

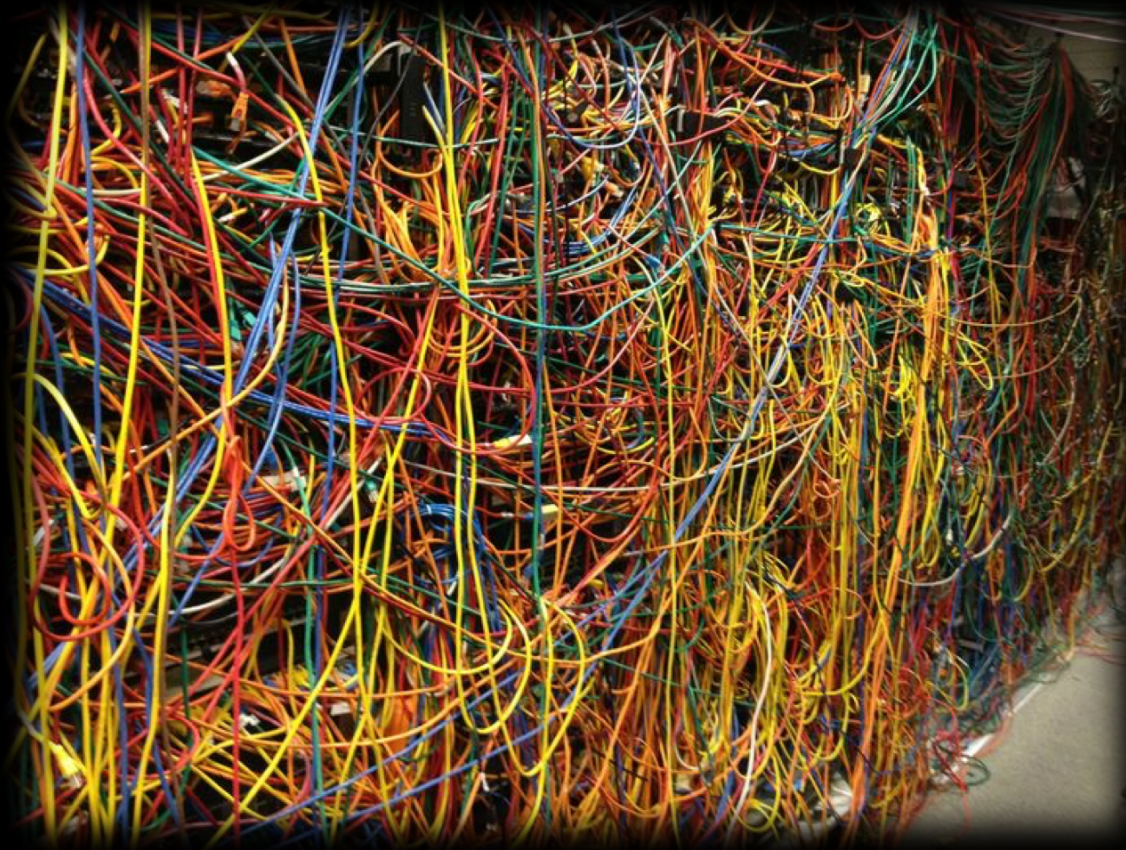
DEF CON 25 REVIEW

NOC

What do we do?

Wired Infrastructure

- ❖ Closed Captioning
- ❖ Contests
- ❖ DC TV
- ❖ Info Booth
- ❖ Media Server
- ❖ Press
- ❖ QM
- ❖ Richard Cheese
- ❖ Rootz
- ❖ SOMA FM
- ❖ Speaker Ops
- ❖ Speakers
- ❖ Vendors
- ❖ Villages
- ❖ WiFi Monitoring



Wireless Infrastructure

- ❖ for the the brave
(and patched
devices)

