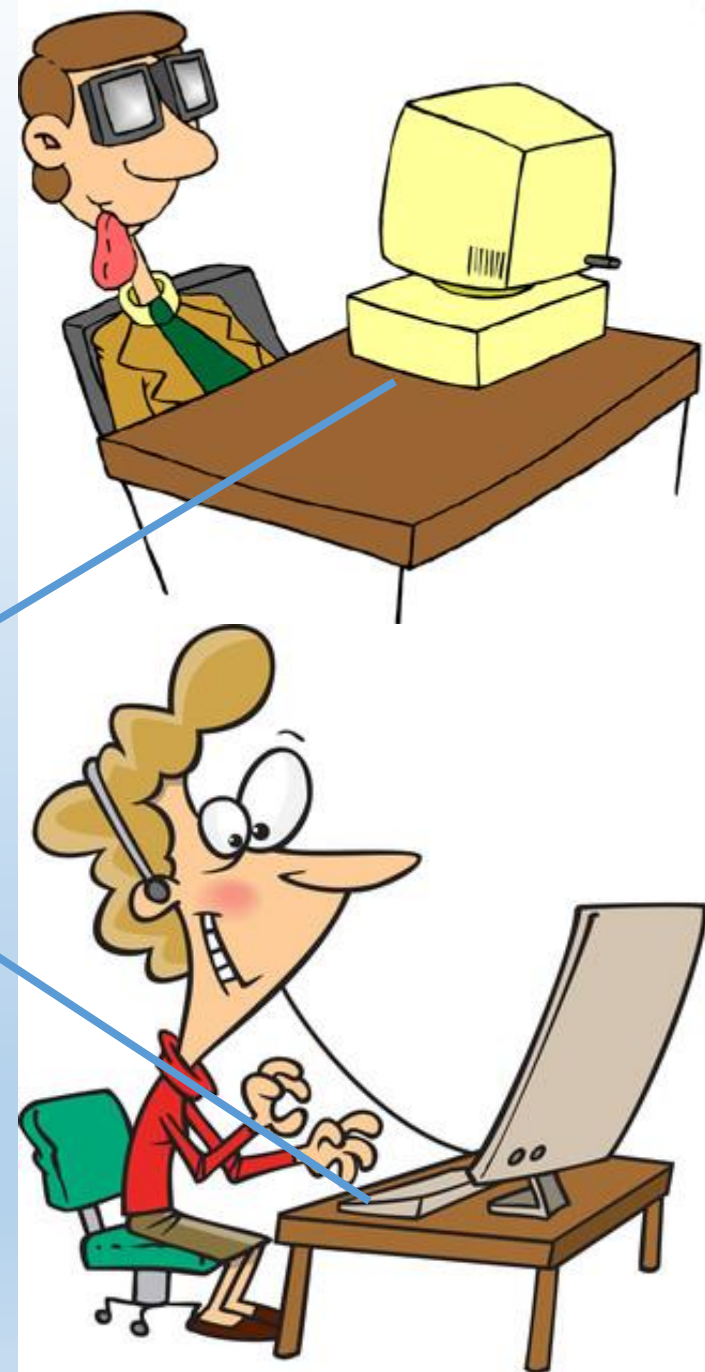
Health Records

***Many web Sites
on the Internet***

*Many people think that
when a bank, email,
etc. is accessed, the
information is on their
computer.*

It Is Not!

Email, Bank,
Financial
Services
Company,
Amazon, etc.



***It is
stored
and
serviced
on the
Servers in
the Cloud***



*Just a little
technical
information so
that you can
picture how
Cloud Computing
Works*



The Cloud

*The Cloud is more than
75 million
interconnected servers
(powerful specialized
computers) with more
than 10 billion users –
using some aspect of
Cloud Computing
Worldwide*



Who invented Cloud Computing?

Cloud computing is believed to have been invented by Joseph Carl Robnett Licklider in the 1960s with his work on ARPANET to connect people and data from anywhere at any time.

ARPANET (Advanced Research Projects Agency) was created for the Department of Defense and is the precursor to the Internet

