"Security is a Mission not an Intermission"

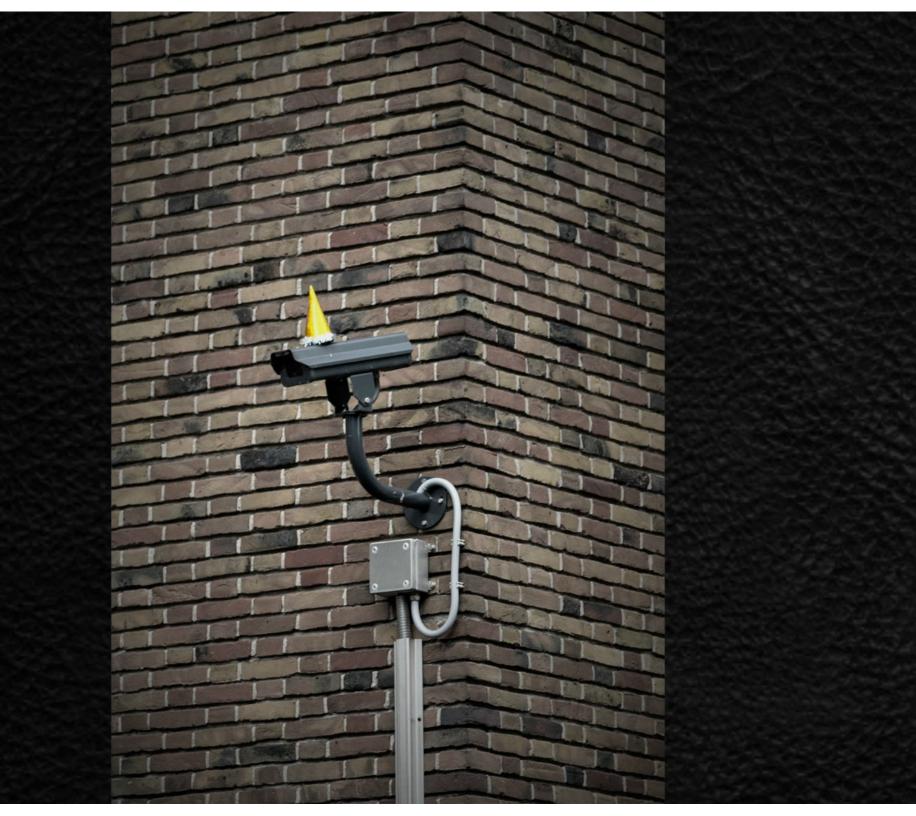
David Balcar

Security Strategist dbalcar@carbonblack.com

@network232

Threat Landscape











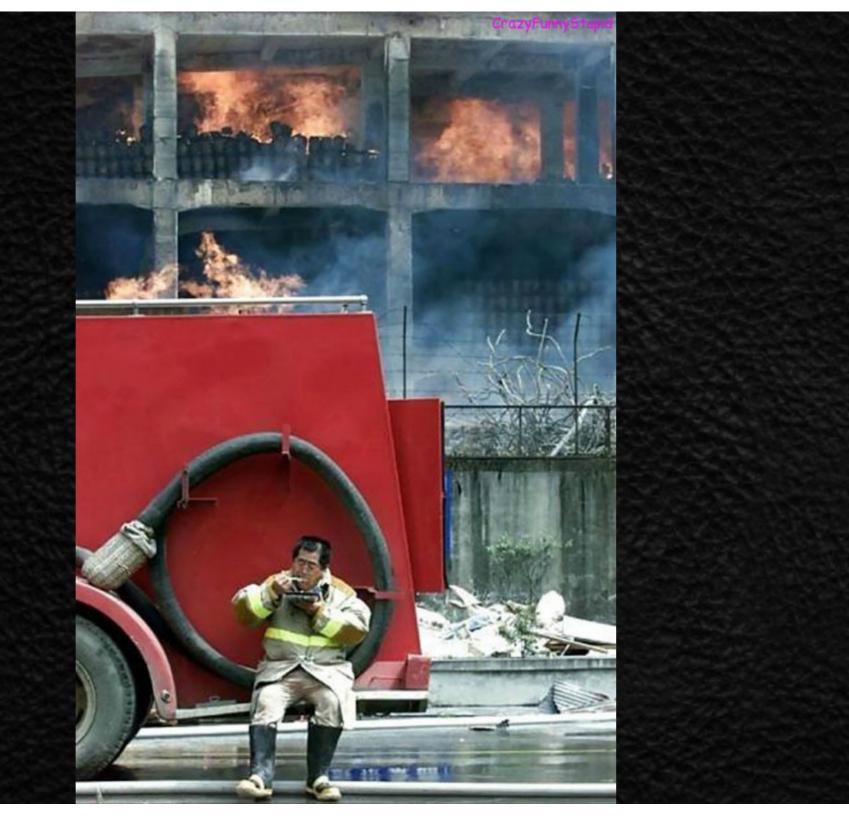




SECURITY WILL RETURN IN 5 MINUTES

Please ring their if he response page quard of your atom at 100 and reput 1118









Enterprise Security Trends for 2018

Most advanced threats targeting basic vulnerabilities and the human factor

Visibility gap and lack of operational information with growing IT sophistication



Perimeter Security is overestimated

Targeted Attacks could be undetected for many months and even years with traditional security solutions

Just the Facts!



