

#ME



Source: CNET Article https://goo.gl/5w6diu

- I WEAR THE #WIFICACTUS
- I PLAY A HACKER IN THE CYBER SPHERE
- I CAN PROGRAM
- I CAN COMPUTATE
- Freelance Infosec
 - HIT ME UP IF INTERESTED!
- BS IN COMPUTER SCIENCE

HUGE THANK YOU TO SOOO MANY PEOPLE WHO MADE THIS POSSIBLE!!!!

- HAK5 (DARREN, SEB, SHANNON, JAYSON, SARAH, AND EVERYONE ELSE)
- BH (GRIFTER, STUMPER, L34N, NEMUS, CESAR, AND EVERYONE ELSE I'M FORGETTING)
- DEFCON (DT, KAMPF, JEREMY, SOC GOONS, AND EVERYONE ELSE I'M FORGETTING)
- Renderman, Sid and the DC Wireless
 VILLAGE
- Luxor and Mandalay Security
- Austin, Bryan, Henry

 AND ESPECIALLY ALL OF YOU!!!!!!!!!!

#WHY MONITOR WIFI?

- It's everywhere, everyone uses it and nearly every device has it
- PEOPLE MAKE ASSUMPTIONS ABOUT SECURITY AND TRUST VENDORS/HARDWARE BLINDLY
- TO BETTER UNDERSTAND RISKS
- TO DETECT THE RISKS
- TO MONITOR FOR THREATS
- STUFF WORTH FINDING
- CURIOSITY

#PROJECT HISTORY: DEFCON23 WARWALKER



- BEAGLEBONE BLACK
- 2 Alfa radios
- 12 HOURS OF BATTERY LIFE
- SUPER INTERESTING STUFF
- SAINTCON TALK IS ONLINE SOMEWHERE
- USED AIRCRACK-NG FRAMEWORK
- INSPIRED ME TO DO MORE

#PROJECT HISTORY: PROJECT LANA



- TOOK LESSONS LEARNED FROM PREVIOUS YEAR
- GOT SPONSORED BY MINNOWBOARD (INTEL)
- Deployed 2 boxes at BH and 12 at DefCon
- LEARNED ABOUT KISMET
- SAINTCON TALK ONLINE SOMEWHERE

THE #WIFICACTUS: BACKGROUND

- WANTED TO DO SOMETHING BIGGER THAN LAST YEAR
- GRIFTER MADE ME GO TO SHMOOCON
- MET WITH DARREN KITCHEN (HAK5)
- HAK5 TOTALLY HOOKED IT UP!!! #SPONSORED!!!!

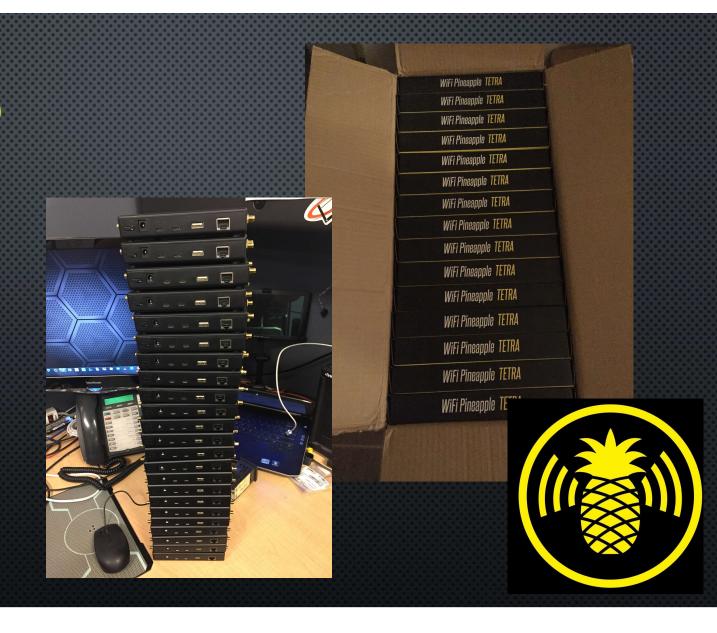


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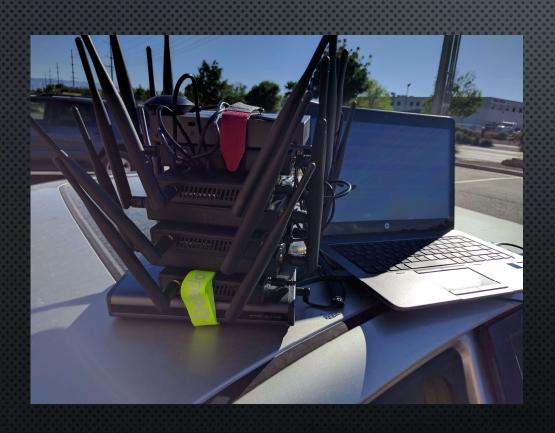
#SPONSORED