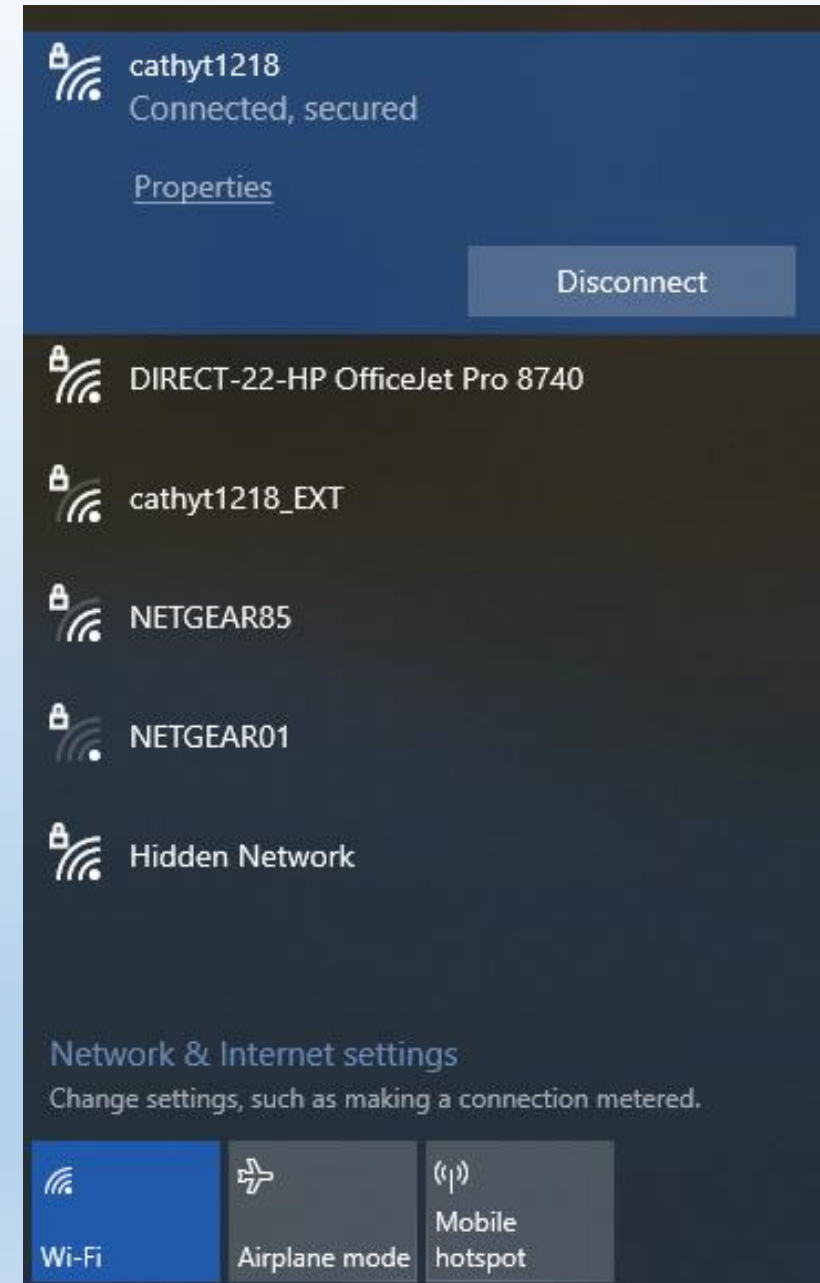


J. C. R. Licklider in 1965. A psycho-acoustician who saw computers as more than calculating machines, he was the first director of ARPA's Information Processing Techniques Office (IPTO). *(Photo courtesy of the MIT Museum)*

***During the early 1990s
ARPANET
metamorphosed into the
INTERNET accessible by
the public***

How do you get to The Internet to use The Cloud or Cloud Computing

You are automatically connected to The Internet and can then make use of The Cloud services unless you turn off your router or router/modem each time you shut down your computer.



You aren't using The Cloud until you open a Browser



*Mozilla
Firefox*



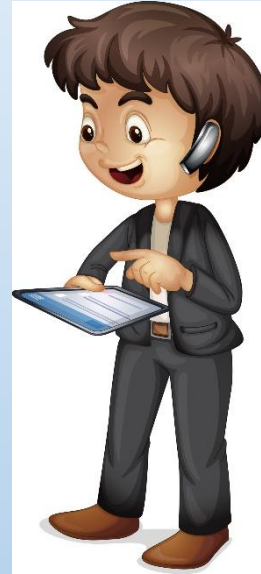
*Google
Chrome*



*Microsoft
Edge*



*Apple
Safari*



*This is true for ANY device that has
access to the Internet*

In order for your browser to log into The Cloud, you must first have an ISP – An Internet Service Provider

For Willow Valley Residents, the Internet Service Providers (ISPs) mostly used are Campus Net, Verizon, or Xfinity (Comcast)

