

Exploiting Systems

Behind the scenes

Shadow Brokers claim to have hacked the Equation Group, a group linked to the NSA's Tailored Access Group, and began auctioning off stolen hacking tools online

Aug. 2016

March 2017

14 Apr. 2017

12 May 2017

27 June 2017

Microsoft is informed of the vulnerabilities and patches them

WannaCry ransomware attack begins using the EternalBlue exploit, infecting over 300,000 computers in 150 countries.

The consequence could have been even worse if Marcus Hutchins had not found its Kill Switch
North Korea is expected to be behind the attack

https://en.wikipedia.org/wiki/The_Shadow_Brokers
https://en.wikipedia.org/wiki/WannaCry_ransomware_attack
[https://en.wikipedia.org/wiki/Petya_\(malware_family\)](https://en.wikipedia.org/wiki/Petya_(malware_family))
<https://www.wired.com/story/notpetya-cyberattack-ukraine-russia-code-crashed-the-world/>

NotPetya cyberattack occurs using the same EternalBlue exploit, infecting thousands of computers across the globe, including the shipping giant Maersk

The Russian government (Sandworm hacking group within the GRU Russian military intelligence organization) is expected to be behind the attack which started as an attack on the software update mechanism of M.E.Doc — a Ukrainian tax preparation program

\$870,000,000
Pharmaceutical company Merck
\$400,000,000
Delivery company FedEx (through European subsidiary TNT Express)
\$384,000,000
French construction company Saint-Gobain
\$300,000,000
Danish shipping company Maersk
\$188,000,000
Snack company Mondelez (parent company of Nabisco and Cadbury)
\$129,000,000
British manufacturer Reckitt Benckiser (owner of Lysol and Durex condoms)
\$10 billion
Total damages from NotPetya, as estimated by the White House

