

BLUE PILL, RED PILL



João Machado e Pedro Silva



JUST ANOTHER MONDAY



Jornadas
— FCCN



```
jan@core:~$ byzanz-record --delay=3 -d 30 elite.gif

jan@core:~$ y | hacktyper.sh -g -f -s 200; ./hack.exe@google.com

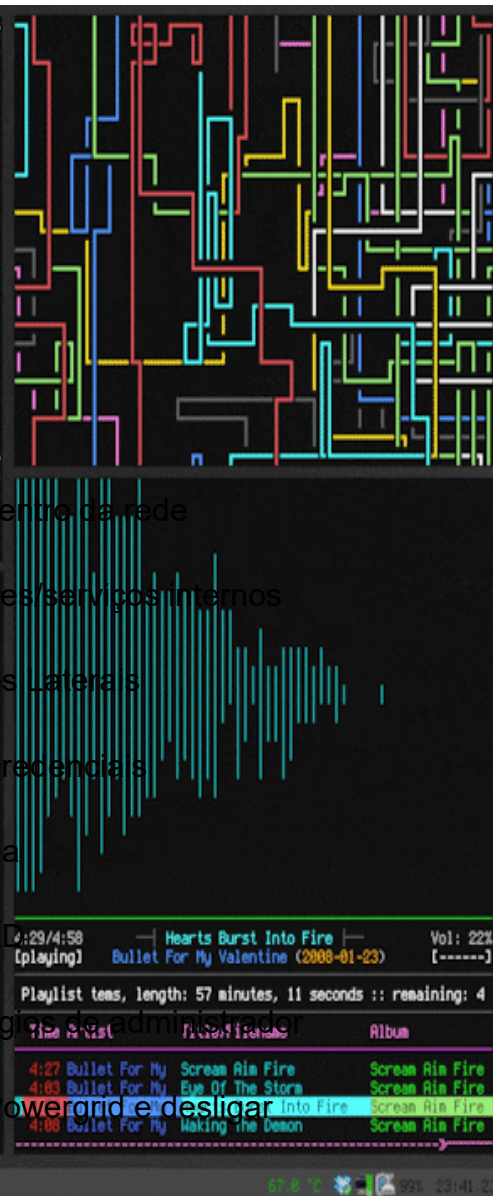
0 [||||| 30.81] 1 [||||| 30.21] Tasks: 94; 2 running
Mem [||||| 727/3697MB] Load average: 1.38 1.44 1.14
Swp [||||| 0/2047MB] Uptime: 3 days, 18:05:46
Bat [||||| 99.4%(A/C)] Hostname: core

USER      PID  NI  S  CPU%  MEM%  TIME+  Command
root      2893  0  R  23.0  0.6  15:34.95 /usr/bin/X -nolisten tcp -o -auth /tmp/
jan       3005  0  S  0.0  0.4  3:24.87 xfce4-terminal --geometry=90x39 --displ
jan       19267 0  S  4.0  0.2  0:16.08 mpd
jan       21396 0  S  3.0  0.1  0:11.17 /bin/bash ./pipes.sh
jan       3002  0  S  2.0  0.8  1:57.12 /usr/bin/compiz --replace
jan       19984 0  S  2.0  0.1  0:24.66 ncacpp -c .ncacpp/config.alt
jan       3437  0  S  1.0  10.4 11:04.40 /usr/lib/aurora/firefox
jan       18917 0  S  1.0  0.1  0:12.29 taux
jan       18029 0  S  1.0  0.0  0:16.19 lua 3spooky
jan       22263 0  R  1.0  0.1  0:11.22 http
jan       3626  0  S  0.0  0.5  1:00.43 /usr/lib/aurora/plugin-container /usr/l
jan       18818 0  S  0.0  0.0  0:00.00 catrux -bsu 9
jan       3824 -1  S  0.0  0.1  0:35.10 /usr/bin/pulseaudio --start --log-targe
F1 help F2 setup F3 search F4 filter F5 focus F6 scroll F7 info F8 icon F9 view F10 list
```

```
Exploit-the-Reverse-Engineering
ROOT-KITS
Ur-Computer-Is-MY-Slave
Exploit-the-VIRUS
DROPPER
Nation's-Data
HoM3-4u3t
lul_u_lul
HoM3-HoM3-127.0.0.1

WARNING: Illegal Network Connections Beyond Login
HACKSR! You are at the point of NO RETURN! HACKSR!
Your Activities Will be Keylogged and Time stamped
Hacking Sites: https://sites.google.com/site/lazyboxx http://www.freebsd.org

j l c + h 2 u z p s P X - H X H P
v w s = u 0 2 z p s P X - H X H P
6 j s = i o t - Z o X R F x C L R S j
U ; : E V r v J s = 3 F f X q z T 2 r U Y
6 U o l a ^ h / ^ Q * X z e . i v h p k
# 4 n + u q ( H < L q k ) l < . y h p k
S ; > K Y s D 1 ( [ F ] h g ' , N = 2 Q H
n \ w v s I q F 1 [ T 2 i K b u m E 2 Y 0
i J u s s 6 7 ; U ; u y / 2 J R e 7
F i u i P d v s C s k r D 5 = a , K x i j
> : i T S T Q L = b i 8 e b K k a g . X U
? ' 9 c 0 ? w 0 l x E a e Q d D Y Z o Z u
h q h e = d < Y < K < 6 0 G E E a z y n
, l S l e [ s l ' q 8 I G t 6 z y n
0 S - F q - j H j 2 C H / c D b 5 / J n i l
& l 9 a A C e - h s ' U \ V J < 0 B C /
x ( T / V G o p c m s u 3 i f \ q u e a F q s
V ( T ' t = 0 : 0 . i F \ K v j 6 7 = 0
- O E R q u o o i F 7 = 0
\ u o p F a J J % X w 1 L 2 ? 6 B q
3 l y j q u w k a 9 : U i v i n z x T 7
L C ; o e 3 = B ? q = b v u ( ? 0 N a 7 a C
b o c b 3 i j I 6 D x d 0 t x i 0 P J a 7 a C
R e X V p i P # v o t x z i v s i h y t R
P W s ; P 7 j C ( 5 4 1 6 T m c b P N )
$ J U j . M 0 : z B x h c ' 7
, T h Q J , M ? I = X z 0 V e i C b a H ,
+ o & N f 9 + a a = x 4 w 0 o j i t T
```



