

De **Honeypots** a Threat Intelligence:

Gerando e Compartilhando
IOCs Reais com **MISP**



Thiago Cesar | Ismael Rocha



Dados reais
de ataques



Processamento e enriquecimento
de informações



Compartilhamento de IOCs
estruturados com **MISP**

TLP:CLEAR

Quem somos nós



Thiago Cesar

Threat Intelligence Specialist

Threat Intelligence

Honeypots

MISP

in in/thiago-cesar-paixao



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Threat Intelligence Specialist

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Honeypots

MISP

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O que são

Honeypots?

Conceitos, e aplicações em Threat Intelligence

O que é um Honeypot?

Definição

Um honeypot é um sistema de isca projetado para atrair atacantes e registrar suas ações sem risco para a infraestrutura real.

Funciona como uma armadilha controlada que simula serviços e vulnerabilidades reais para coletar inteligência sobre ameaças.

Como um Honeypot gera Inteligência?

- **Atrai atividades maliciosas.**
- **Coleta tentativas de acesso, credenciais e comandos.**
- **Extraí IOCs e TTPs.**
- **Simula serviços específicos (SSH, Telnet, HTTP, FTP, RDP, SQL).**
- **Compartilha a inteligência via MISP.**

Total de ataques – Período 30 dias - Brasil

TLP: CLEAR

Honeypot Attacks

408k

189k

73k

58k

49k

19k

15k

2k

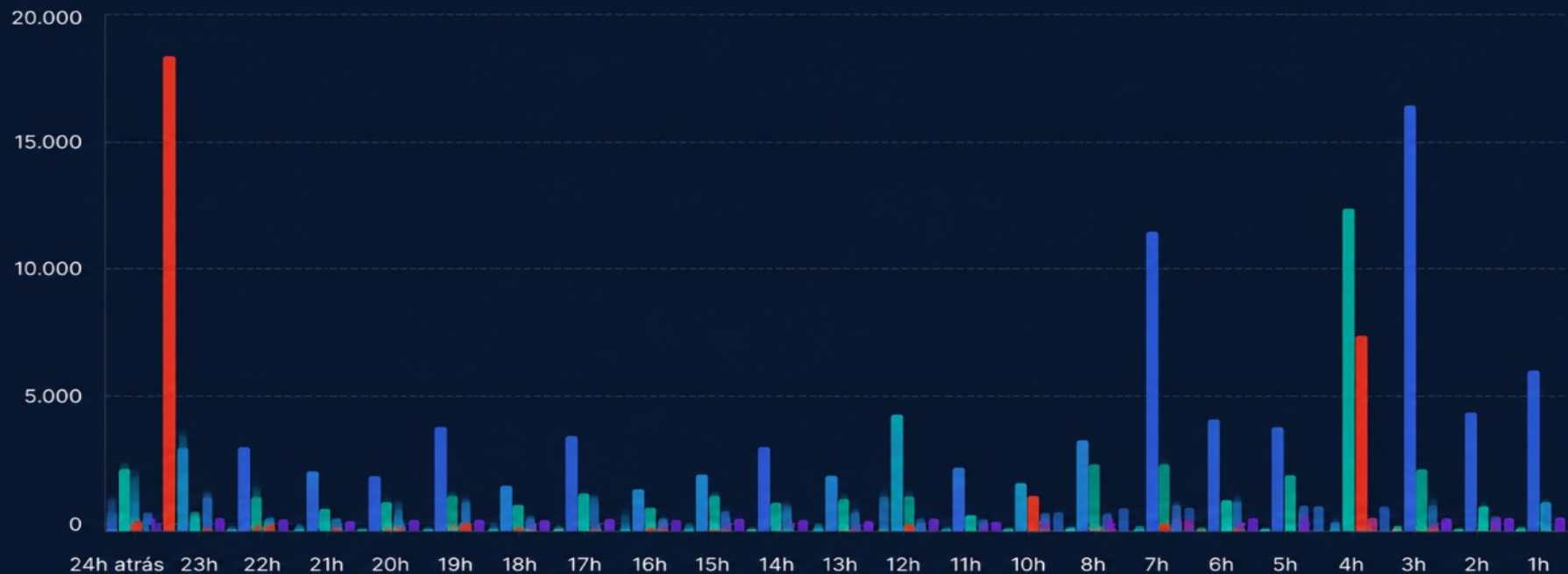
903

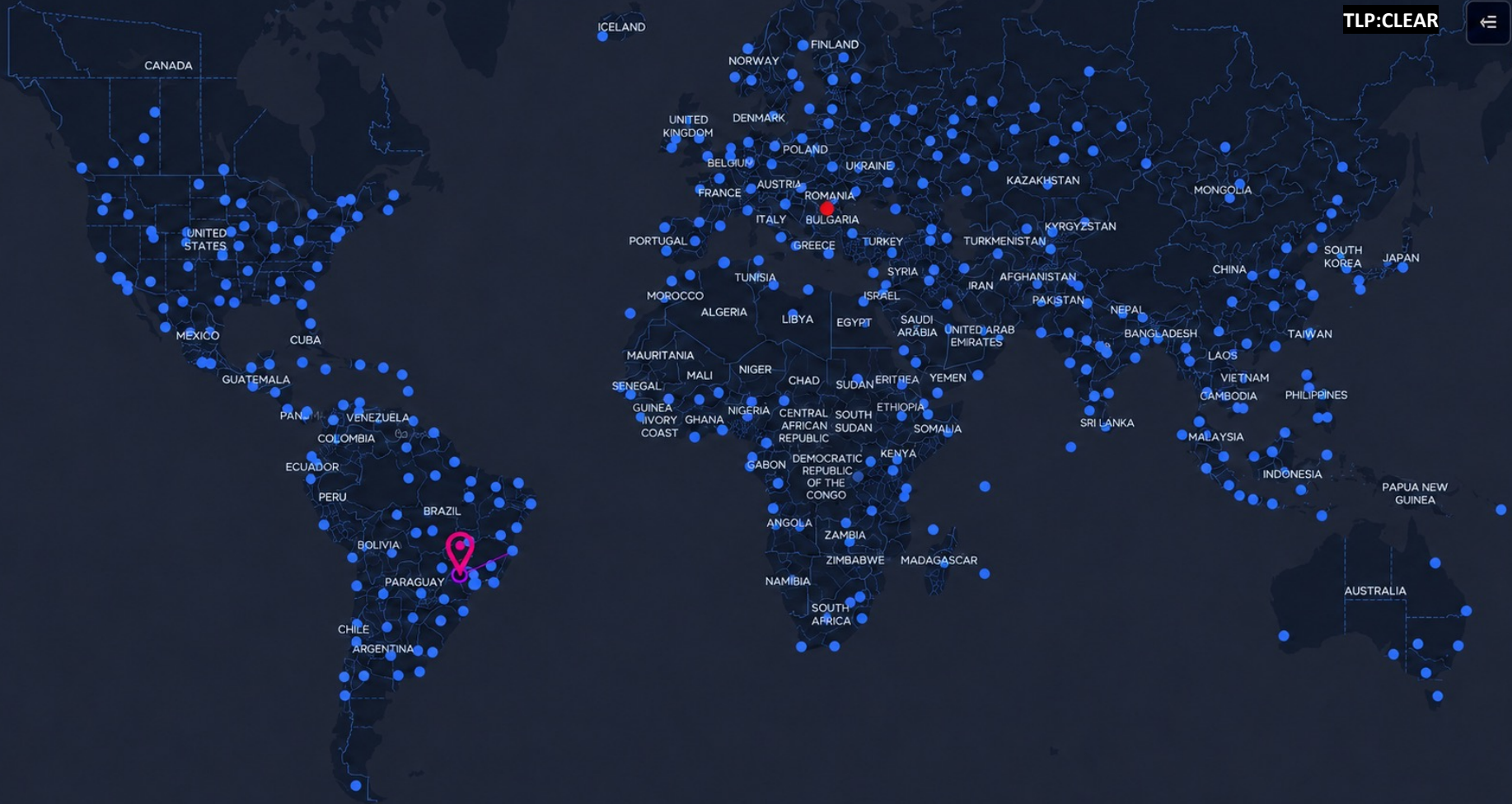
806

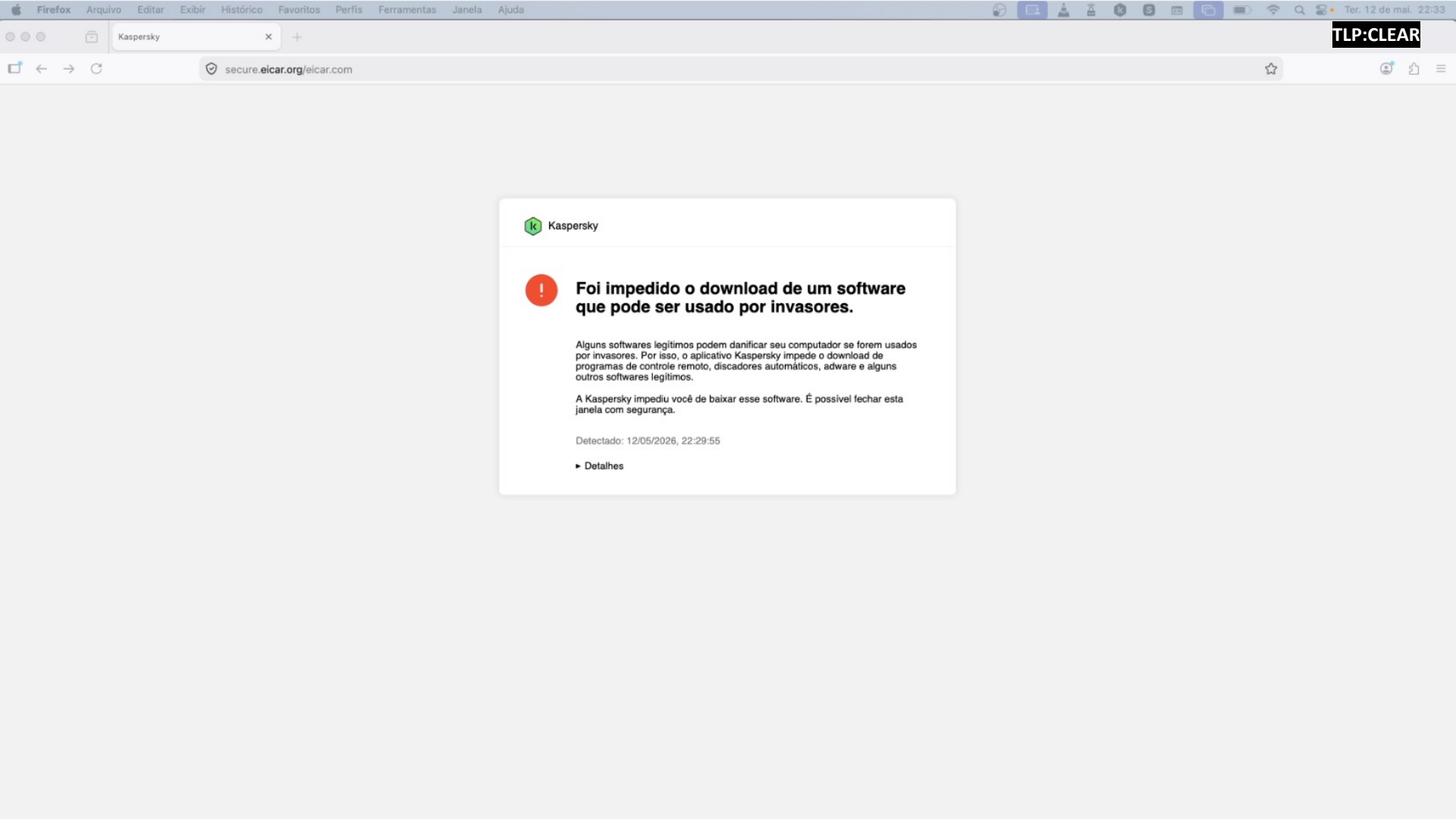
629

Atividade por hora (últimas 24h)

445 3389 22 443 3306







UTMFileEditVirtual MachineViewWindowHelp

Kali

TLP: CLEAR

Ter. 12 de mai. 22:33

threat@kali: ~/Downloads

SessionActionsEditViewHelp

(threat@kali)-[~/Downloads]

\$ hydra -l root -P lista.txt ssh://187.77.59.62

Hydra v9.6 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these ** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2026-05-12 21:33:06

[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4

[DATA] max 3 tasks per 1 server, overall 3 tasks, 3 login tries (l:1/p:3), ~1 try per task

[DATA] attacking ssh://187.77.59.62:22/

[22][ssh] host: 187.77.59.62 login: root password: root

1 of 1 target successfully completed, 1 valid password found

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2026-05-12 21:33:10

(threat@kali)-[~/Downloads]

