What is an internet? A miserable little pile of packets?

Networking Presentation

ITMS 448

Henry Post

There is no formatting because LibreOffice Impress themes are broken for flat ODP files :)

Analysis of Wireshark

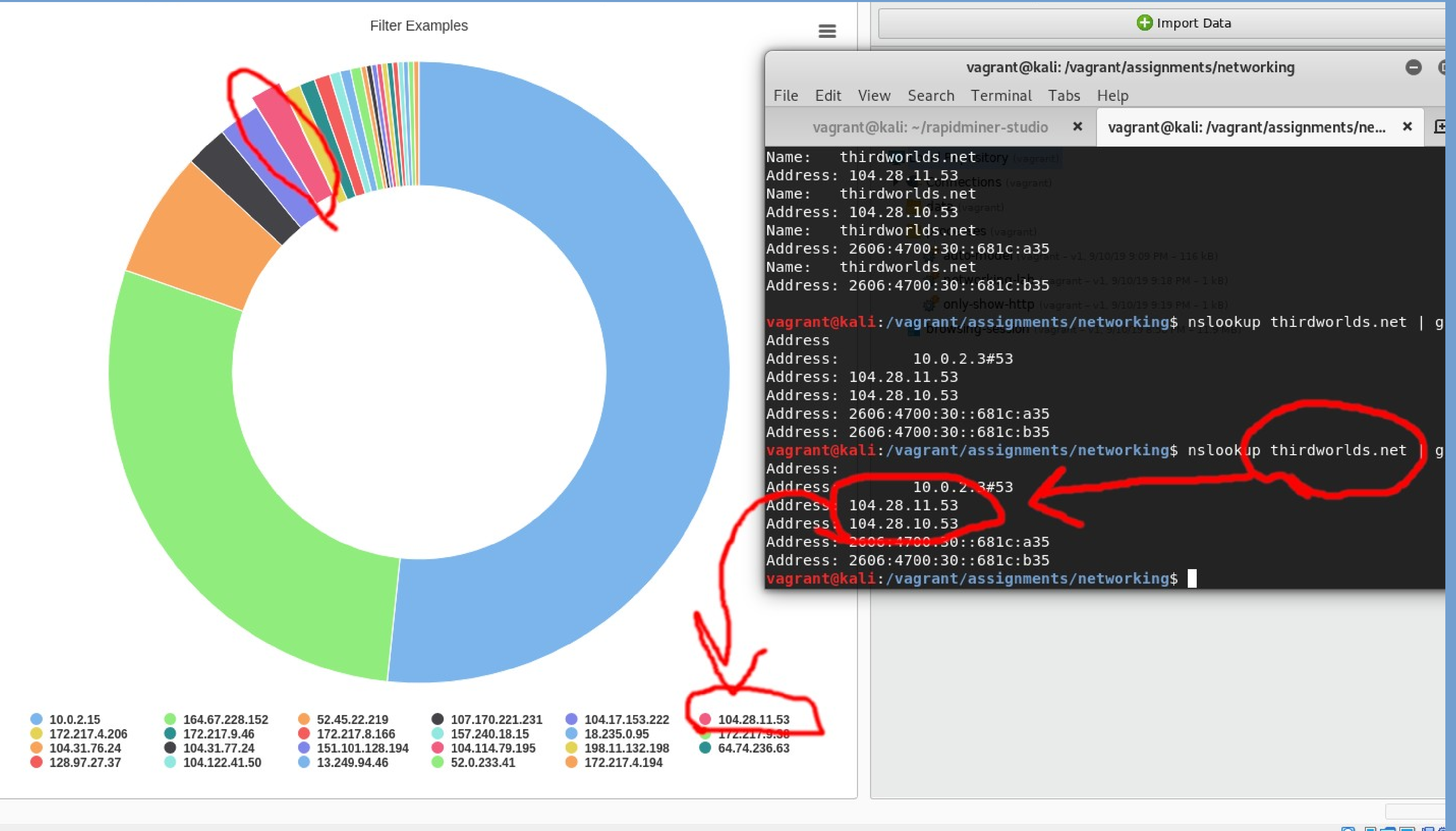
- I browsed news sites, music sites, and watched videos while capturing my packets.
- Some was on HTTPS, some on HTTP, and some was other protocols.
- I mainly focused on seeing what I could find out from the HTTP/S traffic because that’s web browsing activity, which is often *interesting*.

MCride01

MCride01
I’m in your area

MCride01 - Writing.

