



JSSI 2023



Patrowl

Évolution des **méthodes** offensives (à but défensif) dans le temps

C'est long le temps vous ne trouvez pas ?



Empty rounded rectangular box with a white border.

Empty rounded rectangular box with an orange border.

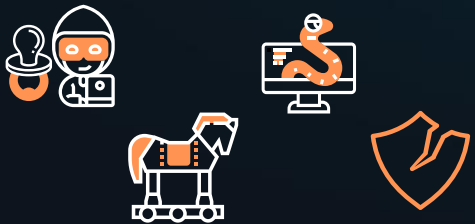
Empty rounded rectangular box with a teal border.

2000's

2010's

2015's

2020's



Vulnerability management

Offensive Cybersecurity

Vulnerability Scanner

Attack Surface



Continuous watch



Qualification of vulnerabilities



Prioritizing and contextualizing



Remediation plan



Remediation follow-up



Re-test



Available for non-expert



2000's

2010's

2015's

2020's



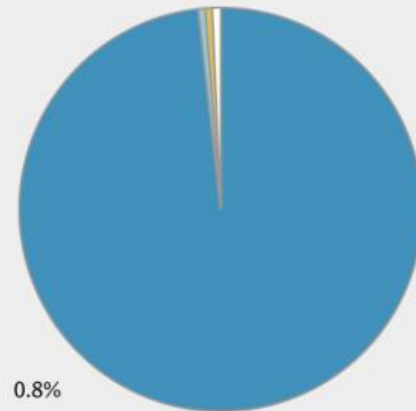
Volume Entree journalier MS1102P1

ms1102p1.int

11 Nov 2008 00:00 to 11 Nov 2008 23:59 (GMT +0100)

Data in time range: 100.0 % complete

Incoming Mail Summary



Message Category	%	Messages
Stopped by Reputation Filtering	98.3%	549.8k
Stopped as Invalid Recipients	0.5%	2,546
Spam Detected	0.4%	2,275
Virus Detected	0.0%	3
Stopped by Content Filter	0.0%	21
Total Threat Messages:	99.2%	554.6k
Clean Messages	0.8%	4,515
Total Attempted Messages:		559.1k

Volume Entree journalier MS1102P1

ms1102p1.int

11 Nov 2008 00:00 to 11 Nov 2008 23:59 (GMT +0100)

Data in time range: 100.0 % complete

Incoming Mail Summary



Message Category	%	Messages
Stopped by Reputation Filtering	98.3%	549.8k
Stopped as Invalid Recipients	0.5%	2,546
Spam Detected	0.4%	2,275

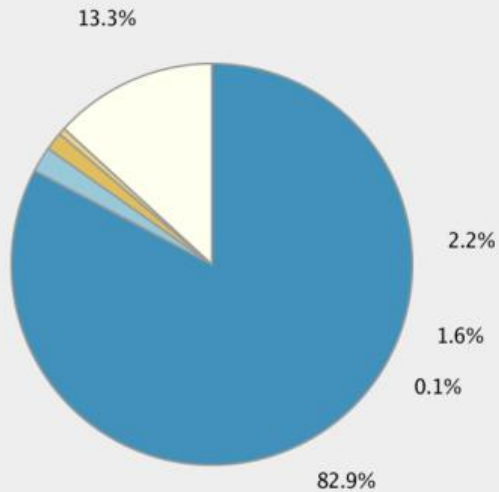
Volume Entree journalier MS1102P1

ms1102p1.int

12 Nov 2008 00:00 to 12 Nov 2008 23:59 (GMT +0100)

Data in time range: 100.0 % complete

Incoming Mail Summary



Message Category	%	Messages
Stopped by Reputation Filtering	82.9%	81.8k
Stopped as Invalid Recipients	2.2%	2,141
Spam Detected	1.6%	1,579
Virus Detected	0.0%	5
Stopped by Content Filter	0.1%	62
Total Threat Messages:	86.7%	85.6k
Clean Messages	13.3%	13.1k
Total Attempted Messages:		98.7k

0.0%	3
0.0%	21
99.2%	554.6k
0.8%	4,515
	559.1k

2000's

2010's

2015's

2020's



CRITICAL STRESSER

ABOUT

PROFITS ARE THE LEAST OF OUR CONCERN.
QUALITY PRODUCT WITH
100% CUSTOMER SATISFACTION IS OUR PRIMARY
GOAL. PROFITS WILL GO TOWARDS CONTINUOUSLY IMPROVING
OUR PRODUCT AND ENSURING ALL OF OUR CUSTOMERS ARE
PLEASED WITH THE STRESSERS PERFORMANCE.