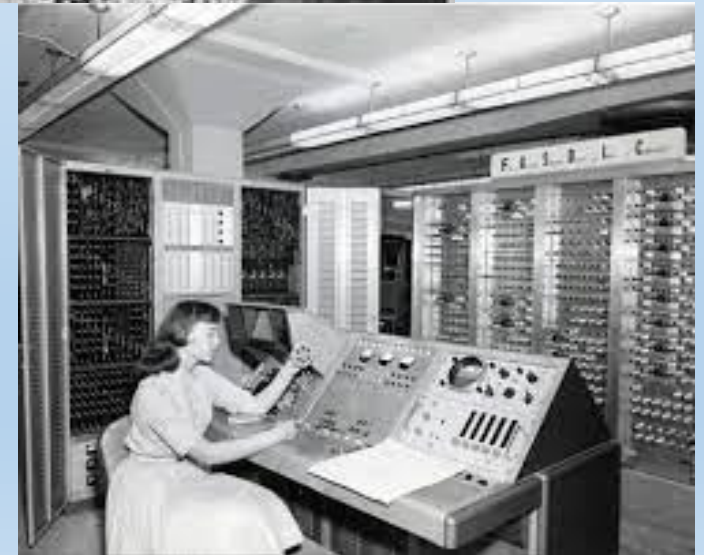
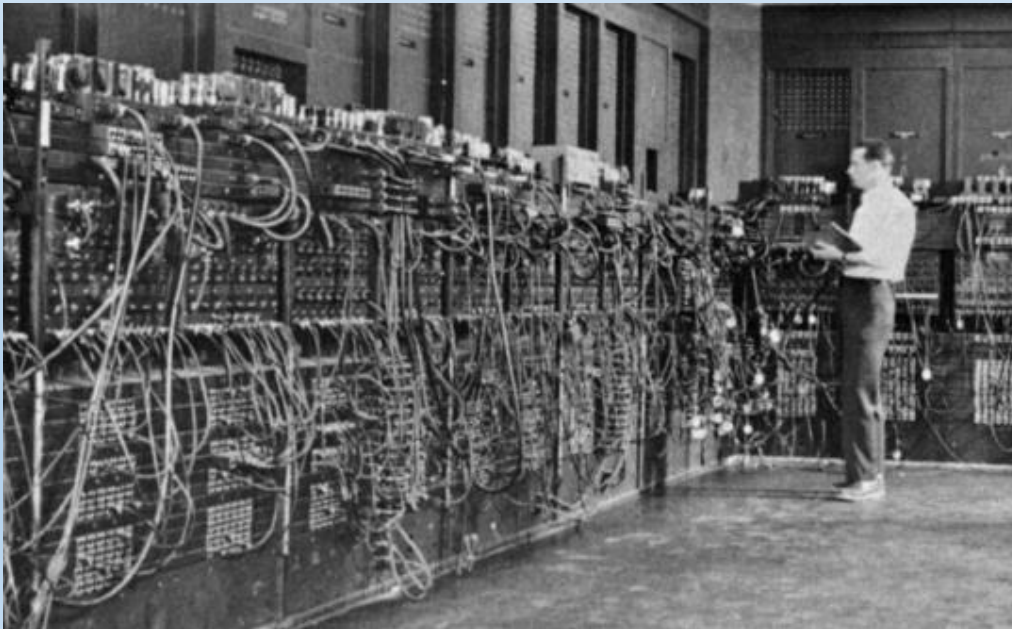
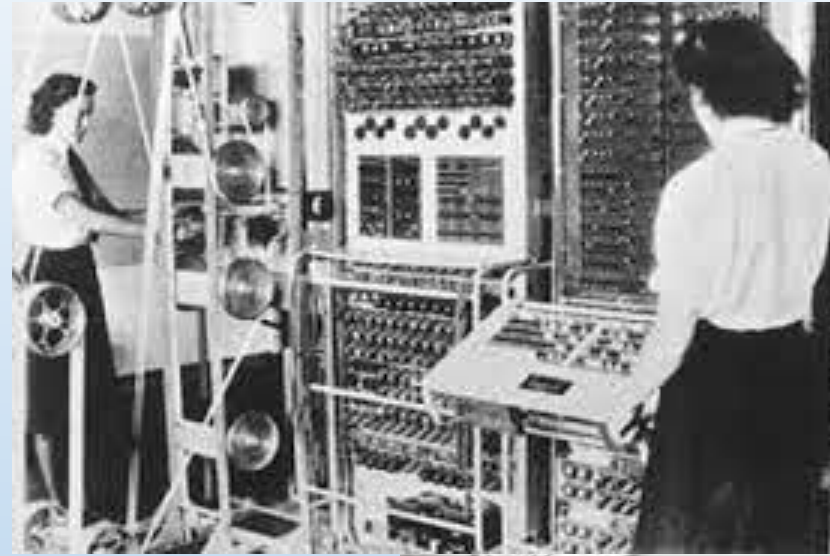


*As soon as you go
anywhere on the
Internet, you are
probably utilizing
Cloud Computing*



So How does Cloud Computing Work? *First, a Little History*

Companies used to purchase, maintain, and replace computer equipment in their own facilities





*Data Centers
were mostly on
the premises of
companies*

*Lots of square
footage and
sophisticated HVAC
was often necessary*

*Specialized
equipment was
required and had to
be purchased,
maintained,
upgraded, and many
times run 24/7*