Just the Facts!

February 28, 2017 by LIFARS

IoT Teddy Bear Leaks 2 Million Recordings of Parents' and Kids' Messages

The manufacturer of Internet-connected "smart" teddy bears has leaked the credentials of over 800,000 user accounts and millions of personal messages between parents and their children, which hackers then exploited for a ransom.

Researchers found CloudPets could be hacked via their unsecured Bluetooth connection

Furbies banned at US spy base

By Andrew Marshall in Washington | Thursday 14 January 1999 00:02 GMT | 💭

Internet of Threats...

It's getting ridiculous...

USB Exploit Affects Nine Years of Intel Processors

A security firm says that a USB exploit can be used to run unsigned code on nearly all machines with Intel inside.

Christine Hall | Nov 13, 2017

Google Working To Remove MINIX-Based ME From Intel Platforms

by Leon Chan November 8, 2017 at 7:45 AM

https://www.networkworld.com/article/3236064/servers/minix-the-most-popular-os-in-the-world-thanks-to-intel.html http://www.tomshardware.com/news/google-removing-minix-management-engine-intel,35876.html https://boingboing.net/2016/06/15/intel-x86-processors-ship-with.html

Google Working To Remove MINIX-Based ME From Intel Platforms

by Leon Chan November 8, 2017 at 7:45 AM

3236064/servers/minix-the-most-popu

oogle-removing-minix-management-e

New meaning to locking up the cyber criminals...



In analysis of the hard drives found on the computers reveal that prisoners also used ne technology to search records of fellow inmates, acquire official passes to access ertain restricted areas in the prison, research tax fraud, and apply for credit cards. The omputers were able to be installed without detection because some inmates articipating in special community-related programs at the Marion Correctional astitution were not constantly monitored.

In the News...

Former Microsoft Engineer Gets Prison for Role in Reveton Ransomware

🗎 August 14, 2018 🛔 Wang Wei

Samas Ransomware Deletes Veeam Backups, And Maybe Yours Too...

Stu Sjouwerman

Chicago Police Department Pays \$600 Cryptoware Ransom to Cybercriminals

🛗 February 22, 2015 🙎 Wang Wei

16-Year-Old Teen Hacked Apple Servers, Stole 90GB of Secure Files

August 17, 2018 Amohit Kumar

In the News...

Ransomware Attack Wipes Out Police and Fire Department Data

MAY 13TH, 2018

WAOAS

MALWARE, SECURITY

Q 0 COMMENTS

In the city of Riverside's case, it is unclear if there was any ransom demand from the attackers though Carpenter confirmed that attackers were able to wipe out eight hours worth of data from the server. The good news, however, is that the city kept a back up of its data.

"Everything was backed-up, but we lost about eight hours worth of information we have to re-enter," he said. "It was our police and fire records, so we just re-enter the reports," said Carpenter.

In the News...

Will your backups protect you against ransomware?

The headlines are full of reports about institutions such as hospitals and police departments, organizations that should have business continuity plans in place with solid backup strategies



The Police Department in Cockrell Hill, Texas, admitted in a press release that they lost 8 years' worth of evidence after the department's server was infected with ransomware.

The lost evidence includes all body camera video, and sections of in-car video, in-house surveillance video, photographs, and all their Microsoft Office documents. OUCH.

The department says the infection was discovered on December 12, last year, and the crooks asked for a \$4,000 ransom fee to unlock the files.

After consulting with the FBI's cyber-crime unit, the department decided to wipe their data server and reinstall everything. Data could not be recovered from backups, as the backup procedure kicked in shortly after the ransomware took root, and backed up copies of the encrypted files.

An advanced persistent threat is a set of stealthy and continuous computer hacking processes, often orchestrated by human(s) targeting a specific entity. An APT usually targets organizations and/or nations for business or political motives. APT processes require a high degree of covertness over a long period of time

Yes I Know...



Way over used term...

Say it isn't so...

From stolen Digital Signatures to infected firmware to attached hardware devices.



Code Signing Certificates Up for Sale on the Dark Web

By Richard - November 10, 2017

According to the findings, the certificates are readily available in dark web markets and are going for up to \$1,200. This hefty price tag essentially means that the certificates are costlier than handguns, credit cards, as well as counterfeit United States passports.



