



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

Thursday

Intermittent Issues with one of the Bally's access switches

Wifireg Linux instructions tweaks Part Deux

Friday

Shit worked with minor issues/ requests

Final Wifireg Linux instructions tweaks

Saturday

Teardown

Malort

Sunday

Finish Teardown

Packing

Go home!

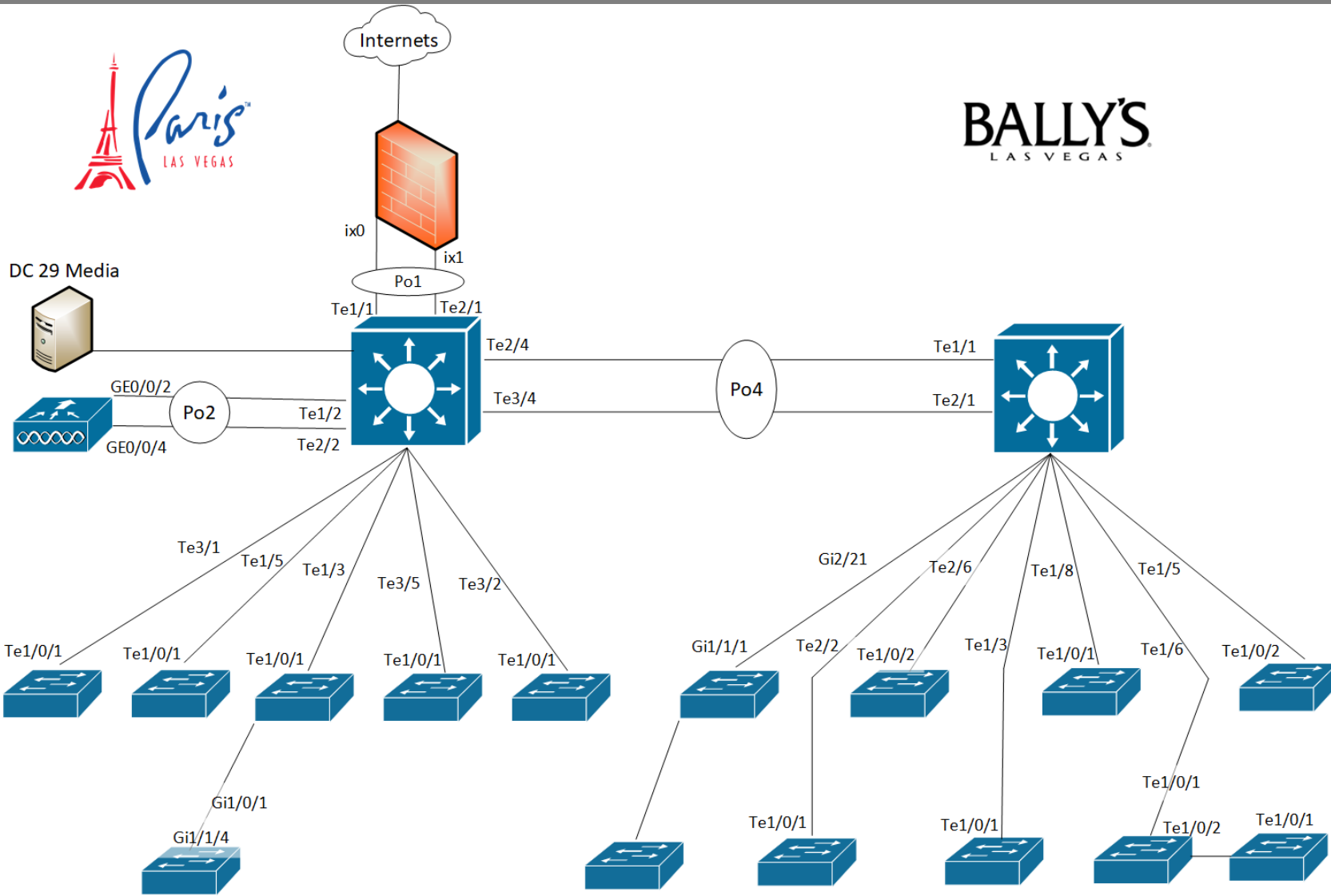
Detox

Monday/ Tuesday





BALLY'S
LAS VEGAS



The Gear

Wired Gear

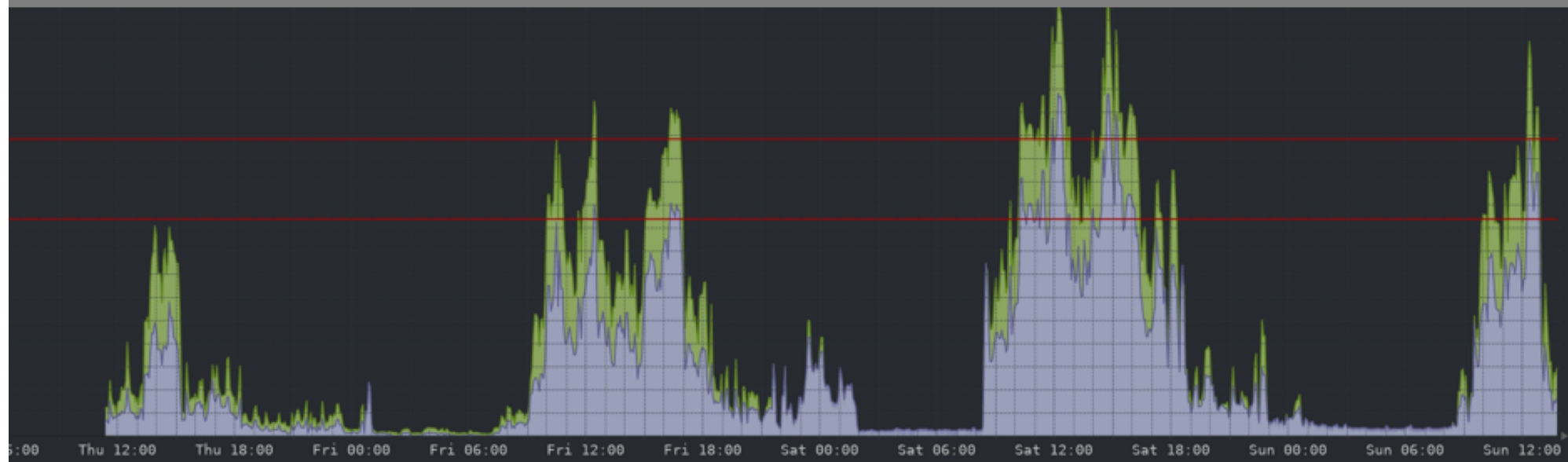
- 2 x Firewalls - FreeBSD
- 2 x Core/ Distro Cisco Switches
- 15 x Edge Cisco Switches
- Some unmanaged switches
- 2 x Monitoring "Servers"
- 1 x WiFi Registration "Server"
- THE Media Server

Wireless Gear

