



DEF CON 29 REVIEW







Some Arrivals

Saturday

Backbone Setup
Internet Setup
NOC Room Setup
Moar Arrivals

Sunday

Access Points Staging
Access Switch Deployments
Media Server Install

Monday

Moar Access Switch Deployments
Patching Patching Patching
APs deployments
Wifireg install

Tuesday

Wifireg instruction tweaks
A couple last minute requests

Wednesday





Moar last minute requests

Some Moar Patching

Wifireg Linux instructions tweaks Part 1

Intermittent Issues with one of the Bally's access switches

Wifireg Linux instructions tweaks Part Deux

Shit worked with minor issues/ requests

Final Wifireg Linux instructions tweaks

Teardown

Malort

Finish Teardown

Packing

Go home!

Detox

Thursday

Friday

Saturday

Sunday

Monday/ Tuesday





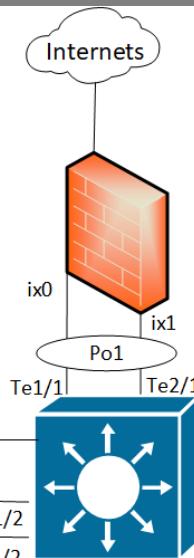
Internets

DC 29 Media

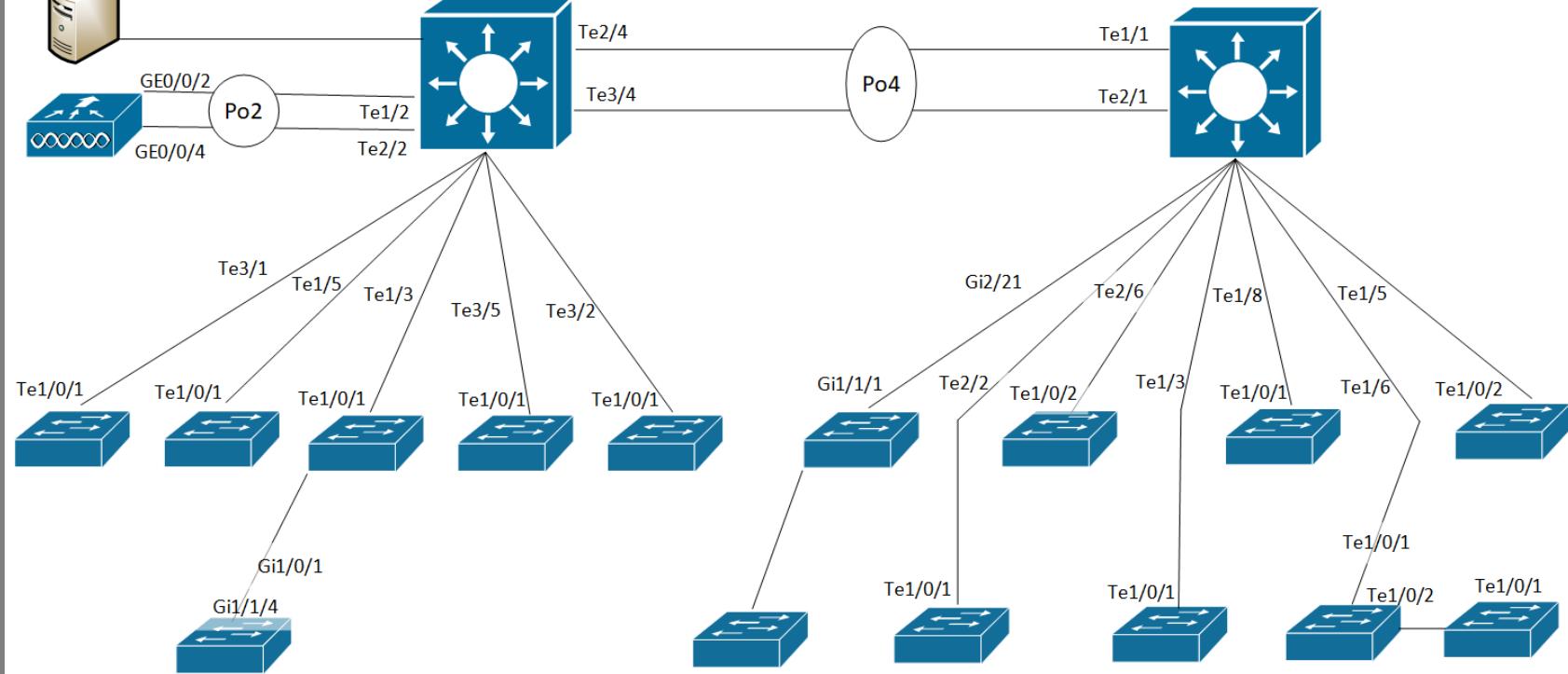


GEO/0/2
Po2

GEO/0/4



BALLY'S
LAS VEGAS



The Gear

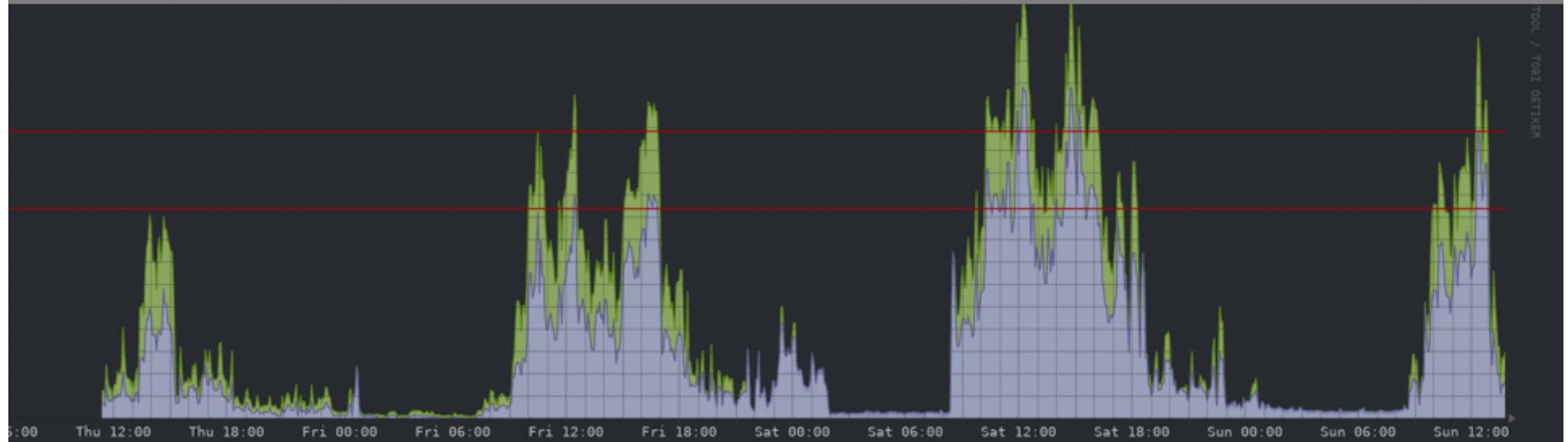
Wired Gear

2 x Firewalls - FreeBSD
2 x Core/ Distro Cisco Switches
15 x Edge Cisco Switches
Some unmanaged switches
2 x Monitoring "Servers"
1 x WiFi Registration "Server"
THE Media Server

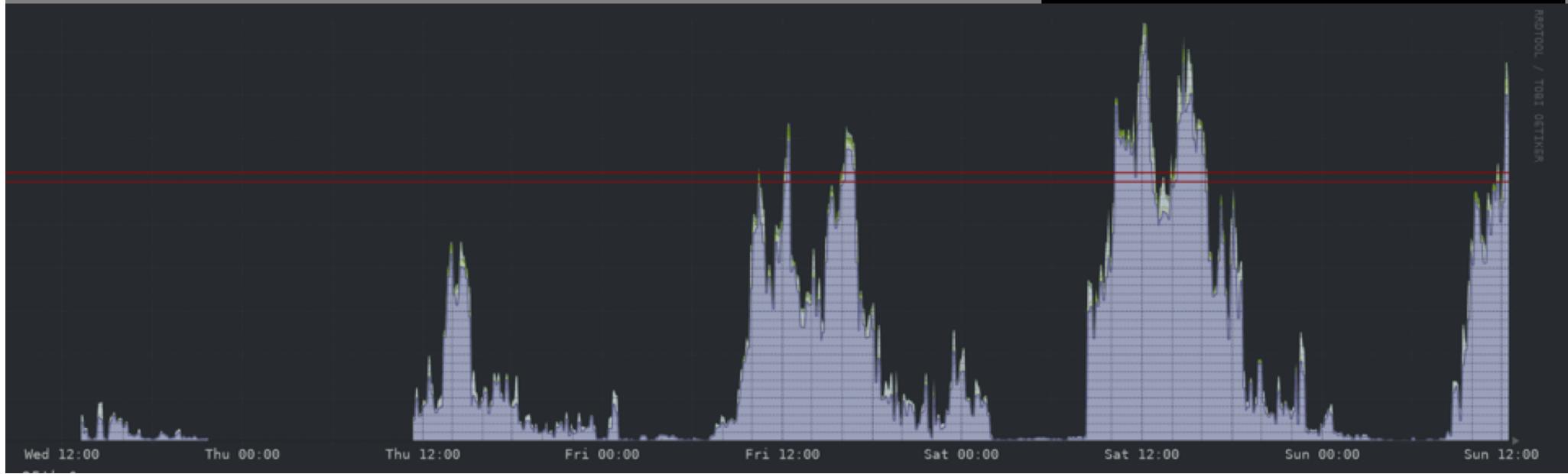
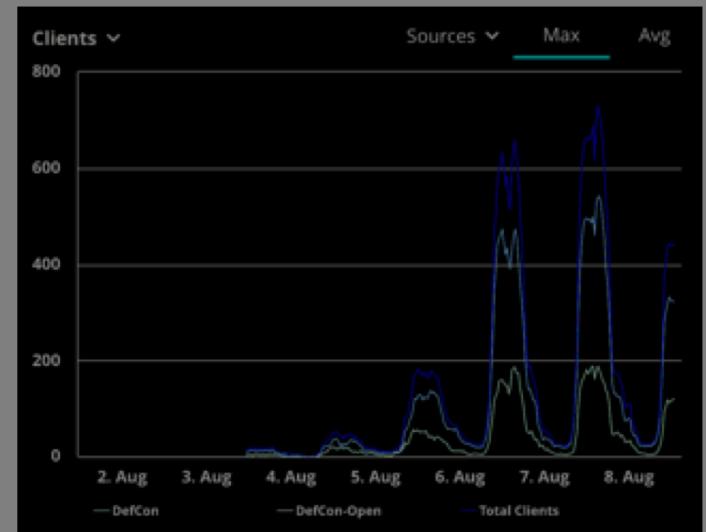
Wireless Gear