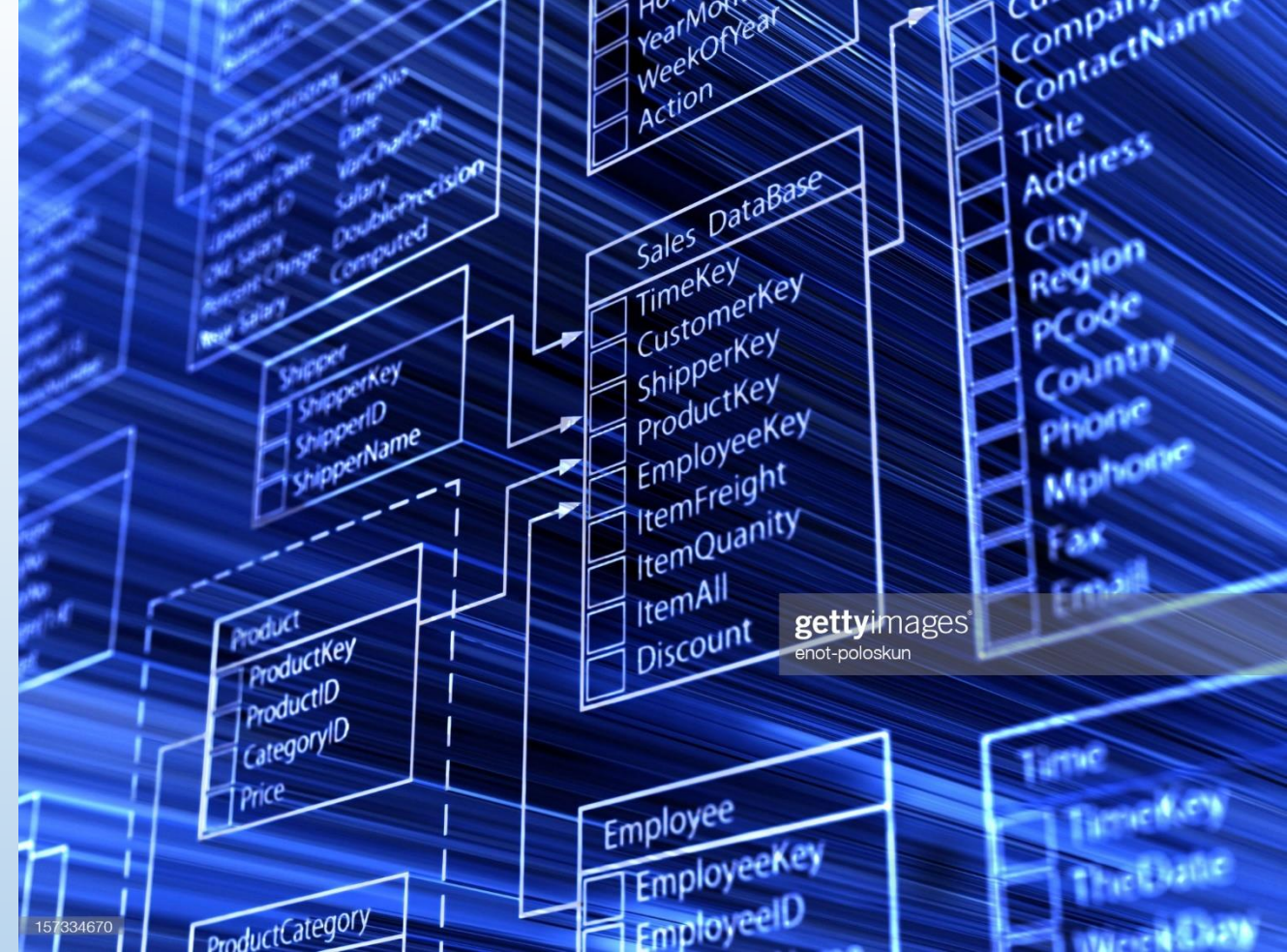
People with special skills were needed



*Maintenance Programmers,
Development Programmers, Data
Managers, Equipment Operators,
a Management Team, etc.*



This included applications like large databases data, runtime, Operating systems, storage, networking, and the servers for all of this including the people to run and maintain it.



Examples: Email, Accounting Systems, Human Resources, Telephones, HVAC, Sales, etc. were all done on the premises of a company. This included Program Development specific to the company and required specialized Programmers

*All of this was
Big Bucks!*



A Cloud Company provides servers and programmers in The Cloud (Internet) that are used instead of or in addition to a company's own equipment and staff AND at a better price!



The 3 Basic types of Cloud Computing are broken into 9 services

Infrastructure as a Service **IaaS**

**Applications, Data,
Runtime, Middleware, Operating System**

Platform as a Service **PaaS**

Applications, Data

Software as a Service **SaaS**

All 9 Cloud Computing Functions

Applications

Data

Runtime

Middleware

Operating
System

Virtualization

Servers

Storage

Networking

Who are the Big Players in Cloud Computing??

Amazon Web Services

Microsoft Azure

Google Cloud Platform

Alibaba Cloud

IBM



60% of all companies use some form of Cloud Computing and the percentage grew by 50% last year

Telecommuting before Cloud Computing

Before wide-spread Telecommuting



Specialized Local Server in Employee's Home



High-Speed Telephone Lines to the person's house were installed





Telecommuting uses The Cloud to provide employees with a cheaper, more reliable, and sometimes faster access from home