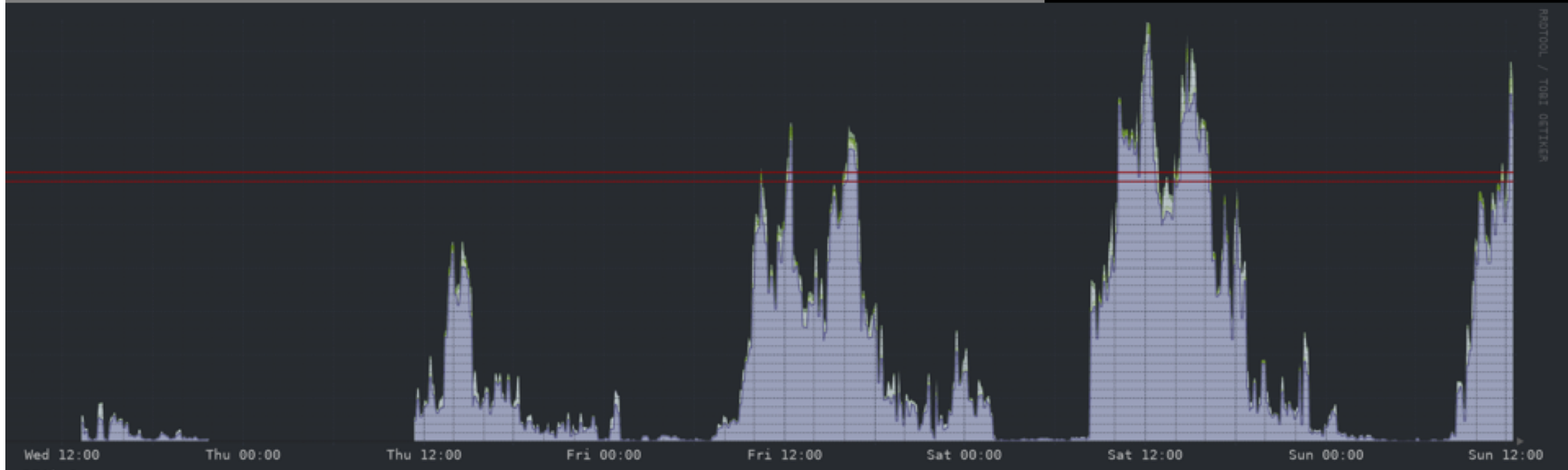
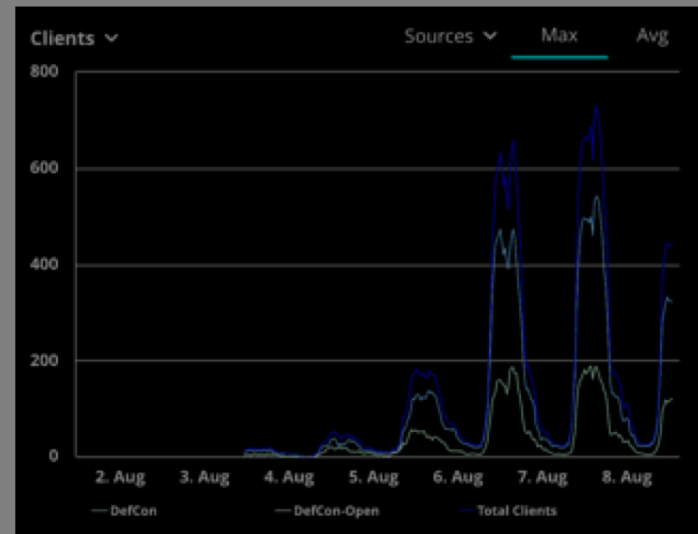
- 1 x Aruba Controllers
- 52 x Aruba Access Points (model 305)



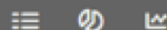
TOOL / TOSI OETIKER



Wi-Fi Graphs/ Stats



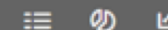
Devices Types



| 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

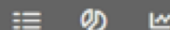
Users



| User name | Usage |
|---------------|---------|
| Defconspokops | 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 |
| cidd1234 | 47.2 GB |

Details
Details

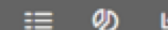
Applications



| 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.abs.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