[DarkWeb Private Chat – "SilentFox Messenger"]

ShadowWolf:

Got eyes on GridCorp. Their employees are super click-happy. Thinking classic phishing.

ByteRider:

Lol nice. What's the theme? Invoice? Password reset?

ShadowWolf:

Better. Fake Office365 login page. Email looks like "Action Required: Password Expiring Soon."

ByteRider:

Classic. You crafting the phishing page?

ShadowWolf:

Already done. Cloned Microsoft login with SSL cert to look legit. Hosting it behind a fast-flux network.

ByteRider:

Sweet. Mail server ready?

ShadowWolf:

Yup. Spoofed "it-support@gridcorp.com" address. Gonna hit 300+ users at once.

ByteRider:

Oof, that's gonna hurt. Payload or creds?

ShadowWolf:

Focus on stealing credentials first. Later, maybe send a malware-laced attachment.

ByteRider:

How you handling alerts? GridCorp has decent spam filters.

ShadowWolf:

Using trusted domains for redirect chains to mask the phishing URL.

ByteRider:

Solid. When do we launch?

ShadowWolf:

Friday 8:30 AM. Early birds will fall for it.

ByteRider:

Perfect. Let's make GridCorp our next trophy. 🏆

ShadowWolf:

Stay low, stay silent. See you after the breach.