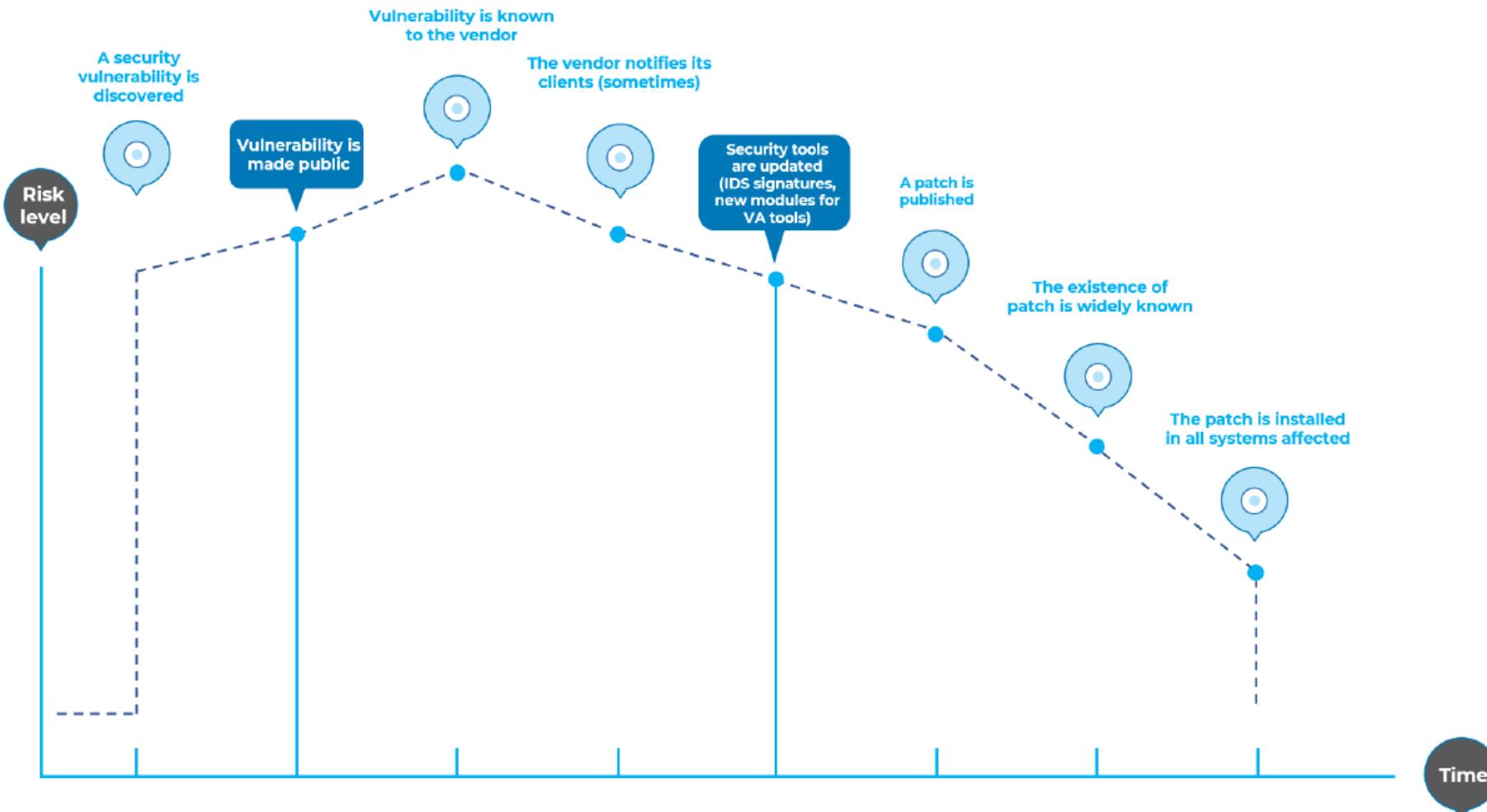


Figure 2-2: Window of Vulnerability

<https://github.com/OWASP/wstg/releases