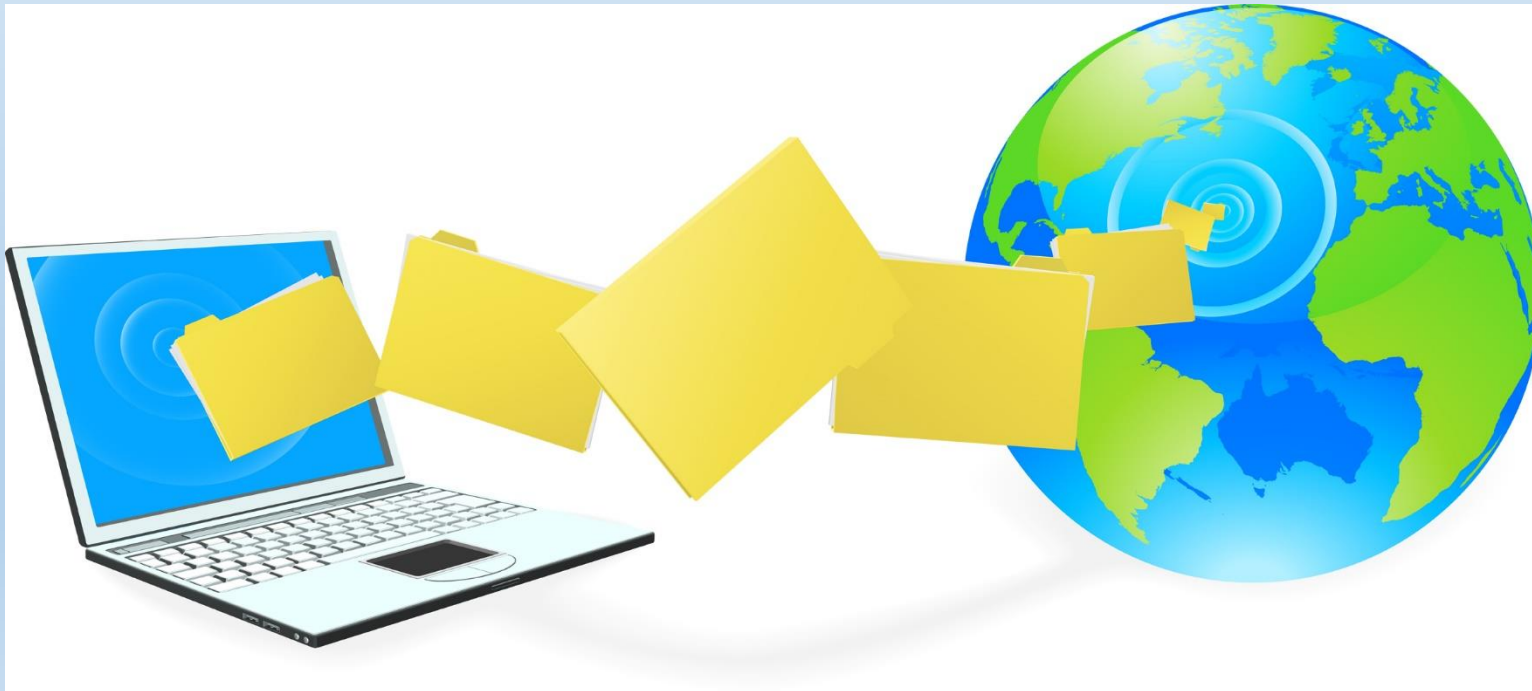
Companies no longer have to purchase or maintain as much equipment or personnel



So Why do you care about all of this?

You already take advantage of these services yourself through the examples given earlier in this presentation.

There are some specialized services that you might be interested in to store, maintain, and share your pictures, documents, etc.



Microsoft OneDrive – part of Microsoft Web Services

An Application built into your Windows 10 operating system for you to store your data in The Cloud, access it from anywhere, and share it with other people you choose



**Google Drive – part of Google Cloud Platform
one of the alternatives to OneDrive**



*OneDrive application
(App) is Built into
Windows 10
Operating System.*

*It is your way to take
advantage of Cloud
Computing by storing
your data in The
Cloud*



OneDrive

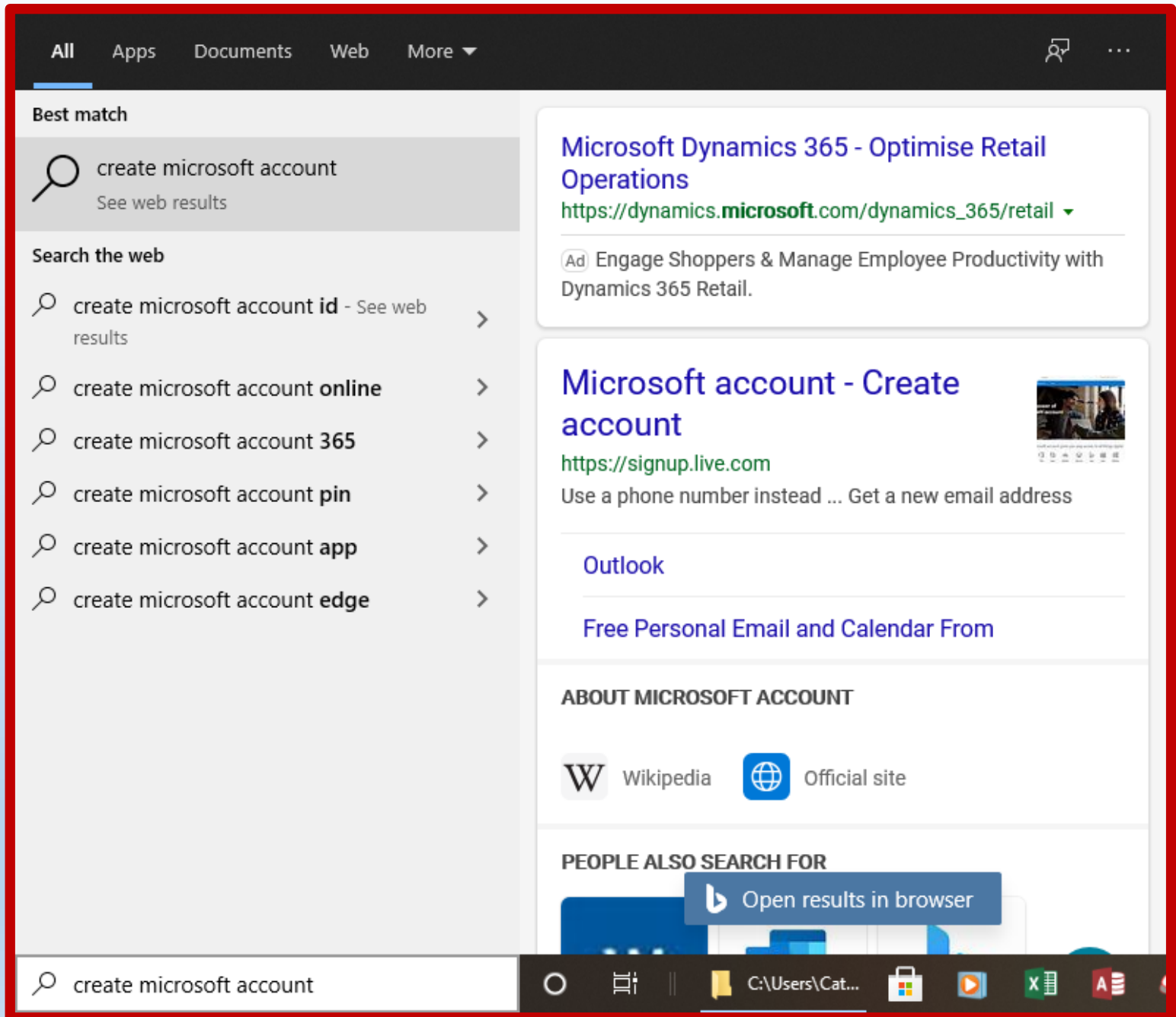
***CAUTION:
You MUST have a Microsoft
Account to use OneDrive***