PACKAGES

TIER 1

600
SECONDS
1 WEEK

005.00

TIER 2

3600
SECONDS
1 WEEK

010.00

TIER 3

7200
SECONDS
1 WEEK

015.00

FEATURES

LAY 4 & LAYER 7 ATTACKS
DOMAIN RESOLVER
GEOLOCATION LOOKUP
SKYPE RESOLVER
IP LOGGER
FRIENDS & ENEMIES LIST
LIVE SUPPORT

PAYMENT INFO

... PAYPAL ...
... BITCOIN ...
... OMNICOIN ...

CONTACT US

SALES & GENERAL ISSUES:
SKYPE --> TIKOTANABII (ACEMAN)

TECHNICAL & BACKEND ISSUES:
SKYPE --> CYBER_SERVERS (ZED001)

2000's

2010's

2015's

2020's



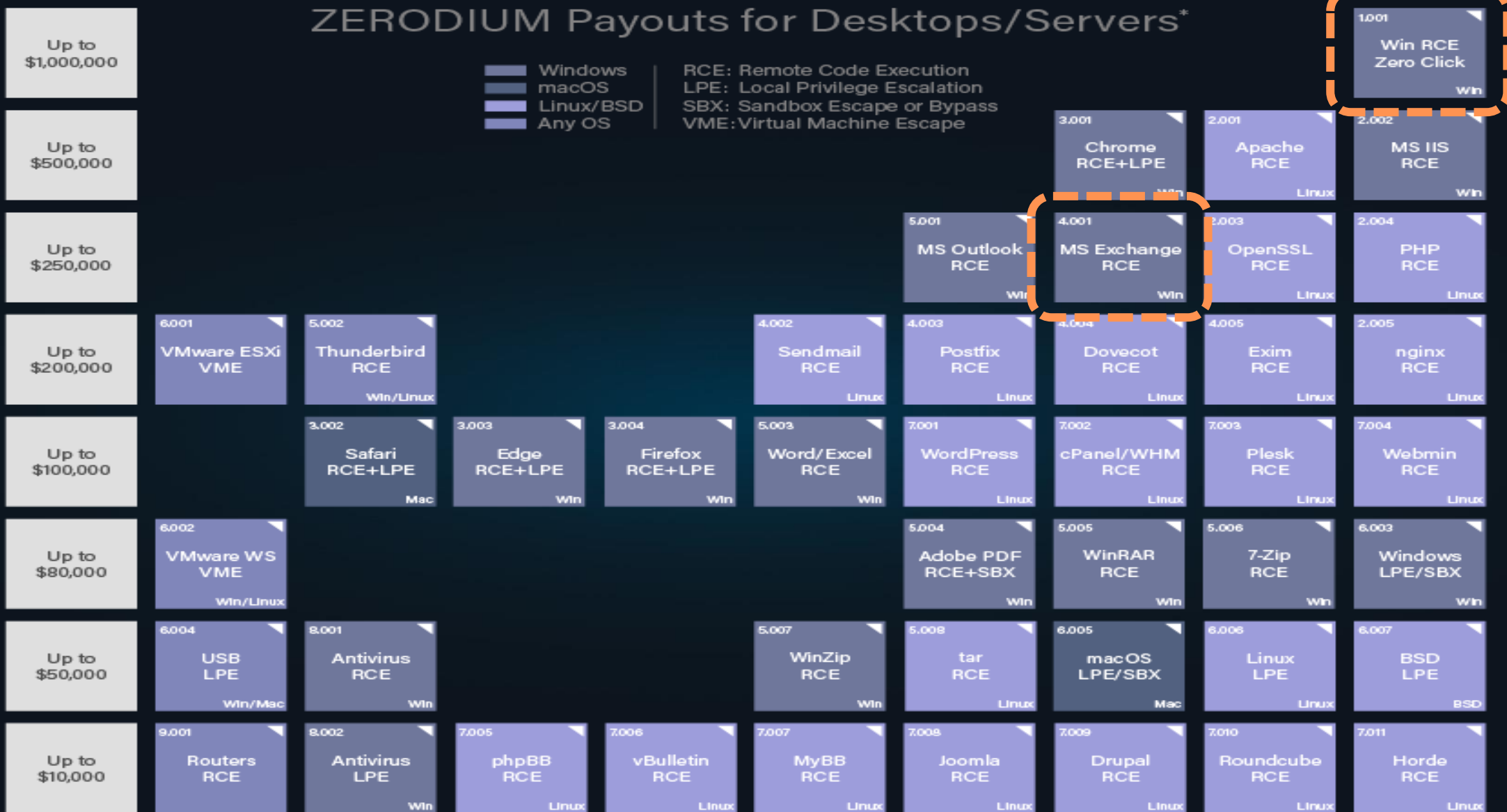
Blackhole (v1.1.0)	\$1,500	2011
Blackhole (v1.2.1)	\$700/three months or \$1,500/year	2011
Bleeding Life (v3.0)	\$1,000	2011
Phoenix (v3.0)	\$2,200/single domain	2011
Phoenix (v3.0)	\$2,700/multi-threaded domain	2011
Eleonore (v1.6.3a)	\$2,000	2011
Eleonore (v1.6.4)	\$2,000	2011
Eleonore (v1.6.2)	\$2,500-\$3,000	2012
Phoenix (v2.3.12)	\$2,200 / domain	2012
Styx exploit pack rental	\$3,000 / month	2012
Exploit kits that employ botnets	up to \$10,000	2012
CritXPack	\$400/week	2012
Phoenix (v3.1.15)	\$1,000-\$1,500	2012
NucSoft	\$1,500	2012
Blackhole—hosting (+ crypter + payload + sourcecode)	\$200/week or \$500/month	2013
Whitehole	\$200-\$1,800 rent	2013
Blackhole—license	\$700/three months or \$1,500/year	2013
Cool (+ crypter + payload)	\$10,000/month	2013
Gpack	\$1,000-\$2,000	2013
Mmpack	\$1,000-\$2,000	2013
Icepack	\$1,000-\$2,000	2013
Eleonore	\$1,000-\$2,000	2013
Sweet Orange	\$450/week or \$1,800/month	2013
Whitehole	\$200-600/week or \$600-1,800/month, depending on traffic	2013