strador



REDE CORPORATIVA

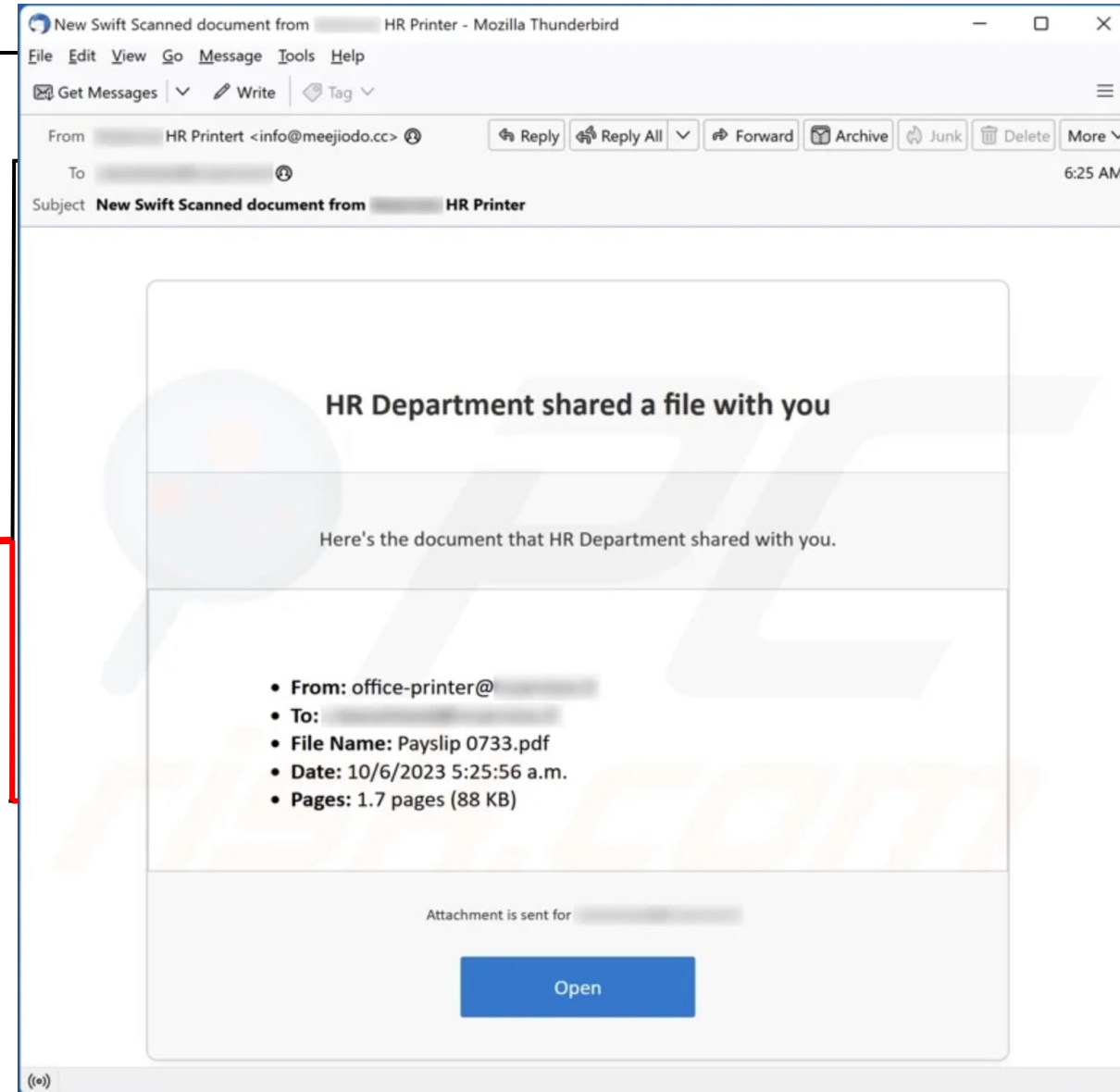
Jornadas
— FCCN



INTERNET

FIREWALL

1. Phishing Email
2. Instalar malware

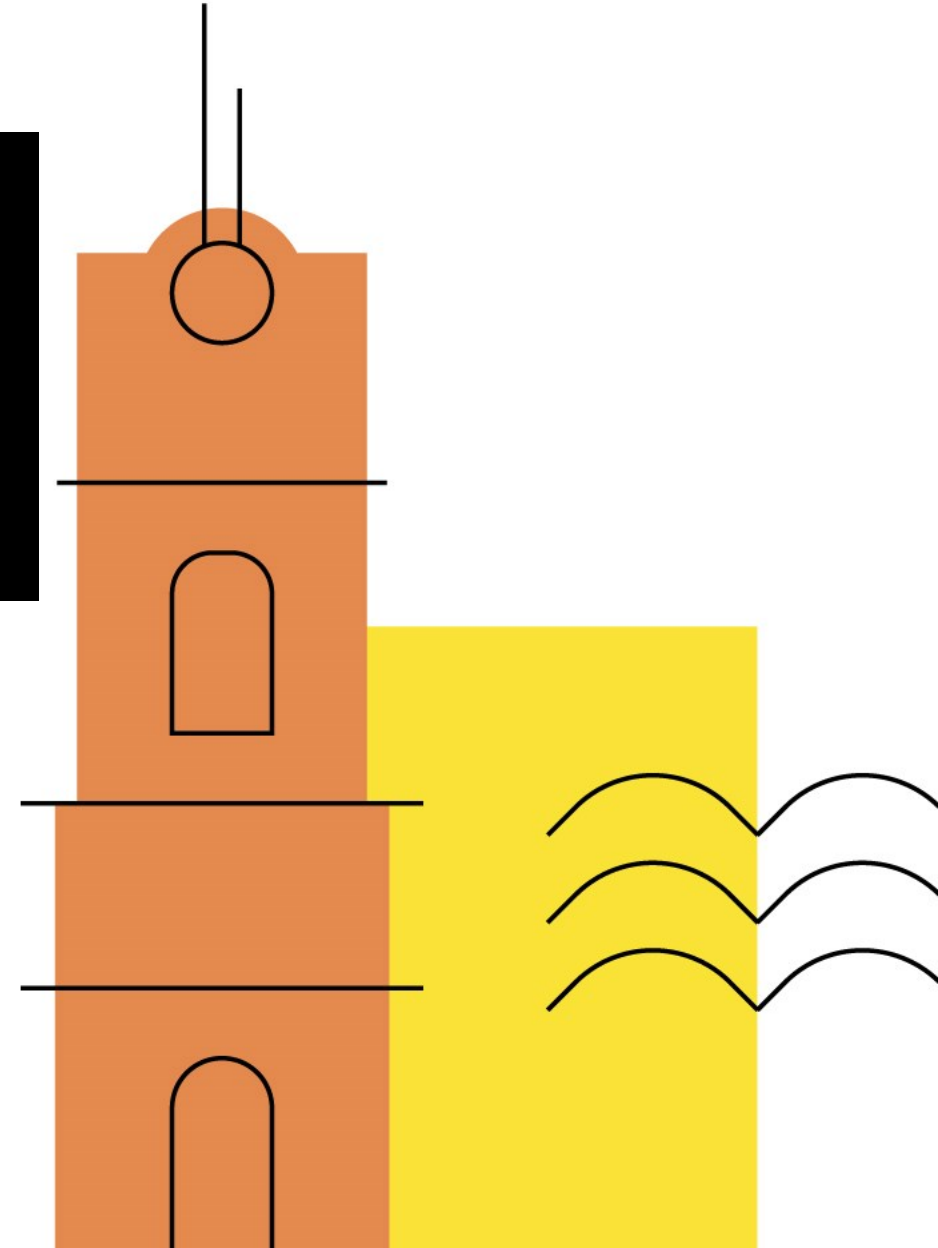


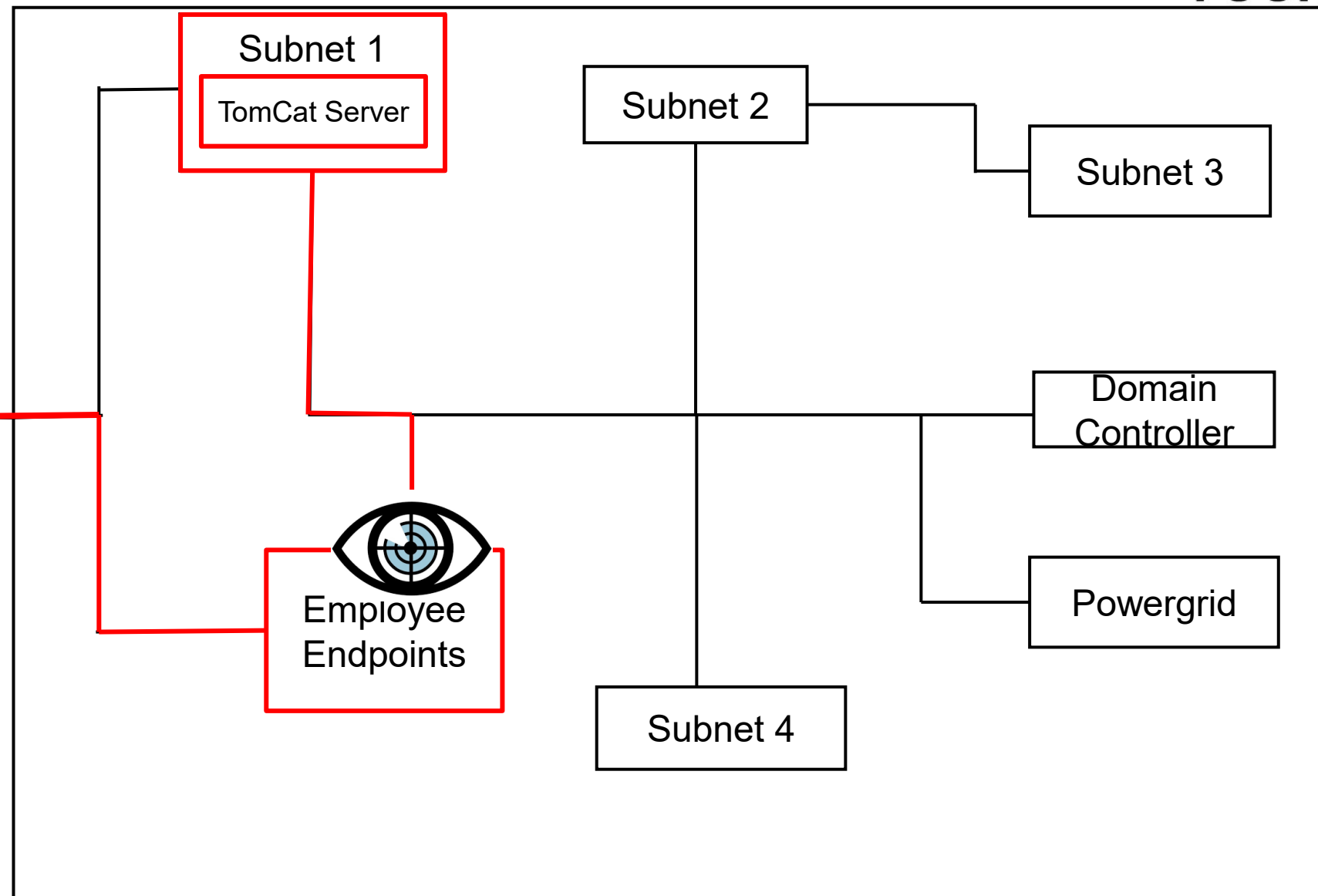
Subnet 3

Domain
Controller

Powergrid

00 : 00 : 05 : 00





INTERNET

FIREWALL

Employee
Endpoints

1. Phishing Email
2. Instalar malware
3. Port Scan
4. TomCat console login brute force
5. Reverse Shell
6. Active Directory scan
7. Procurar credenciais



ALERTAS, ALERTAS E MAIS ALERTAS...

