

DEUTSCHLAND-BIER — WURST UND SCHWACHSTELLEN





XC Safety-Security-Reliability Academy 2025

03/06/2025

Agenda



Common Attack Vectors

Portuguese landscape

Disclaimer & Legal Considerations



Presentation is solely for educational and awareness purposes.



Live content may be unpredictable and potentially inappropriate for some viewers.



Users must check the legality of OSINT tools and methods in their country.



This presentation is <u>not related</u> to my work or employer.



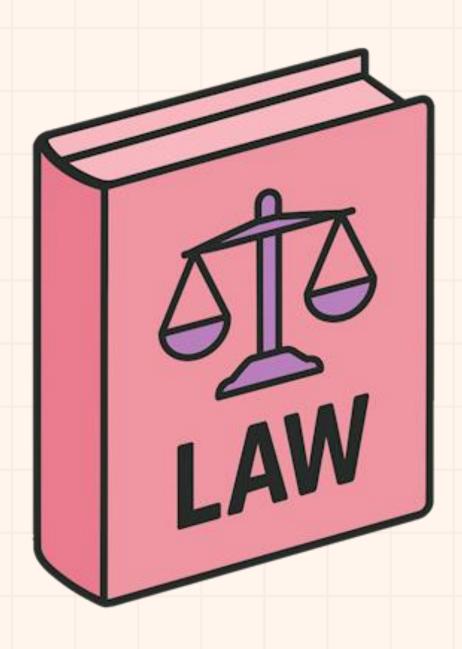
Disclaimer & Legal Considerations

German Law

- Bundesgesetzblatt (<u>link</u>)
- Bundesnetzagentur (<u>link</u>)

Organizations

- BSI Bundesamt für Sicherheit in der Informationstechnik (<u>link</u>)
- Incident Reporting (<u>link</u>)
- CERT-Bund (<u>link</u>)
- Bundeskriminalamt (<u>link</u>)
- Generalstaatsanwaltschaft (<u>link</u>)



Disclaimer & Legal Considerations

ARTIFICIAL INTELLIGENCE

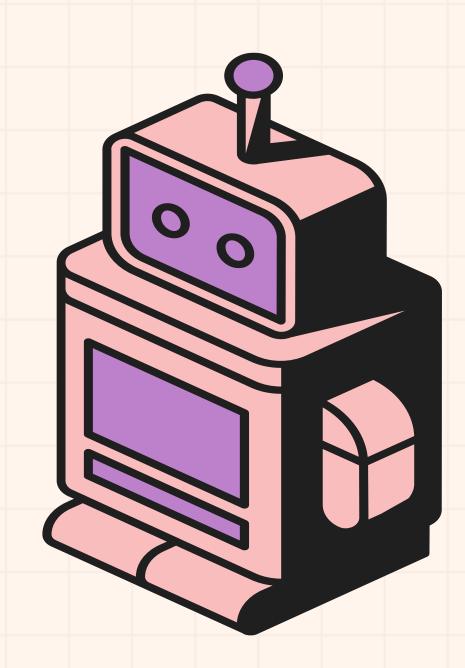
Was **heavily used** for this presentation

Use available technologies but check facts.

Always check facts.

Al is more than ChatGPT. Grok, Claude, ...

