

PWC G8 Gals@Technology

February 2018 – Misc Stuff



Current Topics

- Equifax “Update”
- Fed Dismantle Ukrainian’s \$530 Million Carding Empire
- Intel Meltdown-Spectre Flaw

Equifax

- Mid-May to July 2017 – Attack
- Sept 7 – Breach publicly announced
- Sept 8 – Equifax shares plunge 13.7%
- Sept 12 – CIO and CISO are “retiring”
- Sept 12 – CEO apologizes in op-ed
- Sept 21 – Equifax admits it sent victims of data breach to a bogus website
- Sept 26 – CEO “retires”



Equifax – 10/2/2017

- Equifax late Monday said forensics investigators have concluded that some 2.5 million more US consumers were affected by the data breach it revealed early last month, bringing the total number to 145.5 million.
- The latest victim headcount comes as Mandiant, which is conducting the breach investigation of Equifax, confirmed that the attack only affected the firm's databases in the US. Initial speculation by Equifax that some 100,000 Canadian citizens were affected by the breach were incorrect, according to the company. The actual number was 8,000.
- Equifax said its UK forensics investigation analysis is not yet complete.

Congressional Hearing – 10/3/2017

- “You can’t fix stupid” – Representative Greg Walden, (R) Oregon
- “Equifax response to this breach has been unacceptable. I appreciate that you’re both sorry. My question is: What now?” – Representative Frank Pallone, (D) New Jersey
- “The only way I know to do it is some kind of fine-per-account-hacked that’s large enough that even a company that’s worth \$13 billion would rather protect their data and probably not collect as much data than just come up here and appear and say we’re sorry” – Representative Joe Barton, (R) Texas

“Probable” Breached Data Was Indeed Stolen

- Duh!
- Investigation shows
 - Tally of 145.5 million US victims has not changed
 - BUT – more data was exposed
 - Email addresses
 - Tax identification numbers
 - Drivers License numbers
- Senator Warren’s office issues their report
 - https://www.warren.senate.gov/files/documents/2018_2_7_%20Equifax_Report.pdf
 - Clarify that “access” mean “stolen”
 - Also passport information stolen
 - If breach had occurred under her proposed legislation – 1.5 Billion fine
- Current proposed budget “defunds” CFPB

Equifax Get A New CISO

- On 2/12/2018, Equifax announced Jamil Farshchi
- Join Home Depot in 2015 just months after that retailer suffered a malware attack against point-of-sale systems in more than 2,100 US and Canadian stores that led the 56 million credit and debit card being stolen
- Home Depot report reach-related expenses of \$63 million and numerous law suits are still in court
- CISO will report directly to the CEO

And The Cost To Investors?



Current Topics

- Equifax “Update”
- Fed Dismantle Ukrainian’s \$530 Million Carding Empire
- Intel Meltdown-Spectre Flaw

US DOJ – 2/7/2018

- Ukrainian \$530 Million Carding Empire
- Largest cybercrime “disruption” to close Infracard Organization
- Organization slogan – In Fraud We Trust
- Online forum with 10,901 registered members in March, 2017
- 36 individuals charged (5 actually arrested in the US)
- Online vending
 - Point-of-sale malware
 - Banking Trojans
 - Card details
 - Counterfeit identification

Current Topics

- Equifax “Update”
- Fed Dismantle Ukrainian’s \$530 Million Carding Empire
- Intel Meltdown-Spectre Flaw

Meltdown and Spectre CPU Flaws



- Meltdown is the more serious flaw. It breaks the isolation between user applications and the operating system
- Intel CPUs most strongly effected but also effects AMD and ARM processors.
- This involves all kinds of system (PC, Mac, phones, etc.)
- EVERY Intel process since 1995
- No real “fix”, just better protection but at the price of processor performance (2% to 7% reported). Patch will most likely be a BIOS update

