

PWC G8 Gals@Technology

Security Update

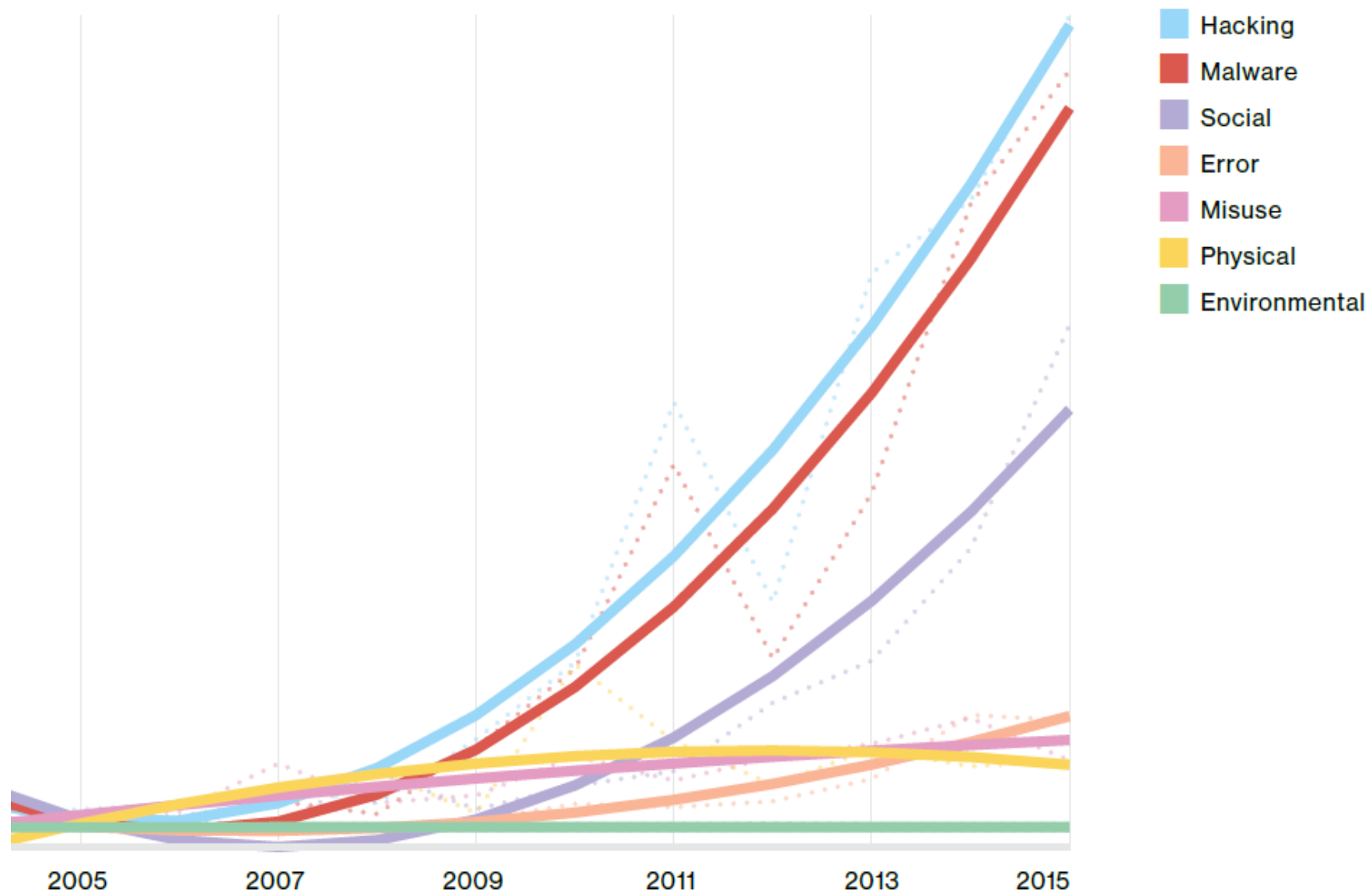
Current Topics

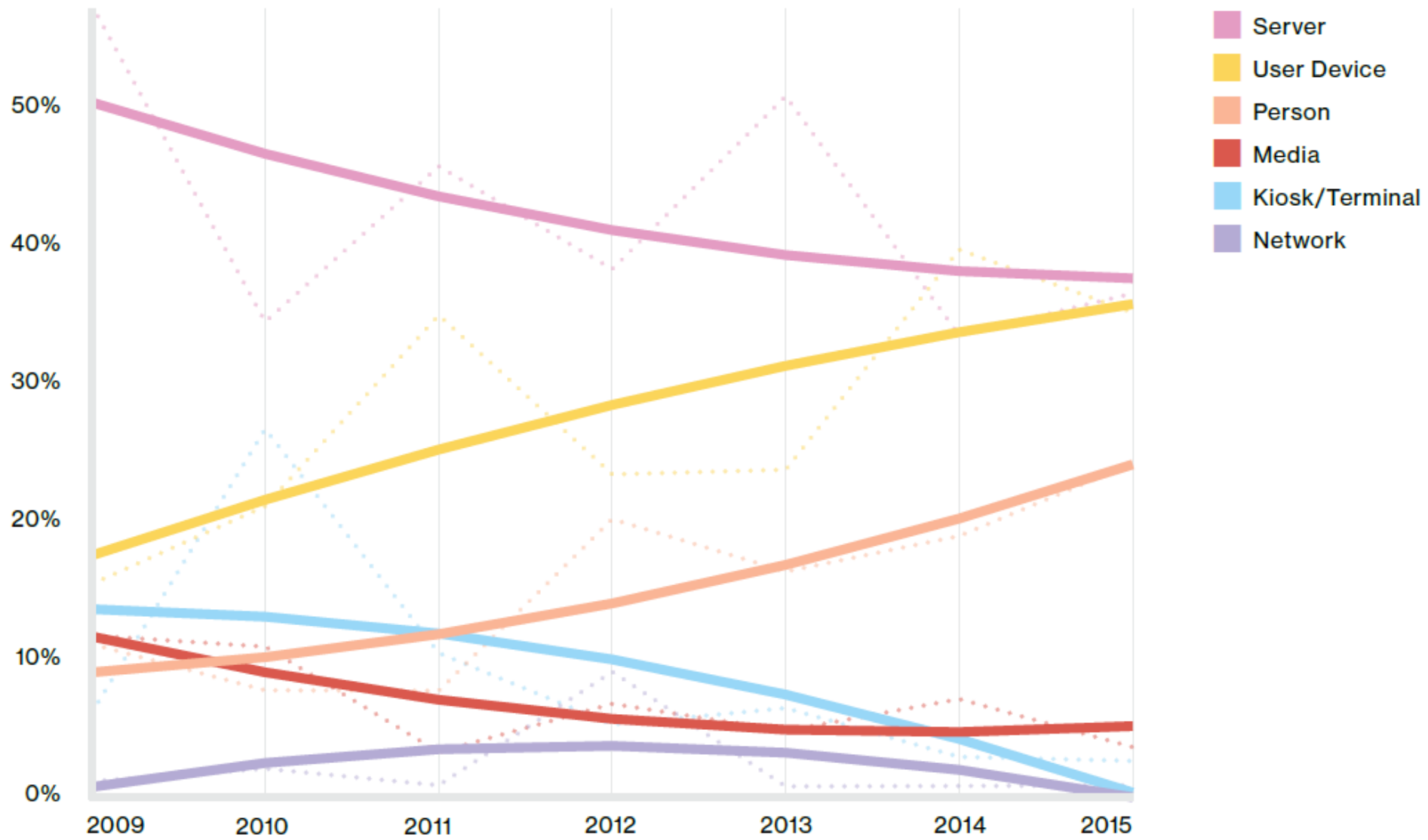
- Samsung Note 7– FIRE!!!!
- Google “Pixel” Phone – possible “best” Android phone (\$650)



Agenda

- State of the world
- What Can I Do?
- Backup & Restore Point
- Secure Networks
- Online Shopping
- Social Media
- Resources





The Situation in 2016

- Ransomware is dominating the malware market
- Cyber-espionage
- Exploit kits becoming better. 80% involve Adobe Flash exploits.
- Vulnerability in enterprise applications are providing new vectors
- Users not installing patches in a timely manner giving more “time to operate” for hackers.

What Can I Do?