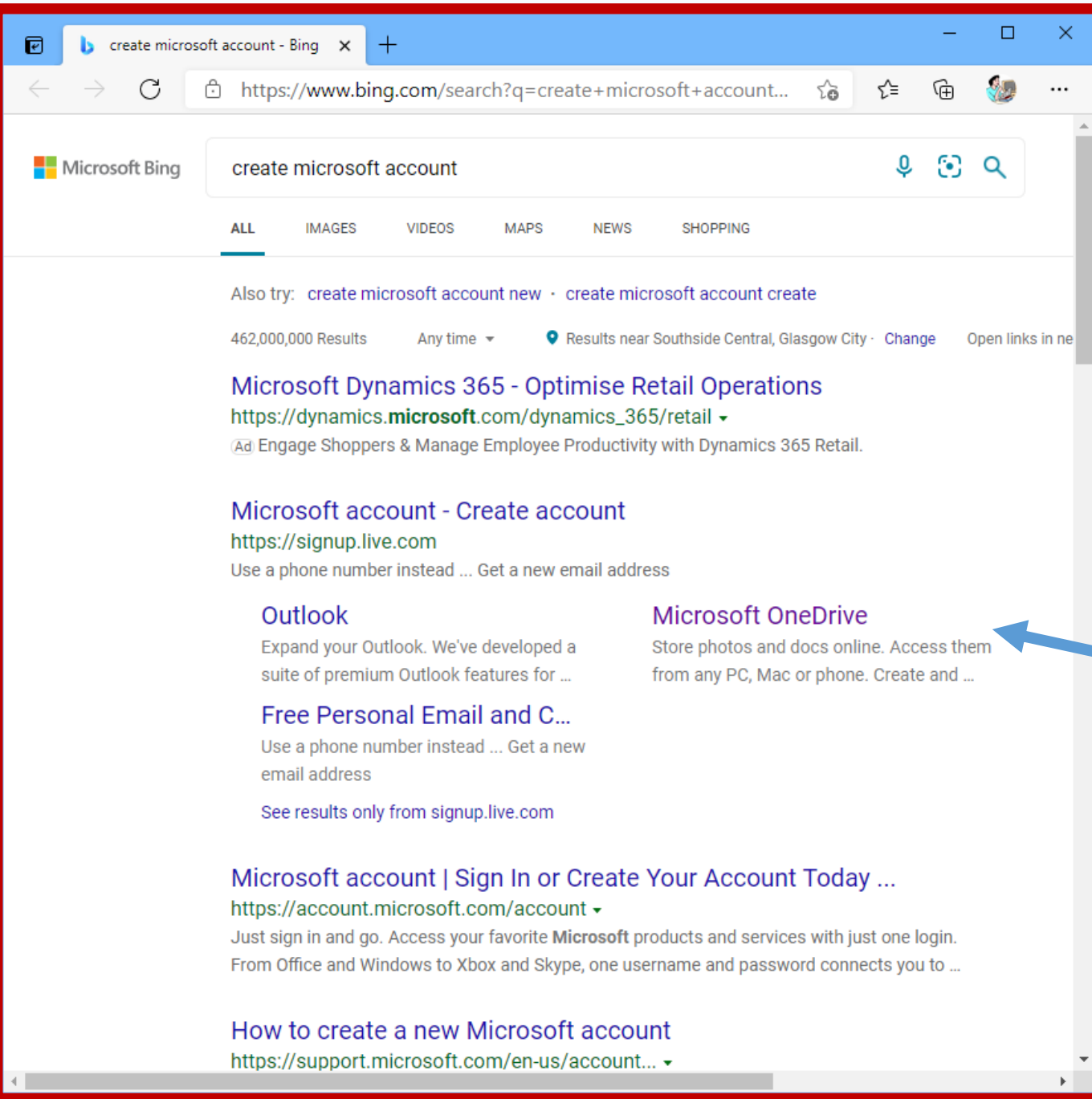
***We are going to look at an Overview
of OneDrive.***