/download/v4.2/wstg-v4.2.pdf>

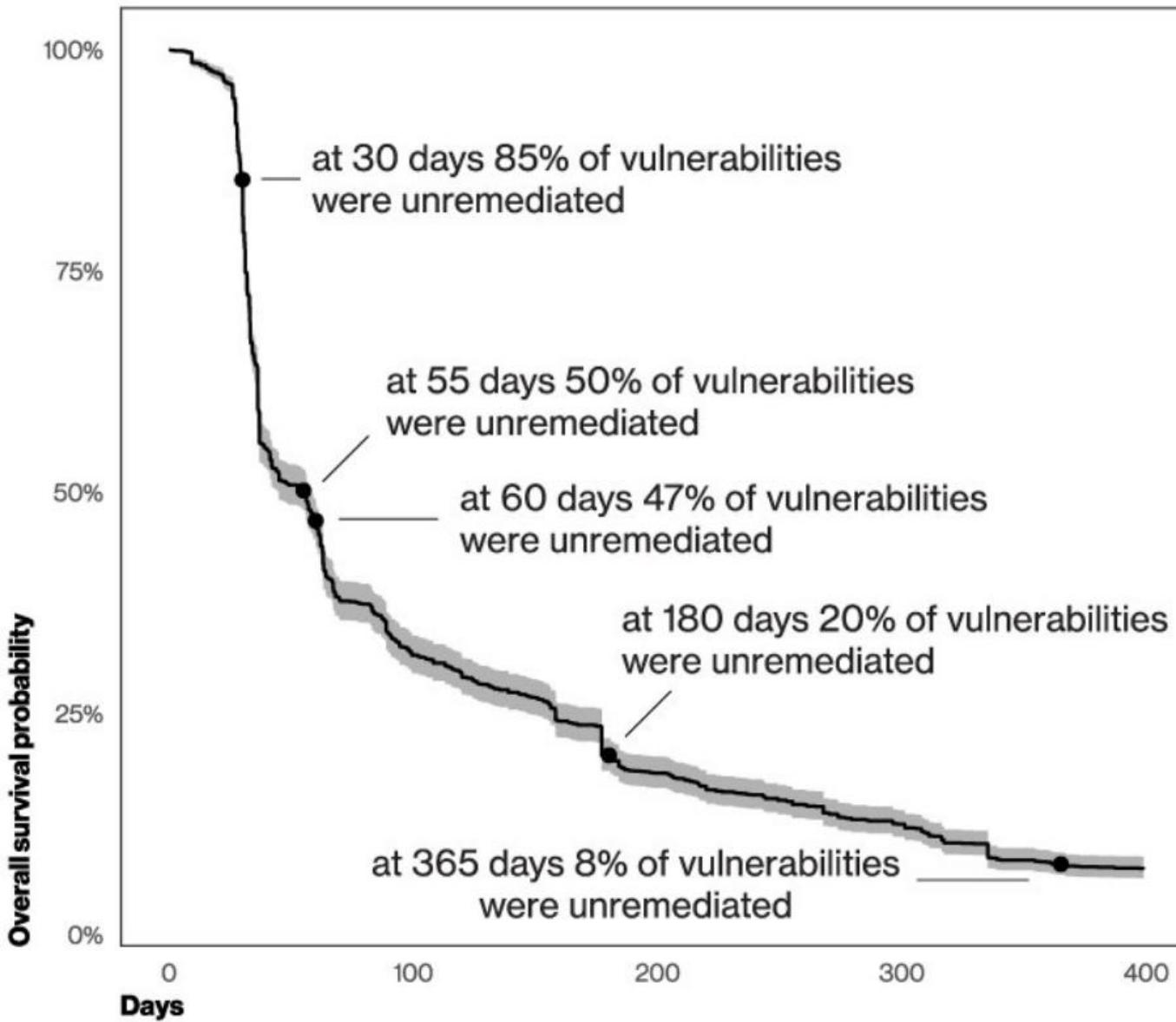
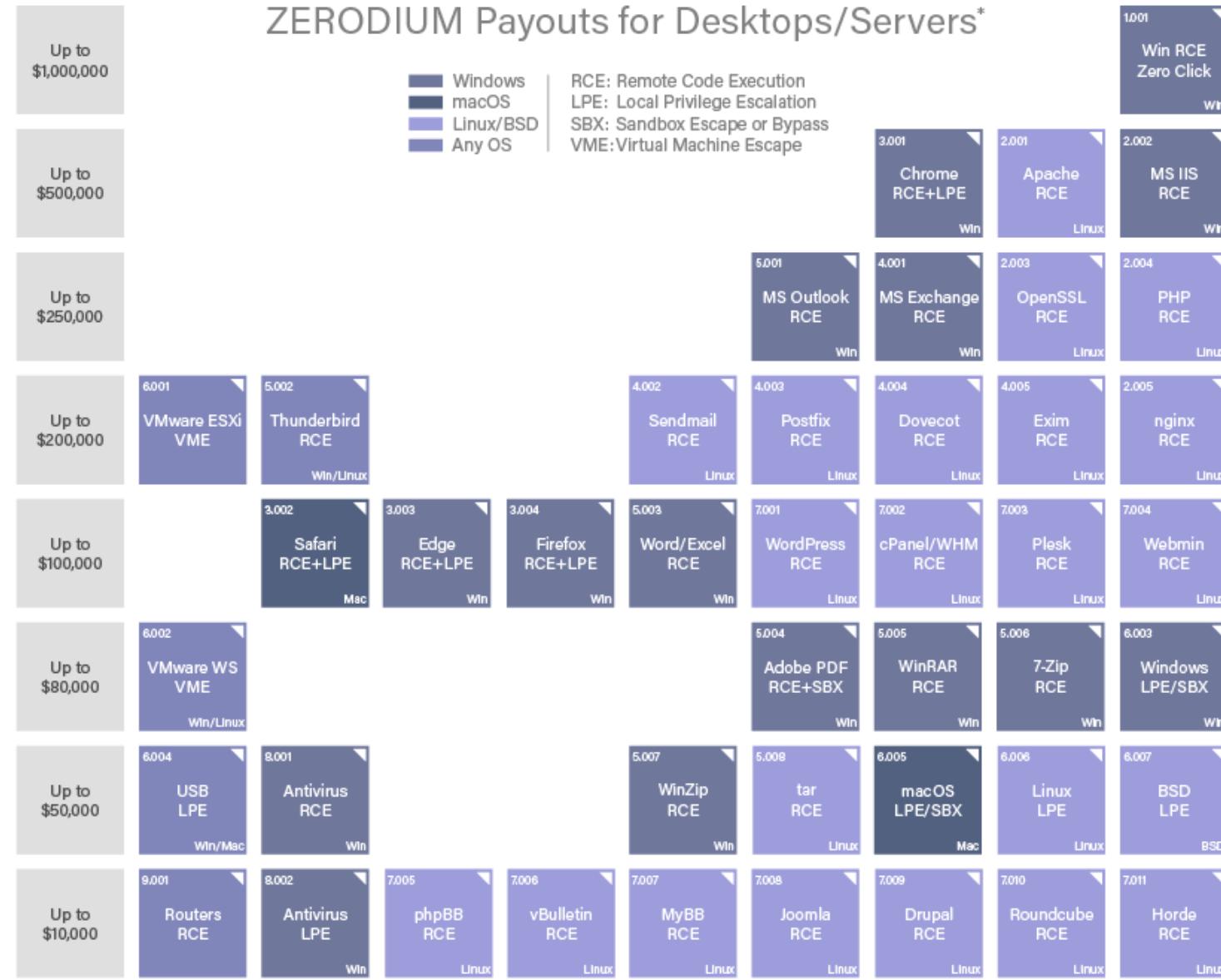