- ***Create*** strong passwords
 - Never a valid word in any language dictionary
 - Use special characters
 - At least 8 characters

Name	Dashlane 4	Zoho Vault	LastPass 4.0 Premium	Sticky Password Premium	Keeper Password Manager & Digital Vault 8	LogMeOnce Password Management Suite Ultimate	Password Boss Premium	RoboForm Everywhere 7	RoboForm Desktop 7	True Key by Intel Security
Lowest Price	\$39.99 Dashlane - Synced	\$12.00 Zoho	\$12.00 LastPass	\$14.99 Special Offer	\$29.99 Keeper Security	\$39.00 LogMeOnce	\$29.99 Password Boss	\$19.95 RoboForm	\$29.95 RoboForm	\$19.99 MSRP
	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	
Editor Rating	●●●●● EC	●●●●○	●●●●● EC	●●●●● EC	●●●●○	●●●●○	●●●●○	●●●●○	●●●●○	●●●●○
Import From Browsers	✓	✗	✓	✓	✗	✓	✓	✓	✓	✓
Import From Competitors	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓
Two-Factor Authentication	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export Data	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
Automatic Password Capture	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓
Automatic Password Replay	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓
Fill Web Forms	✓	✗	✓	✓	✗	✓	✓	✓	✓	✗
Multiple Form-Filling Identities	✓	✗	✓	✓	✗	✓	✓	✓	✓	✗


What Can I Do?

- ***Create*** strong passwords
- Install and ***maintain*** antivirus software
- ***Apply*** software patches as soon as possible/reasonable
- Be ***cautious*** with email attachments and links
- ***Remove*** unused and/or unnecessary software
- ***Secure*** your web browser settings
- Enable and ***configure*** firewalls

What Can I Do?

- ***Maintain*** backups and restore plan
- ***Create*** full disk image backup/recovery drive
 - Microsoft Windows Capability
 - Commercial software (e.g. Acronis True Image \$22/\$35/\$50)

Restore Point

 Control Panel\All Control Panel Items\Recovery

  > Control Panel > All Control Panel Items > Recovery

[Control Panel Home](#)

Advanced recovery tools

[Create a recovery drive](#)

Create a recovery drive to troubleshoot problems when your PC can't start.

[Open System Restore](#)

Undo recent system changes, but leave files such as documents, pictures, and music unchanged.

[Configure System Restore](#)

Change restore settings, manage disk space, and create or delete restore points.

[If you're having problems with your PC, go to Settings and try resetting it](#)

What Can I Do?

- Only connect to “secure” networks
- Secure your home network
 - Change default user id and password
 - Change default SSID
 - Disable WPS
 - Disable UPnP
 - Use WPA2/AES encryption
 - Limit WLAN signal strength is possible
 - Use current firmware
 - Disable remote management
 - Monitor for unknown devices

Wireless Security w10 [Help](#) [more...](#)

Physical Interface w10 SSID [PAL-N] HWAddr [00:1A:70:E1:32:31]

Security Mode: WPA2 Personal
WPA Algorithms: AES
WPA Shared Key: [masked] Unmask
Key Renewal Interval (in seconds): 3600 (Default: 3600, Range: 1 - 99999)

Security Mode:
You may choose from Disable, WEP, WPA Personal, WPA Enterprise, or RADIUS. All devices on your network must use the same security mode. With N-Mode you must use WPA2/AES.

Wireless Security w11

Physical Interface w11 SSID [PAL] HWAddr [DC:FB:02:5E:DA:B1]

Security Mode: WPA2 Personal
WPA Algorithms: AES
WPA Shared Key: [masked] Unmask
Key Renewal Interval (in seconds): 3600 (Default: 3600, Range: 1 - 99999)

Advanced Wireless Settings

Advanced Settings

Authentication Type	<input checked="" type="radio"/> Auto <input type="radio"/> Shared Key	(Default: Auto)
Basic Rate	Default	(Default: Default)
MIMO - Transmission Fixed Rate	Auto	(Default: Auto)
Transmission Fixed Rate	Auto	(Default: Auto)
CTS Protection Mode	<input checked="" type="radio"/> Auto <input type="radio"/> Disable	(Default: Auto)
Frame Burst	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
Beacon Interval	100	(Default: 100ms, Range: 10 - 65535)
DTIM Interval	1	(Default: 1, Range: 1 - 255)
Fragmentation Threshold	2346	(Default: 2346, Range: 256 - 2346)
RTS Threshold	2347	(Default: 2347, Range: 0 - 2347)
Max Associated Clients	128	(Default: 128, Range: 1 - 256)
AP Isolation	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	(Default: Disable)
TX Antenna	Right	(Default: Auto)
RX Antenna	Auto	(Default: Auto)
Preamble	Long	(Default: Long)
Shortslot Override	Auto	(Default: Auto)
TX Power	71	(Default: 71, Range: 1 - 1000mW)
Bluetooth Coexistence Mode	Disable	(Default: Disable)
Wireless GUI Access	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	(Default: Enable)

Help more...

