



WelcomeSecurity
Enabling value through IT security

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

Shadow Brokers release the EternalBlue and DoublePulsar exploits

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

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 it's Kill Switch

North Korea is expected to be behind the attack

\$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

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/>

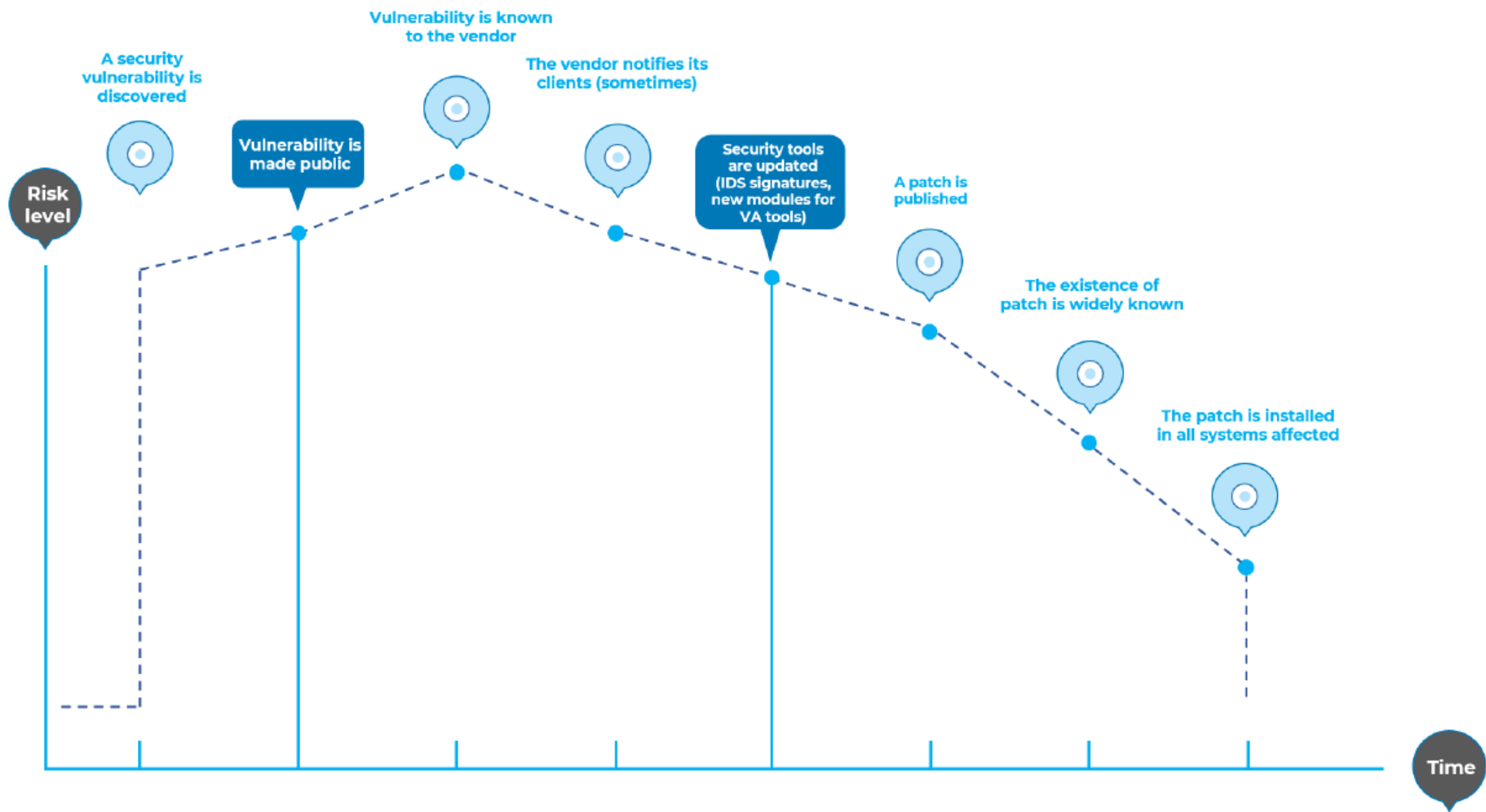


Figure 2-2: Window of Vulnerability

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

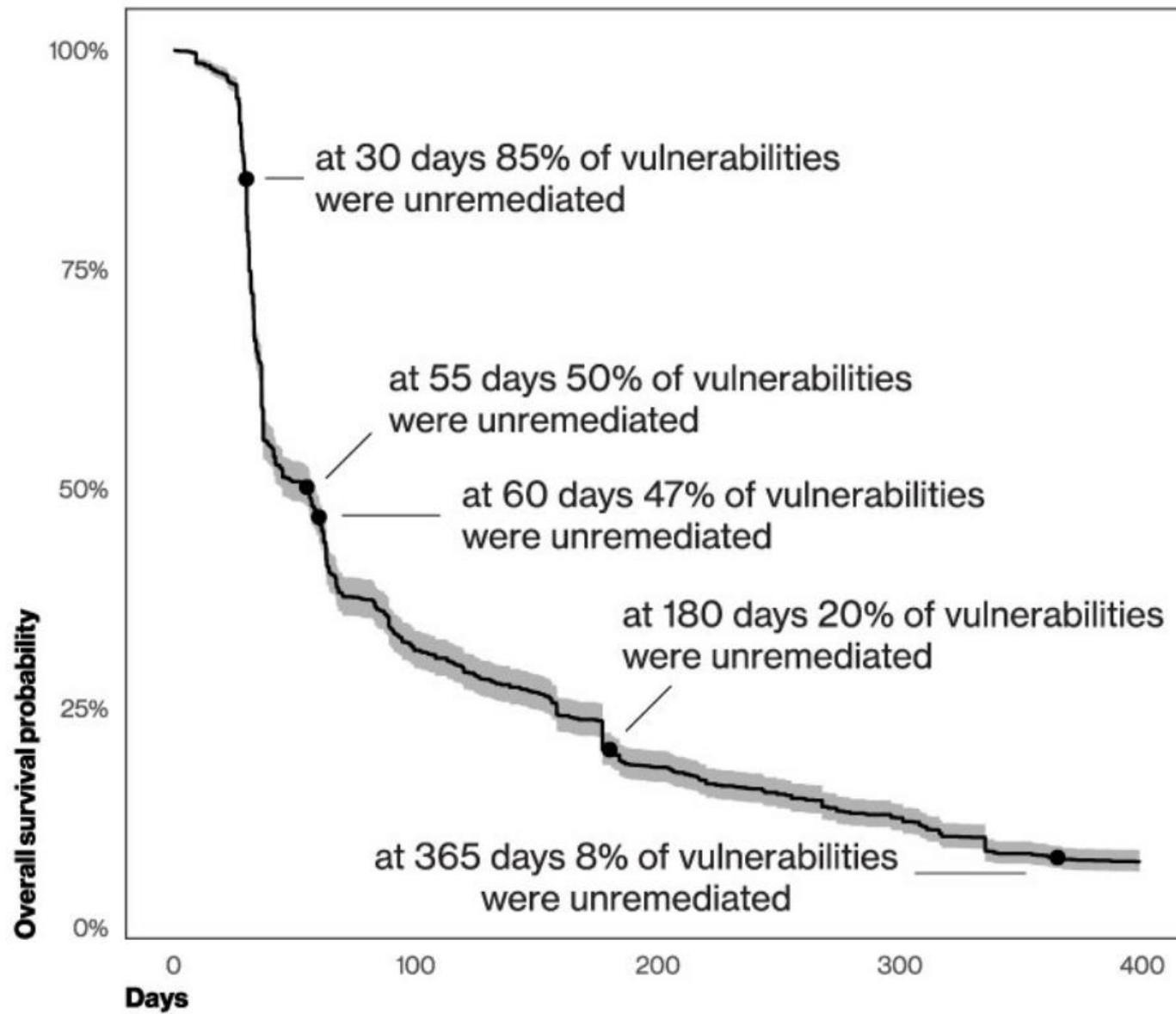


Figure 19. Survival analysis of CISA KEV vulnerabilities

ZERODIUM Payouts for Desktops/Servers*

Up to \$1,000,000												1.001 Win RCE Zero Click Win
Up to \$500,000									3.001 Chrome RCE+LPE Win	2.001 Apache RCE Linux	2.002 MS IIS RCE Win	