SOURCES: Clarke, 2013a; Fossi et al., 2011; Fortinet, 2012; Goncharov, 2012; Kafeine, 2013a; Krebs, 2013a; M86 Security Labs, 2010; Martinez, 2007; McAfee Labs, 2011; O’Harrow, 2012; Paget, 2010b, 2012; Parkour, 2014.

ZERODIUM Payouts for Desktops/Servers*

- Windows
- macOS
- Linux/BSD
- Any OS

- RCE: Remote Code Execution
- LPE: Local Privilege Escalation
- SBX: Sandbox Escape or Bypass
- VME: Virtual Machine Escape



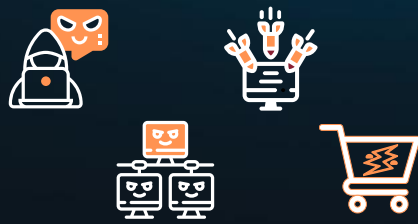
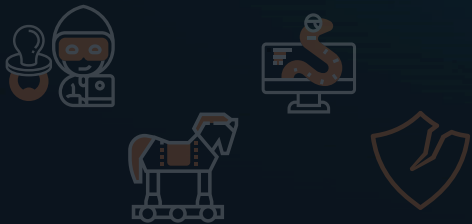
* All payouts are subject to change or cancellation without notice. All trademarks are the property of their respective owners.