Authentication Type:
You may choose from Auto or Shared Key. Shared key authentication is more secure, but all devices on your network must also support Shared Key authentication.

Radio Time Restrictions:
Click any hour to enable or disable the radio signal (*green* indicates allowed Wireless access, and *red* indicates blocked Wireless access)

Radio Time Restrictions

Radio Scheduling	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	(Default: Disable)
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Wireless Multimedia Support Settings

WMM Support	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	(Default: Enable)
No-Acknowledgement	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	(Default: Disable)

System Information

Router		Services	
Router Name	SLKSys AP	DHCP Server	Enabled
Router Model	Buffalo WZR-600DHP2	WRT-radauth	Disabled
LAN MAC	00:1A:70:E1:32:31	WRT-rflow	Disabled
WAN MAC	00:1A:70:E1:32:2F	MAC-upd	Disabled
Wireless MAC	DC:FB:02:5E:DA:B1	CIFS Automount	Disabled
WAN IP	68.39.5.238	Sputnik Agent	Disabled
LAN IP	192.168.1.1	USB Support	Disabled

Wireless		Memory	
Interface	wl1	Total Available	250.1 MB / 256.0 MB
Radio	Radio is On	Free	222.1 MB / 250.1 MB
Mode	AP	Used	28.0 MB / 250.1 MB
Network	Mixed	Buffers	3.8 MB / 28.0 MB
SSID	PAL	Cached	10.6 MB / 28.0 MB
Channel	1	Active	4.5 MB / 28.0 MB
TX Power	Auto	Inactive	11.3 MB / 28.0 MB
Rate	72 Mbps		

Wireless Packet Info		Space Usage	
Received (RX)	4441019 OK, no error	NVRAM	44.78 KB / 64 KB
Transmitted (TX)	11899162 OK, 1000 errors	CIFS	(Not mounted)
		JFFS2	(Not mounted)

Wireless

Clients

MAC Address	Interface	Uptime	TX Rate	RX Rate	Signal	Noise	SNR	Signal Quality
xx:xx:xx:xx:5E:79	eth2	2:11:16	13M	72M	-41	-92	51	65%
xx:xx:xx:xx:F6:03	eth2	2 days, 0:05:18	65M	65M	-47	-92	45	58%
xx:xx:xx:xx:D6:32	eth2	2 days, 19:04:04	65M	1M	-45	-92	47	60%
xx:xx:xx:xx:77:4D	eth2	6 days, 9:19:01	72M	2M	-48	-92	44	56%

Browser address bar: http://192.168.1.1/

Page Title: SLKSys AP (build 24461) - In...

Navigation: File Edit View Favorites Tools Help

Language: Convert Select

Taskbar: Purdue Federal U.S. Bank JOnline Facebook Twitter XFINITY Speed Test Mail - Scott Ksander eBay