- THINGS GOT REAL, 40 HAK5
 TETRA PINEAPPLES SHOWED UP
- SUPPORT HTTPS://HAKSHOP.COM





THE #MINI-CACTI



- PROOF OF CONCEPT
- 6 HAK5 PINEAPPLE TETRAS
- 25 AH BATTERY
- MINNOWBOARD

THE #WIFICACTUS: THE BUILD

- HARDWARE:
 - 25 HAK5 PINEAPPLE TETRAS
 - 50 ATH9 RADIOS
 - 100 ANTENNAS (2x2 MIMO)
 - 2 CISCO 16 PORT 10/100 SWITCHES
 - INTEL NUC 15 16GB RAM 512GB SSD
 - 500 WATT 12∨ PSU
 - ARDUINO MICRO
 - A LOT OF LEDS
 - LEAD ACID SMALL CAR BATTERY



THE #WIFICACTUS: THE BUILD







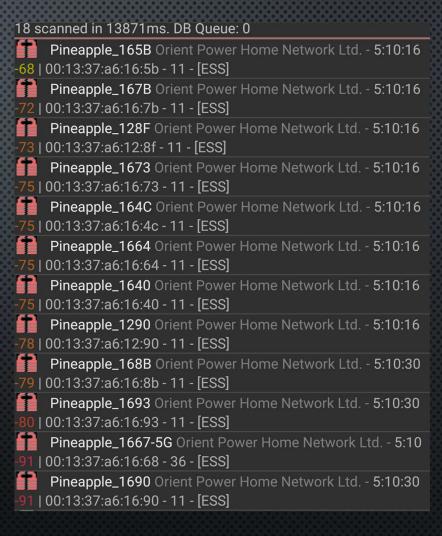
THE #WIFICACTUS: THE BUILD





ACCIDENTAL BEACON DDOS

- TURNS OUT YOU CAN DDOS WITH ONLY BEACONS
- Lesson learned: Load firmware and power on 1 at a time



THE #WIFICACTUS: THE FRAME





- CUSTOM ALUMINUM TOP AND BOTTOM PLATE
- Custom Delrin Rails to Support Alternating Direction
- HANDLE
- OPEN FRAME BACKPACK
- THANK YOU AUSTIN AND BRYAN!!!!

THE #WIFICACTUS: THE PINEAPPLE

- MET RICHARD AT BLACKHAT
- HE BOUGHT A PINEAPPLE ON AMAZON AND HAD IT OVERNIGHTED TO A LOCKER ON THE STRIP
- **ICONIC ADDITION TO THE PROJECT**
- IT TAKES A COMMUNITY TO MAKE THIS STUFF HAPPEN!





My favourite picture of me from #defcon this year - it's got it all: beer, @d4rkm4tter's pineapple, radios, and atomic blue face reflection.



2:05 PM - 1 Aug 2017









THE #WIFICACTUS: SOFTWARE

- DEFAULT TETRA FIRMWARE, BECAUSE LAZY
 - DEFAULT TETRAS BEACON DDOS
- KISMET ON THE NUC
- KISMET REMOTE CLIENT ON THE 25 TETTRAS
- Ansible and very bad bash scripts to manage everything
- ORGANIC, HAND FLASHED PINEAPPLE TETRAS BY BRYAN AND HENRY
- EVERYHING GOES TO IN A SINGLE KISMET SESSION AND SINGLE PCAP FILE



- Support Kismet on Patreon:
- HTTP://GOO.GL/YX3RJT

THE #WIFICACTUS: FAQ



- HOW MUCH DOES IT WEIGH, IS IT HEAVY?
- How much data does it get?
- ARE YOU GETTING CANCER?
- ARE YOU PLANNING ON HAVING KIDS?
- STOH TI SI

THE #WIFICACTUS: FAQ

- How much did it cost?
- HOW MUCH TIME DID IT TAKE TO MAKE?
- WHAT DID TSA THINK ABOUT IT?
- How long does it last on Battery?