\$ ssh root@187.77.59.62

** WARNING: connection is not using a post-quantum key exchange algorithm.

** This session may be vulnerable to "store now, decrypt later" attacks.

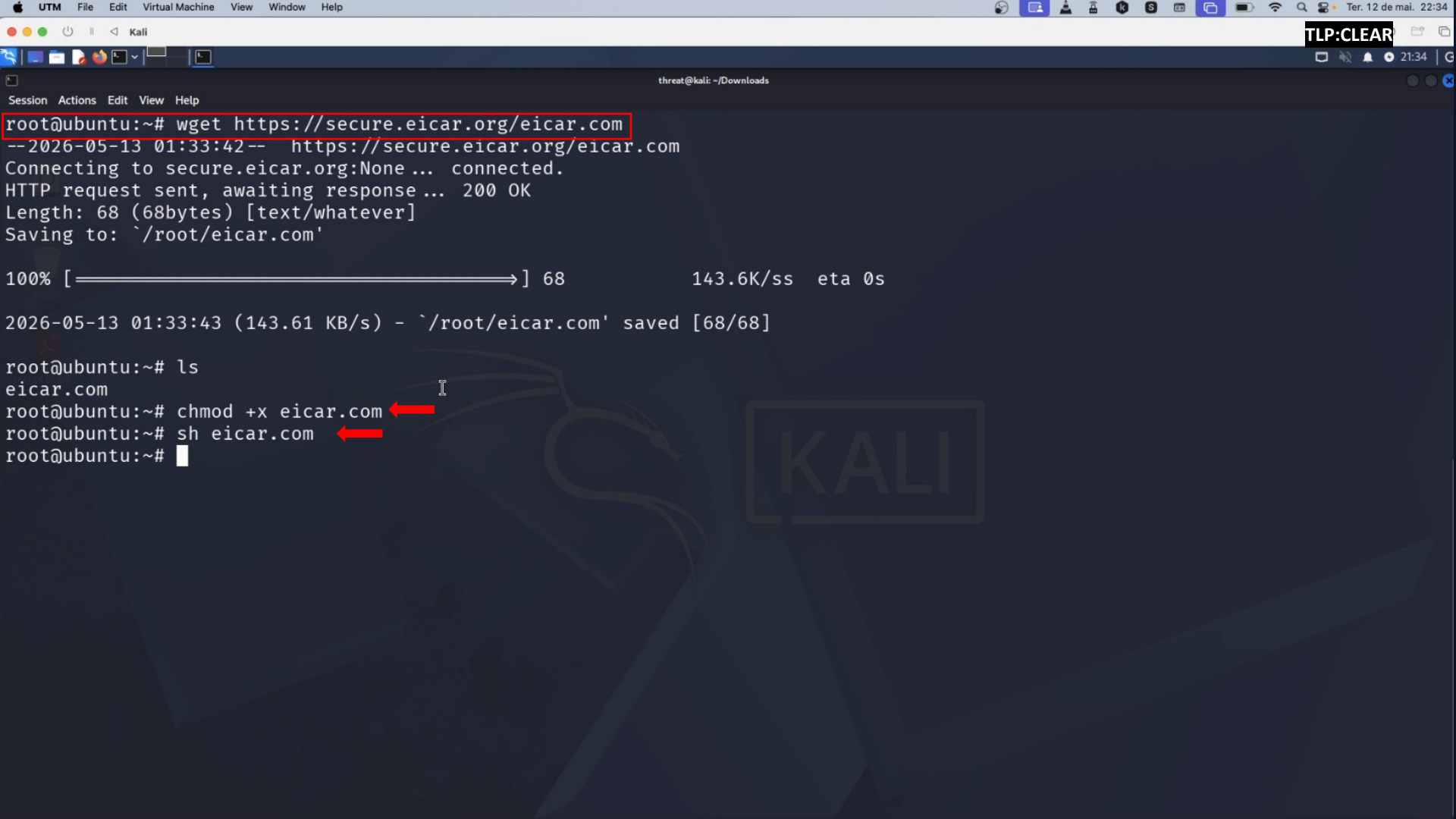
** The server may need to be upgraded. See https://openssh.com/pq.html

(root@187.77.59.62) 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.

root@ubuntu:~#



```
root@ubuntu:~# wget https://secure.eicar.org/eicar.com
```

```
--2026-05-13 01:33:42-- https://secure.eicar.org/eicar.com
```

```
Connecting to secure.eicar.org:None... connected.
```

```
HTTP request sent, awaiting response... 200 OK
```

```
Length: 68 (68bytes) [text/whatever]
```

```
Saving to: `/root/eicar.com'
```

```
100% [=====] 68 143.6K/s eta 0s
```

```
2026-05-13 01:33:43 (143.61 KB/s) - `/root/eicar.com' saved [68/68]
```