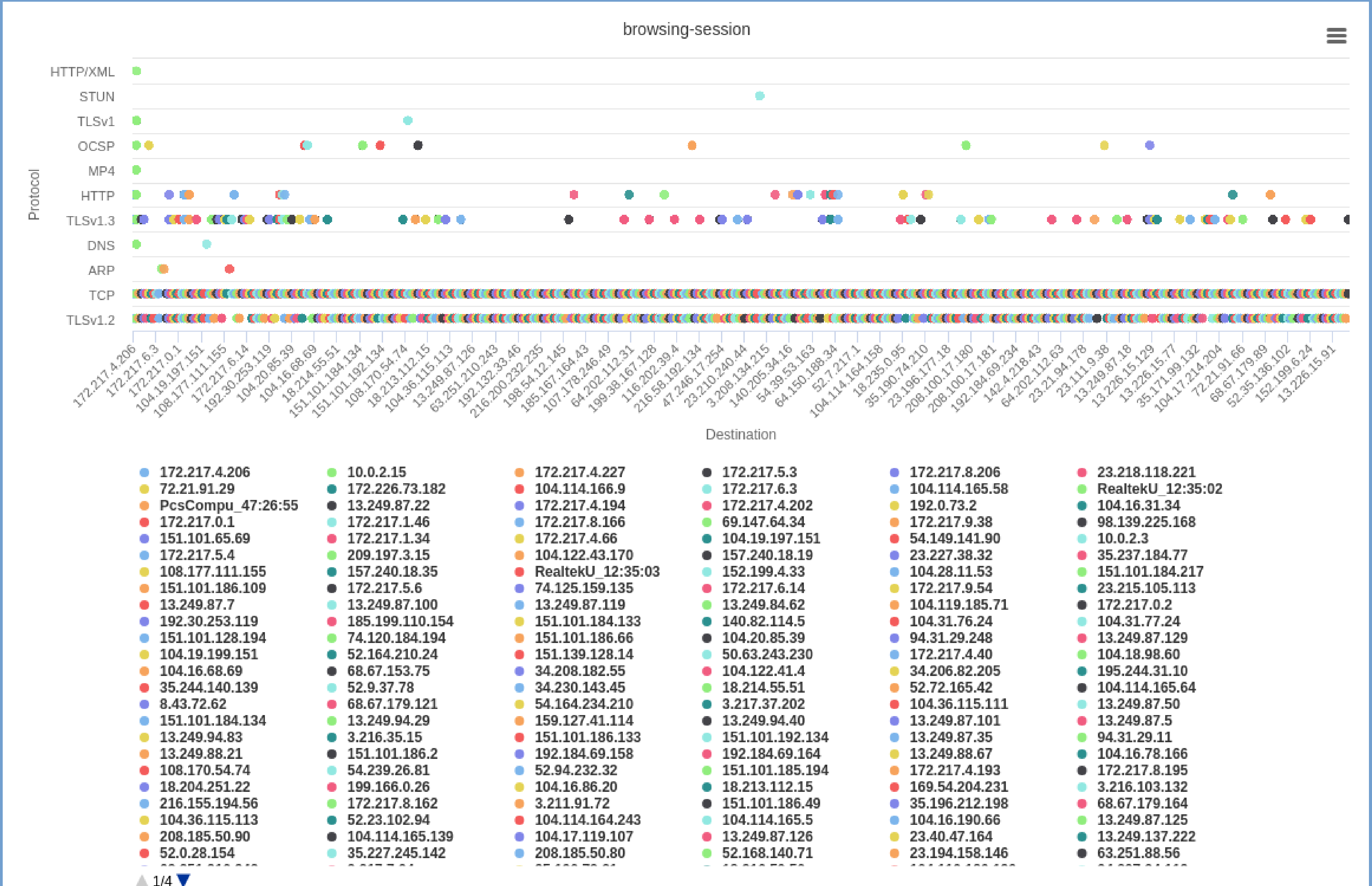
Most HTTP packets tx/rx by IP



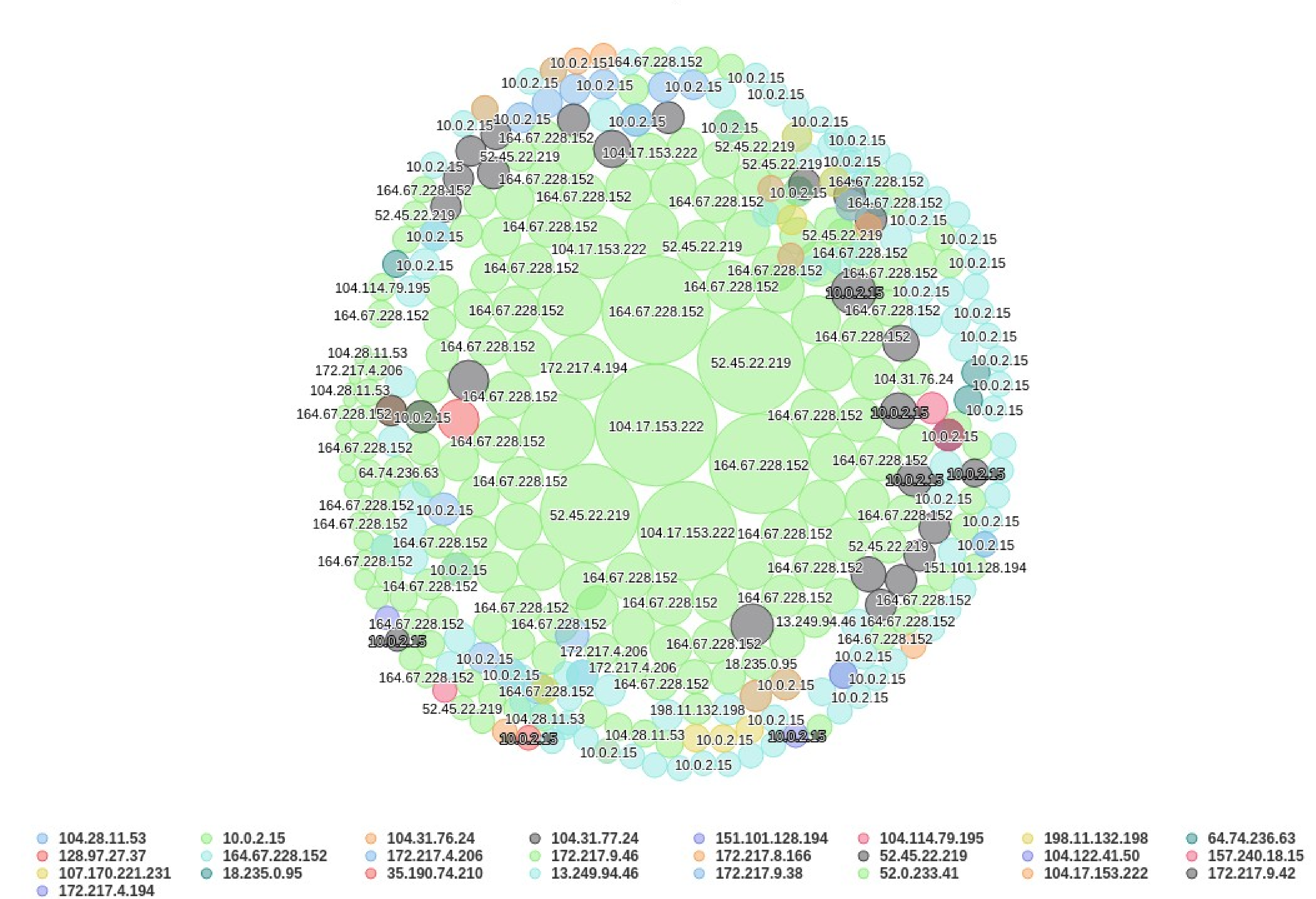
```
Name:   thirdworlds.net
Address: 104.28.11.53
Name:   thirdworlds.net
Address: 104.28.10.53
Name:   thirdworlds.net
Address: 2606:4700:30::681c:a35
Name:   thirdworlds.net
Address: 2606:4700:30::681c:b35

vagrant@kali:/vagrant/assignments/networking$ nslookup thirdworlds.net | g
Address
Address:        10.0.2.3#53
Address: 104.28.11.53
Address: 104.28.10.53
Address: 2606:4700:30::681c:a35
Address: 2606:4700:30::681c:b35
vagrant@kali:/vagrant/assignments/networking$ nslookup thirdworlds.net | g
Address:
Address:        10.0.2.3#53
Address: 104.28.11.53
Address: 104.28.10.53
Address: 2606:4700:30::681c:a35
Address: 2606:4700:30::681c:b35
vagrant@kali:/vagrant/assignments/networking$ █
```