MY WARWALK



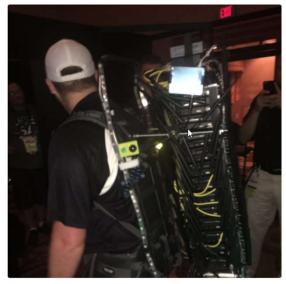
- 4,274 FEET
- ~1,800 STEPS
- 14,805 Total steps That day
- POWER STEPS!

THE #WIFICACTUS: THE BLACKHAT NOC





The #wificactus has arrived at the #blackhat NOC. @BlackHatEvents Great job @d4rkm4tter!!



4:23 PM - 24 Jul 2017

59 Retweets 160 Likes 🦸 🕡 🐞 🚳 🚇 🚳 🥞





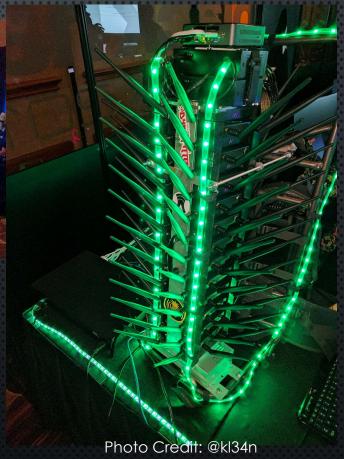






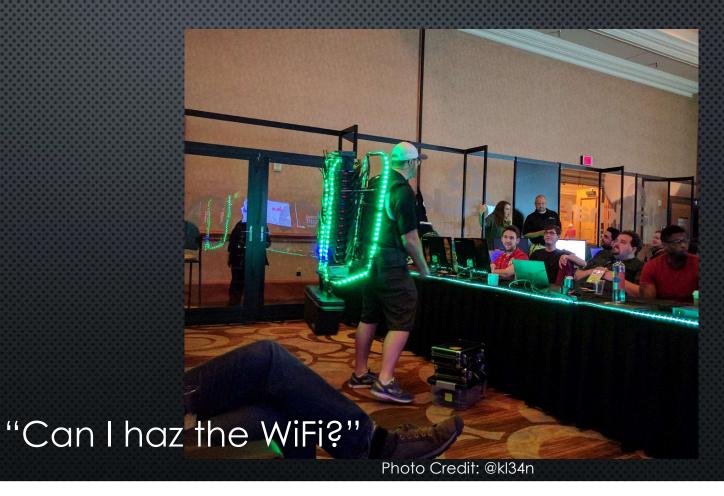


Photo Credit: PCMag

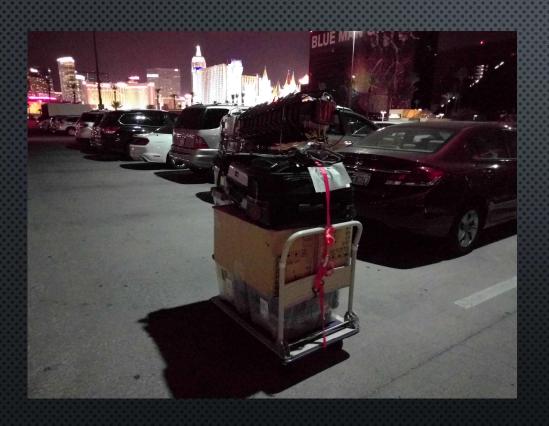


THE #WIFICACTUS: THE BLACKHAT NOC





THE THING ABOUT THE LUXOR....





THE #WIFICACTUS: VISITING BH VENDORS





THE #WIFICACTUS: LOCATION DEFCON







THE #WIFICACTUS: DEMOLABS





THE #WIFICACTUS: CACTUSCON







THE DATAS



PREPARING FOR THE WIFI DROUGHT

	2017	2016	2015
Total Captured PCAP Size	138 GB	42 GB	280 MB
Total Unique Mac Address	104 thousand	253 thousand	A few thousand
Total Unique SSIDs	309 thousand	237 thousand	A few hundred