DC TV

- ❖ for those in their
rooms

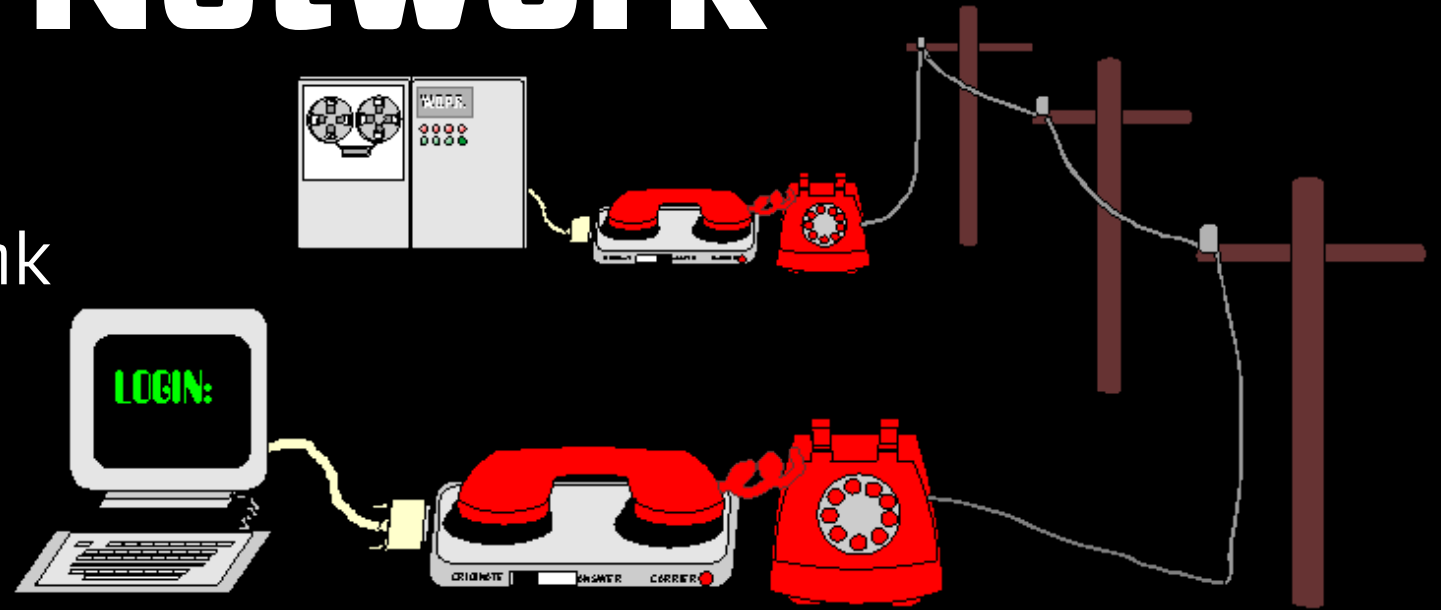


The Network

- ❖ 10 gbps backbone
- ❖ ~~200~~ 250 mbps internet uplink

- ❖ Wired Gear

- ❖ 1 x Firewall - FreeBSD
- ❖ 1 x Core Cisco Switch (#yolo , but we had a cold stand-by box)
- ❖ 14 x Edge Cisco Switches
- ❖ 3 x Monitoring "Servers"
- ❖ 2 x DC TV "Servers"
- ❖ 1 x WiFi Registration "Server"
- ❖ 1 x Admin "Server"
- ❖ THE Media Server



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The Network (cont)

❖ Wireless Gear

- ❖ 1 x 7210 Aruba Controller

- ~~❖ 61 x Aruba Access Points (70, 105, 135, 225)~~

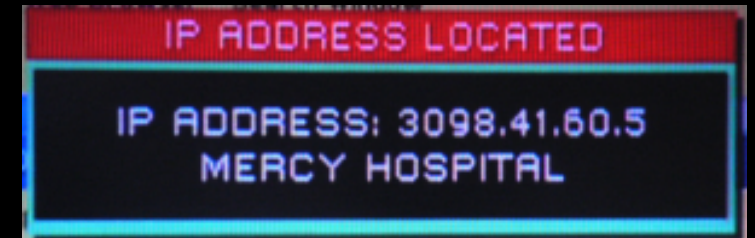
- ❖ 69 x Aruba Access Points (model 305) – THANKS Aruba!