***The following YouTube Video
provides an introduction***



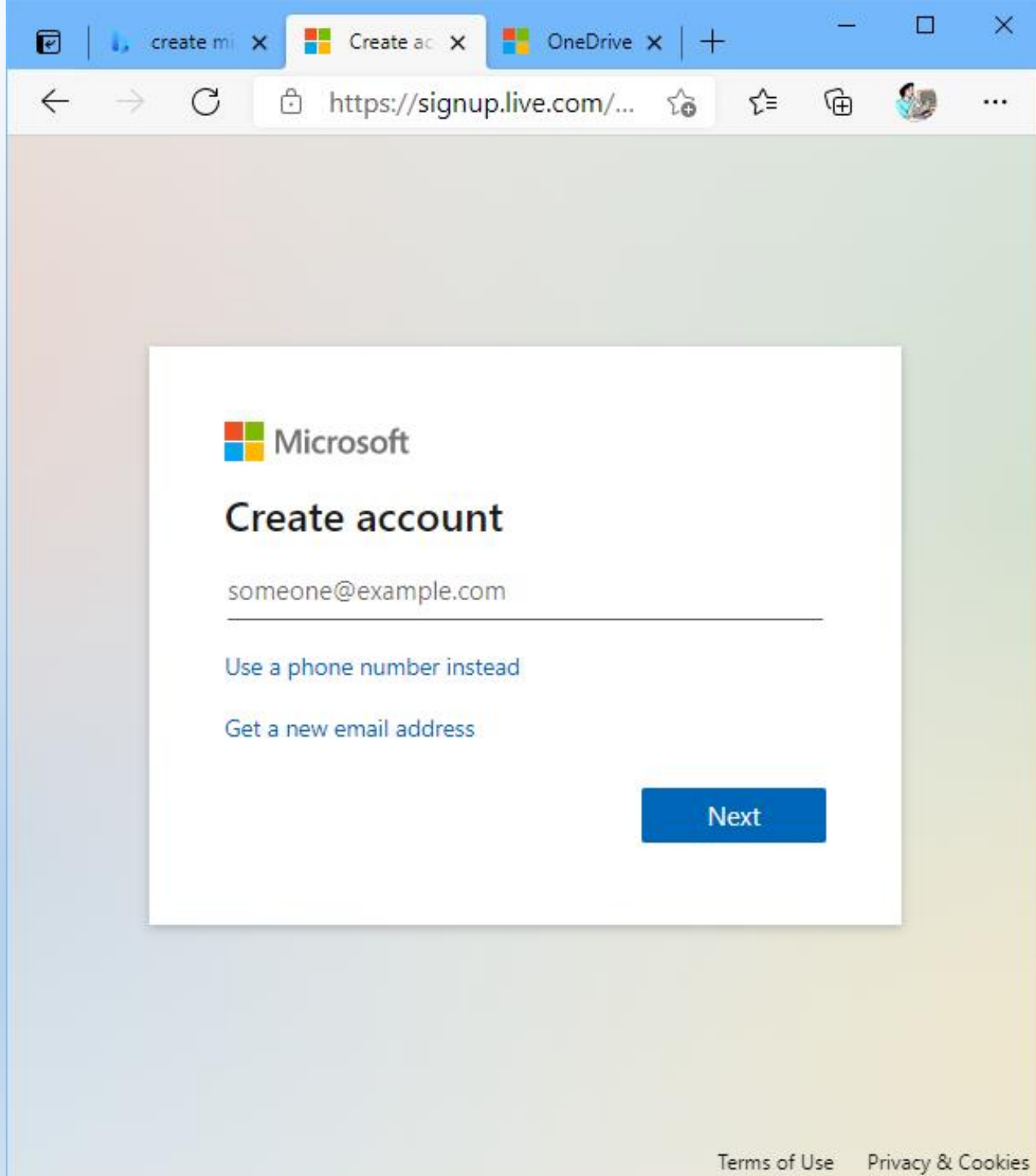
Type Microsoft Account in the Type Here to Search Field at the Bottom Left of the Desktop Screen Press Enter Key






***Click (choose)
Microsoft
OneDrive and
follow the
instructions on the
next web page***


***This screen appears.
Follow the
instructions to set up
your Microsoft
Account. The account
allows you to use
OneDrive***



Best match


 **OneDrive**
App

Apps

 **OneDrive for Business** >

 **OneDriveSetup (1).exe** >

Search the web

 **OneDrive - See web results** >







Folders (1+)

Documents (1+)

Settings (2)



OneDrive
App

-  Open
-  Run as administrator
-  Open file location
-  Pin to Start
-  Pin to taskbar
-  Uninstall

This screen appears.

Click on OneDrive

File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New folder, New item, Easy access