SHOW ME THE DATA

Location	Capture Time	Size
Blackhat NOC	3 days	65 GB
Blackhat Vendors	60 Min	4 GB
Blackhat WarWalk	30 Min	3 GB
DefCon Warwalk	7 Hours	18 GB
DefCon Demolab	5 Hours	45 GB
CactusCon	6 Hours	3 GB

Sismet-20170725-19-04-28-1.pcapdump	1,227,104 KB	PCAPDUMP File
Kismet-20170726-10-24-30-1.pcapdump	477,533 KB	PCAPDUMP File
Kismet-20170726-14-17-38-1.pcapdump	554,628 KB	PCAPDUMP File
Kismet-20170726-15-46-24-1.pcapdump	11,170 KB	PCAPDUMP File
Sismet-20170726-16-10-47-1.pcapdump	0 KB	PCAPDUMP File
Kismet-20170726-16-12-39-1.pcapdump	18,126 KB	PCAPDUMP File
Kismet-20170726-16-38-37-1.pcapdump	33,371 KB	PCAPDUMP File
Kismet-20170726-17-06-28-1.pcapdump	5,455,707 KB	PCAPDUMP File
Sismet-20170729-08-51-39-1.pcapdump	991,168 KB	PCAPDUMP File
lismet-20170729-09-34-11-1.pcapdump	1,175,072 KB	PCAPDUMP File
Kismet-20170729-10-09-57-1.pcapdump	44,894 KB	PCAPDUMP File
Kismet-20170729-10-15-07-1.pcapdump	244 KB	PCAPDUMP File
Kismet-20170729-10-16-44-1.pcapdump	2,911,984 KB	PCAPDUMP File
Kismet-20170729-11-53-29-1.pcapdump	426,224 KB	PCAPDUMP File
Kismet-20170729-12-04-16-1.pcapdump	932,848 KB	PCAPDUMP File
Kismet-20170729-12-28-21-1.pcapdump	2,311,400 KB	PCAPDUMP File
Kismet-20170729-13-27-10-1.pcapdump	2,454,546 KB	PCAPDUMP File
Kismet-20170729-13-52-11-1.pcapdump	1,808,574 KB	PCAPDUMP File

MAC ADDRESS SUMMARY

	Count
Total Unique Source Addresses (SA)	104,023
Total Unique Destination Addresses (DA)	96,133
Total Unique Receiver Addresses (RA)	104,151
Total Unique Mac Addresses	104,084

MOST NOISY AP'S TOP 20

SSID	COUNT			
CaesarsVillas	8,807,235			
CAESARS	8,714,551			
BETA	6,075,116			
ALPHA	6,051,288			
DefCon-Open	2,996,732			
DefCon	2,899,050			
Caesars_Resorts	2,768,050			
DELTA	2,039,118			
GAMMA	2,025,671			
BlackHatUSA2017	1,827,242			

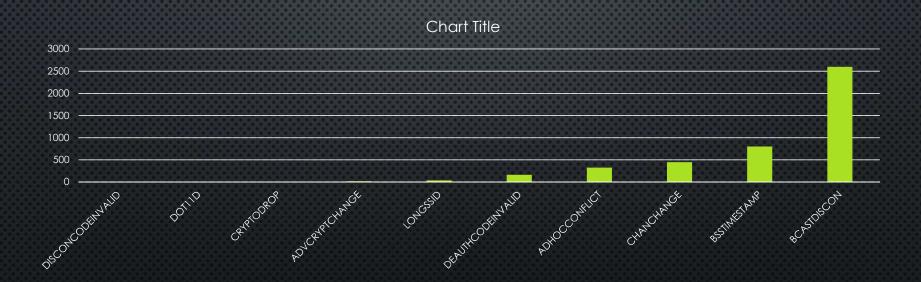
SSID	COUNT
MGMResorts-WiFi	1,269,576
CDOBM	1,196,461
MPTS	1,184,613
MMD	1,180,436
Sca2	568,035
Verizon-291LVW-3DB3	518,463
PirateBox - Share Freely	394,499
AMX	345,149
T-Mobile Broadband19	280,779

THE FREQUENCIES (MHZ)

CHAN	CHAN	CHAN	CHAN	
2412	2417	2422	2427	
2432	2437	2442	2447	
2452	2457	2462	5180	
5200	5220	5240	5260	
5280	5300	5320	5500	
5520	5540	5560	5580	
5600	5620	5640	5660	
5680	5680 5700		5765	
5785	5805	5825		