❖ DCTV

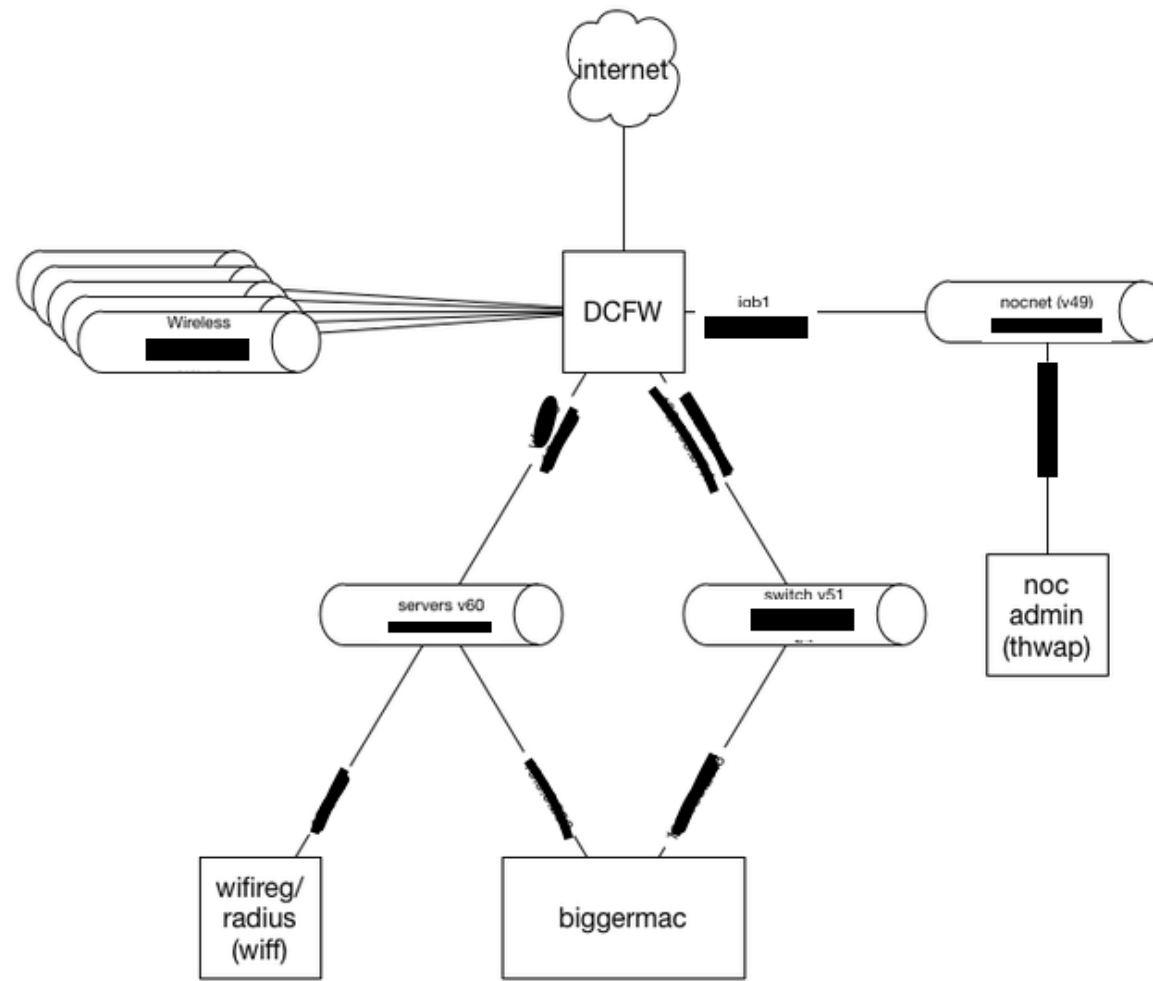
- ❖ 13 ODR01D units

- ❖ 2 x on-site streaming servers