Figure 19. Survival analysis of CISA KEV vulnerabilities



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<https://zerodium.com/program.html>


 Verified Has App

Filters
Reset All
Show
15
▼
Search:

Date	D	A	V	Title	Type	Platform	Author
2024-11-15				SOPlanning 1.52.01 (Simple Online Planning Tool) - Remote Code Execution (RCE) (Authenticated)	WebApps	PHP	cybersploit
2024-10-01				reEngine 2.2.0 - Command Injection (Authenticated)	WebApps	Multiple	Caner Tercan
2024-10-01				openSIS 9.1 - SQLi (Authenticated)	WebApps	PHP	Devrim Diragumandan
2024-10-01				dizqueTV 1.5.3 - Remote Code Execution (RCE)	WebApps	JSP	Ahmed Said Saud Al-Rusair
2024-08-28				NoteMark < 0.13.0 - Stored XSS	Documentation	powered by SecurityScorecard	Log in
2024-08-28				Gitea 1.22.0 - Stored XSS			
2024-08-28				Invesalius3 - Remote Code Execution			

Documentation

[CVEdetails.com](#)
powered by SecurityScorecard

Vulnerabilities

- By Date
- By Type
- Known Exploited
- Assigners
- CVSS Scores
- EPSS Scores
- Search

Vulnerable Software

- Vendors
- Products
- Version Search

Vulnerability Intel.

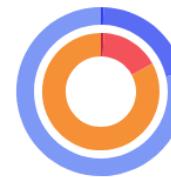
- Newsfeed
- Open Source Vulns
- Emerging CVEs
- Feeds
- Exploits
- Advisories
- Code Repositories
- Code Changes

Attack Surface

- My Attack Surface

CVE id, product, vendor...

