



Closing Ceremonies

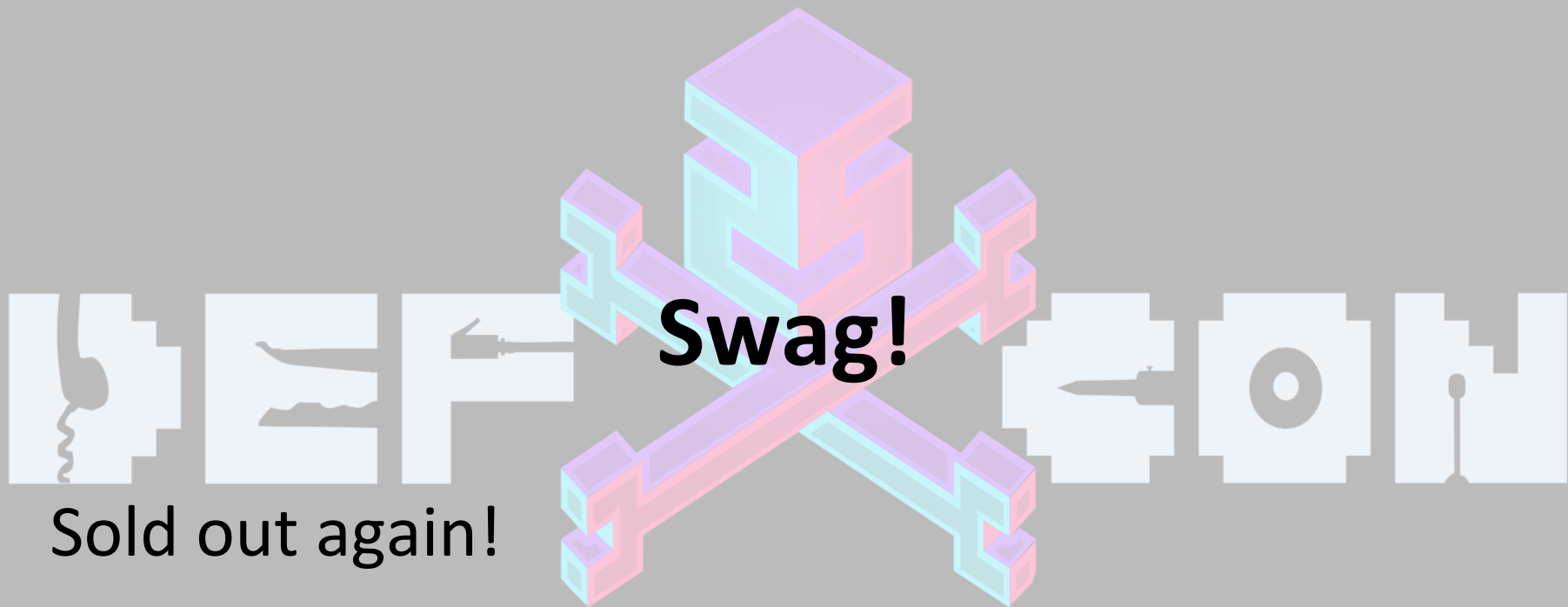
25th Anniversary



Badges Badges Badges!

And...is that the line for Swag?!

#badgelife

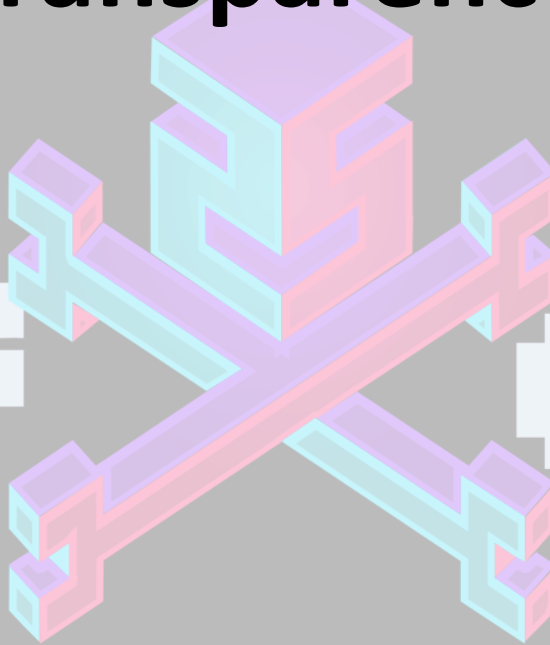


Sold out again!

Thank you from Swag to Speaker Goons!

Transparency

- More information about DEF CON departments and what's going on.



Thanks to all DEF CON Goons

- 
- Administration
 - A & E
 - Artwork
 - Badges
 - Contests/Events
 - Demo Labs
 - Dispatch
 - DC Groups
 - Forums
 - Info/HackerTracker
 - Inhuman Reg
 - Operations
 - NOC / DCTV
 - Press
 - Production
 - QM
 - Registration
 - Review Board
 - SOC
 - Social Media
 - Speaker Ops
 - Swag
 - Vendors
 - Workshops



Old and New Goons – Thank You!