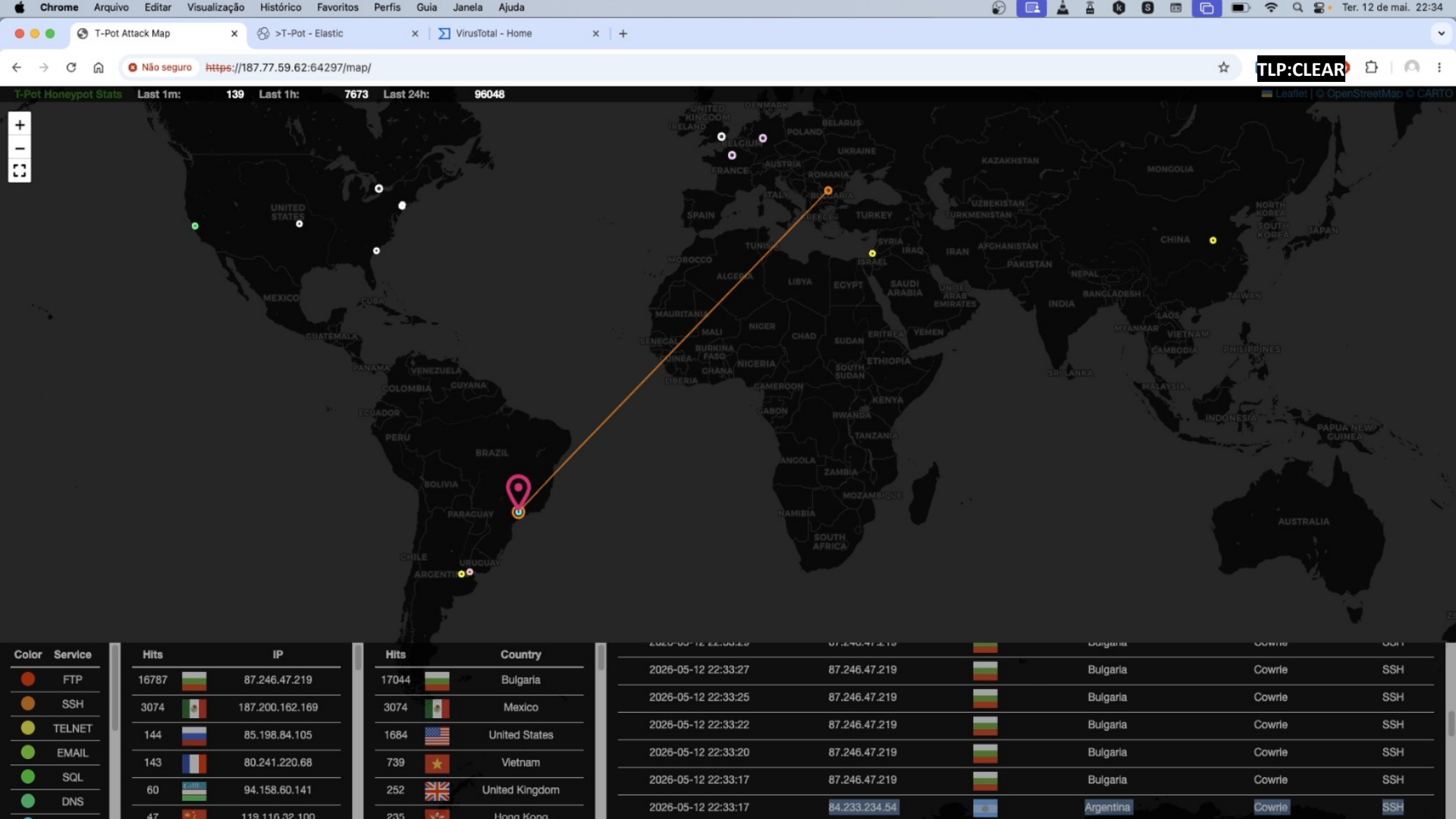
```
root@ubuntu:~# ls
```

```
eicar.com
```

```
root@ubuntu:~# chmod +x eicar.com
```

```
root@ubuntu:~# sh eicar.com
```

```
root@ubuntu:~#
```



```
labhoney@srv1429978:~/tpotce/data/cowrie/downloads$ ls -l
total 0
labhoney@srv1429978:~/tpotce/data/cowrie/downloads$ ls
275a021bbfb6489e54d471899f7db9d1663fc695ec2fe2a2c4538aabbf651fd0f
labhoney@srv1429978:~/tpotce/data/cowrie/downloads$
```




Login

Email

Password

Login

Pipeline: Do Honeypot ao MISP



💡 Cada etapa pode ser automatizada com scripts Python e integrada ao MISP via REST API ou PyMISP.

MISP: Estrutura de um Evento

Componentes principais de um evento MISP gerado pelo honeypot

event.json

```
{
  "Event": {
    "info": "Honeypot Attack - SSH Brute Force",
    "threat_level_id": "2",
    "tlp": "amber+strict",
    "Attribute": [
      {
        "type": "ip-src",
        "value": "1.237.155.150",
        "comment": "SSH brute-force source"
      },
      {
        "type": "domain",
        "value": "example-c2.onion"
      }
    ],
    "Tag": ["misp-galaxy:threat-actor"],
    "Galaxy": ["Cobalt Strike"]
  }
}
```