- ❖ Video Transcoding provided by SOK

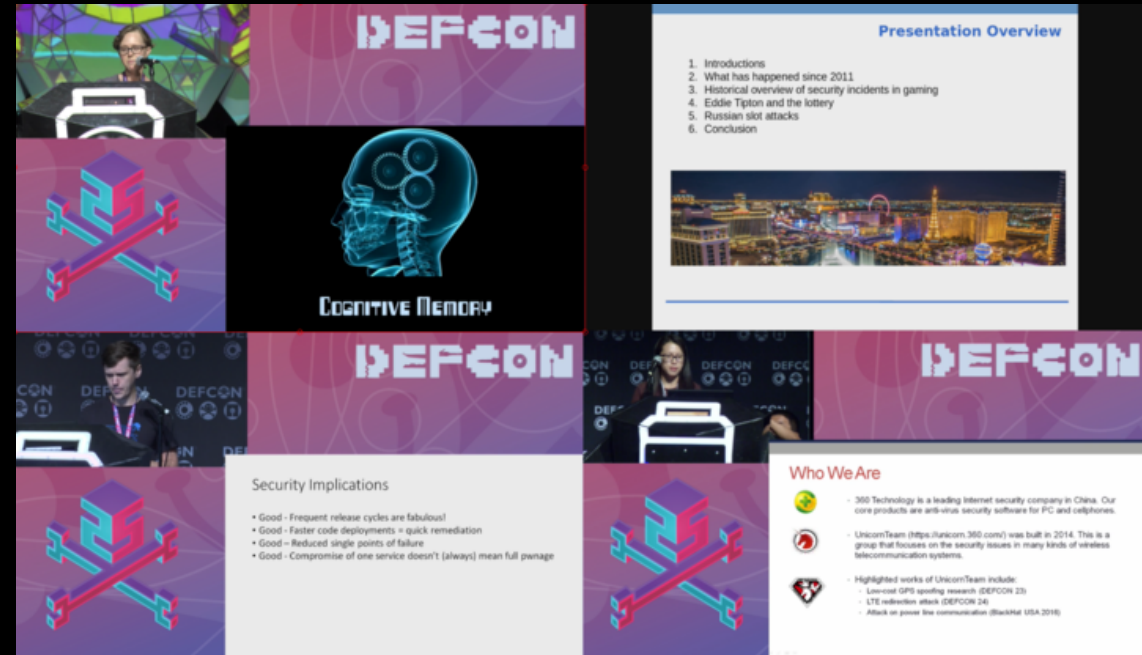


The Network (cont)