New, retiring Gold Badge Holders
Gold Badge Holders of the past
New Goons – n00ns

Hacker Tracker App



Android and iOS

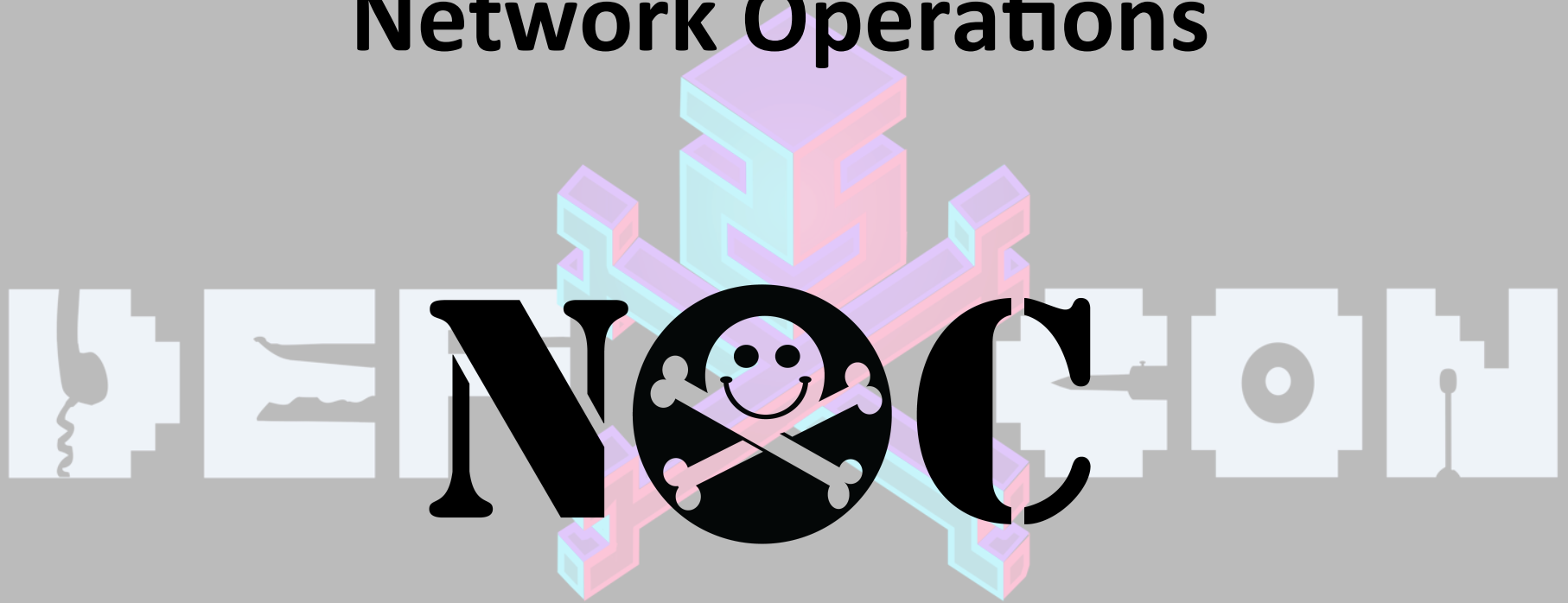
Source available on GitHub - <https://goo.gl/bbVRMt>