Meltdown and Spectre CPU Flaws

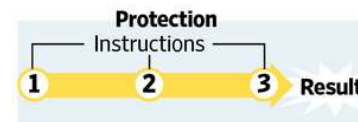


- Proof-of-concept code published by Princeton/NVIDIA on Feb 11

Meltdown

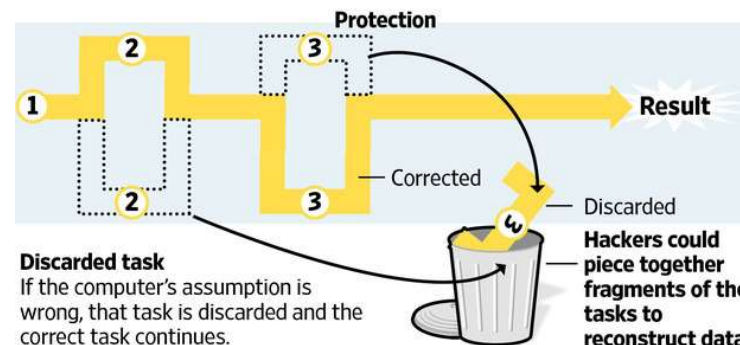
Meltdown and Spectre are two flaws discovered by researchers that exploit a technology used by modern computers.

For years, most computers ran instructions in sequence



Modern processors use 'speculative execution'

Instructions are performed simultaneously to speed performance based on assumptions the computer makes.



Discarded task
If the computer's assumption is wrong, that task is discarded and the correct task continues.

Hackers could piece together fragments of the tasks to reconstruct data.

Source: meltdownattack.com

THE WALL STREET JOURNAL.

Nice New Feature For OneDrive

- Previous, all data in OneDrive was stored both locally and in the Cloud
- This could result in very large files that are primarily for “archive” to be copied to all machines
- New feature allow OneDrive cloud files to be selectively copied to local storage
- For example, 2016 pictures could be kept only in the Cloud OneDrive (with a backup somewhere, of course!) while 2017 and 2018 pictures could be kept both in the Cloud OneDrive and on one or more local machines.
- <https://support.office.com/en-us/article/learn-about-onedrive-files-on-demand-0e6860d3-d9f3-4971-b321-7092438fb38e>

Possible OneDrive Status



Online-only files

Online-only files don't take up space on your computer. You see a cloud icon for each online-only file in File Explorer, but the file doesn't download to your device until you open it. You can't open online-only files when your device isn't connected to the Internet.

Online-only
files

Online-only
files



Locally available files

When you open an online-only file, it downloads to your device and becomes a *locally available file*. You can open a locally available file anytime, even without Internet access. If you need more space, you can change the file back to online only. Just right-click the file and select "Free up space."

Locally
available files

Locally
available files



Always available files

Only files that you mark as "Always keep on this device" have the green circle with the white check mark. These *always available files* download to your device and take up space, but they're always there for you even when you're offline.

Always
available files

Always
available files

Turn on Files On-Demand

Files On-Demand works with all the apps you use today, including Windows desktop apps and apps from the Windows Store. Furthermore, Files On-Demand works with all your personal and work files from OneDrive and SharePoint Online team sites.

1. Make sure you're [signed in to OneDrive](#) on your device.
2. Right-click the white or blue **OneDrive** cloud icon in the notification area, at the far right of the taskbar, and select **Settings**.



(You might need to click the **Show hidden icons** arrow ^ next to the notification area to see the **OneDrive** icon. If the icon doesn't appear in the notification area, OneDrive might not be running. Select **Start**, type **OneDrive** in the search box, and then select **OneDrive** in the search results.)

3. On the **Settings** tab, select the **Save space and download files as you use them** box.
-

Mark a file or folder for offline use or as online-only

1. Right-click a file or folder.
2. Select **Always keep on this device** or **Free up space**.



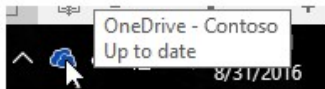
Notes:

- New files or folders created online or on another device appear as online-only to save maximum space. However, if you mark a folder as "Always keep on this device," new files in that folder download to your device as always available files.
- If a folder is online-only, you can still mark individual files within that folder as always available.