Jornadas
— FCCN

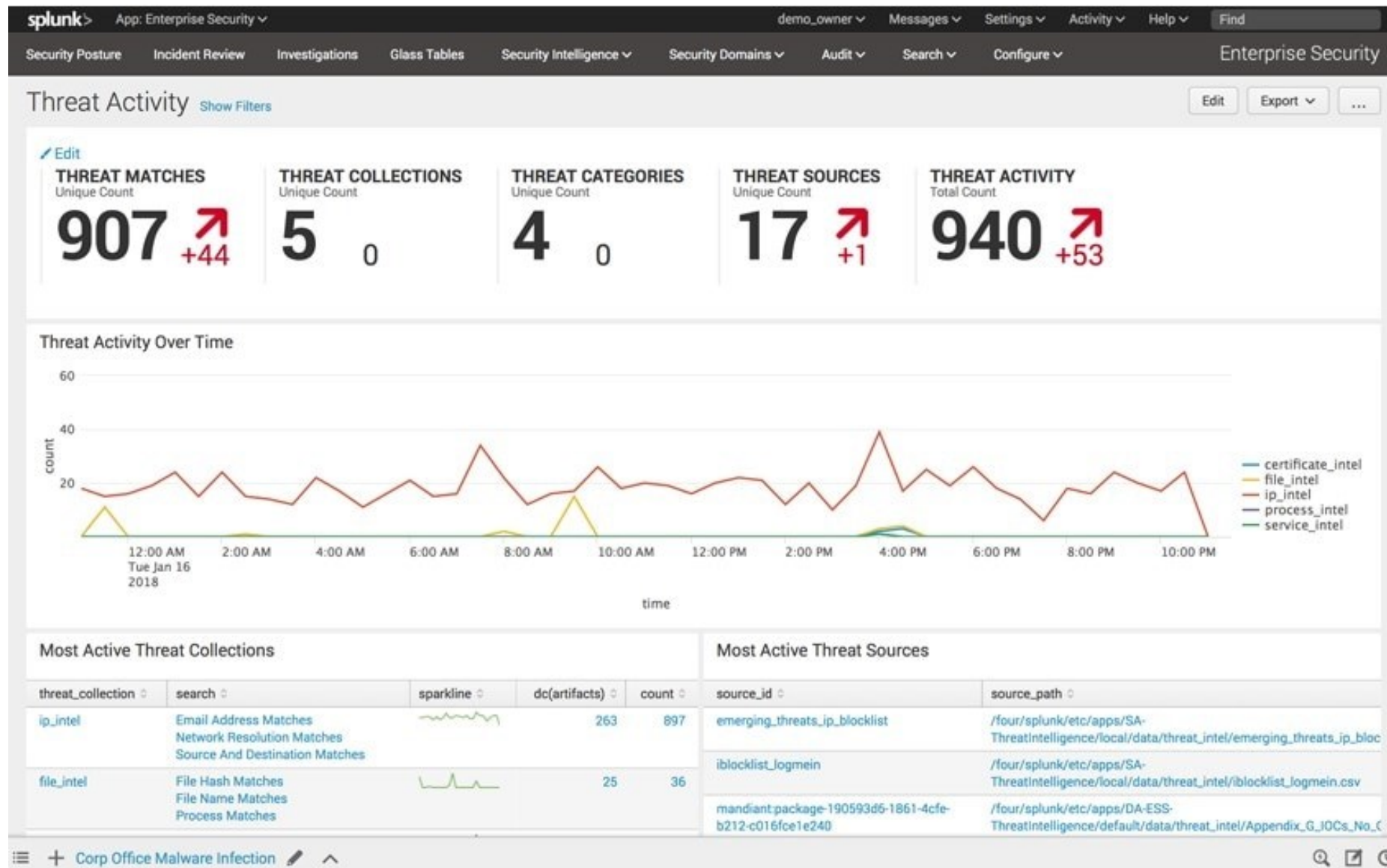


Time	Alert	Priority	Status
7:30 am	Port Scan ALERT	Low (3)	Investigating
7:55 am	User Reported: <HR Report Attached>	High (1)	Pending
8:00 am	User Reported: <Survey to be filled>	Low (3)	Pending
8:30 am	Port Scan across several machines	Low(3)	Pending
8:32 am	Active Directory – User Accounts Locked Out	Medium (2)	Pending
8:35 am	Active Directory – Windows Admin Credentials	Medium (2)	Pending