Tipos de Atributos (IOCs)



ip-src / ip-dst

Endereços IP de origem/destino



domain

Domínios de C2 identificados



url

URLs de payload ou phishing



md5 / sha256

Hashes de malware capturados



port

Portas alvo e serviços explorados

2026-06-09*	065...104	Network activity	ip-src	46.172.74.210	source:honeypot attack:bruteforce attack:exploited-host attack:hacking attack:iot-targeted attack:port-scan attack:ssh-bruteforce confidence:high threat-level:high report-count:medium staleness:stale country:UA domain:harmet.com.ua ip-type:fixed-line-isp recon:network-scanning misp-galaxy:botnet--"SSH Botnet" mitre-attack:T1110-Brute-Force mitre-attack:T1046 mitre-attack:T1068-Exploitation-for-Privilege-Escalation mitre-attack:IoT-Targeting	Botnet Mirai	1 2 3 4 Show 4 more... Q	inherent	TLP: CLEAR	
2026-06-09*	d7a...370	Network activity	ip-src	47.243.226.196	source:honeypot attack:bruteforce attack:hacking attack:port-scan confidence:medium threat-level:medium report-count:low staleness:stale country:HK domain:alibabacloud.com ip-type:data-center/web-hosting/transit recon:network-scanning mitre-attack:T1110-Brute-Force mitre-attack:T1046		1 2 3 4 Show 4 more... Q	Inherit	0/0/0	
2026-06-09*	35a...831	Network activity	ip-src	47.84.225.13	source:honeypot attack:bad-bot attack:hacking attack:port-scan attack:webapp confidence:medium threat-level:medium report-count:low staleness:stale country:SG domain:alibaba-inc.com ip-type:data-center/web-hosting/transit recon:network-scanning mitre-attack:T1046 mitre-attack:T1595-Active-Scanning		1 2 3 4 Show 4 more... Q	Inherit	0/0/0	
2026-06-09*	a47...9ab	Network activity	ip-src	49.150.52.21	source:honeypot attack:bruteforce attack:exploited-host attack:hacking attack:iot-targeted attack:port-scan confidence:medium threat-level:medium report-count:low staleness:stale country:PH domain:pldthome.com ip-type:fixed-line-isp recon:network-scanning mitre-attack:T1110-Brute-Force mitre-attack:T1046 mitre-attack:T1068-Exploitation-for-Privilege-Escalation mitre-attack:IoT-Targeting		1 2 3 4 Show 4 more... Q	Inherit	0/0/0	
2026-06-09*	021...d37	Network activity	ip-src	5.188.206.194	source:honeypot attack:bruteforce attack:exploited-host attack:hacking attack:port-scan attack:webapp confidence:high threat-level:critical report-count:very-high staleness:stale country:BG domain:fasthost.ltd ip-type:data-center/web-hosting/transit recon:network-scanning mitre-attack:T1110-Brute-Force mitre-attack:T1046 mitre-attack:T1584 mitre-attack:T1068-Exploitation-for-Privilege-Escalation		1 2 3 4 Show 4 more... Q	Inherit	0/0/0	

2026-06-10* 923...122 Payload delivery sha1 ee873172649e457e0ed02095015e8b2047c126d6

confidence:high
malware_classification:ransomware
malware-family:Exploit.Win/CVE.2017.0147
malware-family:Exploit.EternalBlue!1.AAED-(CLASSIC)
malware-family:Ransom.WannaCrypt.L.S1670344
malware-family:Ransom/W32.WannaCry.5267459
malware-family:Ransom:Win32/CVE!pz
malware-family:Trojan-Ransom.Win32.Wanna.m
malware-family:Trojan.Encoder.11432
malware-family:TrojanDropper/Agent.mh
malware-family:Trojan[Exploit]/Win32.CVE-2017-0147
malware-family:Win.Ransomware.Wanna-9769986-0
malware-family:Win32.HeurC.KVM005.a
malware-family:dll.trojan.wannacry
malware-family:win/malicious_confidence_100%-(W)
malware-label:trojan.wannacry/wanna
malware-name:cztfl
malware-name:wanna
malware-name:wannacry
mitre-attack:T1486
misp-galaxy:ransomware="Generic Ransomware"
mitre-attack:T1105



trojan.wannacry/wanna



7 TLP: CLEAR

Inherit

2026-06-10* da4...514 Payload delivery md5 a0eb5de69279cef88ab9e2ac37312583

confidence:very-low
threat-level:low
malware_classification:trojan
malware-family:suspicious
malware-family:Trojan.Generic.D46AFBA1
malware-family:Trojan.GenericKD.74120097
malware-family:Trojan.GenericKD.74120097-(B)
malware-family:unknown.trojan.generic
malware-label:trojan.



trojan.