Open: Properties, Open, Edit, History

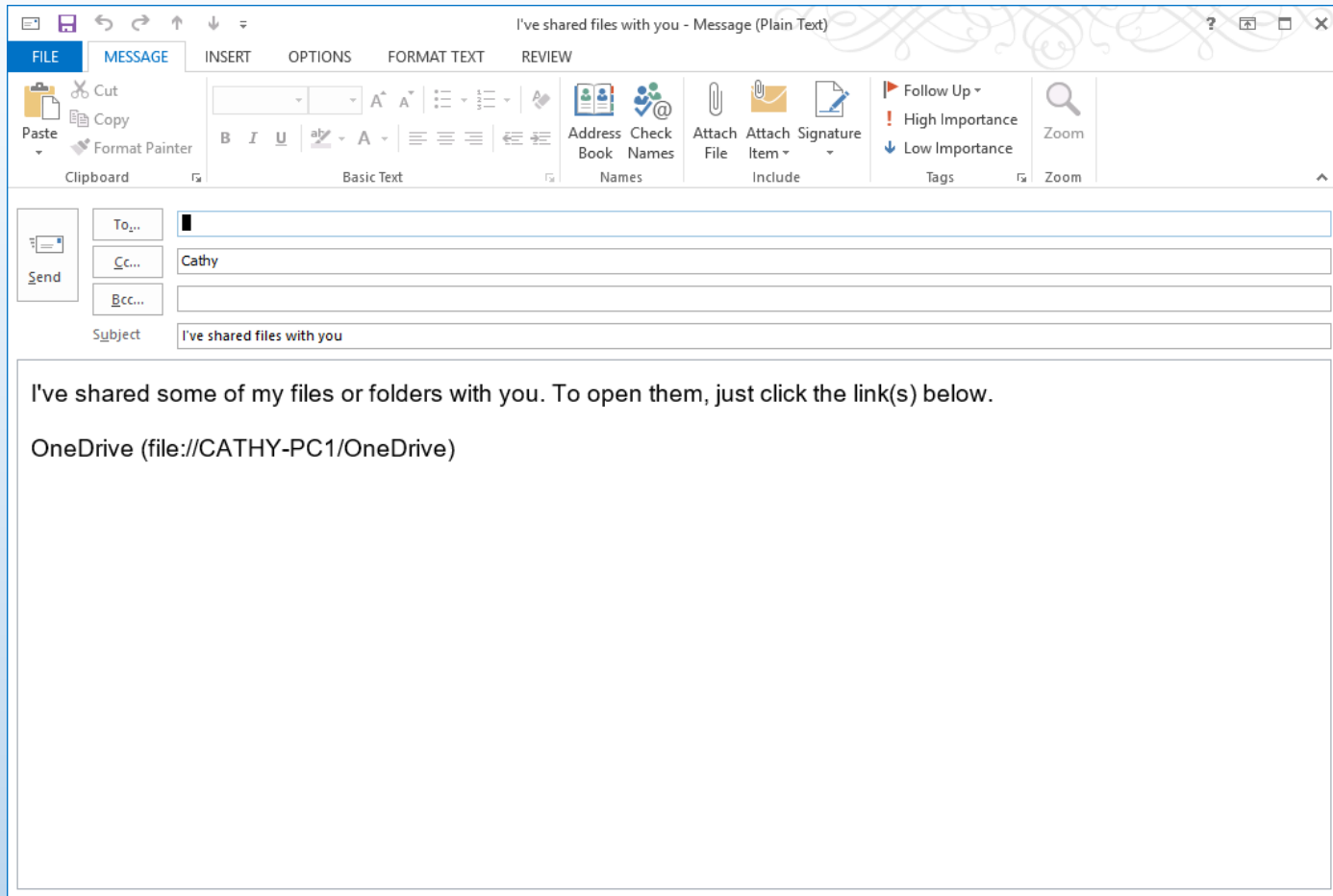
Select: Select all, Select none, Invert selection

OneDrive - Personal

Search OneDrive - Perso...

- Quick access
 - Desktop
 - Downloads
 - Pictures
 - Music
 - Documents
 - 112_04
 - 2021
 - Camera Club Possibilities
 - Licenses
- OneDrive - Personal
 - Documents
 - Pictures
- This PC
 - 3D Objects
 - Desktop
 - Documents
 - Downloads
 - Music
 - Pictures
 - Videos
- Windows OS (C:)
 - 3 items
 - State: Shared

| Name | Status | Date modified | Type | Size |
|----------------|--------|-------------------|-------------|------|
| Documents | | 5/22/2021 9:39 AM | File folder | |
| Pictures | | 5/22/2021 9:39 AM | File folder | |
| Personal Vault | | 5/22/2021 9:39 AM | Shortcut | 2 KB |



Once you have established your OneDrive, you can give access to others for specific folders and files by sending them a link via e-mail

These links are especially useful for sharing information with your family like pictures or specific documents

At this point we are going to watch a video created by Tony Poulos to show you an excellent example of a use for OneDrive.

The example is utilizing OneDrive for the Camera Club



How secure is OneDrive or Google Drive?

OneDrive and Google Drive are just as secure as other items

NOTHING is FULL-PROOF!

OneDrive and Google Drive cannot protect the data at your end of OneDrive on your computer from human error, malicious intrusion like malware and ransomware, your accessing a dangerous web site, or if your password was leaked in a data breach in an Internet site.

Take all of the recommended precautions recommended by the Computer Club

Malwarebytes – Premium Version preferred

Ccleaner

Defraggler

Utilize Win10 Defender as the basic security software – built into Windows 10 –

Avoid Norton, Kasperski, McAfee, BitDefender, Avast.etc.

AND ALWAYS CHECK YOUR UPDATES

***For a Discussion about Security
on OneDrive visit this Blog***

[https://www.nakivo.com/blog
/microsoft-onedrive-security/](https://www.nakivo.com/blog/microsoft-onedrive-security/)

For a Comparison of OneDrive and Google Drive

**[https://spanning.com/blog
/onedrive-vs-google-drive](https://spanning.com/blog/onedrive-vs-google-drive)**