

DEF CON 27 REVIEW





niccageaseeveryone.blogspot.com

C



Internet Uplink

Core Switch

Firewall

Aruba Controller
(Paris/ Bally's/
PH)

MDF/ IDF
Connections

Access
Switches

Moar MDF/ IDF
Connections

Flamingo
Connection to
Core

NOC Room
Setup

Patching

wifireg website
up (w00t)

Malort

**Friday/
Saturday**

Sunday

Monday

Tuesday

Wednesday

Moar patching

APs placement
Paris/ Bally's

Patching

Patching

Patching

APs placement
Planet
Hollywood

Paris Theather
fiber patch

Patching testing

Flamingo Aruba
Controllers

Patching and
APs placement
Flamingo

Paris Theather
Fun and games

Media Server
Setup

"Need my
requests done
NOW"

NOC



Patch verification everywhere

Contests going live assistance

“Need what I forgot to ask you before done NOW”

Patching last minute requests

CFS Setup

Thursday

Patching moar last minute requests

Friday

Shit worked with minor issues/ requests

Workshops teardown

NOC NOC panel/ talk

Drunk Hacker History

Saturday

Teardown

Malort

Sunday

Finish Teardown

Packing

Go home!

Detox

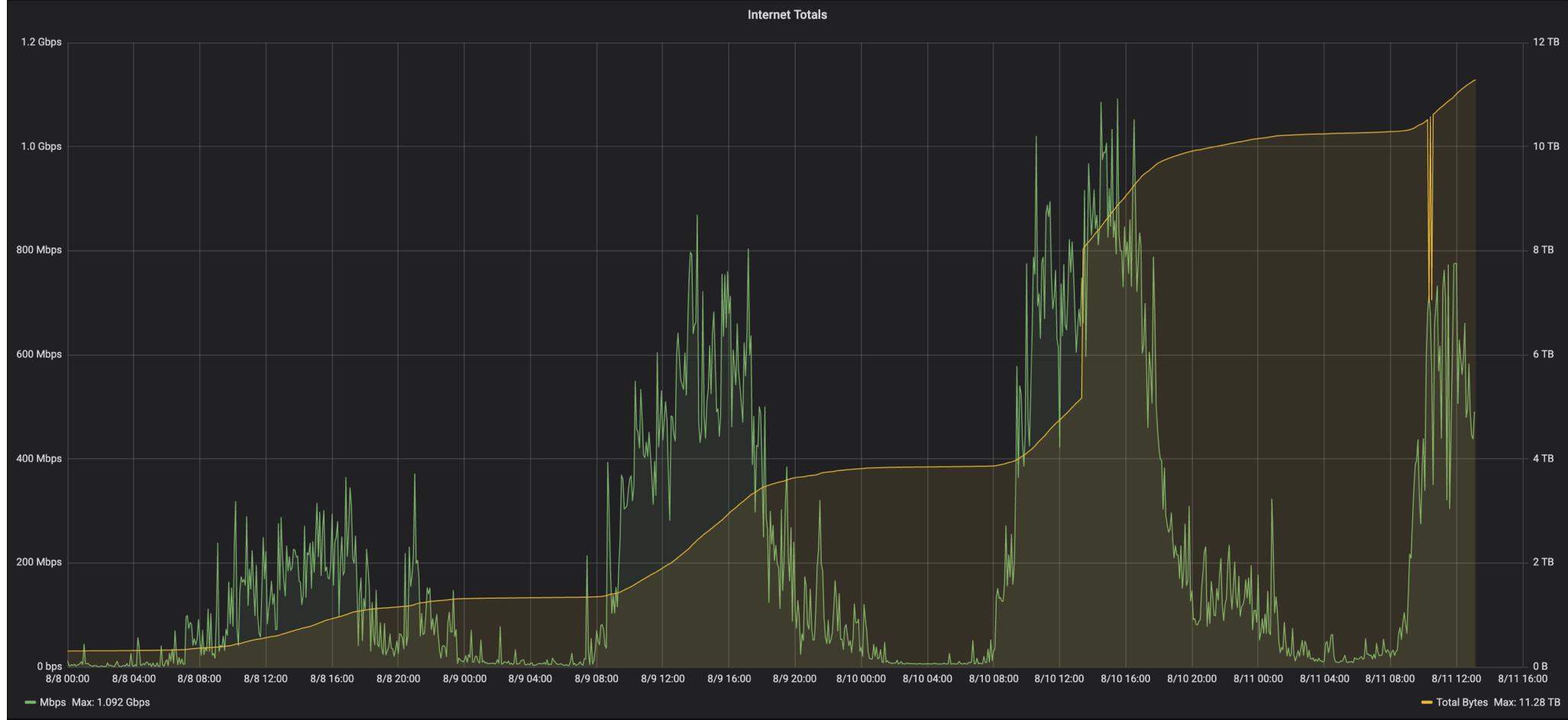
Monday/ Tuesday

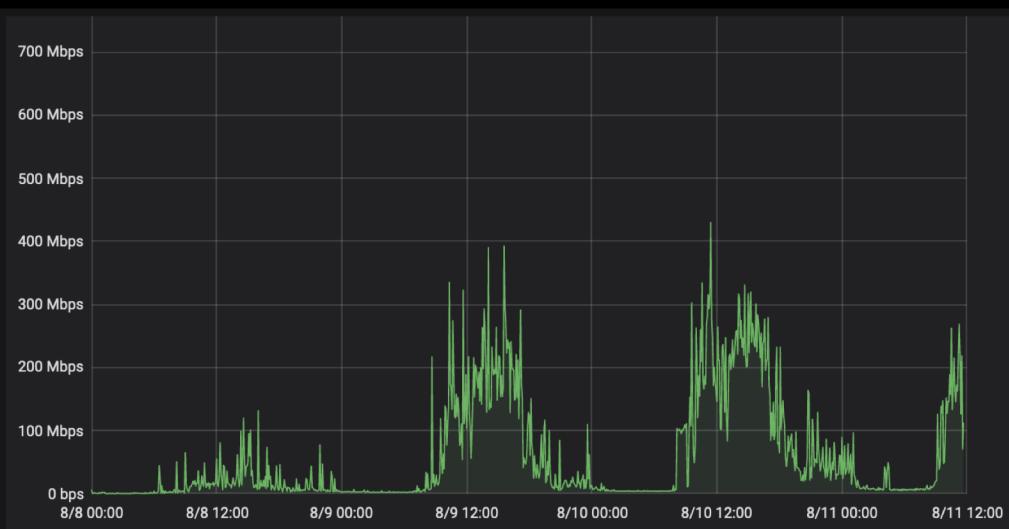
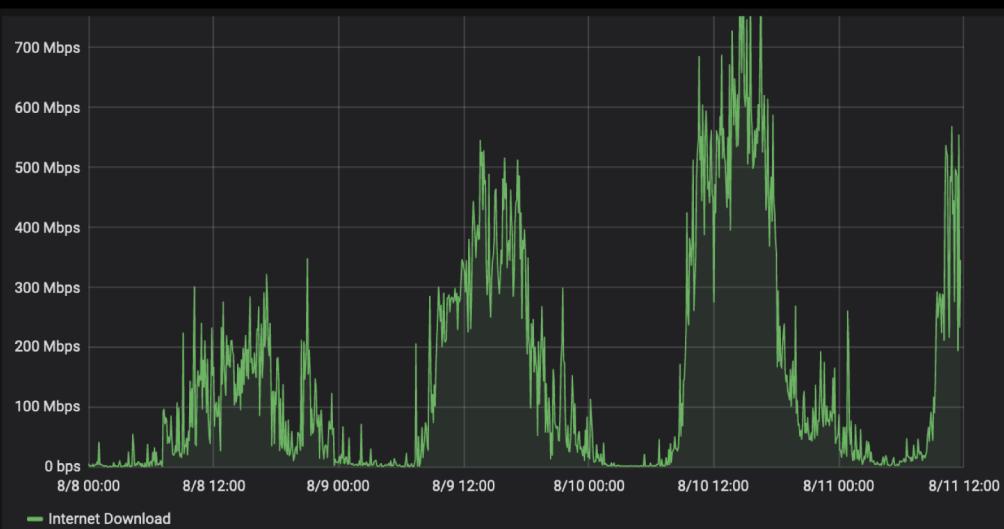
NOC



