What kind of network you usually have here?
Oh, we got both kinds. We got

**Wired**
- Villages
- Press
- Contests
- Vendors
- InfoBooth
- Dispatch
- Speakers
- Closed Captioning
- DC TV
- Roots

**WOW-Fi**
- For the brave
Site Visit
Planning
Pre-staging gear

Post DC25

MDF/ IDF Connections
Firewall
Caesars Aruba Controller
Internet Uplink
Orange Whips

Sunday

NOC Setup
Moar Core Switching
Flamingo & LINQ Connections to Caesars
wifi reg site up
Patching Caesars

Monday

Flamingo & LINQ Aruba Controllers
Patching
Patching
Patching
APs hanging
Orange Whips

Tuesday

Flamingo & LINQ Aruba Controllers
APs Installs done at Caesars
Patching
Patching
Flamingo & LINQ
Orange Whips
Fiber and Hardware issues at Caesars

Wednesday

NOC
Moar Patching for Flamingo while...
Scrambling to get DC101 up and running
Wireless Client-isolation vs Multicast
Villages Setup

DC Labs setup
Patching last minute changes
Contest area Patching
Chillout patching
Media Server Busted
Bump up Internet Uplink speed

Shit worked with minor issues/requests
Workshops teardown

Teardown

Finish Teardown
Packing
Go home!
Detox

Thursday
Friday
Saturday
Sunday
Monday
Noc, Noc
Who's there?
Internet Download: 176 Mbps
Internet Upload: 62.6 Mbps
IPSEC In: 887 kbps
IPSEC Out: 765 kbps
Challenges/ Issues : aka yoloOps

- Bandwidth
- Some of the fiber connections
- Switch swap/ power issue
- Client-isolation vs Multicast
- AP coverage and capacity at times
- 802.1X understanding
The Network

10 Gbps backbone (with some 1Gbps fallbacks)

300-350 400 Mbps internet uplink (Caesars)

And then...

Flamingo

LINQ

Layer 3/ IPSec between the properties
Gear

Wired Gear

3 x Firewalls - FreeBSD
3 x Core Cisco Switches
17 x Edge Cisco Switches
Tons of unmanaged switches
3 x Monitoring ”Servers”
1 x WiFi Registration ”Server”
THE Media Server
Gear

Wireless Gear

3 x Aruba Controllers

136 x Aruba Access Points (model 305) THANKS ARUBA NETWORKS!
  110 x Caesars
  20 x Flamingo
  6 x LINQ
(the usual) Stats

9.11 TB of internet traffic (double of last year)
– Inbound: 6.71
– Outbound: 2.40
7,398 users registered on wifireg
2,403 wireless users peak
8,365 total number of devices on WoW-Fi
15k unique DHCP leases
12k different mac addresses
15 TB of wireless traffic
15 GB media server traffic
5.1 Gbps of peak traffic on the core
### effffn and The Orange Whips

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<th>Leads</th>
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<td>CRV</td>
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Melanie Ensign @iMeluny · 13h

Amazing when longtime #DEFCON attendees assume the con lacks structure or process on the backend. After 26 yrs, there is a well-oiled machine behind the scenes. Every year = another stress test.

I have my work cut out for me to bring this all to light so everyone can see it.
Thank you, gracias, obrigado!

- DT
- Charel
- Nikita
- Will
- QM
- Caesars IT
- Encore Staff
- @thepacketrat
- @thelockheed
- Apostrophe Bar Staff
- The very nice folks who brings us snacks
- All other DEF CON departments
- YOU!

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