Created by @shortstack and @sethlaw

Developed by @ChrisMays94 @MaceraMeg

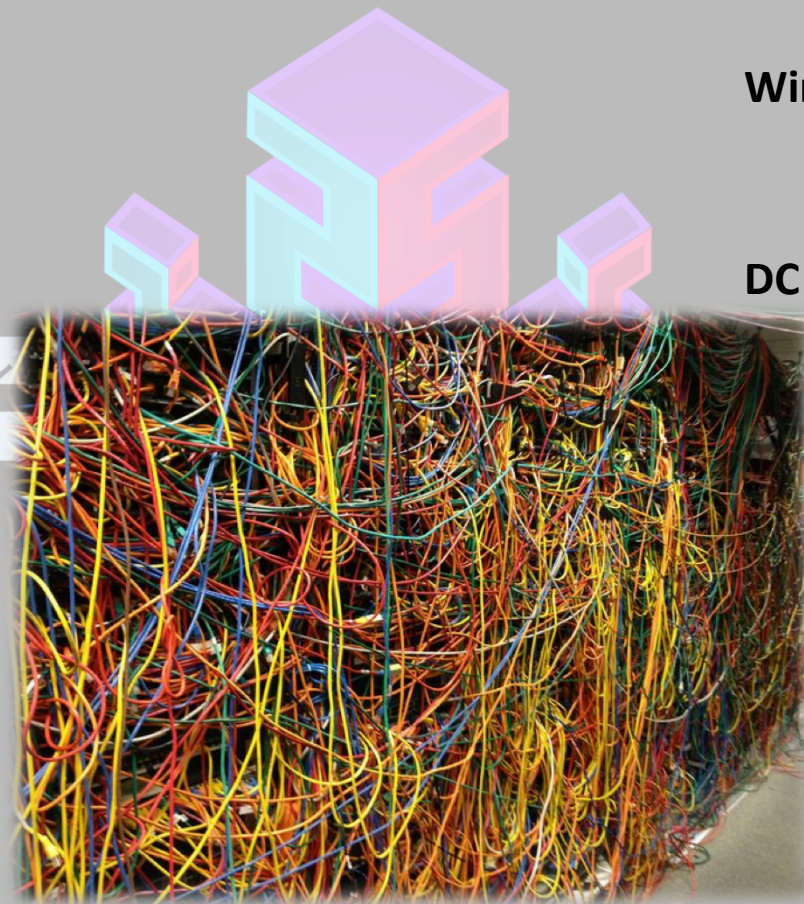
Designed by @iMacHumphries

Network Operations



Wired Infrastructure

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



Wireless Infrastructure

for the the brave (and
patched devices)

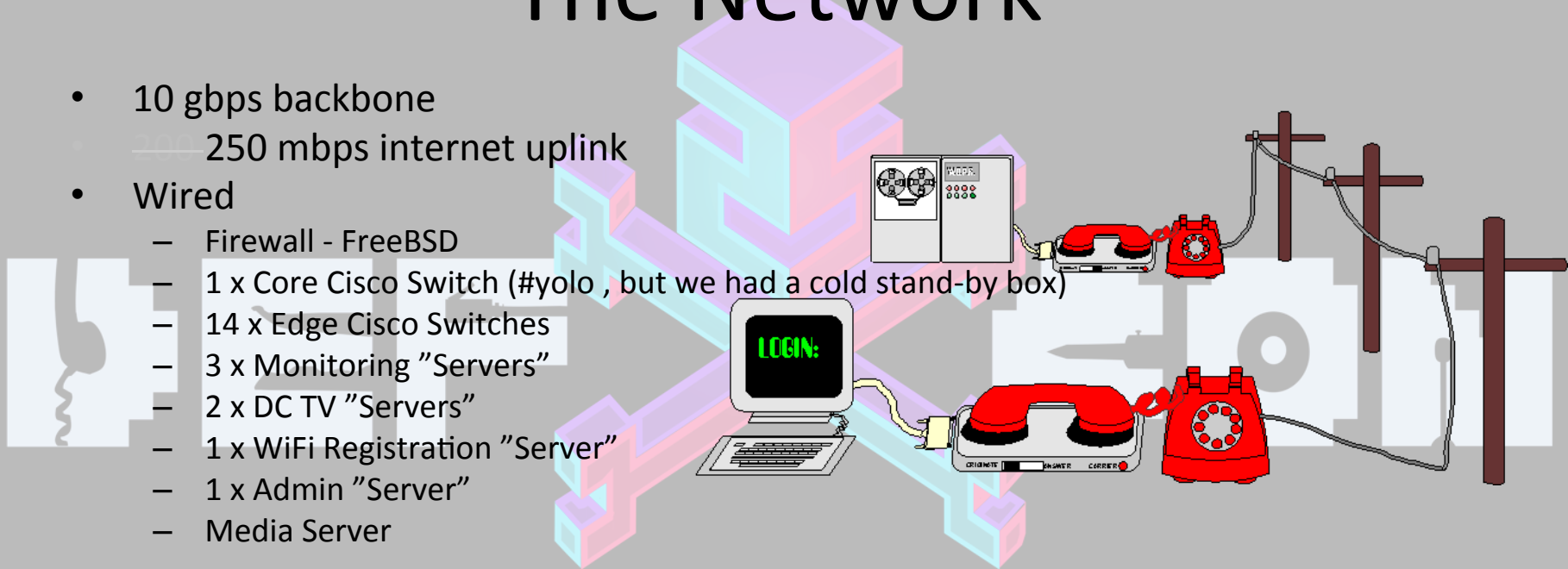
DC TV

for those people in their
rooms



The Network

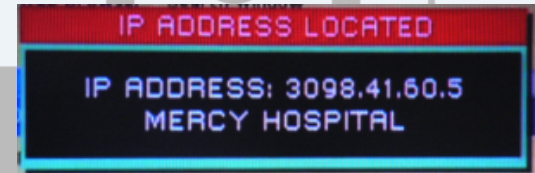
- 10 gbps backbone
- 250 mbps internet uplink
- Wired
 - Firewall - FreeBSD
 - 1 x Core Cisco Switch (#yolo , but we had a cold stand-by box)
 - 14 x Edge Cisco Switches
 - 3 x Monitoring "Servers"
 - 2 x DC TV "Servers"
 - 1 x WiFi Registration "Server"
 - 1 x Admin "Server"
 - Media Server