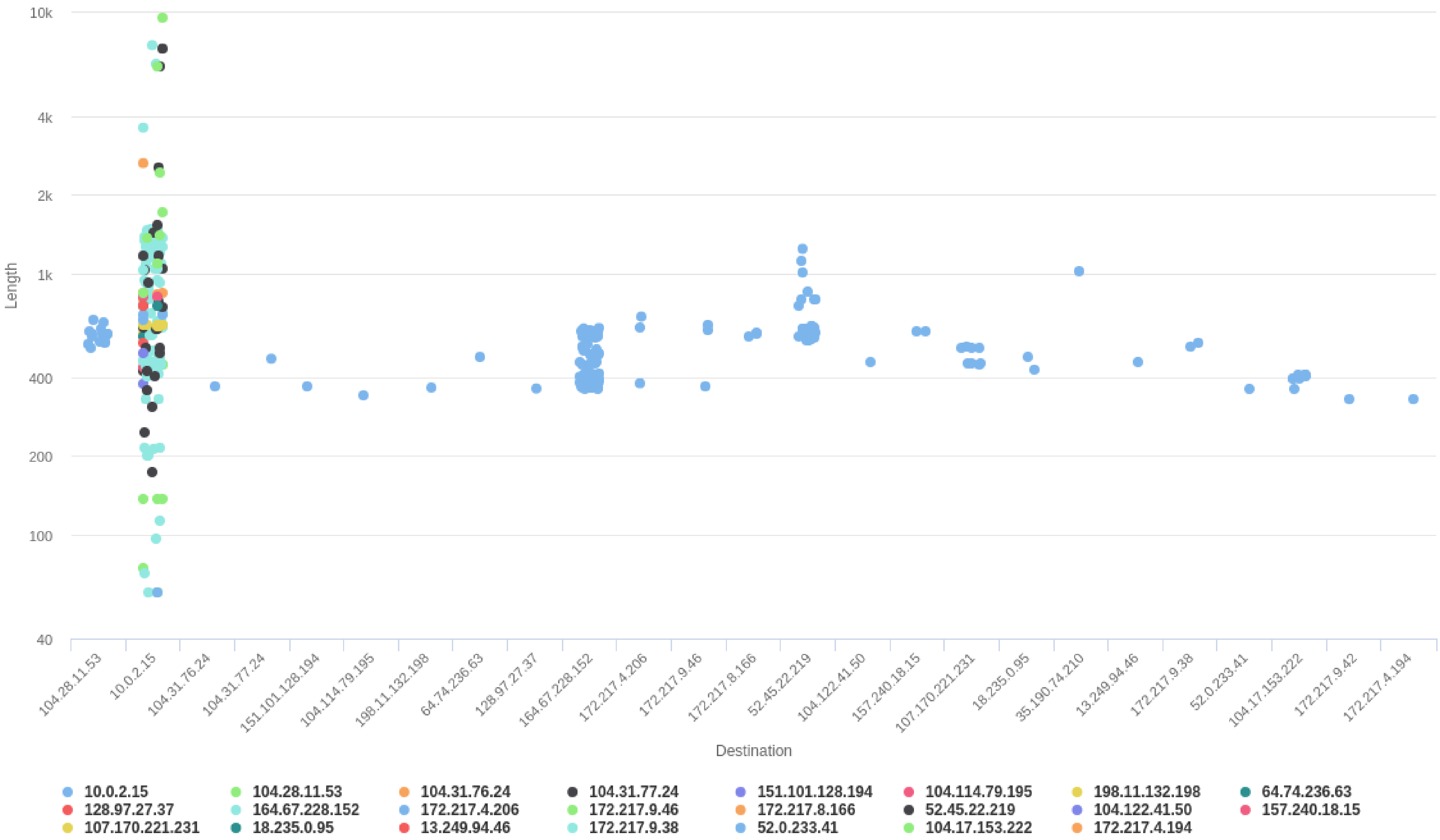
Popular protocols per host



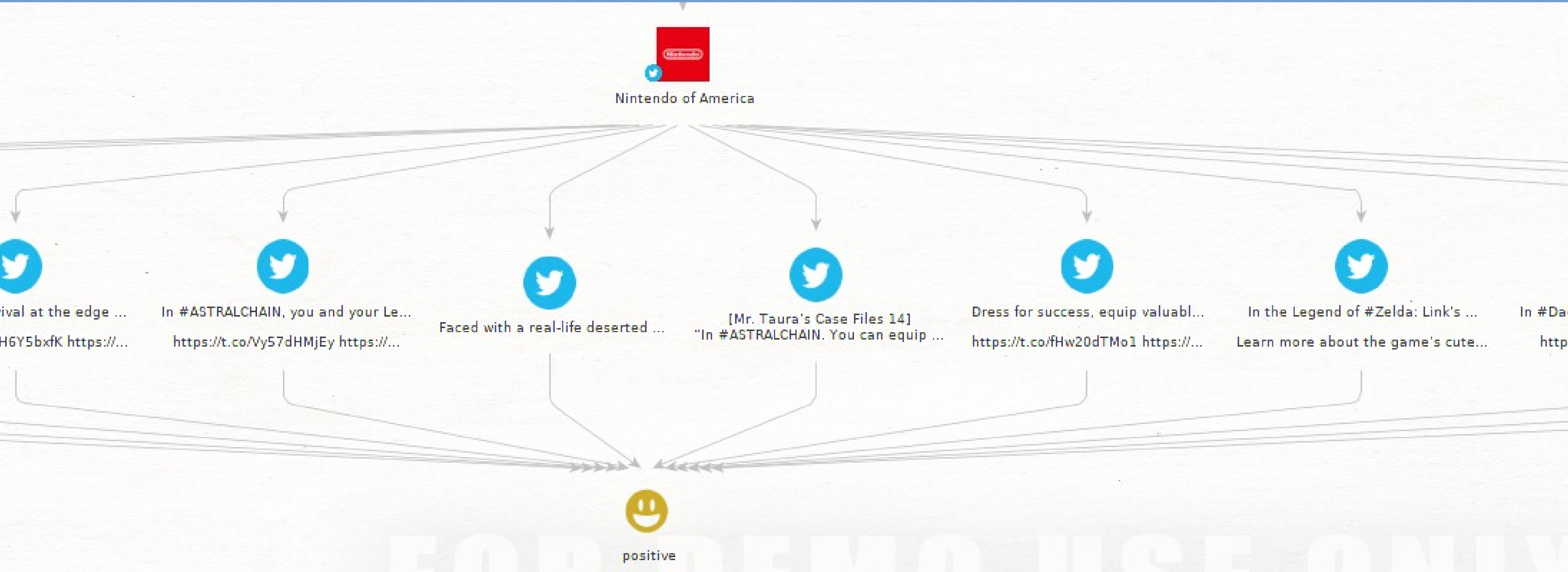
Most HTTP packets, bubble graph



Longest packet sequences per host



Game Retail Twitter Sentiments



Nintendo of America

ival at the edge ...
H6Y5bxfK https://...