Choose a folder to hide on your device

Sometimes you might want to make sure a folder doesn't show up on a device for privacy reasons. For example, you might want to hide a personal folder on a work computer. Here's how you do that.

1. Click the white or blue **OneDrive** cloud icon in the notification area, at the far right of the taskbar.



(You might need to click the **Show hidden icons** arrow ^ next to the notification area to see the **OneDrive** icon. If the icon doesn't appear in the notification area, OneDrive might not be running. Click **Start**, type **OneDrive** in the search box, and then click **OneDrive** in the search results.)

2. In the Activity Center, select the **Settings** gear.
3. Next to the location where you want to choose folders, click select **Choose folders**.
4. Clear the check box next to the folder you want to keep off this device.

Important: Files On-Demand settings are unique to each device, so you may need to do this on each device where you want to keep a folder off.

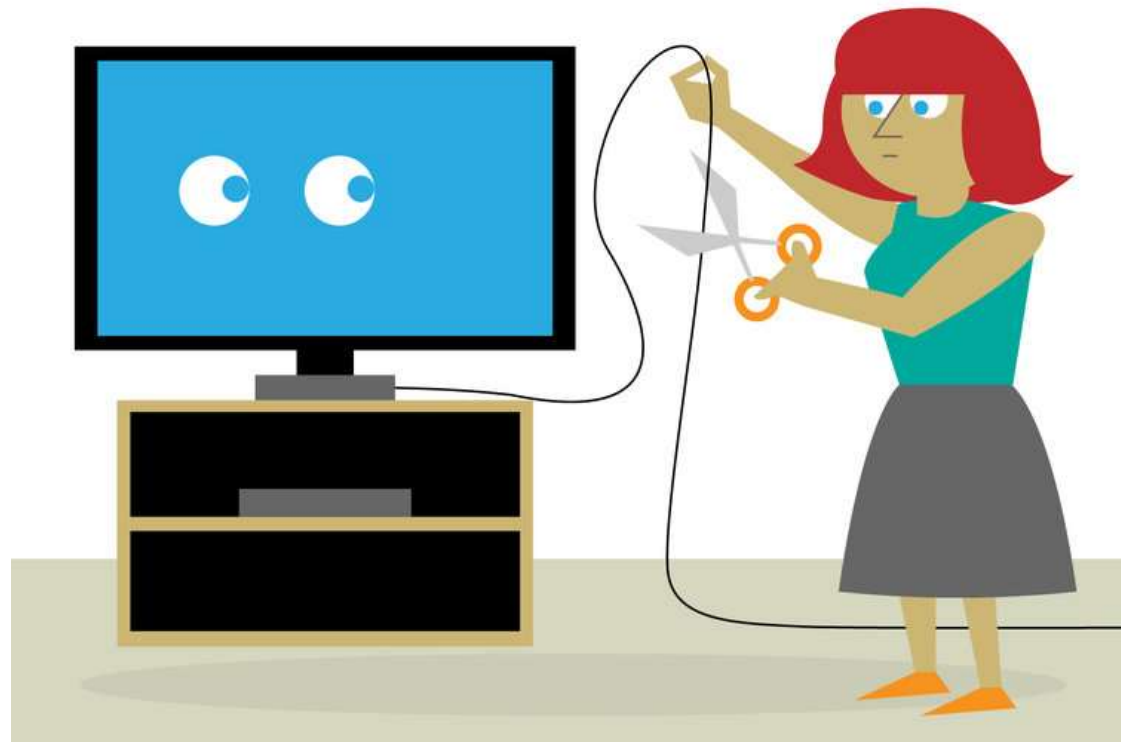
Exit to Example

Copy All or Part of Screen To Clipboard

- Two classic keyboard shortcuts, PrtScn and Alt+PrtScn, copy the full screen or the current window, respectively, to the Clipboard. You can paste that ephemeral capture into a Word document or an image editor to save it for posterity.
- Another new shortcut in Windows 10, Windows key + Shift + S, allows you to select a rectangular region of the screen and copy it to the Clipboard. When you press that key combination, the screen dims and the mouse pointer turns to a crosshair.
- Click to set any corner of the region you want to capture, and then drag to the opposite corner. (A thin red line indicates the region you've selected.) Release the mouse button to finish the capture.