1 x Aruba Controllers
52 x Aruba Access Points (model 305)





Wi-Fi Graphs/ Stats



Devices Types	
Device type	Usage
Win 10	1.66 TB
OS X	898 GB
Linux	859 GB
-	765 GB
Win 8	228 GB
Windows	213 GB
iPhone	211 GB
Win XP	48.9 GB
iPad	30.6 GB
Chrome OS	26.6 GB

Details
Details

Users	
User name	Usage
Defconspkops	312 GB
exitman	297 GB
10.65.252.171	123 GB
10.65.254.65	110 GB
rvgolovin42	107 GB
10.65.251.223	70.3 GB
alphabetsnoop	64.4 GB
anxiety69	48.2 GB
bercules	48.2 GB
cicici1234	47.2 GB

Details
Details

Applications	
Application	Usage
https	1.47 TB
udp	702 GB
box-net	271 GB
twitch	258 GB
dropbox	205 GB
icloud	149 GB
bittorrent	147 GB
windows-marketplace	131 GB
openvpn	119 GB
windows-azure	114 GB

Details

Destinations	
Destination	Usage
dc29-media.defcon.org	886 GB
box	271 GB
google drive	108 GB
samsclass.info	90.9 GB
kali.download	84.7 GB
media.defcon.org	72.4 GB
fp-vs-nocache.azureedge.net	67.7 GB
video-edge-7eb4e0.sjc05.abc.hls.ttvnw.net	48 GB
images.kali.org	44.9 GB
download.microsoft.com	43.4 GB

Details

Challenges: YoloSecOps

- Intermittent switch failures at Bally's Contest area
- A few Radius Server issues on Wed
- Testing all platforms available on wifireg
- (some) last minute requests



Wired

- VillagE
- ContesT
- Speakers
- DC TV
- Discord DevOps
- Workshops

WOW-Fi

- Attendees
- Villages
- Contests
- And everyone else



The Traditional Stats

6.8 TB of internet traffic (vs DC 27 - 12.6 TB)

- Inbound: 1.4

- Outbound: 5.4

2,396 users registered on wifireg

706 wireless users peak

3,829 total number of devices on WoW-Fi

3,283 unique DHCP leases

2,983 different mac addresses

4.9 TB of wireless traffic

1.1 TB media server traffic

4.5 Gbps of peak traffic on the core



The NOC Team

Leads

@effffn
mac

Operations

#sparky

Infra/Systems

MikeD
c7five
booger
deadication
dp1i

Wi-Fi

CRV
Jon2

Runners

johntitor
wish
k4tn155

Monitoring

c0mmiebstrd
Toph



Thank you!

- DT
- Janet
- Nikita
- Millz
- QM
- Caesars IT
- Encore Staff
- The very nice folks who brings us snacks
- Every other DEF CON Goon
- **YOU!**

<https://noc.defcon.org>

@DEFCON_NOC