In #ASTRALCHAIN, you and your Le...
https://t.co/Vy57dHMjEy https://...

Faced with a real-life deserted ...

[Mr. Taura's Case Files 14]
"In #ASTRALCHAIN. You can equip ...

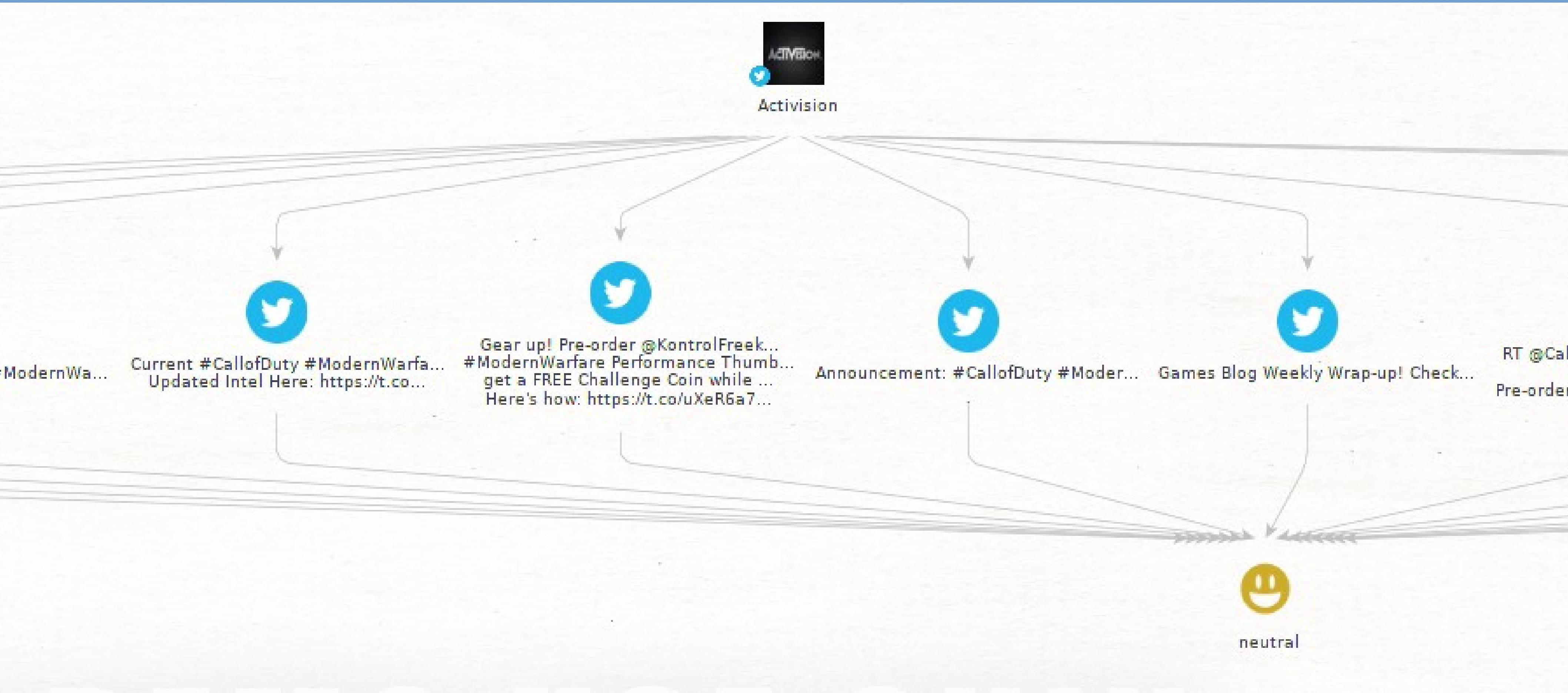
Dress for success, equip valuabl...
https://t.co/fHw20dTMo1 https://...

In the Legend of #Zelda: Link's ...
Learn more about the game's cute...

In #Da
http

positive

Game Retail Twitter Sentiments



Activision

ModernWa...

Current #CallofDuty #ModernWarfa...
Updated Intel Here: https://t.co...