New/Updated CVEs



39 CVEs created, 40 CVEs updated since yesterday

761 CVEs created, 1622 CVEs updated in the last 7 days

3886 CVEs created, 6110 CVEs updated in the last 30 days

Known exploited vulnerabilities

Since yesterday Last 7 days Last 30 days

0 4 20

Recent EPSS score changes

>5% >10% >50%

6 6 0

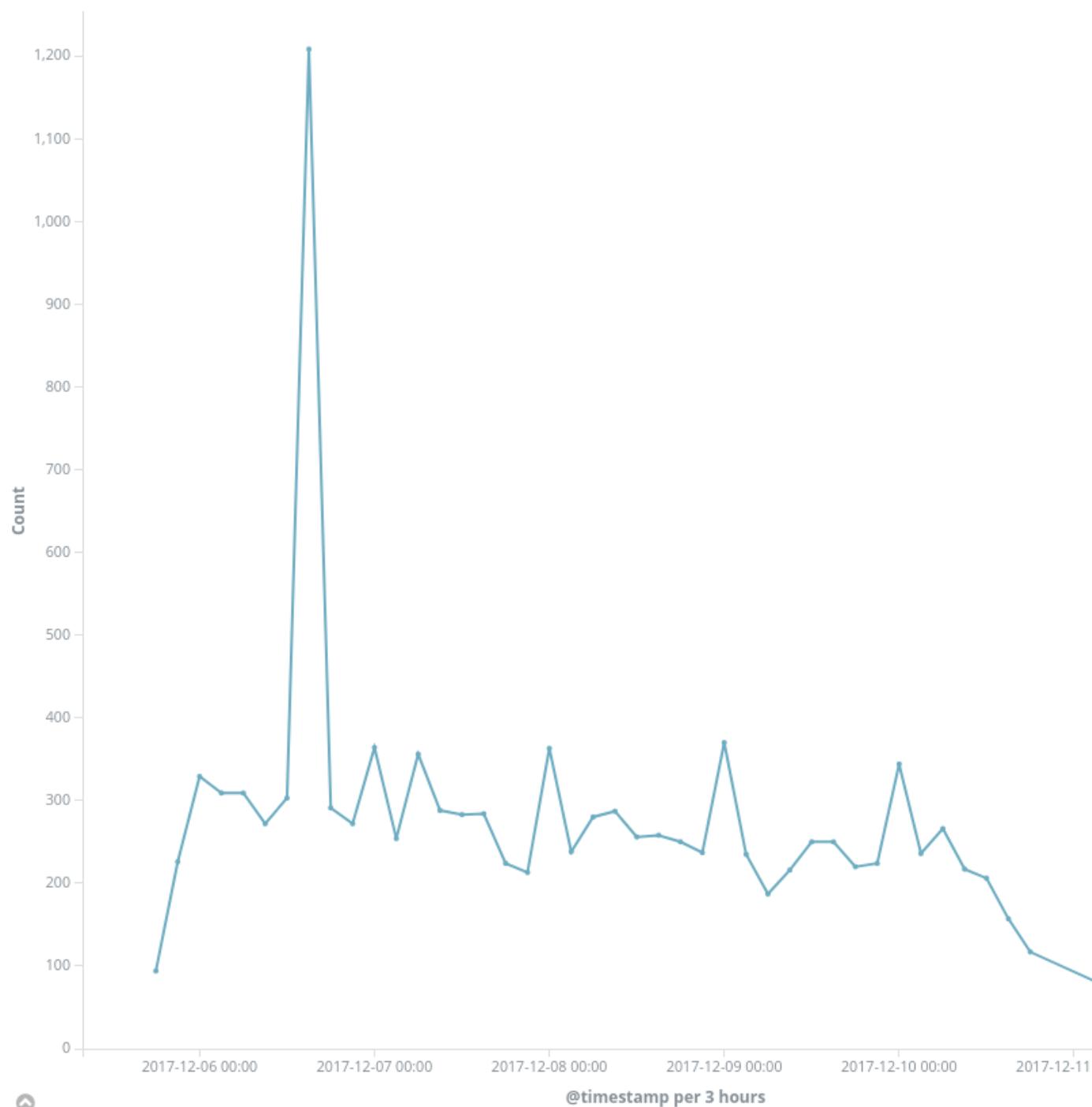
Distribution of vulnerabilities by CVSS scores

CVSS Score Range



Weighted Average CVSS Score: 7.6

* For CVEs published in the last 10 years



Try this: https://www.shodan.io/search?query=has_screenshot%3Atrue+encrypted+attention