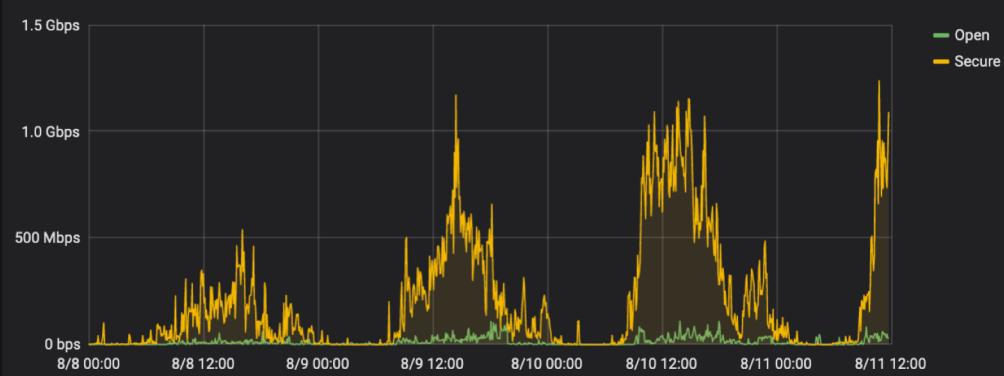
NOC

Bandwidth

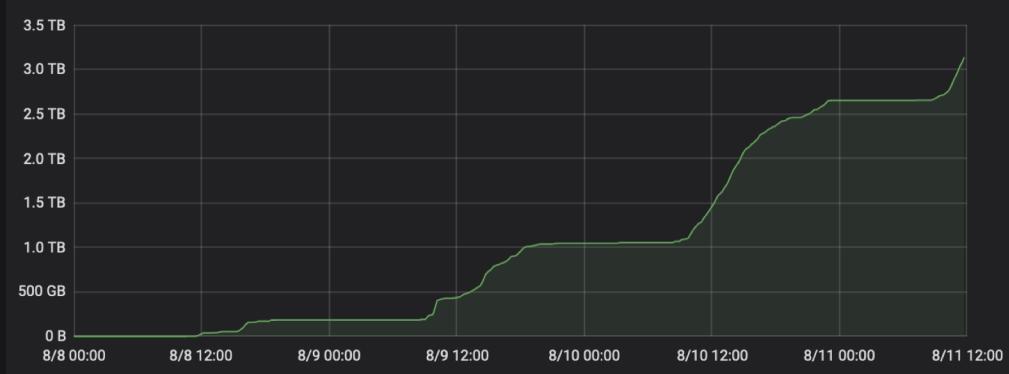




Wireless Bandwidth



dcmedia Total Bytes



Challenges/ Issues : aka yoloOps

- Some of the fiber connections
- Timing
- Last minute requests
- VERY last minute requests
- AP coverage and capacity at times
- 802.1X understanding (still)
- Lots of ground to cover



NOC

The good stuff

- Awesome team
- Great interaction with all of the other departments (thanks for the understanding at times in terms of prioritization)
- Adoption of 802.1X through Apple Profile, (the brand new) Android App (THANKS CRV!) and the off-the-cuff Chromebook Profile creation (THANKS c7five and johntitor!)
- NOC talk



NOC

Wired

- Villages
- Press
- Contests
- Vendors
- InfoBooth
- Dispatch
- Speakers
- Closed Captioning
- DC TV
- r00tz