Gear up! Pre-order @KontrolFreek...
#ModernWarfare Performance Thumb...
get a FREE Challenge Coin while ...
Here's how: https://t.co/uXeR6a7...

Announcement: #CallofDuty #Moder...

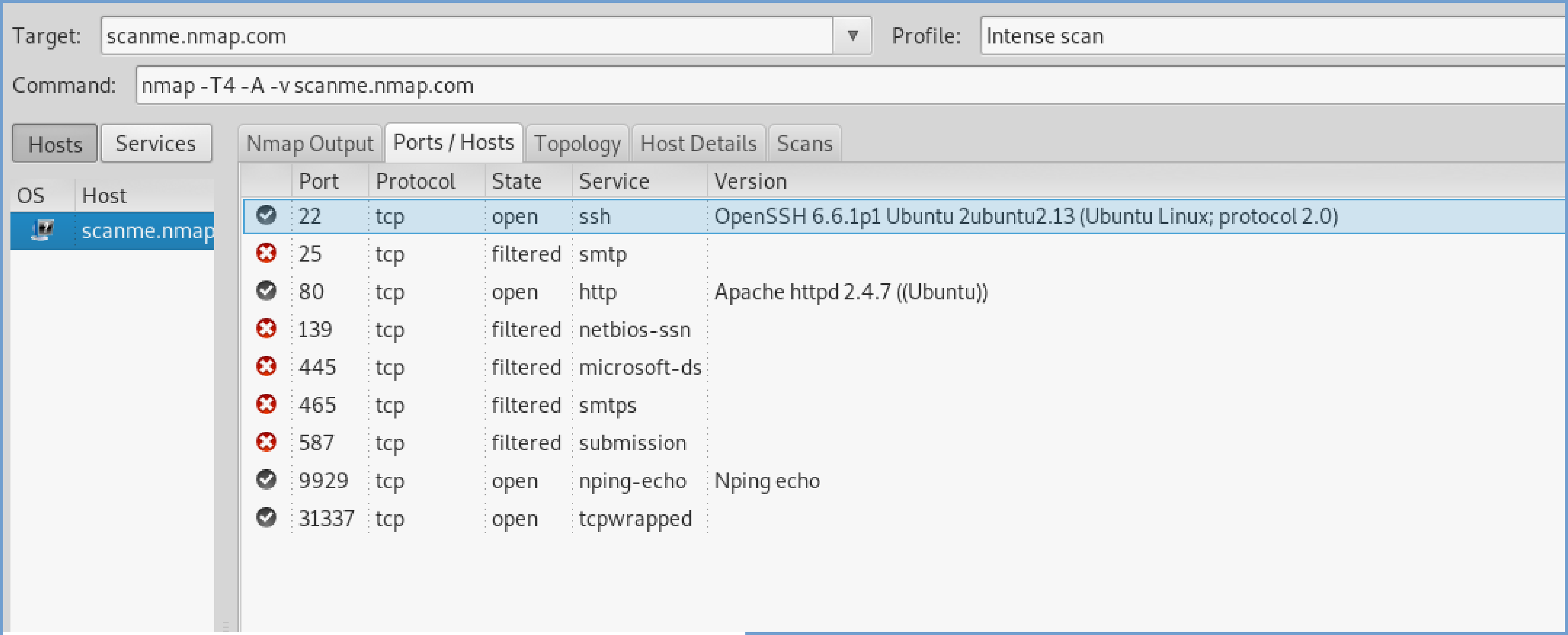
Games Blog Weekly Wrap-up! Check...