40 TOTAL CHANNELS MONITORED

THE ALERTS



INTERESTING EVENTS

SSID	EVENT
Configure.Me-097930	changed advertised encryption from none to WPA WPA-PSK AES-CCMP which may indicate AP spoofing/impersonation
	changed advertised encryption from WPA WPA-PSK AES-CCMP to WEP which may indicate AP spoofing/impersonation
	changed advertised encryption from WEP to WPA WPA-PSK AES-CCMP which may indicate AP spoofing/impersonation
sca2	changed advertised encryption from WPA AES-CCMP to WPA WPA-PSK AES-CCMP which may indicate AP spoofing/impersonation
DefCon	changed advertised encryption from WPA AES-CCMP to WPA WPA-PSK AES-CCMP which may indicate AP spoofing/impersonation
DefCon	changed advertised encryption from WPA WPA-PSK AES-CCMP to WPA AES-CCMP which may indicate AP spoofing/impersonation
OutboxScanners	changed advertised encryption from WPA WPA-PSK AES-CCMP to WPA AES-CCMP which may indicate AP spoofing/impersonation
360WiFi-7E6F9A-5G	changed advertised encryption from WPA WPA-PSK AES-CCMP to WPA WPA-PSK TKIP AES-CCMP which may indicate AP spoofing/impersonation
360WiFi-7E6F9A-5G	changed advertised encryption from WPA WPA-PSK TKIP AES-CCMP to WPA WPA-PSK AES-CCMP which may indicate AP spoofing/impersonation
WCTF_06	changed advertised encryption from none to WEP which may indicate AP spoofing/impersonation

BROADPWN

Signal strength (dBm): -59 dBm

[Group: Assumption]

```
975... 32.970922
                  Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                                           131 Probe Response, SN=33, FN=0, Flags=.......C, BI=15, SSID=broadpwn test[Malformed... 802.11b
                                                               802.11
975... 32.974648
                  Alfa 84:ba:b9
                                                                           131 Probe Response, SN=33, FN=0, Flags=....R...C, BI=15, SSID=broadpwn_test[Malformed... 802.11b
                                        Apple d9:4a:ba
                                                               802.11
975... 32.981137
                  Alfa 84:ba:b9
                                                                           131 Probe Response, SN=33, FN=0, Flags=....R...C, BI=15, SSID=broadpwn_test[Malformed... 802.11b
                                        Apple d9:4a:ba
                                                               802.11
975... 32.984135
                  Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=33, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malformed… 802.11b
975... 33.001317
                  Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=33, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malformed... 802.11b
975... 33.004520
                  Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=33, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malformed… 802.11b
975... 33.009975
                  Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=33, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malformed... 802.11b
268... 83.258614
                  Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=490, FN=0, Flags=......C, BI=15, SSID=broadpwn test[Malforme… 802.11b
                  Alfa 84:ba:b9
                                                                           131 Probe Response, SN=490, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malforme... 802.11b
268... 83.260304
                                        Apple d9:4a:ba
                                                               802.11
350... 109.646219
                 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=718, FN=0, Flags=......C, BI=15, SSID=broadpwn test[Malforme… 802.11b
                 Alfa 84:ba:b9
                                                               802.11
                                                                           131 Probe Response, SN=718, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malforme... 802.11b
350... 109.648734
                                        Apple d9:4a:ba
350... 109.655216
                 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=719, FN=0, Flags=........C, BI=15, SSID=broadpwn test[Malforme... 802.11b
                                        Apple_d9:4a:ba
                 Alfa 84:ba:b9
                                                               802.11
                                                                           131 Probe Response, SN=719, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malforme... 802.11b
350... 109.656323
350... 109.657426
                 Alfa 84:ba:b9
                                        Apple_d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=719, FN=0, Flags=....R...C, BI=15, SSID=broadpwn_test[Malforme... 802.11b
350... 109.664499
                 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=719, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malforme... 802.11b
350... 109.665743
                 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=719, FN=0, Flags=....R...C, BI=15, SSID=broadpwn_test[Malforme... 802.11b
350... 109.666808
                 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=719, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malforme... 802.11b
350... 109.668155
                 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=719, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malforme... 802.11b
                 Alfa 84:ba:b9
410... 126.773385
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=860, FN=0, Flags=......C, BI=15, SSID=broadpwn test[Malforme... 802.11b
                 Alfa 84:ba:b9
410... 126.800071
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=861, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malforme... 802.11b
                                                                           131 Probe Response, SN=861, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malforme... 802.11b
410... 126.801172
                 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
410... 126.802957
                 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=861, FN=0, Flags=....R...C, BI=15, SSID=broadpwn_test[Malforme... 802.11b
410... 126.804254
                 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=861, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malforme... 802.11b
410... 126.808996
                 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=861, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malforme... 802.11b
507... 152.268471
                 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=1035, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malform... 802.11b
507... 152.269788
                 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=1035, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malform... 802.11b
507... 152.271163 Alfa 84:ba:b9
                                        Apple d9:4a:ba
                                                               802.11
                                                                           131 Probe Response, SN=1035, FN=0, Flags=....R...C, BI=15, SSID=broadpwn test[Malform... 802.11b
507 152 272010 Alfa 04.ba.ba
                                         Apple do.da.b
                                                               002 11
```

```
TSF timestamp: 3102700724

* [Duration: 984 us]

* [Expert Info (Warning/Assumption): No preamble length information was available, assuming short preamble.]

[No preamble length information was available, assuming short preamble.]

[Severity level: Warning]
```