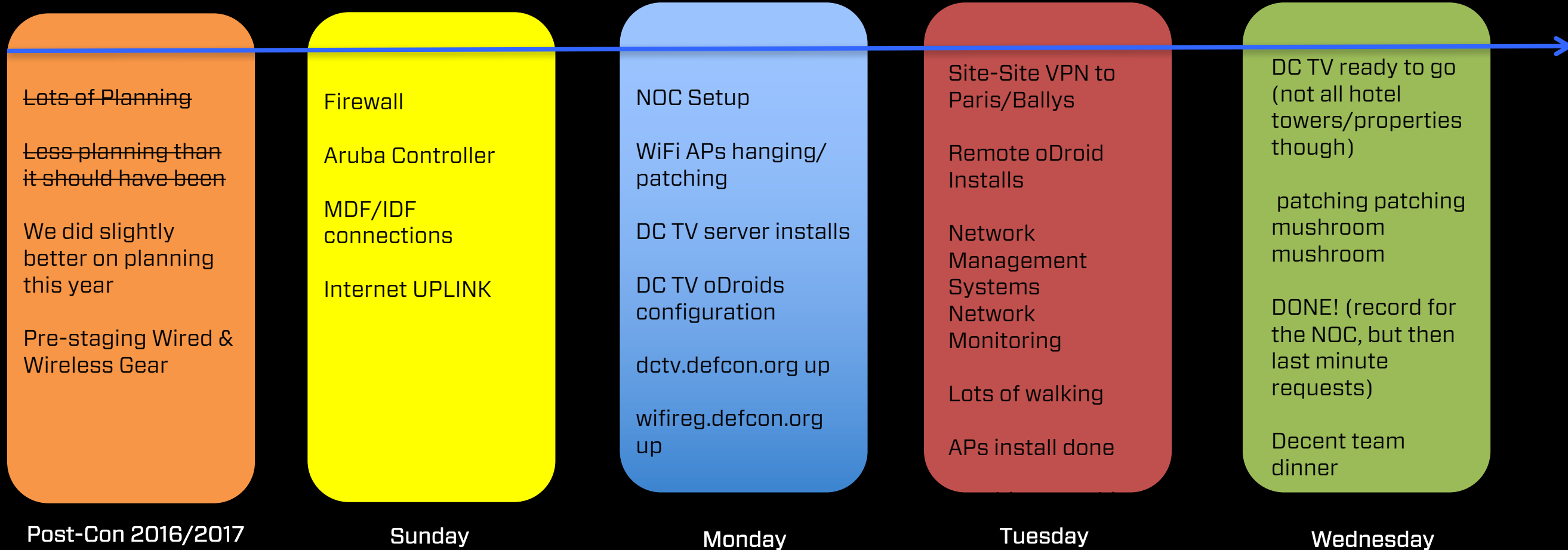


DC TV

- ❖ HD Broadcast
- ❖ 2 Tracks streamed to the internetz
- ❖ 5 channels at Caesars
- ❖ 4 channels for each one of the remote properties



Timeline



Timeline (cont)

Last
Minute
Requests
(new
patches,
cables,
switches)

Learned about
Paris' water leak
that affected us

Thursday

Just worked
(despite the issues)

DC TV stuffz (see
issues slide)

Friday

DC TV stuffz

Saturday

Teardown
Start Packing
Beer

Sunday

Packing
Leaving Las Vegas

Monday



Issues

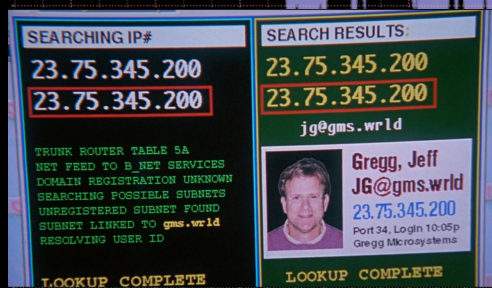


PROCRASTINATION

Putting-off that New Year's resolution

motifake.com

- ❖ Bandwidth
- ❖ AP Coverage / AP Capacity at times
- ❖ DC TV
- ❖ Fiber Connection Issue at Caesars
- ❖ ODR0IDS (overheating/locking-up / manual resets required)
- ❖ Remote Location Setup
- ❖ Flood at Paris Network Room
- ❖ Switched from rtsp to rtmp



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Issues

People are bad with dates

- ❖ We had to delete an older entry from www.defconnetworking.org because one gets confused with an entry from DC 19/2011 for the channels in the Rio Hotel

"DefCon TV"

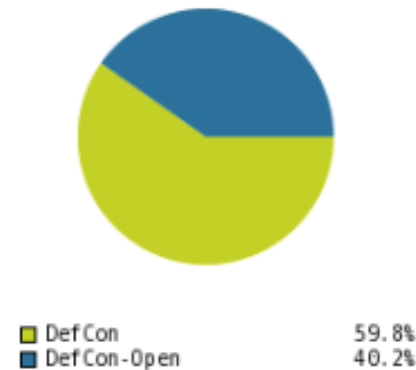
DefCon TV is coming up now (we had equipment arrive late (this morning)). We're setting up broadcast equipment now. Here is your TV Chanel Lineup... Track 1 - Channel 41 Track 2 - Channel 54 Track 3 - Channel 55 Track 4 - Channel 58 P&T - Channel 59



WiFi Stuff

- ❖ Lots of 802.1x misconceptions
- ❖ Twitter trolage

Clients by SSID



Application	Total Bytes
https	1.60 TB
http2	778.13 GB
openvpn	366.70 GB
udp	294.26 GB
http	262.86 GB
bittorrent	252.20 GB
google	233.36 GB
ipsec	151.58 GB
tcp	131.23 GB
itunes	111.09 GB

```
password
defcon25
defcon2017
1QAZ2wsx
skdefcon
defcon
123456
letmein
123
1234
```