RT @Cal

Pre-orde

neutral

nmap and traceroute



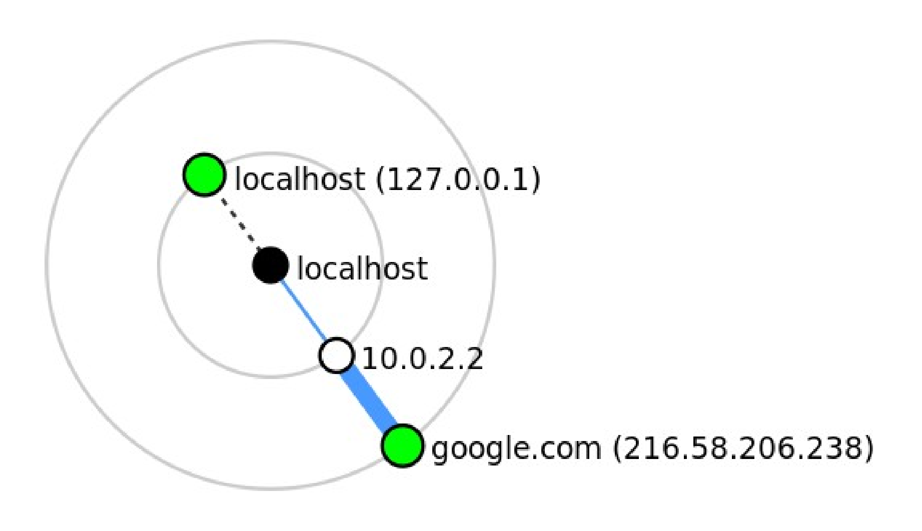
Target: scanme.nmap.com

Profile: Intense scan

Command: nmap -T4 -A -v scanme.nmap.com

OS	Host
	scanme.nmap

	Port	Protocol	State	Service	Version
✓	22	tcp	open	ssh	OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.13 (Ubuntu Linux; protocol 2.0)
✖	25	tcp	filtered	smtp	
✓	80	tcp	open	http	Apache httpd 2.4.7 ((Ubuntu))
✖	139	tcp	filtered	netbios-ssn	
✖	445	tcp	filtered	microsoft-ds	
✖	465	tcp	filtered	smtps	
✖	587	tcp	filtered	submission	
✓	9929	tcp	open	nping-echo	Nping echo
✓	31337	tcp	open	tcpwrapped	



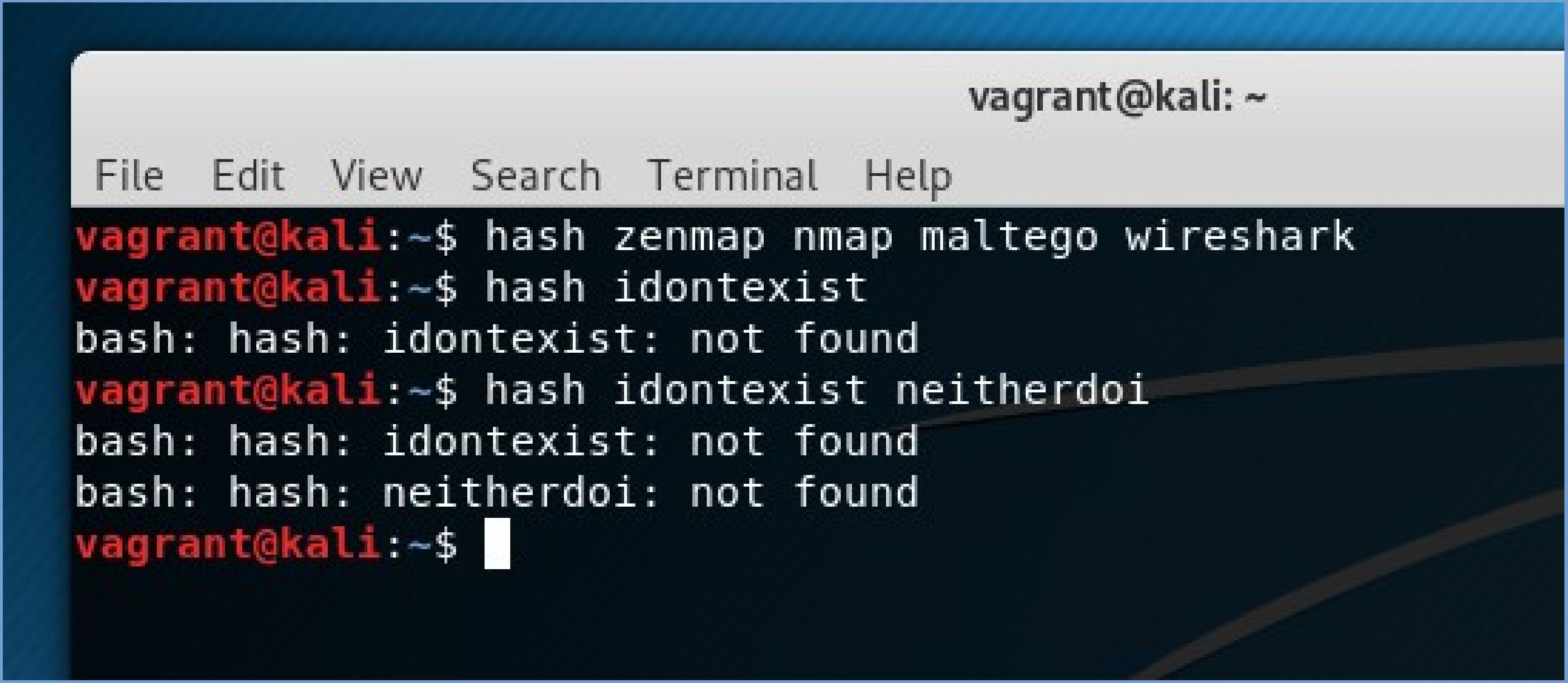
(Don’t worry, I only ran traceroute on google.)

Thank you!

Questions?