2000's

2010's

2015's

2020's

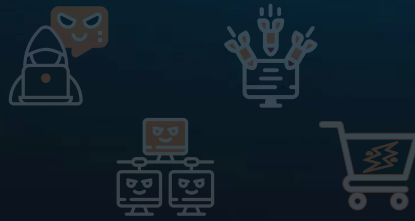
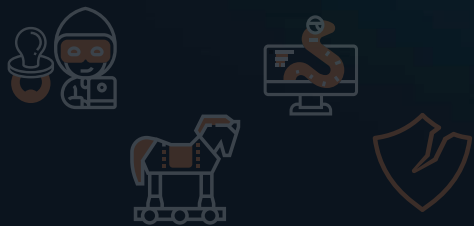


2000's

2010's

2015's

2020's





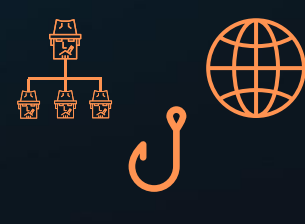
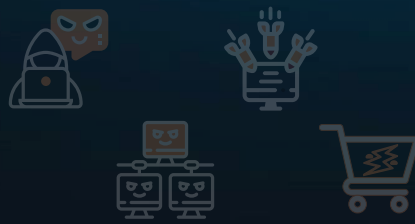
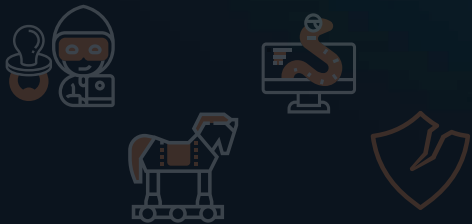
	Vulnerability management		Offensive Cybersecurity			
	Vulnerability Scanner	Vulnerability management tool	Pentest	BugBounty		
Attack Surface						
Continuous watch						
Qualification of vulnerabilities						
Prioritizing and contextualizing						
Remediation plan						
Remediation follow-up						
Re-test						
Available for non-expert						

2000's

2010's

2015's

2020's





2020

Solarwinds

Curveball (CVE-2020-0601)

RCE Apple Mail (CVE-2020-9818)

SMBleed (CVE-2020-1206)

ZeroLogon (CVE-2020-1459)

BadNeighbour, local IPv6 DoS on Windows (CVE-2020-1459)



01/01/2021 : << Hold my beer >>

2021 Q1

Immunity Canvas leak -> Spectre exploit (CVE-2017-5753, CVE-2017-5715)

ProxyLogon, Exchange OWA **pre-auth RCE** (CVE-2021-26855,...)

pwn2own, 3 x Exchange OWA **pre-auth RCE**

Routable IPv6 DoS on Windows (CVE-2021-24086)

VMWare vSphere Client **pre-auth RCE** (CVE-2021-21972)

Fortinet, **pre-auth RCE** (CVE-2020-29016, CVE-2020-29019,...)

F5 **pre-auth Remote Command Injection** (CVE-2021-22986)

Cisco small business, **pre-auth RCE** (CVE-2021-1459)

BleedingTooth, **pre-auth RCE on Bluetooth** (CVE-2020-12352, CVE-2020-12351)

Dedalus data leak of 500 000 french

Facebook data leak of 533 millions users

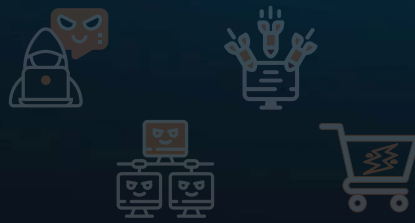
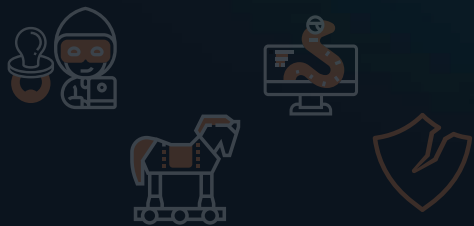
Linkedin data leak of 1 billion users

2000's

2010's

2015's

2020's



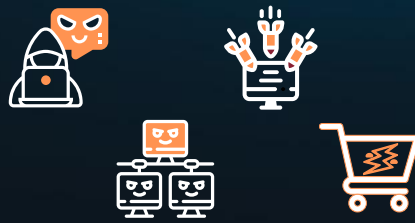
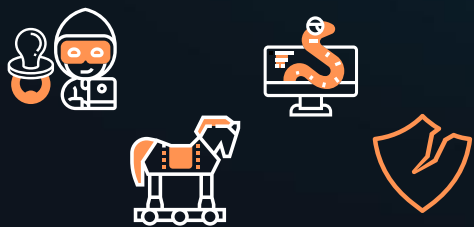
	Vulnerability management		Offensive Cybersecurity				
	Vulnerability Scanner	Vulnerability management tool	Pentest	BugBounty	Pentest as a Service (PTaaS)	External Attack Surface Management (EASM)	External Posture Management
Attack Surface							
Continuous watch							
Qualification of vulnerabilities							
Prioritizing and contextualizing							
Remediation plan							
Remediation follow-up							
Re-test							
Available for non-expert							