The World's Most Sophisticated Malware Ever Infects Hard Drive Firmware "Equation group" Feb 2015





I can't make this stuff up...

Keylogger Found in Audio Driver of HP Laptops

By Catalin Cimpanu

May 11, 2017



WebSites Found Collecting Data from Online Forms Even **Before You Click Submit**

mati Tuesday, June 20, 2017 Swati Khandelwal

World's Biggest Botnet Just Sent 12.5 Million Emails With Scarab Ransomware

🛗 Sunday, November 26, 2017 🛮 🚨 Swati Khandelwal

Former IT Admin Accused of Leaving Backdoor Account, Accessing It 700+ Times

By Catalin Cimpanu

March 18, 2017 07:32 AM 0

I can't make this stuff up...









Intel Warns Users Not to Install Its 'Faulty' Meltdown and

inside"

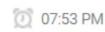
Spectre Patches

inside"



By Catalin Cimpanu

January 30, 2018 0 07:53 PM





15-Year-Old Schoolboy Posed as CIA Chief to Hack Highly **Sensitive Information**

friday, January 19, 2018 Amohit Kumar 🔓 Friday, January 19, 2018





Remember "Crackas With Attitude"? A notorious pro-Palestinian hacking group behind a series of embarrassing hacks against United States intelligence officials and leaked the personal details of 20,000 [...]

Intel Warns Users Not to Install Its 'Faulty' Meltdown and Spectre Patches

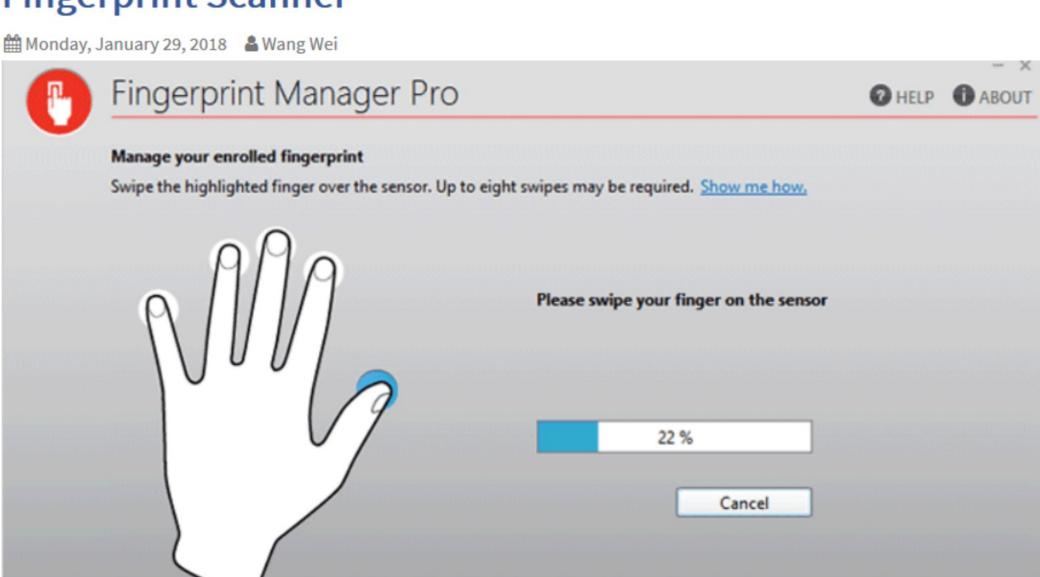
Tuesday, January 23, 2018 & Swati Khandelwal **SPECTRE MELTDOWN** inside™ inside™

Yikes! Three armed men tried to rob a Bitcoin Exchange in Canada

🛗 Wednesday, January 24, 2018 🛮 🚨 Wang Wei



Hard-coded Password Lets Attackers Bypass Lenovo's Fingerprint Scanner



Heat Map Released by Fitness Tracker Reveals Location of Secret Military Bases

Monday, January 29, 2018 Swati Khandelwal

STRAVA | LABS | Projects | Stravacom | Careers



Protect your Data!

Offsite?

Air gap?

Which media?

How many copies?





For 2017 the ITRC reported 1,579 breaches

As of Sept 5, 2018 there has been 864 reported breaches

https://www.idtheftcenter.org/wp-content/uploads/2018/09/2018-August-Data-Breach-Package.pdf

DAVE'S



- 10. Treat your network as a hostile environment, always assume breached
- 9. Nobody is immune to malware infection so have your post breach strategy ready
- 8. Don't forget about the insider threat
- 7. Always do #2
- 6. Know your network & Log everything

DAVE'S



- 5. Backup, Backup then test your backups
- 4. Train your Security staff
- 3. Security awareness for everyone
- 2. Patch, Patch, & Patch... Refer back to #7
- 1. Alec Baldwin was not available