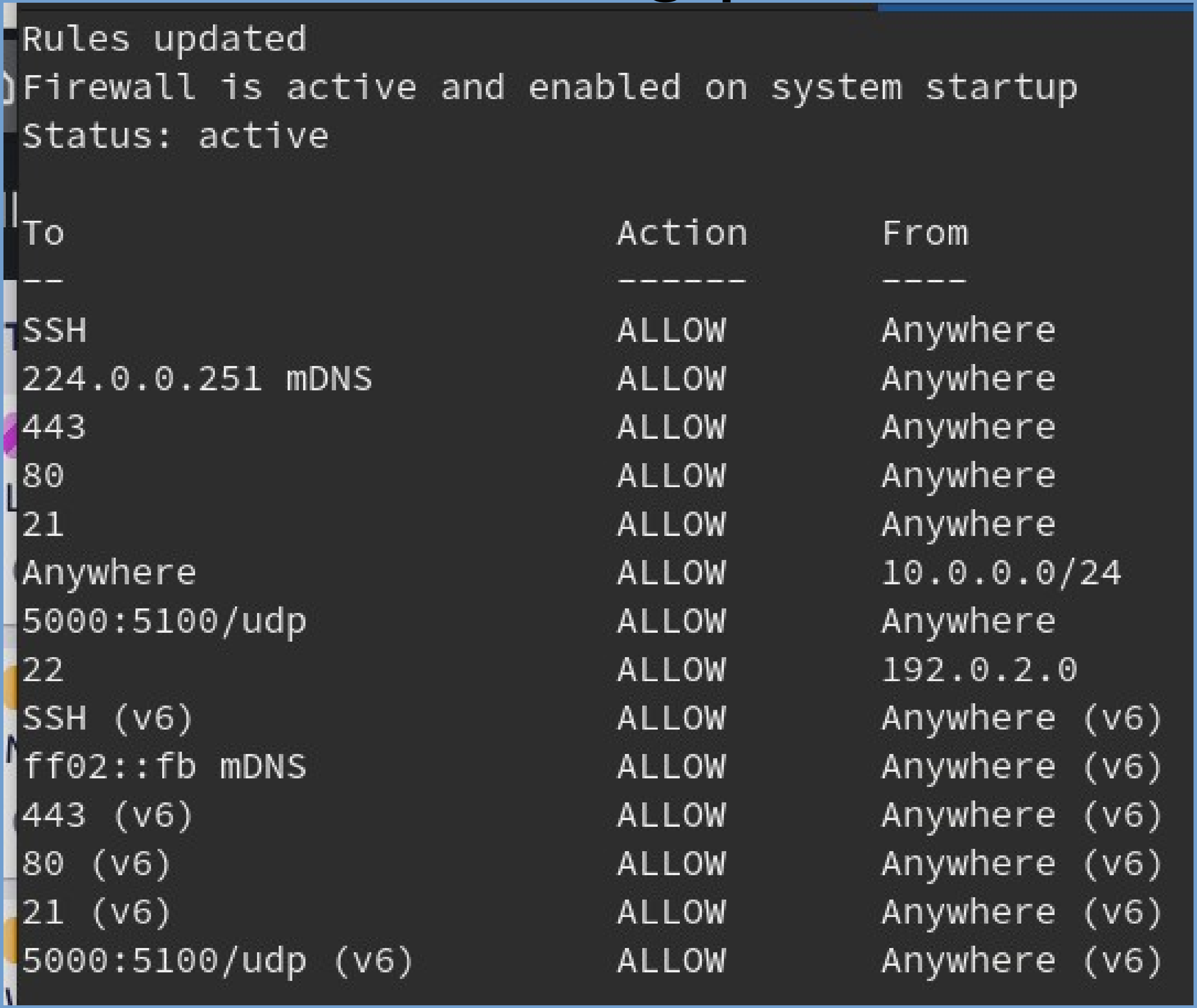
(Prof. Dawson, go past this slide for other deliverables.)

Installed Programs Proof



```
vagrant@kali:~$ hash zenmap nmap maltego wireshark
vagrant@kali:~$ hash idontexist
bash: hash: idontexist: not found
vagrant@kali:~$ hash idontexist neitherdoi
bash: hash: idontexist: not found
bash: hash: neitherdoi: not found
vagrant@kali:~$ 
```

UFW config proof



```
Rules updated
Firewall is active and enabled on system startup
Status: active

To                         Action      From
--                         ------      ----
SSH                        ALLOW       Anywhere
224.0.0.251 mDNS           ALLOW       Anywhere
443                        ALLOW       Anywhere
80                         ALLOW       Anywhere
21                         ALLOW       Anywhere
Anywhere                   ALLOW       10.0.0.0/24
5000:5100/udp              ALLOW       Anywhere
22                         ALLOW       192.0.2.0
SSH (v6)                   ALLOW       Anywhere (v6)
ff02::fb mDNS              ALLOW       Anywhere (v6)
443 (v6)                   ALLOW       Anywhere (v6)
80 (v6)                    ALLOW       Anywhere (v6)
21 (v6)                    ALLOW       Anywhere (v6)
5000:5100/udp (v6)         ALLOW       Anywhere (v6)
```

Raw data/graphs/CSV

- See other files in the ZIP file for raw data/graphs/CSV files