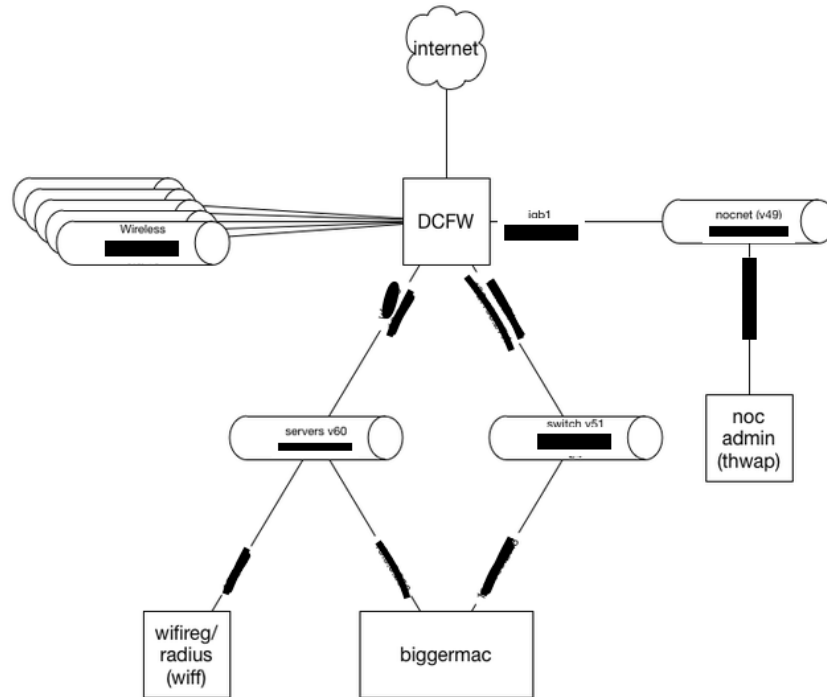
NOC

The Network (cont)

- Wireless
 - 7210 Aruba Controller
 - ~~61 Aruba Access Points (70, 105, 135, 225)~~
 - 69 Aruba Access Points (model 305) – THANKS Aruba!
- DCTV
 - 13 ODR0ID units
 - 2 x on-site streaming servers
 - Video Transcoding provided by SOK



The Network (cont)