[Results](#) [Report](#) [Docs](#) [Subscribe](#)

Host Filters

Labels:

- 8 login-page
- 4 voip
- 3 network.device
- 3 remote-access
- 2 jquery
- [More](#)

Autonomous System:

- 16 FAROESE-TELECOM-AS
- 5 IPVISON
- 2 DIGITALOCEAN-ASN
- 1 CONTABO
- 1 DESTINY-SWEDEN

Location:

- 16 Faroe Islands
- 5 Denmark
- 1 Germany
- 1 Sweden
- 1 United Kingdom
- [More](#)

Service Filters

Service Names:

- 48 HTTP
- 27 UNKNOWN

<https://search.censys.io/search?resource=hosts&q=ft.fo>

TOTAL RESULTS

3

TOP PORTS

264 2

443 1

TOP ORGANIZATIONS

External Interconnect Network 2

P/F Telefonverkid 1

TOP PRODUCTS

Check Point Firewall 2

Apache httpd 1

[View Report](#) [Download Results](#) [Historical Trend](#) [View on Map](#) [Advanced Search](#)

Partner Spotlight: Looking for a Splunk alternative to store all the Shodan data? Check out [Gravwell](#)

212.55.40.22

tolnet.ft.fo
ver.ft.fo
mitt.ver.ft.fo
bb.ft.fo
fsa.ver.ft.fo
P/F Telefonverkid
Faroe Islands, Tórshavn

[SSL Certificate](#)

Issued By: I- Common Name: Go Daddy Secure Certificate Authority - G2
Server: Apache/2.2.15 (Oracle)
Access-Control-Allow-Origin: *
Set-Cookie: ver_session=a%3A5%3A%7B%3A10%3A%22session_id%22%3B%3A32%3A%

I- Organization: GoDaddy.com, Inc.
Issued To: I- Common Name: *ver.ft.fo

Supported SSL Versions: TLSv1.2
Diffie-Hellman Fingerprint: RFC3526/Oakley Group 16

193.34.106.74

gatekeeper.ft.fo
External Interconnect Network
Faroe Islands, Tórshavn

193.34.106.75

External Interconnect Network
Faroe Islands, Tórshavn

<https://www.shodan.io/search?query=ft.fo>

Certificates	cn.tsh.ID	Logged At	Not Before	Not After	Common Name	Matching Identities	Issuer Name
	15538598362	2024-11-28	2024-11-28 02:26:00	umet.konnekt.ft.fo	umet.konnekt.ft.fo		C=US, O=Let's Encrypt, CN=R11
	15544586558	2024-11-28	2024-11-28 02:26:00	smp.konnekt.ft.fo	smp.konnekt.ft.fo		C=US, O=Let's Encrypt, CN=R10
	15440984942	2024-11-20	2024-11-12 02:25:00	ft.fo	*.ft.fo		C=US, O=Google Trust Services, CN=WE1
	15380673602	2024-11-16	2024-11-16 02:14:00	dekringur.ft.fo	dekringur.ft.fo		C=US, O=Let's Encrypt, CN=R10
	15322114121	2024-11-12	2024-11-12 02:10:00	ft.fo	*.ft.fo		C=US, O=Google Trust Services, CN=WE1
	15322116205	2024-11-12	2024-11-12 02:10:00	ft.fo	*.ft.fo		C=US, O=Google Trust Services, CN=WE1
	15356457786	2024-11-10	2024-11-10 02:08:00	spora.ft.fo	spora.ft.fo		C=US, O=Let's Encrypt, CN=R10
	15287157647	2024-11-10	2024-11-10 02:08:00	spora.ft.fo	spora.ft.fo		C=US, O=Let's Encrypt, CN=R10
	15327462197	2024-11-08	2024-11-07 02:05:00	pb.dekringur.ft.fo	pb.dekringur.ft.fo		C=US, O=Let's Encrypt, CN=E6
	15262004372	2024-11-08	2024-02-05 02:05:00	pb.dekringur.ft.fo	pb.dekringur.ft.fo		C=US, O=Let's Encrypt, CN=E6
	15291051711	2024-11-08	2024-11-08 02:05:00	link.ft.fo	link.ft.fo		C=US, O=Let's Encrypt, CN=E6
	15292710081	2024-11-05	2024-11-05 02:03:00	link.ft.fo	link.ft.fo		C=US, O=Let's Encrypt, CN=E5
	15021454307	2024-10-31	2024-10-30 02:01:28	x.ft.fo	x.ft.fo		C=US, O=Let's Encrypt, CN=R10
	15161234604	2024-10-31	2024-10-30 02:01:28	x.ft.fo	x.ft.fo		C=US, O=Let's Encrypt, CN=R10
	15151541285	2024-10-31	2024-10-30 02:01:28	starv.ft.fo	starv.ft.fo		C=US, O=Let's Encrypt, CN=R10
	15196482261	2024-10-30	2024-10-29 02:01:28	tolnet.ft.fo	tolnet.ft.fo		C=US, O=Let's Encrypt, CN=R11
	15154895998	2024-10-30	2024-10-30 02:01:28	tolnet.ft.fo	tolnet.ft.fo		C=US, O=Let's Encrypt, CN=R11
	15145336188	2024-10-30	2024-10-30 02:01:28	ipsolutions.dk	ipsolutions.dk		C=US, O=DigiCert Inc, OU=www.digicert.com, CN=GeoTrust RSA CA 2018
	15123924437	2024-10-29	2024-10-29 02:00:00	ipsolutions.dk	ipsolutions.dk		C=US, O=DigiCert Inc, OU=www.digicert.com, CN=GeoTrust RSA CA 2018