2000's

2010's

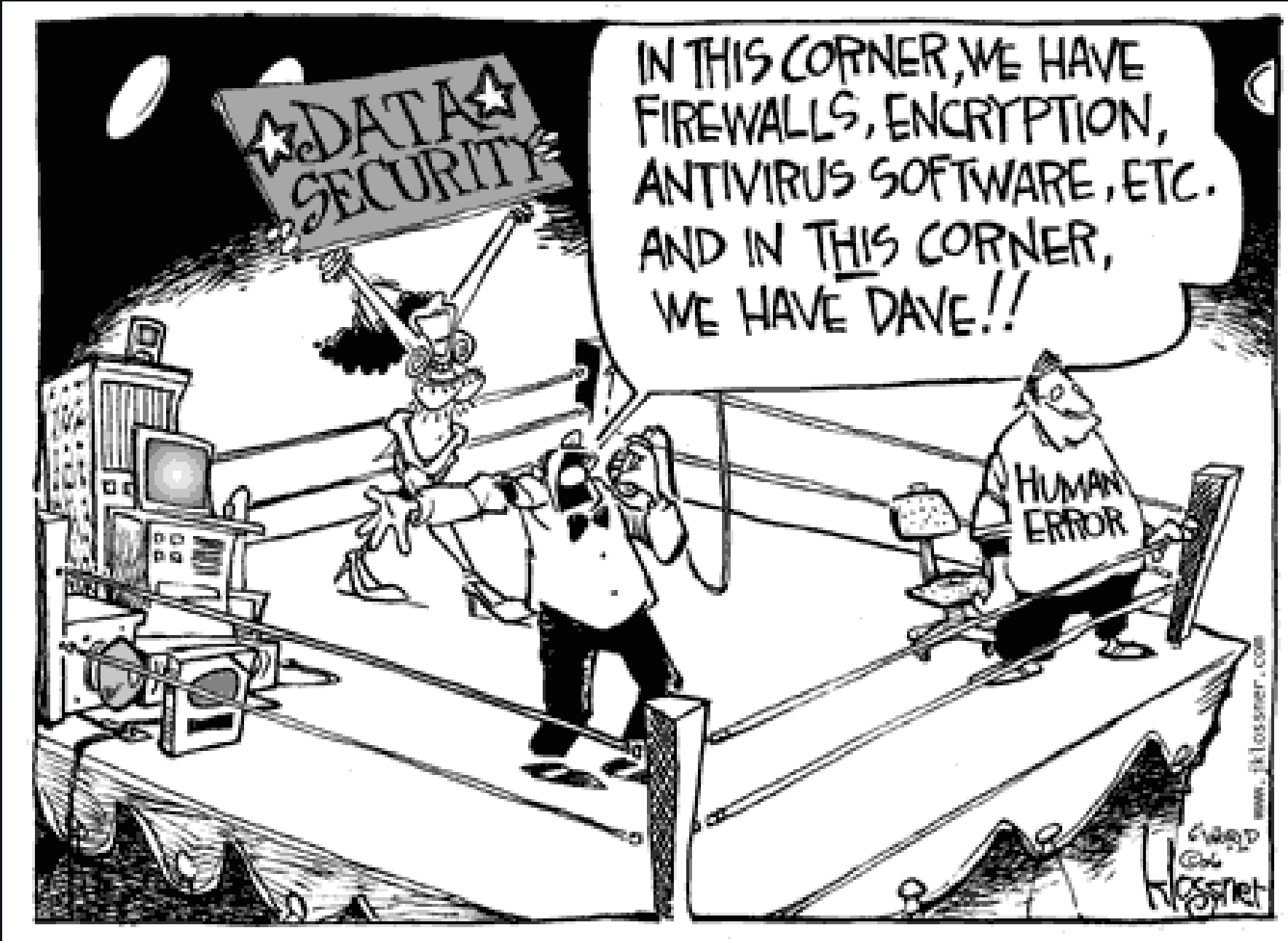
2015's