DHCP

DHCP Clients

Hostname	IP Address	MAC Address	Client Lease Time
peggygc	192.168.1.3	xx:xx:xx:xx:44:70	1 day 00:00:00
silkc-gb	192.168.1.4	xx:xx:xx:xx:FB:F1	1 day 00:00:00
denhp	192.168.1.10	xx:xx:xx:xx:E4:87	1 day 00:00:00
hpM175nw	192.168.1.16	xx:xx:xx:xx:4A:AE	1 day 00:00:00
videoeditor	192.168.1.17	xx:xx:xx:xx:8B:83	1 day 00:00:00
nas-ksander-2	192.168.1.18	xx:xx:xx:xx:FE:43	1 day 00:00:00
nas-ksander	192.168.1.19	xx:xx:xx:xx:D6:85	1 day 00:00:00
familytv	192.168.1.25	xx:xx:xx:xx:10:A7	1 day 00:00:00
sparetv	192.168.1.26	xx:xx:xx:xx:B1:1C	1 day 00:00:00
familybluray	192.168.1.27	xx:xx:xx:xx:3F:B7	1 day 00:00:00
disneyTV	192.168.1.28	xx:xx:xx:xx:76:F5	1 day 00:00:00
peggyipad	192.168.1.32	xx:xx:xx:xx:81:0D	1 day 00:00:00
insteonhub	192.168.1.60	xx:xx:xx:xx:E0:63	1 day 00:00:00
nesttherm	192.168.1.70	xx:xx:xx:xx:77:4D	1 day 00:00:00
nestsmoke1	192.168.1.71	xx:xx:xx:xx:C2:13	1 day 00:00:00
nestsmoke2	192.168.1.72	xx:xx:xx:xx:C7:98	1 day 00:00:00
nestsmoke3	192.168.1.73	xx:xx:xx:xx:9E:3C	1 day 00:00:00
nestsmoke4	192.168.1.74	xx:xx:xx:xx:DE:B1	1 day 00:00:00
nestsmoke5	192.168.1.75	xx:xx:xx:xx:A9:70	1 day 00:00:00
nestsmoke6	192.168.1.76	xx:xx:xx:xx:F6:03	1 day 00:00:00
gardencamhd	192.168.1.80	xx:xx:xx:xx:A1:30	1 day 00:00:00
frontcamhd	192.168.1.83	xx:xx:xx:xx:F0:7C	1 day 00:00:00
dlinkdvr	192.168.1.92	xx:xx:xx:xx:65:E5	1 day 00:00:00
familyappletv	192.168.1.93	xx:xx:xx:xx:28:D5	1 day 00:00:00
augustconnect	192.168.1.94	xx:xx:xx:xx:5E:79	1 day 00:00:00
officeappletv	192.168.1.95	xx:xx:xx:xx:20:3B	1 day 00:00:00
wirns	192.168.1.96	xx:xx:xx:xx:73:34	1 day 00:00:00
clock	192.168.1.98	xx:xx:xx:xx:7B:4E	1 day 00:00:00
Sksanders-iPad	192.168.1.103	xx:xx:xx:xx:D4:1F	1 day 00:00:00
BENCHPC-GB	192.168.1.104	xx:xx:xx:xx:6D:9A	1 day 00:00:00
*	192.168.1.113	xx:xx:xx:xx:A3:3B	1 day 00:00:00
android-298fa156dd760098	192.168.1.118	xx:xx:xx:xx:9C:53	1 day 00:00:00
kindle-1acc17310	192.168.1.119	xx:xx:xx:xx:D6:32	1 day 00:00:00
Peggys-iPad-2	192.168.1.122	xx:xx:xx:xx:2D:48	1 day 00:00:00
Scotts-iPhone	192.168.1.133	xx:xx:xx:xx:F1:2A	1 day 00:00:00
*	192.168.1.143	xx:xx:xx:xx:99:1D	1 day 00:00:00
Peggys-iPhone-2	192.168.1.146	xx:xx:xx:xx:44:20	1 day 00:00:00
*	192.168.1.148	xx:xx:xx:xx:DA:5A	1 day 00:00:00

DD-WRT

PayPal DONATE

100%

Online Shopping

- Use reputable sites
- Be sure site uses HTTPS
- Limit information request vs. value
- Use a “online credit card” that you monitor
- Check statements often

Social Media

- Limit personal information
- Be wary of strangers and know you friends
- Be skeptical
- Use strong passwords
- Remember, internet is public

Resources – www.us-cert.org

Official website of the Department of Homeland Security



US-CERT

UNITED STATES COMPUTER EMERGENCY READINESS TEAM

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Current Activity

Google Releases Security Update for Chrome
Published Thursday, October 13, 2016

Google has released Chrome version 54.0.2840.59 to address multiple vulnerabilities for Windows, Mac, and Linux. Exploitation of some of these vulnerabilities may allow an attacker to take control of an affected system.

Users and administrators are encouraged to review the [Chrome Releases](#) page and apply the necessary update.

[Read Full Entry »](#)

Cisco Releases Security Updates
Published Wednesday, October 12, 2016

Cisco has released security updates to address vulnerabilities in multiple products. A remote attacker could exploit some of these vulnerabilities to take control of an affected system.

Announcements

Automated Indicator Sharing (AIS)
Learn how your organization can use the DHS AIS capability to automatically share cyber threat indicators and defensive measures via STIX and TAXII.

National Cyber Incident Response Plan (NCIRP) Refresh Draft
DHS is currently soliciting public feedback for the NCIRP refresh. National engagement provides an opportunity for interested parties to comment on the draft of the refreshed NCIRP, so that it reflects the collective expertise and experience of the whole community in response to cyber incidents.

DHS Cyber and Tech Job Fair, July 27-28, 2016
Join US-CERT at the DHS Cyber and Tech Job Fair from July 27-28, 2016, at the Omni Shoreham Hotel in Washington, DC. We are looking for our finest computer scientists, engineers, analysts, mathematicians, problem solvers and innovative thinkers.

For a listing of open US-CERT positions, visit www.us-cert.gov/careers. Join us in leading the Nation's defense against cyber threats.

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**“I keep our secure files in a coffee can
buried behind the office. You can’t
hack into that with a computer!”**