Up to \$250,000							5.001 MS Outlook RCE Win	4.001 MS Exchange RCE Win	2.003 OpenSSL RCE Linux	2.004 PHP RCE Linux		
Up to \$200,000	6.001 VMware ESXi VME Win/Linux	5.002 Thunderbird RCE Win/Linux				4.002 Sendmail RCE Linux	4.003 Postfix RCE Linux	4.004 Dovecot RCE Linux	4.005 Exim RCE Linux	2.005 nginx RCE Linux		
Up to \$100,000		3.002 Safari RCE+LPE Mac	3.003 Edge RCE+LPE Win	3.004 Firefox RCE+LPE Win	5.003 Word/Excel RCE Win	7.001 WordPress RCE Linux	7.002 cPanel/WHM RCE Linux	7.003 Plesk RCE Linux	7.004 Webmin RCE Linux			
Up to \$80,000	6.002 VMware WS VME Win/Linux					5.004 Adobe PDF RCE+SBX Win	5.005 WinRAR RCE Win	5.006 7-Zip RCE Win	8.003 Windows LPE/SBX Win			
Up to \$50,000	6.004 USB LPE Win/Mac	8.001 Antivirus RCE Win			5.007 WinZip RCE Win	5.008 tar RCE Linux	6.005 macOS LPE/SBX Mac	6.006 Linux LPE Linux	6.007 BSD LPE BSD			
Up to \$10,000	9.001 Routers RCE	8.002 Antivirus LPE Win	7.005 phpBB RCE Linux	7.006 vBulletin RCE Linux	7.007 MyBB RCE Linux	7.008 Joomla RCE Linux	7.009 Drupal RCE Linux	7.010 Roundcube RCE Linux	7.011 Horde RCE Linux			

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

🕷️

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📖

📡

🎓

EXPLOIT
DATABASE

📊

👤

☐ Verified

☐ Has App

Filters

Reset All

Show

15

Search:

Date	D	A	V	Title	Type	Platform	Author
2024-11-15	📄	🔍	✖	SOPanning 1.52.01 (Simple Online Planning Tool) - Remote Code Execution (RCE) (Authenticated)	WebApps	PHP	cybersploit
2024-10-01	📄	🔍	✖	reNgine 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-Busairi
2024-08-28	📄	🔍	✖	NoteMark < 0.13.0 - Stored XSS			
2024-08-28	📄	🔍	✖	Gitea 1.22.0 - Stored XSS			
2024-08-28	📄	🔍	✖	Invesalius3 - Remote Code Execution			