<https://crt.sh/?q=ft.fo>

Demo

Behind the scenes

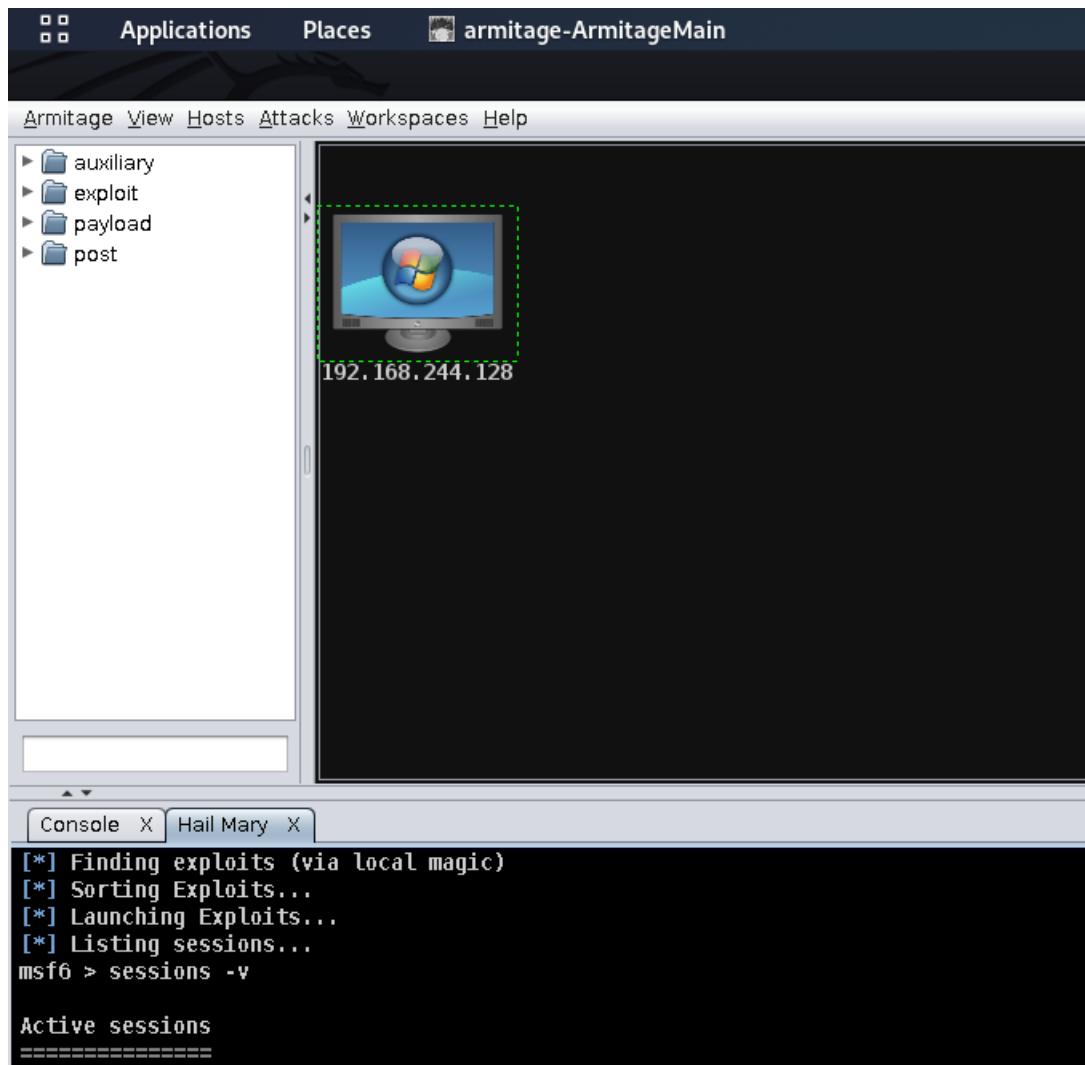
I am never going to give you up!