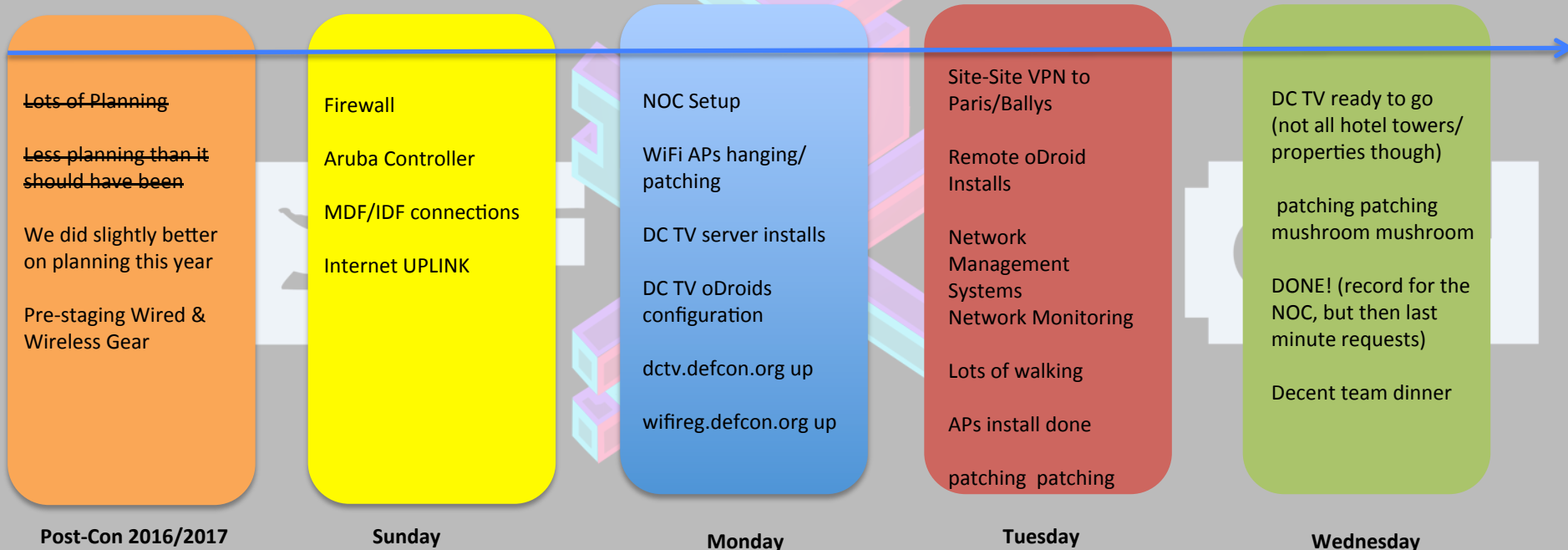


NOC

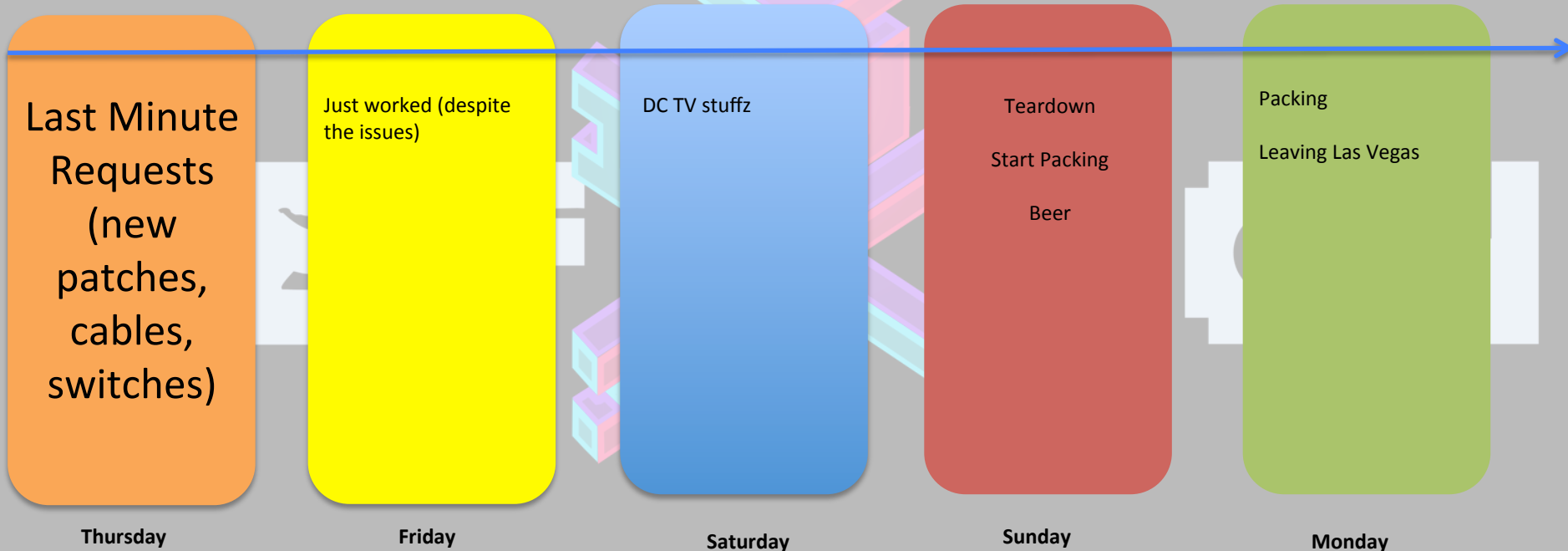
DC TV

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

Timeline



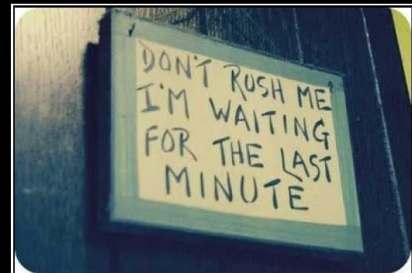
Timeline (cont)