SECUREUSER



https	37.3%
Other	24.4%
http2	22.6%
openvpn	8.6%
udp	7.0%

OPENUSER



https	37.4%
Other	26.9%
http2	15.3%
google	12.1%
udp	8.2%

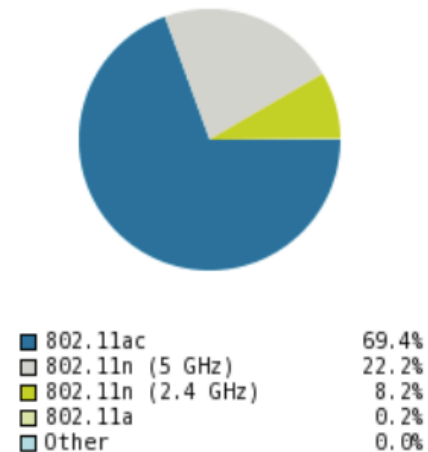
Destination	Total Bytes
dc25-media.defcon.org	1.89 TB
amazon cloud drive	76.21 GB
google drive	75.51 GB
us-california.privateinternetaccess.com	69.75 GB
kali.localmsp.org	59.94 GB
uslax.ce.apple-dns.net	58.87 GB
facebook	49.51 GB
www.googleapis.com	49.14 GB
uslax-edge.icloud-content.com	47.81 GB
iosapps.itunes.apple.com	44.55 GB

Moar WiFi Stuff

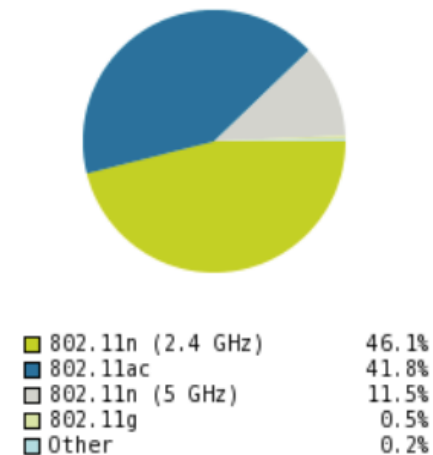
DefCon		DefCon-Open	
Application	Total Bytes	Application	Total Bytes
https	1.36 TB	https	279.67 GB
http2	637.75 GB	http2	149.02 GB
openvpn	317.91 GB	google	87.22 GB
bittorrent	233.11 GB	udp	67.19 GB
udp	231.12 GB	openvpn	56.78 GB
http	215.66 GB	http	53.53 GB
google	155.17 GB	tcp	30.60 GB
ipsec	132.34 GB	debian-update	27.13 GB
tcp	102.15 GB	apple	25.26 GB
itunes	93.21 GB	windows-update	24.72 GB



MB Used by Connection Mode



Clients by Connection Mode



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The Usual Stats

- ❖ 4.886 TB of internet traffic
 - ❖ Inbound: 3.688 (compared to 3.13487072983 from DC24)
 - ❖ Outbound: 1.198 (compared to 1.1607473418 from DC24)
- ❖ 5,455 users registered on wifireg (~4k last year)
- ❖ 2,104 wireless users peak (compared to 1400 last year)
- ❖ 8,424 "unique" wireless clients
- ❖ 22k unique DHCP leases (compared to 35k, thanks!)
- ❖ 8,226 "unique" mac addresses
- ❖ 6.74 TB of wireless traffic
- ❖ 1.89 TB media server traffic



effffn's twelve

❖ Leads

- ❖ effffn
- ❖ mac

❖ Infra/ Systems

- ❖ #sparky (The Machine)
- ❖ booger
- ❖ c0mmiebstrd
- ❖ c7five
- ❖ deaddication



❖ DC TV

- ❖ videoman
- ❖ serif

❖ WiFi

- ❖ CRV
- ❖ jon2

❖ n00b

- ❖ musa



THANKS!

- ❖ DT
- ❖ Charel
- ❖ Will
- ❖ Caesars IT Staff
- ❖ Encore Staff
- ❖ Source of Knowledge
- ❖ The nice folks who always bring us snacks!
- ❖ Press Goons
- ❖ Capitan Obvious
- ❖ Micah (for nothing, #1 Genius Bar Employee <3)
- ❖ The Machine
- ❖ YOU!

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