Showing 6 of 500

ANÁLISE DO E-MAIL - SIEM

Jornadas
— FCCN



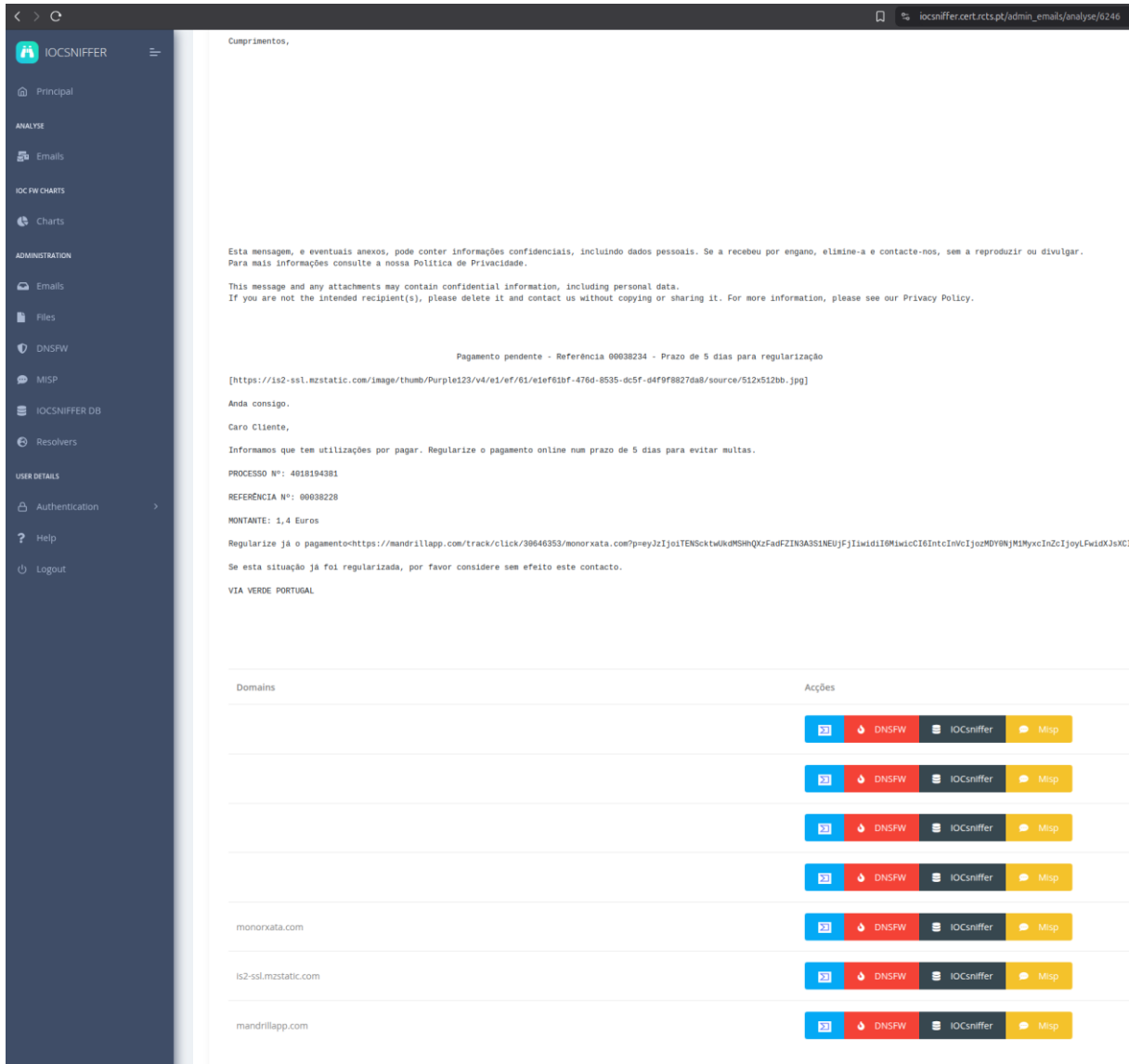


ALERTAS, ALERTAS E MAIS ALERTAS...



Time	Alert	Priority	Status
7:30 am	Por Scan ALERT	Low (3)	Completed
7:55 am	User Reported: <HR Report Attached>	High (1)	Pending
8:00 am	User Reported: <Survey to be filled>	Low (3)	Pending
8:30 am	Port Scan across several machines	Low(3)	Pending
8:32 am	Active Directory – User Accounts Locked Out	Medium (2)	Pending
8:35 am	Active Directory – Windows Admin Credentials	Medium (2)	Pending

**jornadas
— FCCN**



ANÁLISE DO E-MAIL - TOOLS

Jornadas
— FCCN



VirusTotal

https://www.virustotal.com

11 / 70

ABOUT

The blacklist your mail se

52. High (12)

Have more!

DETECTION

DETAILS

Avira (no cloud)

CLEAN MX

CyRadar

G-Data

Netcraft

ZeroCERT

ADMINUSLabs

AlienVault

BADWARE.INFO

TLSv1.0

TLSv1.1

Home

Pedro Silva

LOGOUT

New Entry:

One item per line.

List:

Refang: ☐

SAVE CHANGES

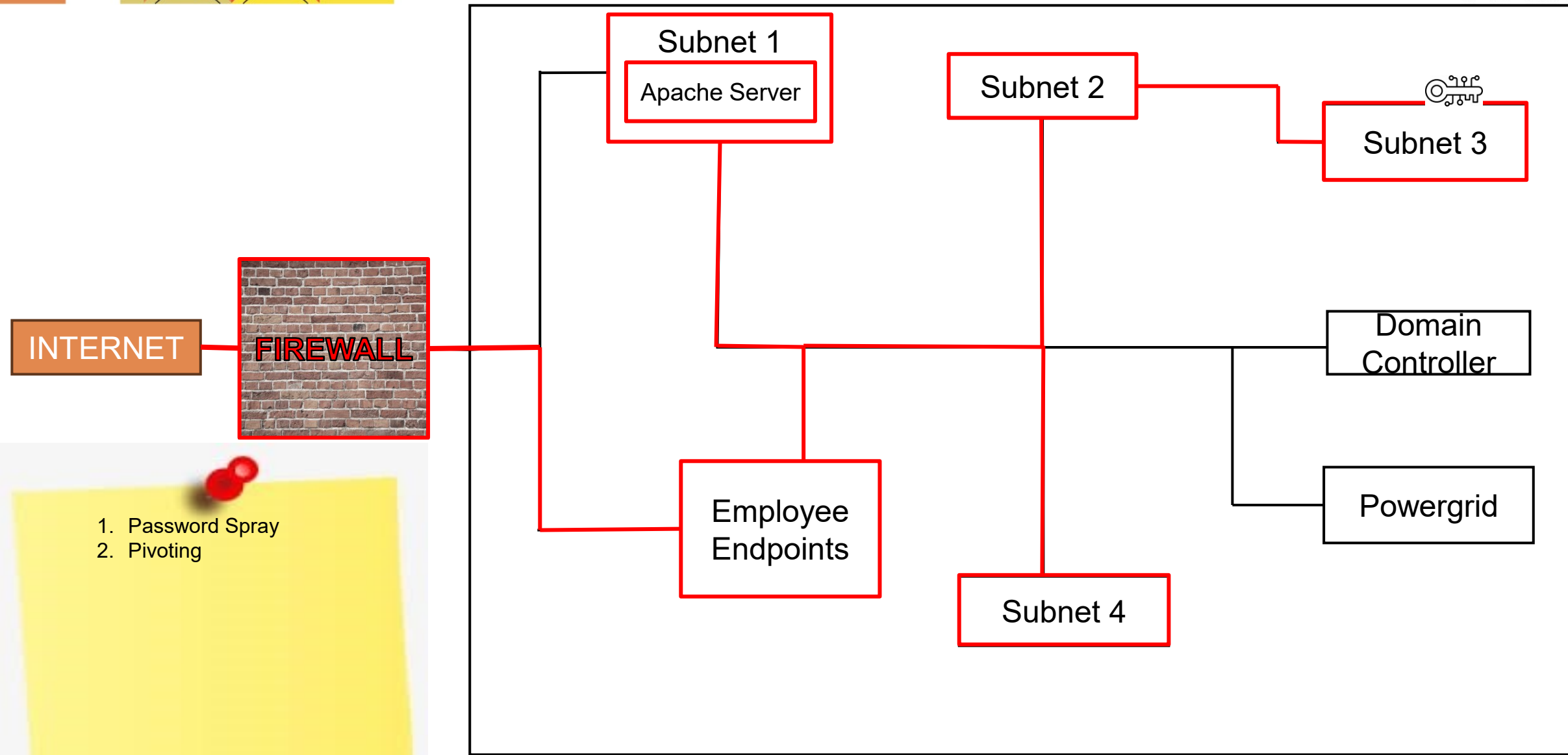
CLOSE

LIST

Entry	Actions
192.168.1.0/24	DELETE
0.0.0.0	DELETE
1.1.1.1	DELETE
2.2.2.2	DELETE

REDE CORPORATIVA

Jornadas
— FCCN



1. Password Spray
2. Pivoting



ALERTAS, ALERTAS E MAIS ALERTAS...

Jornadas
— FCCN



Time	Alert	Priority	Status
7:30 am	Por Scan ALERT	Low (3)	Completed
7:55 am	User Reported: <HR Report Attached>	High (1)	Completed
8:00 am	User Reported: <Survey to be filled>	Low (3)	Pending
8:30 am	Port Scan across several machines	Low(3)	Pending
8:32 am	Active Directory – User Accounts Locked Out	Medium (2)	Pending
8:35 am	Active Directory – Windows Admin Credentials	Medium (2)	Pending

Showing 6 of 500



ALERTAS, ALERTAS E MAIS ALERTAS...