- 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

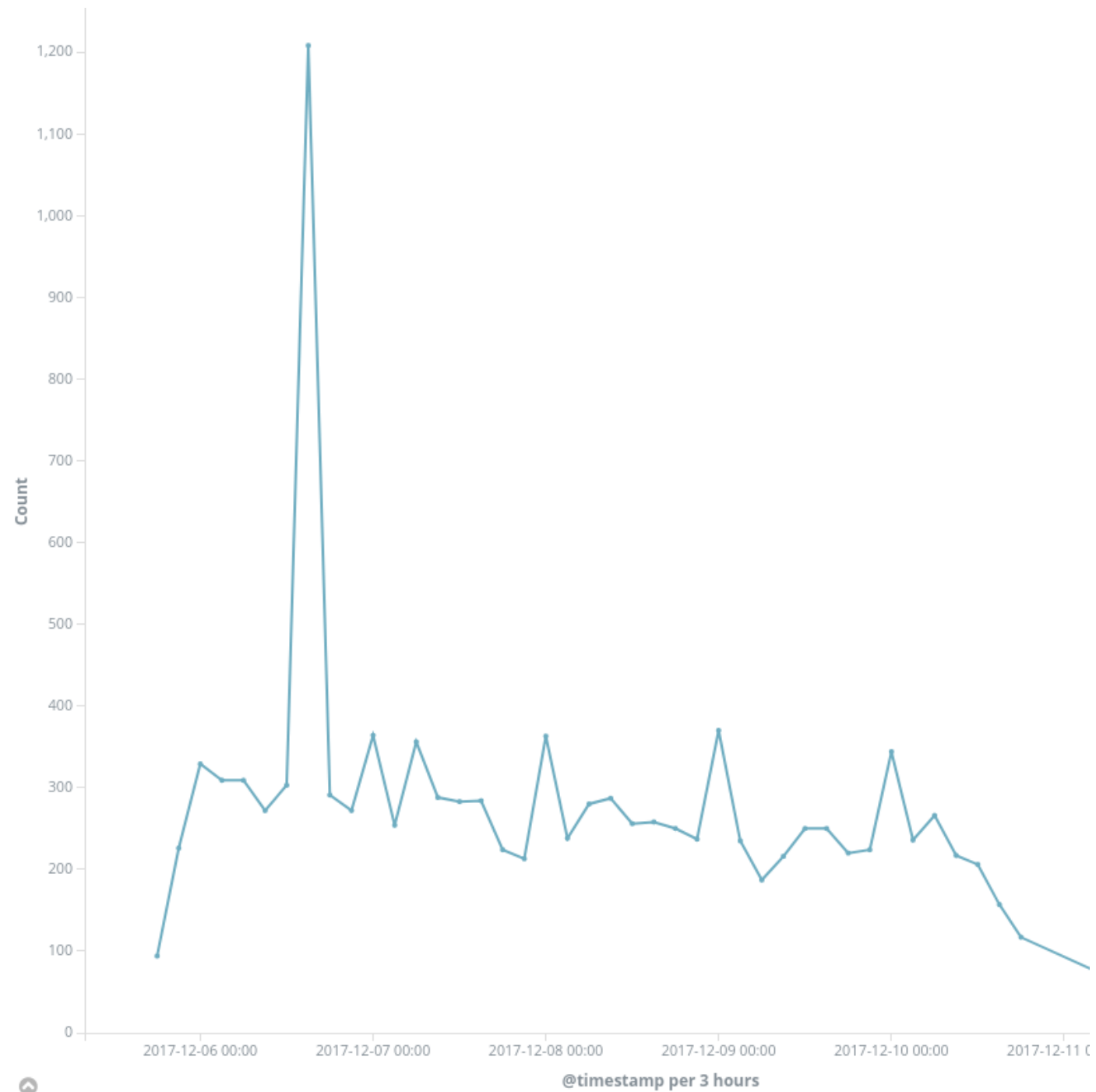
>5%	>10%	>50%
6	6	0

Distribution of vulnerabilities by CVSS scores

CVSS Score Range	Vulnerabilities
0-1	2532
1-2	148
2-3	1067
3-4	2509
4-5	16156
5-6	33835
6-7	33229
7-8	49674
8-9	24397
9+	36026
Total	199573

Weighted Average CVSS Score: 7.6

* For CVEs published in the last 10 years



censys

Hosts

ft.fo

Search

Results

Try CensysGPT Beta

Report

Docs

Subs

Host Filters

Labels:

login-page

voip

network.device

remote-access

jquery

More

Autonomous System:

FAROESE-TELECOM-AS

IPVISION

DIGITALOCEAN-ASN

CONTABO

DESTINY-SWEDEN

More

Location:

Faroe Islands

Denmark

Germany

Sweden

United Kingdom

More

Service Filters

Service Names:

HTTP

UNKNOWN

Hosts

Results: 25 Time: 0.05s

212.55.40.28 (npapicbtest.ft.fo)

Microsoft Windows Server 2008 R2

FAROESE-TELECOM-AS (15389)

Streymoy, Faroe Islands

jquery

typekit

default-landing-page

80/HTTP

443/HTTP

212.55.40.17 (arcgis.ft.fo)

Microsoft

FAROESE-TELECOM-AS (15389)

Streymoy, Faroe Islands

80/HTTP

443/HTTP

193.34.106.74 (gatekeeper.ft.fo)

Check Point Gaia Os

FAROESE-TELECOM-AS (15389)

Streymoy, Faroe Islands

network.device

80/HTTP

264/CHECKPOINT_TOPOLOGY

443/UNKNOWN

500/IKE

18231/UNKNOWN

18264/HTTP

81.18.224.133 (mqtt-broker.api.ft.fo)

FAROESE-TELECOM-AS (15389)

Streymoy, Faroe Islands

8080/HTTP

32764/UNKNOWN

81.18.224.41 (x.ft.fo)

FAROESE-TELECOM-AS (15389)

Streymoy, Faroe Islands

jquery

80/HTTP

443/HTTP

SHODAN

Explore

Downloads

Pricing

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

gatekeeper.ft.fo

External Interconnect Network

Faroe Islands, Tórshavn

SSL Certificate

Issued By: Go Daddy Secure Certificate Authority - G2

Issued To: GoDaddy.com, Inc.

Supported SSL Versions: TLSv1.2

Diffie-Hellman Fingerprint: RFC3526/Oakley Group 16

HTTP/1.1 302 Found

Date: Mon, 09 Dec 2024 08:58:02 GMT

Server: Apache/2.2.15 (Oracle)

Access-Control-Allow-Origin: *

Set-Cookie: ver_session=a%3A5%3A%7B%3A1%3A%22session_id%22%3B%3A3%22%3A%22

193.34.106.74

gatekeeper.ft.fo

External Interconnect Network

Faroe Islands, Tórshavn

Check Point Firewall:

Firewall Host: c1.ft.fo

SmartCenter Host: gatekeeper.ft.fo

193.34.106.75

gatekeeper.ft.fo

External Interconnect Network

Faroe Islands, Tórshavn

Check Point Firewall:

Firewall Host: c1.ft.fo

SmartCenter Host: gatekeeper.ft.fo

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

Criteria				Type: Identity	Match: ILIKE	Search: ft.fo	
Certificates	crt.sh ID	Logged At	Not Before	Not After	Common Name	Matching Identities	Issuer Name
	15538598362	2024-11-28	2024-11-28	2025-02-26	umait.konnekta.ft.fo	umait.konnekta.ft.fo	C=US, O=Let's Encrypt, CN=R11
	15544586656	2024-11-28	2024-11-28	2025-02-26	amp.konnekta.ft.fo	amp.konnekta.ft.fo	C=US, O=Let's Encrypt, CN=R10
	15440984942	2024-11-20	2024-11-12	2025-02-10	ft.fo	*.ft.fo	C=US, O=Google Trust Services, CN=WE1
	15380673602	2024-11-16	2024-11-16	2025-02-14	dekningur.ft.fo	dekningur.ft.fo	C=US, O=Let's Encrypt, CN=R10
	15322114121	2024-11-12	2024-11-12	2025-02-10	ft.fo	*.ft.fo	C=US, O=Google Trust Services, CN=WE1
	15322116205	2024-11-12	2024-11-12	2025-02-10	ft.fo	*.ft.fo	C=US, O=Google Trust Services, CN=WE1
	15356457786	2024-11-10	2024-11-10	2025-02-08	spora.ft.fo	spora.ft.fo	C=US, O=Let's Encrypt, CN=R10
	15287157647	2024-11-10	2024-11-10	2025-02-08	spora.ft.fo	spora.ft.fo	C=US, O=Let's Encrypt, CN=R10
	15327462197	2024-11-08	2024-11-07	2025-02-05	pb.dekningur.ft.fo	pb.dekningur.ft.fo	C=US, O=Let's Encrypt, CN=E6
	15262004372	2024-11-08	2024-11-07	2025-02-05	pb.dekningur.ft.fo	pb.dekningur.ft.fo	C=US, O=Let's Encrypt, CN=E6
	15291057171	2024-11-05	2024-11-05	2025-02-03	link.ft.fo	link.ft.fo	C=US, O=Let's Encrypt, CN=E5
	15222371818	2024-11-05	2024-11-05	2025-02-03	link.ft.fo	link.ft.fo	C=US, O=Let's Encrypt, CN=E5
	15201454307	2024-10-31	2024-10-30	2025-01-28	x.ft.fo	x.ft.fo	C=US, O=Let's Encrypt, CN=R10
	15161294604	2024-10-31	2024-10-30	2025-01-28	x.ft.fo	x.ft.fo	C=US, O=Let's Encrypt, CN=R10
	15151541285	2024-10-31	2024-10-30	2025-01-28	starv.ft.fo	www.starv.ft.fo	C=US, O=Let's Encrypt, CN=R10
	15196482261	2024-10-30	2024-10-30	2025-01-28	tolnet.ft.fo	tolnet.ft.fo	C=US, O=Let's Encrypt, CN=R11
	15154896598	2024-10-30	2024-10-30	2025-01-28	tolnet.ft.fo	tolnet.ft.fo	C=US, O=Let's Encrypt, CN=R11
	15145336188	2024-10-30	2024-10-30	2025-11-06	ipsolutions.dk	bretti.konnekta.ft.fo	C=US, O=DigiCert Inc. OU=www.digicert.com. CN=GeoTrust RSA CA 2018
						ep1.konnekta.ft.fo	
						ep2.konnekta.ft.fo	
						konnekta.ft.fo	
						xn--hagtl	
						yua.konnekta.ft.fo	
	15123924437	2024-10-29	2024-10-29	2025-11-06	ipsolutions.dk	bretti.konnekta.ft.fo	C=US, O=DigiCert Inc. OU=www.digicert.com. CN=GeoTrust RSA CA 2018
						ep1.konnekta.ft.fo	
						ep2.konnekta.ft.fo	
						konnekta.ft.fo	