BROADPWN

lo.		Time	Source	Destination	Protocol	Length	Info						
	1289561	359.745863	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1974,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289568	359.752726	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1975,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289569	359.753419	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1976,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289570	359.753443	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1977,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289571	359.753469	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1978,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289577	359.755967	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1979,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289578	359.755994	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1980,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289579	359.756797	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1982,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289580	359.757499	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1983,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289581	359.757523	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1984,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289582	359.758166	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1985,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289583	359.758189	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1986,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289584	359.758551	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1987,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289585	359.759473	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1989,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289586	359.759500	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1990,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289587	359.760219	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1991,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289588	359.760240	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1992,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289589	359.760676	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1994,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289590	359.761378	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1995,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289591	359.761403	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1996,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289592	359.761421	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1997,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289593	359.761880	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=1998,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289605	359.769928	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=2015,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289610	359.771253	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=2017,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289611	359.771752	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=2018,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289612	359.772547	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=2019,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289613	359.772571	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request,	SN=2020,	FN=0,	Flags=C,	SSID=I	AM OWNED
	1289614	359.773768	30:07:4d:e1:5f:46	Broadcast	802.11	172	Probe	Request.	SN=2022.	FN=0.	Flags=C.	SSID=I	AM OWNED

THE #WIFICACTUS: LIVE DEMO



You could have one WiFi
Pineapple and hop all of the
channels to capture traffic. But
you might miss something.
Better to have one for each
channel.

#wificactus

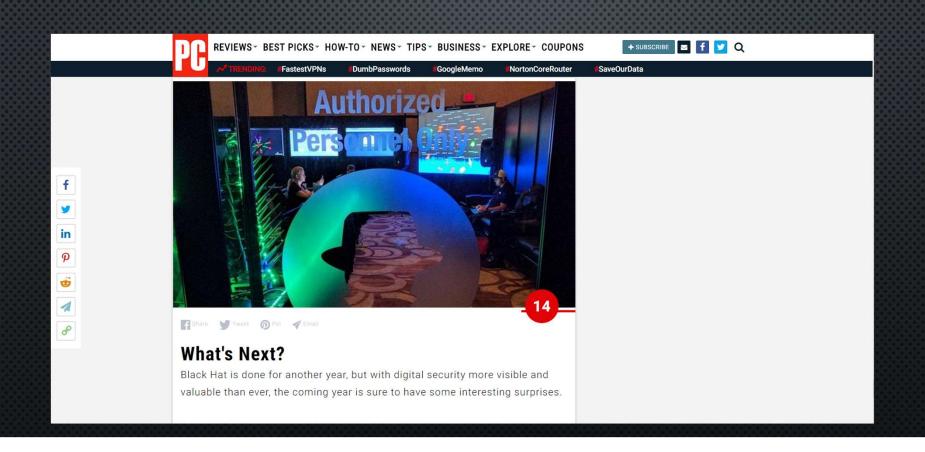


AUGUST 2, 2017 AT 5:00 AM

#WiFiCactus: When You Need to Know About Hackers #WearableWednesday #defcon #wearabletech #DIY