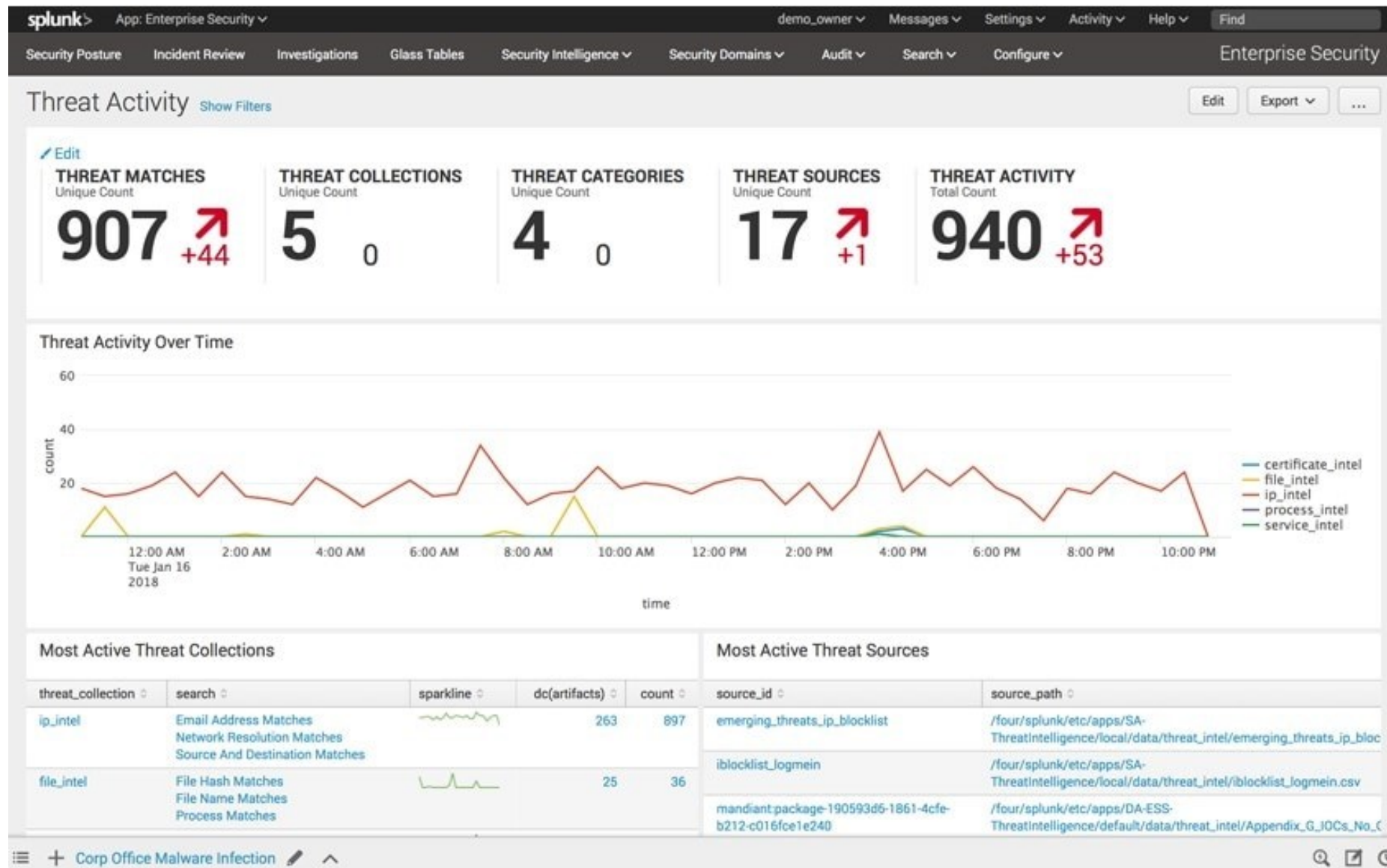
Jornadas
— FCCN

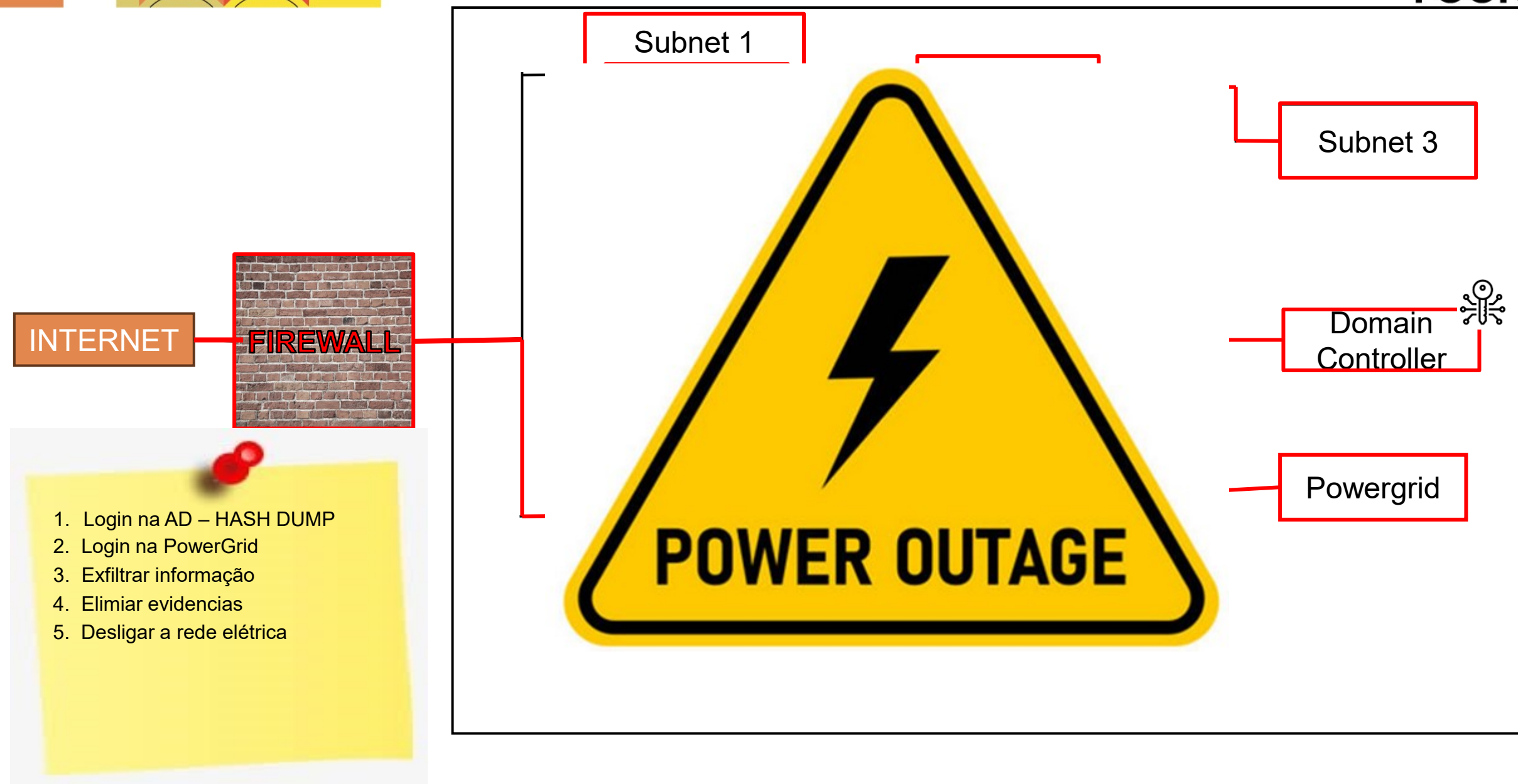


Time	Alert	Priority	Status
7:30 am	Por Scan ALERT	Low (3)	Completed
7:55 am	User Reported: <HR Report Attached>	High (1)	Completed
8:00 am	User Reported: <Survey to be filled>	Low (3)	Pending
8:30 am	Port Scan across several machines	Low(3)	Pending
8:32 am	Active Directory – User Accounts Locked Out	Medium (2)	Pending
8:35 am	Active Directory – Windows Admin Credentials	Medium (2)	Investigating
9:10 am	Active Directory – User Authentication failed	High (1)	Pending
9:12 am	Active Directory – User Authentication failed	High (1)	Investigating

SIEM – TAKE 2

Jornadas
FCCN







ALERTAS, ALERTAS E MAIS ALERTAS...



Time	Alert	Priority	Status
7:30 am	Por Scan ALERT	Low (3)	Completed
7:55 am	User Reported: <HR Report Attached>	High (1)	Completed
8:00 am	User Reported: <Survey to be filled>	Low (3)	Pending
8:30 am	Port Scan across several machines	Low(3)	Pending
8:32 am	Active Directory – User Accounts Locked Out	Medium (2)	Pending
8:35 am	Active Directory – Windows Admin Credentials	Medium (2)	Investigating
9:10 am	Active Directory – User Authentication failed	High (1)	Investigating
9:12 am	Active Directory – User Authentication failed	High (1)	Investigating
9:30 am	Active Directory – Suspicious Service Account used to Login do Domain Controller (RDP)	High (1)	Pending
10:00 am	<u>PowerGrip</u> down...	Critical (0)	Pending

Obrigado!

jornadas.fccn.pt

fccn.pt

