DEF CON 29 REVIEW
Some Arrivals

- Backbone Setup
- Internet Setup
- NOC Room Setup
- Moar Arrivals

Saturday

- Access Points Staging
- Access Switch Deployments
- Media Server Install

Sunday

- Moar Access Switch Deployments
- Patching
- APs deployments
- Wifireg install

Monday

- Wifireg instruction tweaks
- A couple last minute requests

Tuesday

- 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
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

<table>
<thead>
<tr>
<th>Device type</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Win 10</td>
<td>1.66 TB</td>
</tr>
<tr>
<td>OS X</td>
<td>898 GB</td>
</tr>
<tr>
<td>Linux</td>
<td>859 GB</td>
</tr>
<tr>
<td>...</td>
<td>765 GB</td>
</tr>
<tr>
<td>Win 8</td>
<td>228 GB</td>
</tr>
<tr>
<td>Windows</td>
<td>213 GB</td>
</tr>
<tr>
<td>iPhone</td>
<td>211 GB</td>
</tr>
<tr>
<td>Win XP</td>
<td>48.9 GB</td>
</tr>
<tr>
<td>iPad</td>
<td>30.6 GB</td>
</tr>
<tr>
<td>Chrome OS</td>
<td>26.6 GB</td>
</tr>
</tbody>
</table>

### Users

<table>
<thead>
<tr>
<th>User name</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deconfspkops</td>
<td>312 GB</td>
</tr>
<tr>
<td>exitman</td>
<td>297 GB</td>
</tr>
<tr>
<td>10.65.252.171</td>
<td>123 GB</td>
</tr>
<tr>
<td>10.65.254.65</td>
<td>110 GB</td>
</tr>
<tr>
<td>rgolowin42</td>
<td>107 GB</td>
</tr>
<tr>
<td>10.65.251.223</td>
<td>70.3 GB</td>
</tr>
<tr>
<td>alphabsnoop</td>
<td>64.4 GB</td>
</tr>
<tr>
<td>anxiety69</td>
<td>48.2 GB</td>
</tr>
<tr>
<td>bercules</td>
<td>48.2 GB</td>
</tr>
<tr>
<td>cicici1234</td>
<td>47.2 GB</td>
</tr>
</tbody>
</table>

### Applications

<table>
<thead>
<tr>
<th>Application</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>https</td>
<td>1.47 TB</td>
</tr>
<tr>
<td>udp</td>
<td>702 GB</td>
</tr>
<tr>
<td>box-net</td>
<td>271 GB</td>
</tr>
<tr>
<td>twitch</td>
<td>258 GB</td>
</tr>
<tr>
<td>dropbox</td>
<td>205 GB</td>
</tr>
<tr>
<td>icloud</td>
<td>149 GB</td>
</tr>
<tr>
<td>bittorrent</td>
<td>147 GB</td>
</tr>
<tr>
<td>windows-marketplace</td>
<td>131 GB</td>
</tr>
<tr>
<td>openvpn</td>
<td>119 GB</td>
</tr>
<tr>
<td>windows-azure</td>
<td>114 GB</td>
</tr>
</tbody>
</table>

### Destinations

<table>
<thead>
<tr>
<th>Destination</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>dc29-media.defcon.org</td>
<td>886 GB</td>
</tr>
<tr>
<td>box</td>
<td>271 GB</td>
</tr>
<tr>
<td>google drive</td>
<td>108 GB</td>
</tr>
<tr>
<td>samsclass.info</td>
<td>90.9 GB</td>
</tr>
<tr>
<td>kail.download</td>
<td>84.7 GB</td>
</tr>
<tr>
<td>media.defcon.org</td>
<td>72.4 GB</td>
</tr>
<tr>
<td>fp-vs-nocache.azureedge.net</td>
<td>67.7 GB</td>
</tr>
<tr>
<td>video-edge-7eb4e0.8c05.abs.hls.ttwnw.net</td>
<td>48 GB</td>
</tr>
<tr>
<td>images.kali.org</td>
<td>44.9 GB</td>
</tr>
<tr>
<td>download.microsoft.com</td>
<td>43.4 GB</td>
</tr>
</tbody>
</table>
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

NOC
The NOC Team

Leads
@efffn
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