Issues

- Bandwidth
- AP Coverage / AP Capacity at times
- DC TV

- OドロIDS
- Remote Location Setup
- Flood at Paris
- switched from rtsp to rtmp

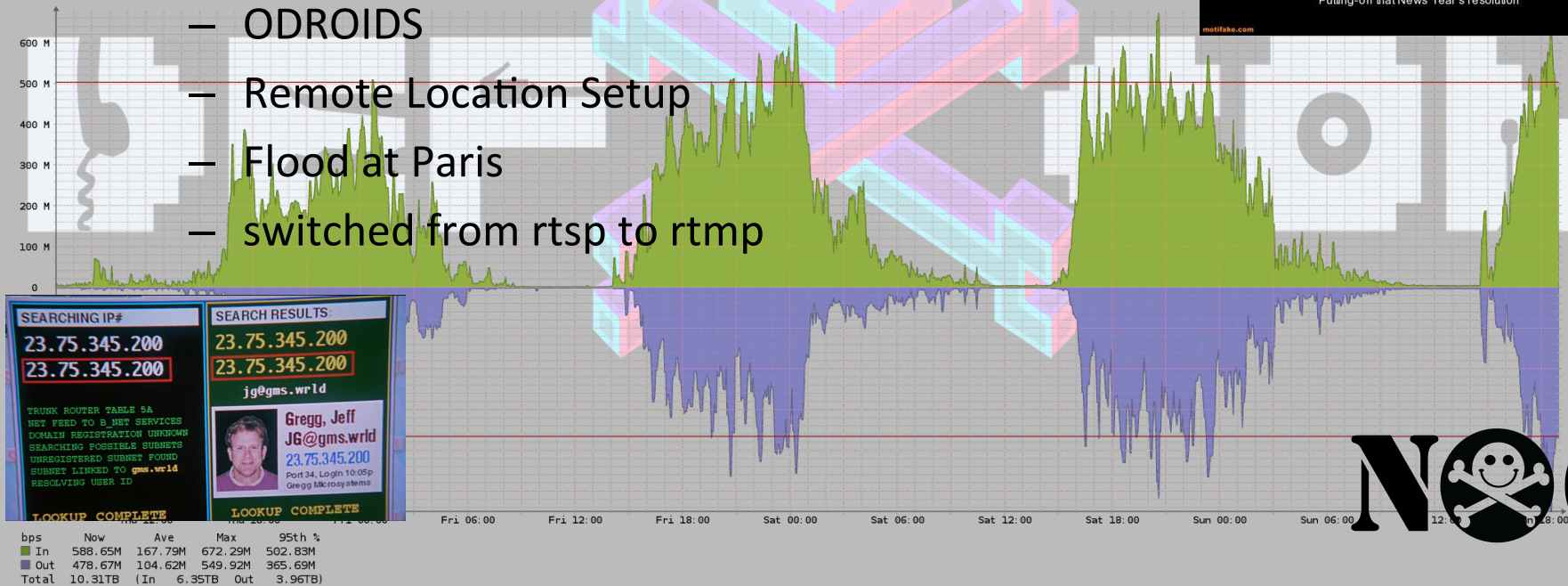


PROCRASTINATION

Putting-off that News Year's resolution

motifake.com

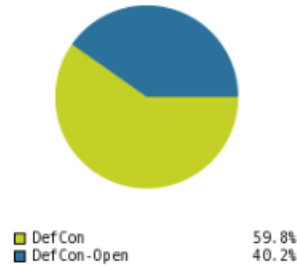
/ 7081 OCT/2018



WiFi Stuff

- 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
1QA2wsx
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

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

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)
- 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
- Ceasars 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@defconnetworking.org



Fundraising at DEF CON

- 
- 
- HFC \$100 (reverse engineering challenge)
 - EFF - \$95,000+
 - With small donations included from:
 - - Beard and mustache
 - - Badge hacking
 - Darknet - \$3,900 for EFF
 - Rapid7 - \$4,000 for EFF
 - Hack fortress - \$159 for EFF
 - Mohawkcon:
 - \$5,100 donations:
 - 158 heads \$4,600,
 - Eff: \$3,100
 - HFC: \$1,300
 - Sticker bot: \$105 (den hac)
 - Mohawk swag: \$500

Villages at DEF CON

BioHacking Village

SE Village

Car Hacking Village

Crypto and Privacy Village

Data Duplication Village

Hardware Hacking Village (10th Anniversary)

ICS Village

IoT Village

Lockpick Village

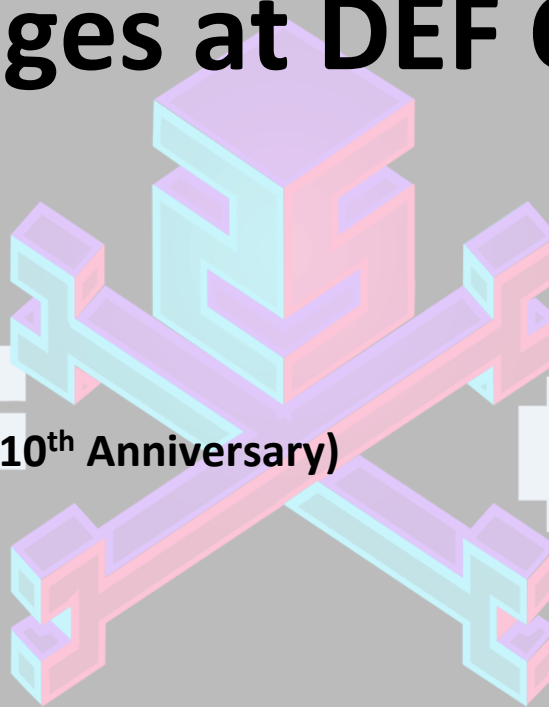
Packet Hacking Village

Recon Village

Tamper Evident Village

Wireless Village

Voting Machine Village



Data Duplication Village

Sources (6TB each)

- Infocon.org
- Hashtables
- More hashtables

Drive Types

- Seagate– 150 and <6% fail
- Western Digital – 147 <1% fail
- Toshiba – 109 <1%
- HGST – 85 <18% (in talks w/them)
- Mediamax – 7 <43% (huhwhat?)

Output (more info at dcddv.org)

- Dupe time was:
7h50m to 16h22m per drive
- Infocon 229 copies
- Hashtables 1-2 95 copies
- Hashtable 2-2 96 copies
- Total dupes 420 copies (lols)
- 420 dupes @ 6TB each = 2.5 PB Out!
- 120MB/sec Average
- 95 duplicators for 60 straight hours

Events at DEF CON

Friends of Bill W.

Be the Match

Cycleoverride DEF CON Ride

DEAF CON

DEF CON Groups Parties

DEF CON Labs

DEF CON Shoot

Hacker Jeopardy

Hacker Karaoke

Ham Radio Exams

Lawyer Meetup

Mohawk-Con

Movie Night

Queercon

SE Podcast Live

Skytalks



The DEF CON logo is a 3D isometric structure made of blocks, with 'DE' in cyan and 'F CON' in purple, centered behind the text.