7 8 22

Inherit

2026-06-10* 2bf...613 Payload delivery sha256 d7188b8c575367e10ea8b36ec7cca067ef6ce6d26ffa8c74b3faa0b14ebb0ff0

confidence:low
threat-level:low
file-type:elf
os:linux
mitre-attack:T1622
malware_classification:miner
malware_classification:trojan
malware-family:Android.CoinMine.55
malware-family:Android.Trj.CoinMine.CD
malware-family:Android/CoinMiner.X-trojan
malware-family:E32/DCoinmnr.KVRC-
malware-family:ELF.CoinMiner.41728
malware-family:ELF/AdbMiner.X!tr
malware-family:ELF:BitCoinMiner-FZ-[PUP]
malware-family:Linux/Coinminer.153208
malware-family:Linux/Coinminer.g
malware-family:Mal/Generic-S
malware-family:Miner:Android/CoinMiner.X



miner.coinmine/elf32



7 8 22

Inherit

☐	2026-06-10*	eae...67c	Network activity	url	http://94.156.152.67/boy17molon	 source:honeypot   	 	☒	11 12 13 14 Show 5 more... 	☒	Inherit	   (0/0/0)	  
☐	2026-06-10*	013...617	Network activity	url	http://106.13.23.149:6819/arm_linux	 source:honeypot   	 	☒	11 12 13 14 Show 5 more... 	☒	Inherit	   (0/0/0)	  
☐	2026-06-10*	0d1...038	Network activity	url	http://45.156.87.31/Crouvieu.sh	 source:honeypot   	 	☒	11 12 13 14 Show 5 more... 	☒	Inherit	   (0/0/0)	  
☐	2026-06-10*	1d5...cc1	Network activity	url	http://45.156.87.31/tftp1.sh	 source:honeypot   	 	☒	11 12 13 14 Show 5 more... 	☒	Inherit	   (0/0/0)	  
☐	2026-06-10*	eb6...54f	Network activity	url	http://196.251.107.133/bins/parm7	 source:honeypot   	 	☒	11 12 13 14 Show 5 more... 	☒	Inherit	   (0/0/0)	  
☐	2026-06-10*	468...215	Network activity	url	http://welcome-trezur-cdn.tem3.io/	 source:honeypot   	 	☒	11 12 13 14 Show 5 more... 	☒	Inherit	   (0/0/0)	  

☐	2026-06-10*	326...125	External analysis	vulnerability	CVE-2020-5902	source:honeypot severity:critical threat-level:critical cvss:9+ epss:critical epss-percentile:top-5pct exploit:known-exploited mitre-attack:T1190 confidence:high vuln-type:path-traversal mitre-attack:T1083 cwe:CWE-22 staleness:older-than-1y	CVSS: 9.8 (3.1) Severidade: CRITICAL EPSS: 94.4% (percentil 100%) Exploit conhecido: SIM (CISA KEV) CWE: CWE-22, CWE-22 Publicado: 2020-07-01 Status: Analyzed Vetor CVSS: CVSS: 3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H Descrição: In BIG-IP versions 15.0.0-15.1.0.3, 14.1.0-14.1.2.5, 13.1.0-13.1.3.3, 12.1.0-12.1.5.1, and 11.6.1-11.6.5.1, the Traffic Management User Interface (TMUI), also referred to as the Configuration utility, has a Remote Code Execution (RCE) vulnerability in undisclosed pages.	☒	9 10	☒	Inherit	TLP: CLEAR	
☐	2026-06-10*	402...ba0	External analysis	vulnerability	CVE-2020-14882	source:honeypot severity:critical threat-level:critical cvss:9+ epss:critical epss-percentile:top-5pct exploit:known-exploited mitre-attack:T1190 confidence:high staleness:older-than-1y	CVSS: 9.8 (3.1) Severidade: CRITICAL EPSS: 94.5% (percentil 100%) Exploit conhecido: SIM (CISA KEV) CWE: N/A Publicado: 2020-10-21 Status: Analyzed Vetor CVSS: CVSS: 3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H Descrição: Vulnerability in the Oracle WebLogic Server product of Oracle Fusion Middleware (component: Console). Supported versions that are affected are 10.3.6.0.0, 12.1.3.0.0, 12.2.1.3.0, 12.2.1.4.0 and 14.1.1.0.0. Easily exploitable vulnerability allows unauthenticated attacker with network access via HTTP	☒	9 10	☒	Inherit	(0/0/0)	
☐	2026-06-10*	22a...243	External analysis	vulnerability	CVE-2020-14883	source:honeypot severity:high threat-level:high cvss:7-9 epss:critical epss-percentile:top-5pct exploit:known-exploited mitre-attack:T1190 confidence:high staleness:older-than-1y	CVSS: 7.2 (3.1) Severidade: HIGH EPSS: 94.4% (percentil 100%) Exploit conhecido: SIM (CISA KEV) CWE: N/A Publicado: 2020-10-21 Status: Analyzed Vetor CVSS: CVSS: 3.1/AV:N/AC:L/PR:H/UI:N/S:U/C:H/I:H/A:H Descrição: Vulnerability in the Oracle WebLogic Server product of Oracle Fusion Middleware (component: Console). Supported versions that are affected are 10.3.6.0.0, 12.1.3.0.0, 12.2.1.3.0, 12.2.1.4.0 and 14.1.1.0.0. Easily exploitable vulnerability allows high privileged attacker with network access via HTTP	☒	9 10	☒	Inherit	(0/0/0)	