WOW-Fi

- Attendees



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The Network

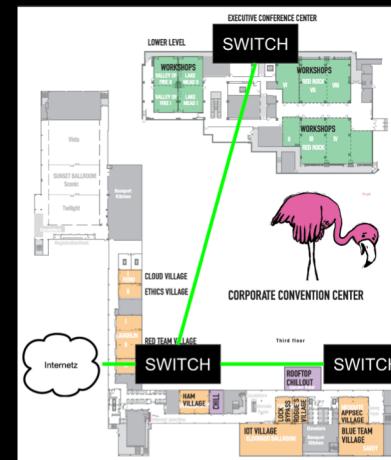
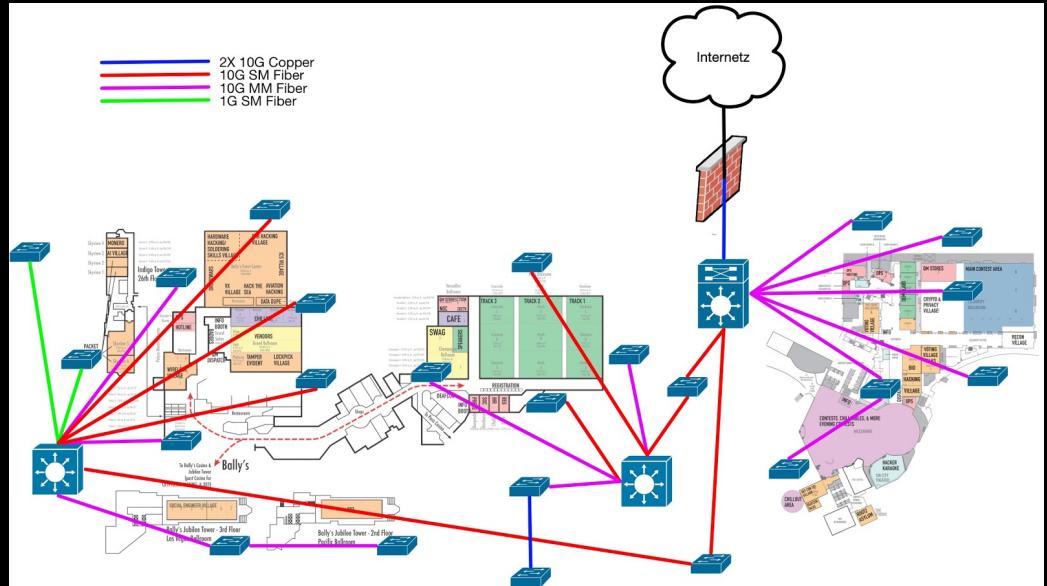
10 Gbps backbone

900 Mbps internet uplink (PH)

And then...

Layer 2 connection PH-Paris-Bally's

Layer 3/ IPSec PH-Flamingo



NOC

Gear

Wired Gear

2 x Firewalls - FreeBSD
4 x Core/ Distro Cisco Switches
27 x Edge Cisco Switches
Tons of unmanaged switches
3 x Monitoring "Servers"
1 x WiFi Registration "Server"
THE Media Server

Wireless Gear

2 x Aruba Controllers
84 x Aruba Access Points (model 305)



(the usual) Stats

12.6 TB of internet traffic (double of last year)

- Inbound: 9.2

- Outbound: 3.40

7,065 users registered on wifireg

2,100 wireless users peak

10,175 total number of devices on WoW-Fi

12,723 unique DHCP leases

12,182 different mac addresses

10+ TB of wireless traffic

3.011 GB media server traffic

5.1 Gbps of peak traffic on the core



The NOC Team

Leads

@effffn

mac

Operations

#sparky

Infra/Systems

c7five

booger

deadication

Monitoring

c0mmiebstrd

WeeW-Feez

CRV

Jon2

runners

johntitor

wish

k4tn155

dp1i

n00bs

Toph

MikeD



Thank you!

- DT
- Nikita
- Linda
- Will
- QM
- Caesars IT
- Encore Staff
- @thelockheed
- Sully's Bar Staff
- The High Roller at the LINQ
- The very nice folks who brings us snacks
- All other DEF CON departments
- **YOU!**

<http://zero-trust.AF>
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