Cutting The Cord

Or are you tired of that ever increasing cable bill?



Cutting The Cord



What it takes

- Number ONE: You need WIFI internet service
- Purchase a TV dongle (TV Dongles work like a mini version of a streaming player. They plug directly into your TV and are usually powered via USB or HDMI. The advantage of a **dongle** is that everything you need is onboard: power, HDMI/USB and internet connection.) **Examples: Amazon Fire Stick, Google Chromecast, Apple TV, Roku.**
- Connect dongle to your TV. Follow instructions to initiate service.
- Contact your cable company and alter your service, which may include returning equipment.
- Or you can try a dongle on one TV just to see if you like it

Amazon Fire TV



- Plugs into HDMI port
- Power from electric plug
- Uses its own Remote
- Now Alexa for voice commands
- Amazon has its own programming

Amazon Fire Stick / Google Chromecast



Fire Stick vs Chromecast

- Has its own remote
- Has free and Prime programming
- HDMI port & power
- Has Amazon content & add apps.
- Use phone or tablet for remote w/ Google App
- No programming
- Plugs into HDMI & USB
- Relies on Apps only

Fire Stick has some apps pre-loaded



- There are plenty of free apps
- I chose to add pay apps: Hulu and Netflix
- Hulu with no commercials is very rich
- Netflix offers plenty to stream
- I am also a Amazon Prime member, so there is original content

Google Chromecast



- Plugs into HDMI port
- Power from USB or electric plug
- No remote. There is an app for your phone, tablet or computer.
- Content. Unlike Amazon there is no programming. Get content from apps.

Apps I use regularly

- Hulu (with subscription)
- NBC news
- NBC
- ABC
- WGN9
- CBS News
- Netflix (with subscription)
- YouTube
- History
- PBS
- Prime Music

Inexpensive Indoor HD Antenna



- Solid Lafayette Signals for
 - ABC
 - NBC
 - CBS
 - FOX

In Summary

- It is a different viewing experience....that is not as immediate as cable.
- You personalize content to you through Apps
- It is nice to unplug from all the cable. Your tv can be anyplace your Wi-Fi reaches.
- Comcast now offers streaming tv to apps on phone/tablet/computer.
-And yes, I would do it again.



<i>SUPPORTED APPS:</i>	AIRPLAY	CHROMECAST
Netflix	✓	✓
YouTube	✓	✓
Hulu Plus	✓	✗
HBO Go	✓	✗
Pandora	✓	COMING SOON
Spotify	✓	✗
Rdio	✓	✗
Mirroring	✓	Chrome browser only
HD Playback	1080p	1080p
Dual-screen gaming	✓	✗
Streaming	Device to device	Cloud only
Third-party API	✓	✓
Certified 3rd party hardware	✓	✗
<i>PLATFORM SUPPORT</i>		
iOS	✓	✓
Android	✗	✓
Windows	✗	✓
OS X	✓	✓
Chrome OS	✗	✓
Windows Phone 8	✗	✗
Hardware remote	✓	✗



Mirror Option

2 Options

Direct “in app” play to device
Screen Mirroring (full or second screen)

Airparrot 2



AirParrot 2™

- Support Windows, MacOS, Chromebook
- Add Chromecast Mirror support
- \$12.99

Fast & Furious 6.mp4
Apple TV, My Chromecast Device, Upsta...

00:00:09

FROM

- Display 1 (1366 x 768)
- Application >
- Audio Only >
- Media >

TO

Quick Connect™ Code

- Apple TV
- My Chromecast Device
- Upstairs Apple TV
- Office Computer
- Family Room Speakers



**"It's the latest innovation in office safety.
When your computer crashes, an air bag is activated
so you won't bang your head in frustration."**