DEF CON 25 REVIEW
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
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 ODROID 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
**Post-Con 2016/2017**
- Lots of Planning
- Less planning than it should have been
- We did slightly better on planning this year
- Pre-staging Wired & Wireless Gear

**Sunday**
- Firewall
- Aruba Controller
- MDF/IDF connections
- Internet UPLINK

**Monday**
- NOC Setup
- WiFi APs hanging/patching
- DC TV server installs
- DC TV oDroids configuration
- dctv.defcon.org up
- wifireg.defcon.org up

**Tuesday**
- Site-Site VPN to Paris/Ballys
- Remote oDroid Installs
- Network Management Systems
- Network Monitoring
- Lots of walking
- APs install done

**Wednesday**
- DC TV ready to go (not all hotel towers/properties though)
- patching patching mushroom mushroom
- DONE! (record for the NOC, but then last minute requests)
- Decent team dinner

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**Timeline**

- **Post-Con 2016/2017**
- **Sunday**
- **Monday**
- **Tuesday**
- **Wednesday**
Timeline (cont)

- **Thursday**
  - Last Minute Requests (new patches, cables, switches)
  - Learned about Paris’ water leak that affected us

- **Friday**
  - Just worked (despite the issues)
  - DC TV stuffz (see issues slide)

- **Saturday**
  - DC TV stuffz

- **Sunday**
  - Teardown
  - Start Packing
  - Beer

- **Monday**
  - Packing
  - Leaving Las Vegas
Issues

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

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<th>Application</th>
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MB Used by Connection Mode

Clients by Connection Mode
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
  - deadication

- 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!

http://defconnetworking.org
@DEFCON_NOC
noc\at/defconnetworking.org