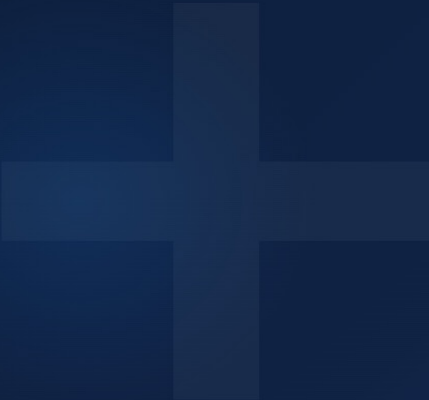
• HIS V3.1 — SISTEMA HOSPITALAR INTEGRADO

Cuidado que salva o Brasil

A Setor de Saúde S.A. opera uma das maiores redes hospitalares privadas do país, com 47 unidades, prontos-socorros, UTIs e laboratórios integrados por tecnologia de ponta e prontuário eletrônico unificado.

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[Ver Especialidades](#)



47 +

UNIDADES HOSPITALARES

3.200 leitos

CAPACIDADE TOTAL

98.4%

DISPONIBILIDADE SISTÊMICA

21

estados

COBERTURA NACIONAL

Energia

 **Setor Elétrico S.A.**
INFRAESTRUTURA CRÍTICA

[Operações](#) [Infraestrutura](#) [Cobertura](#) [Notícias](#) [Sobre](#) [Contato](#)

 [Portal do Colaborador](#)

 SISTEMA OPERACIONAL – SCO V4.2

Energia que move o **Brasil** elétrico

A Setor Elétrico S.A. opera uma das maiores redes de geração e distribuição de energia elétrica do país, atendendo indústrias, usinas e infraestrutura crítica nacional com tecnologia de ponta e monitoramento em tempo real.

 [Acessar Portal Operacional](#)

 [Nossos Serviços](#)

4.821 MW

CAPACIDADE INSTALADA

52 +

UNIDADES OPERACIONAIS

99.7%

DISPONIBILIDADE

18
estados

COBERTURA NACIONAL

1. COLETA E CAPTURA DE DADOS DE ATAQUE



ATACANTE

IPs



TENTATIVAS DE ATAQUE

Alertas, Comandos,
Artefatos, Logs

SENSORES HONEYPOT



Diversos serviços e protocolos em ambiente controlado para atrair e registrar ataques reais



NORMALIZAÇÃO E ENVIO DOS EVENTOS

2. ANÁLISE, ENRIQUECIMENTO E CORRELAÇÃO (A INTELIGÊNCIA)

T-POT CENTRAL / ELASTIC



ANÁLISE E CORRELAÇÃO

Dashboards, Visualizações,
Detecções e Contexto

ARMAZENAMENTO DE DADOS



Logstash / Engine
de Regras
GeolP



MISP
Threat Sharing

3. PRODUÇÃO DE INTELIGÊNCIA ACIONÁVEL E DEFESA (DISSEMINAÇÃO)



BLOQUEIO DE IPs

Firewall / IPS
Bloqueio de IPs



FEEDS DE AMEAÇAS (IOCs)

Compartilhamento de
Indicadores



SIEM / SOAR

Correlação e
Geração de Alertas



PROTEÇÃO DE ENDPOINTS (EDR)

Enriquecimento de
Alertas



VISIBILIDADE

Acompanhamento completo
dos ataques em tempo real



RESPOSTA MAIS RÁPIDA

Detecção, contexto e ação
em menor tempo



INTELIGÊNCIA COMPARTILHADA

Indicadores enriquecidos e
prontos para uso



DEFESA CONTÍNUA

Ambiente mais seguro
e resiliente

Conclusões

Honeypots como Fonte de Inteligência

- Honeypots geram IOCs reais e verificados
- Enriquecimento automatizado agrega contexto valioso
- MISP padroniza e amplifica o compartilhamento
- Comunidade forte = defesa coletiva mais eficaz



Obrigado!

Dúvidas? Vamos conversar!

Thiago Cesar



/in/thiago-cesar-paixao



escaneie para conectar

Ismael Rocha



/in/ismael-rocha



escaneie para conectar