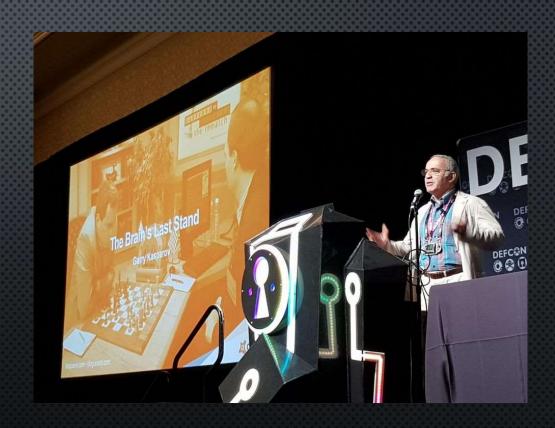


The NOC, as it's called, is a dark room only lit by screens and a spotlight that looks like Batman's Bat signal on the wall. It's a silhouette of a man in a trenchcoat and a black hat, the conference's official symbol.

In one corner is a goofy but <u>terrifying device called a Wi-Fi cactus</u>, that looks like a glowing tree with spiky antennas coming out. Theoretically, it can scan for thousands of connections, but these hackers mostly use it as an amusing prop.

CNET Article: https://goo.gl/qXaiEi

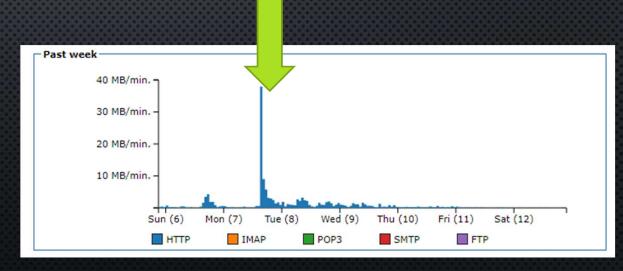
- MENTIONED IN AN ARTICLE WITH SMART CITIES, AI, DAVID BRUMLEY, GARY KASPAROV
- THANKS CNET'S @ALFREDWKNG!



THE #WIFICACTUS: DEFCON TWEETED!!!



The Website is Down!!!!



#ACHIEVEMENT: TAY!!!!



THE #WIFICACTUS: MOAR TWITTERS





Following

Yo dawg I heard you like pineapples so we put a pineapple on yo pineapple so u can pineapple while u pineapple! * ##
#wificactus @d4rkm4tter





THE #WIFICACTUS: INTERVIEWS





RADIO CITY

THE TWITTERS









Guy with giant wireless router backpack. Or something. Wow! #defcon



THE TWITTERS





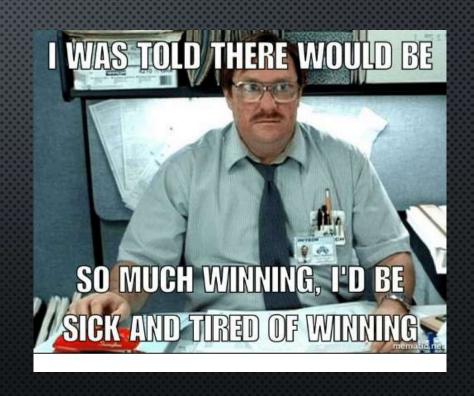
Following

#WiFiCactus out and about in the wild @BlackHatEvents. cc:@d4rkm4tter



THE WINS

- IT ACTUALLY WORKED AND I PULLED OFF MULTIPLE LIVE DEMOS
- DIDN'T GET DETAINED
- GOT TONS OF DATA
- THE RESPONSE HAS BEEN AMAZING AND HUMBLING
- Invited to speak at DefCamp in Romania



THE FAILS

- CRASHES CAUSED THE TETRAS TO ENABLE AP'S
- It was super heavy due to lead acid battery's power density
- NO CAR ADAPTER
- DIDN'T HAVE A VOTING MACHINE ATTACHED TO IT



WHATS NEXT?

- MORE ANALYSIS
- More radios
- Maybe a Segway
- LIPOS, LOTS OF LIPOS
- REALTIME DATA STATS
- Data visualizations
- TACTLENECKS?



COWBELL
You need more of it.

THANK YOU!!!!

CONTACT INFOS:

#WIFICACTUS

PALSHACK.ORG

@D4RKM4TTER

GITHUB.COM/DARKMATTERO