Contests at DEF CON

Contests at DEF CON

Beverage Chilling Contraption Contest

Bomb DEFusing

Capture The Flag

Car Hacking CTF

Capture the Packet

CMD+CTRL Hackathon

Coindroids

Counterfeit Badge Contest

Crash and Compile

Creative Writing:DEF CON Short Story Contest

DEF CON Beard and Moustache Contest

DEF CON DarkNet project

DEF CON Scavenger Hunt

Drunk Hacker History

Hack Fortress

Mission SE Impossible

Packet Detective

Pocket Protector

Schemaverse Championship

SECTF

SECTF4Kids

Sheep Hunt

SOHOpelessly Broken

Tamper-Evident Contest

TD Francis X-Hour Film Contest and Festival

The Box (Bomb Defusal Contest)

warl0ck gam3z

Whose Slide Is It

Wireless CTF

Black Badge Contests at DEF CON

Capture The Flag

Car Hacking CTF

Capture the Packet

Crash and Compile

DEF CON DarkNet Project

DEF CON Scavenger Hunt

Hack Fortress

SECTF

SOHOpelessly

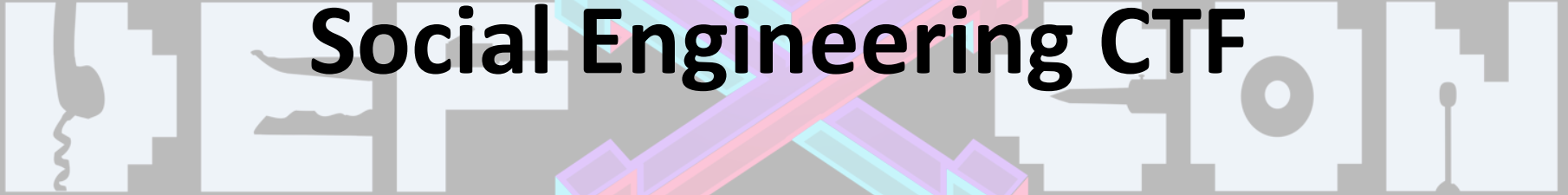
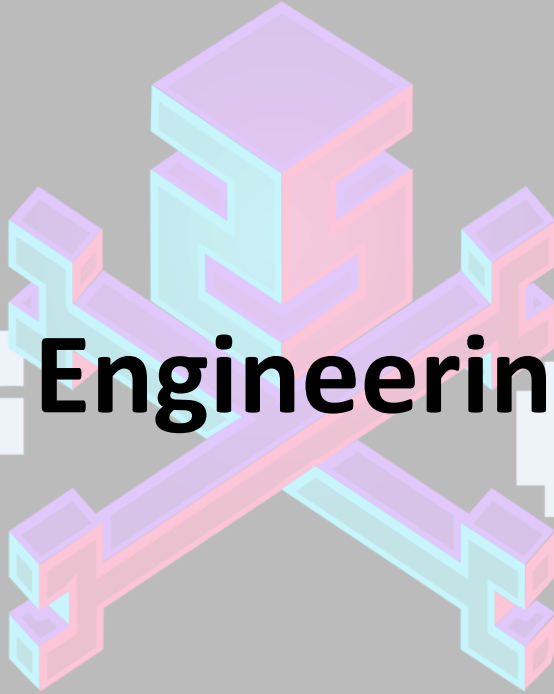
Broken