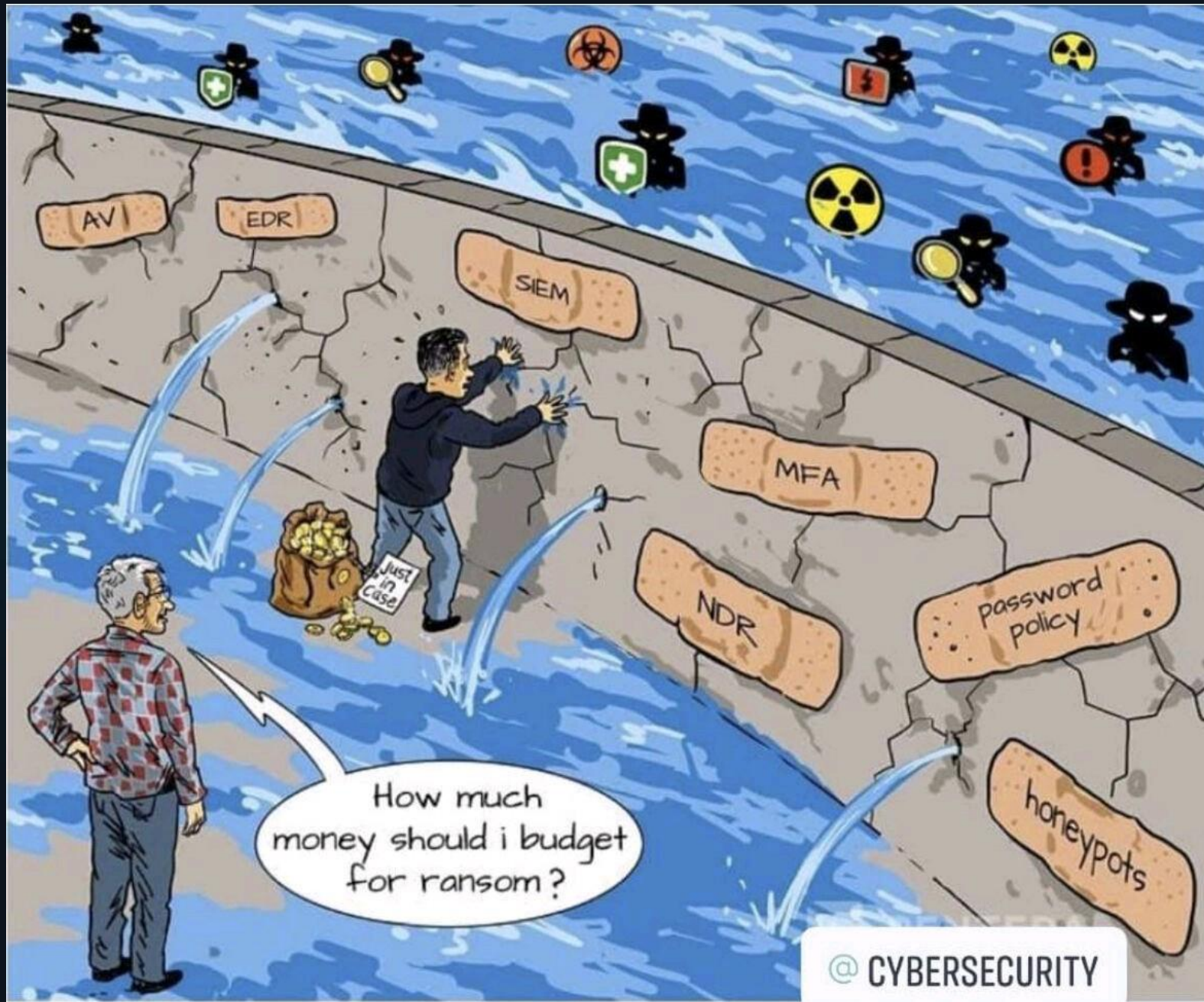
2020's



SaaS / PTaaS









Thanks!