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

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

8

Demo

Behind the scenes

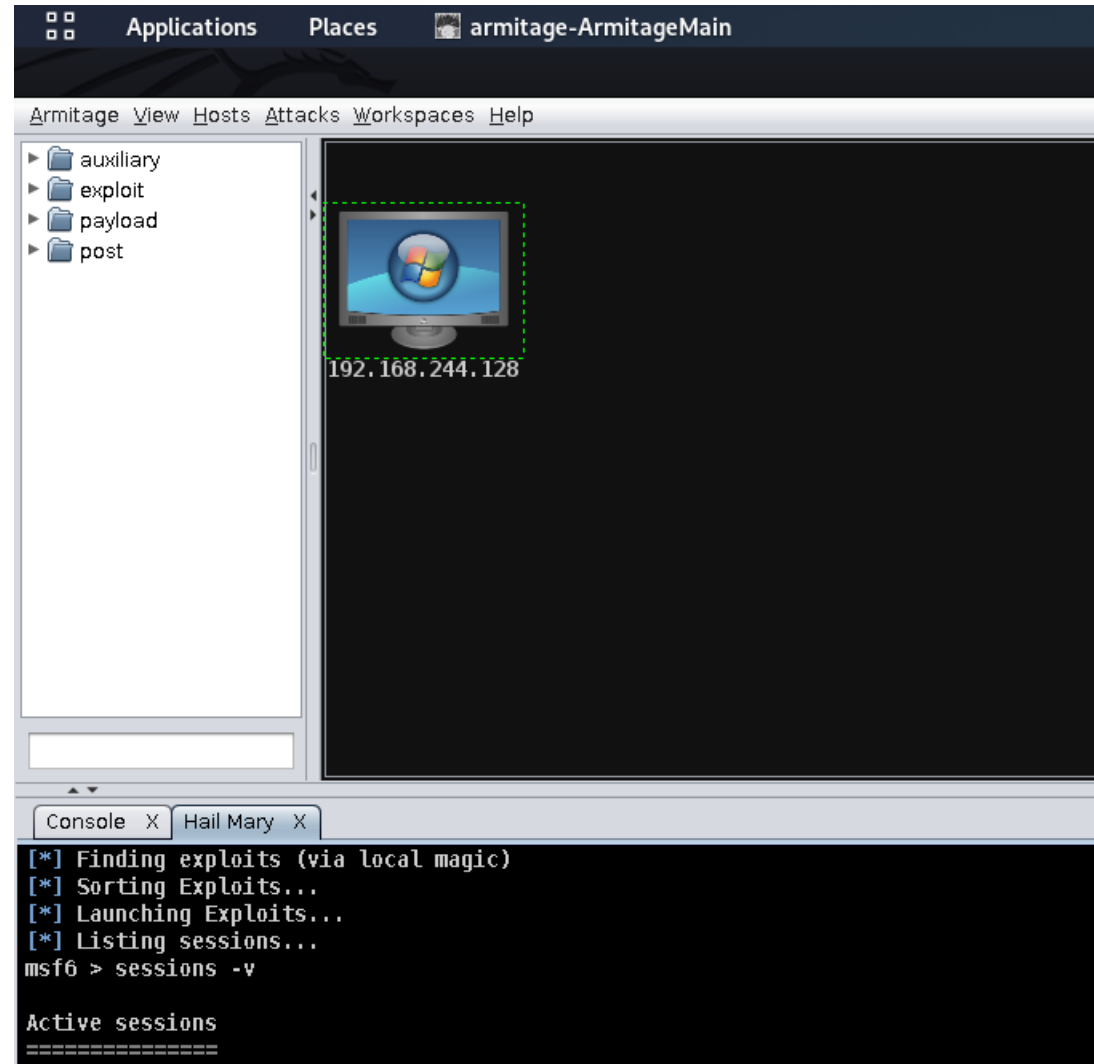
I am never going to give you up!

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

- AWS
- Azure
- Digital Ocean
- Linode

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

Products > Kali Linux



Kali Linux

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

About Categories Delivery Methods Solutions AWS IQ Resources Your Saved List

All Products > Operating Systems > Kali Linux



Kali Linux

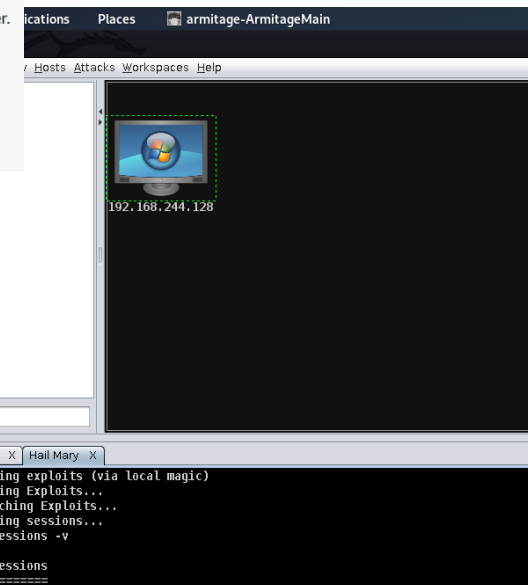
By: [Kali](#) Latest Version: Kali Linux 2023.4

Kali Linux, The Most Advanced Penetration Testing Distribution. Ever.

Linux/Unix ★★★★★ 18 AWS reviews

Free Tier

<https://aws.amazon.com/marketplace/pp/prodview-fzns3f7mq7to>







WelcomeSecurity
Enabling value through IT security

Thanks!

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