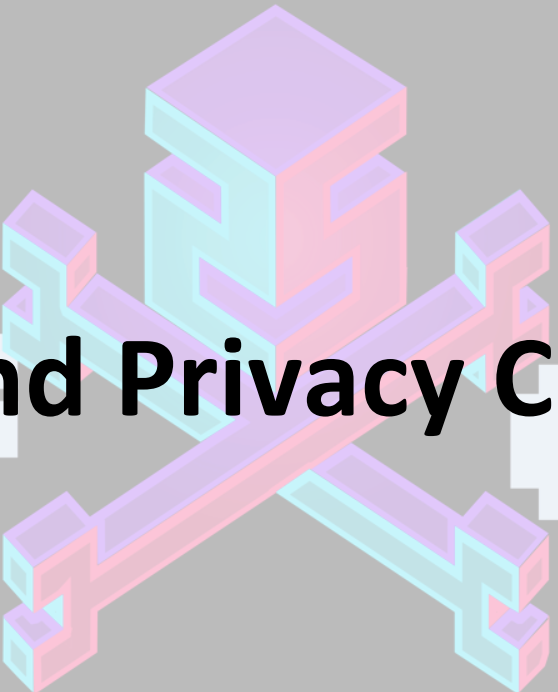
warl0ck gam3z

Wireless CTF

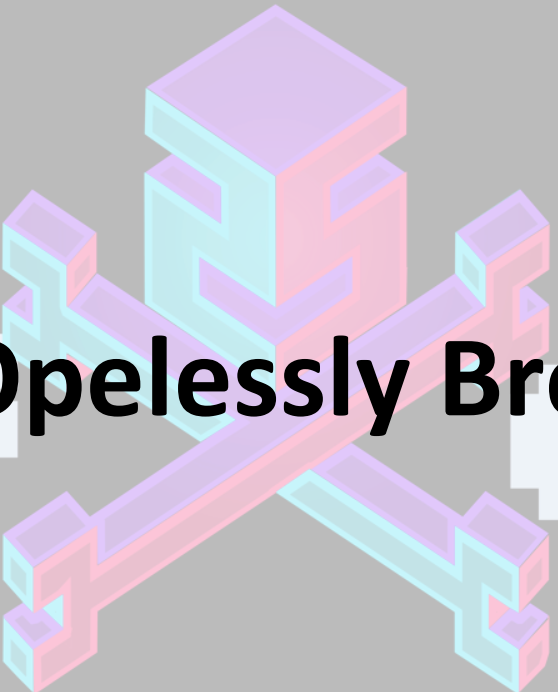


Social Engineering CTF



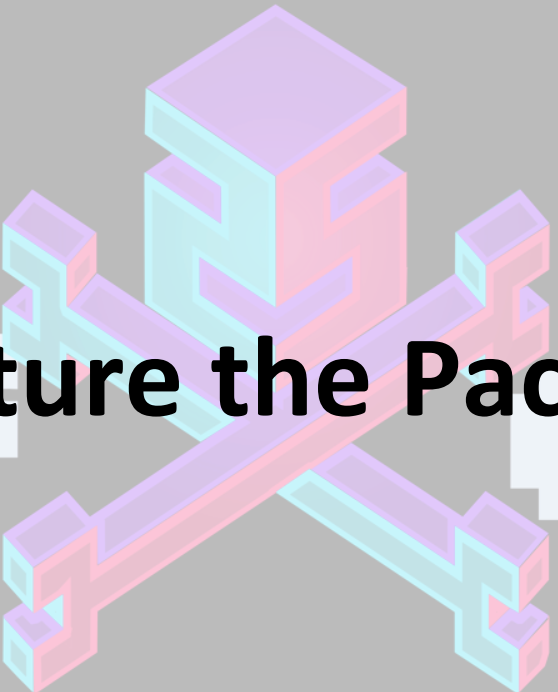


Crypto and Privacy Challenge

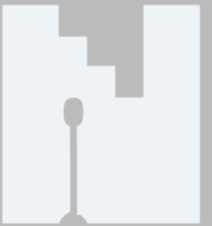


SOHOpelessly Broken





Capture the Packet





Telephreak



Darknet Project



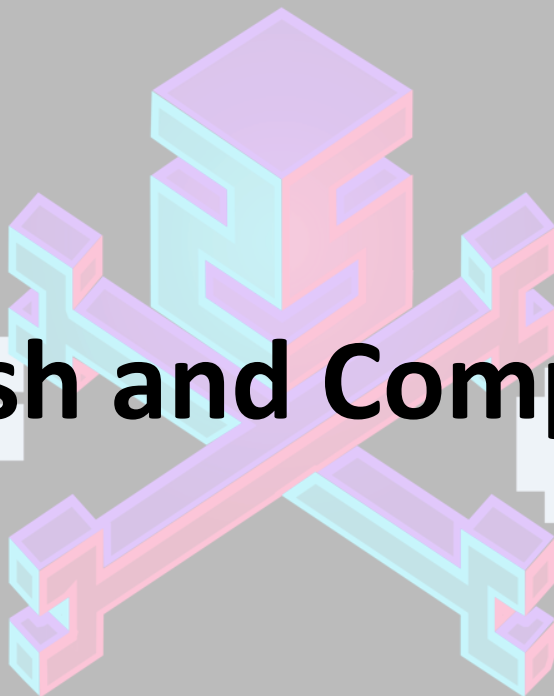




Carhacking Village CTF



Crash and Compile





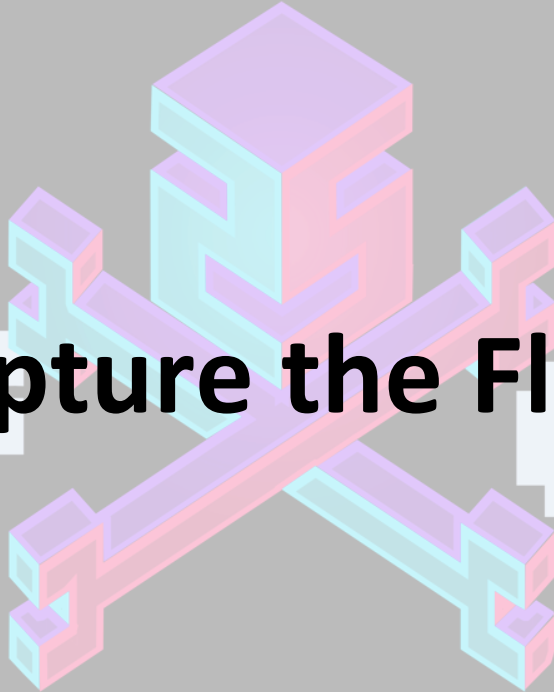
Scavenger Hunt



OMG 20th Anniversary



Capture the Flag





Thank You

Legitimate Business Syndicate

Five incredible years

Five amazing operating systems

Nine Bits of fun!



Call for CTF Organizers

Opens very soon. Stay tuned.



“Super Secret” Announcement

See You Next Year at...

- Caesar's Palace in 2018
- Registration for Hotel begins on Monday



DEF CON 26 is August 9-12th