Eternalblue and Doublepulsar and Armitage

Demo

It is not going to get easier!

Armitage – Hacking like you do not know what you are doing!



Thought Experiment

.... Okay, it may actually be even easier....

Hacking like you do not know what you are doing (and really you do not)

- AWS
- Azure
- Digital Ocean
- Linode

<https://www.kali.org/docs/cloud/>

Products > Kali Linux



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Kali Linux

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The Most Advanced Penetration Testing Distribution. Ever.

Kali Linux (formerly known as BackTrack Linux) is an open-source, Debian distribution aimed at advanced Penetration Testing and Security Auditing, providing common tools, configurations, and automations which allows the task that needs to be completed, not the surrounding activity. Kali Li

<https://azuremarketplace.microsoft.com/en-us/marketplace/apps/kali-linux.kali>

aws marketplace

All Products > Operating Systems > Kali Linux

Kali Linux

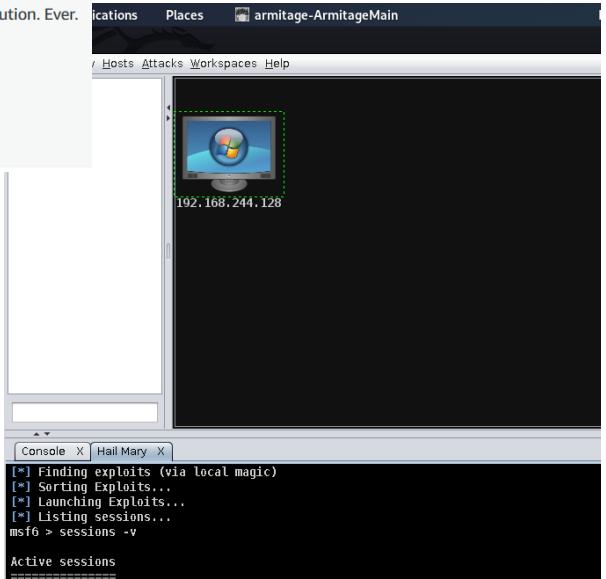
By: Kali | Latest Version: Kali Linux 2023.4

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Linux/Unix | ★★★★☆ | 18 AWS reviews

Free Tier

<https://aws.amazon.com/marketplace/pp/prodview-fznsnw3f7mq7to>







Thanks!

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