<u>Use them all.</u>





\$whoami







Full stack developer





Vulnerability

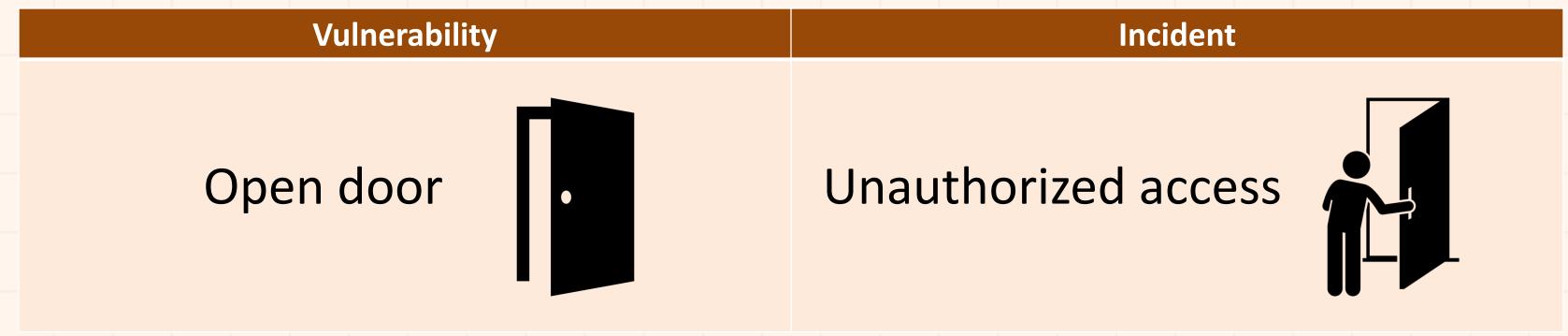
Definition and Statistics

Vulnerability - Vulnerability vs incident

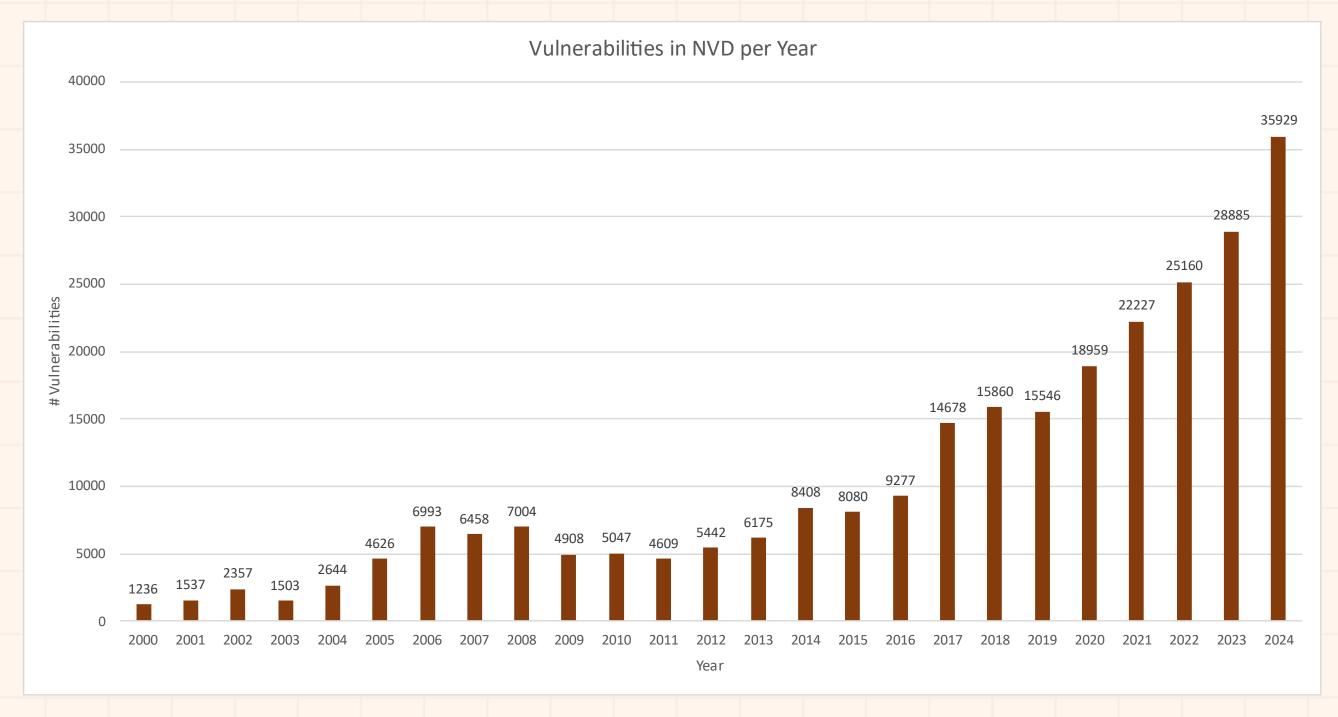
Logged In Remote Access

"A weakness in the computational logic (e.g., code) found in software and hardware components that, when exploited, results in a negative impact to confidentiality, integrity, or availability."

National Vulnerability Database - https://nvd.nist.gov/vuln



Vulnerability - Statistics by Year

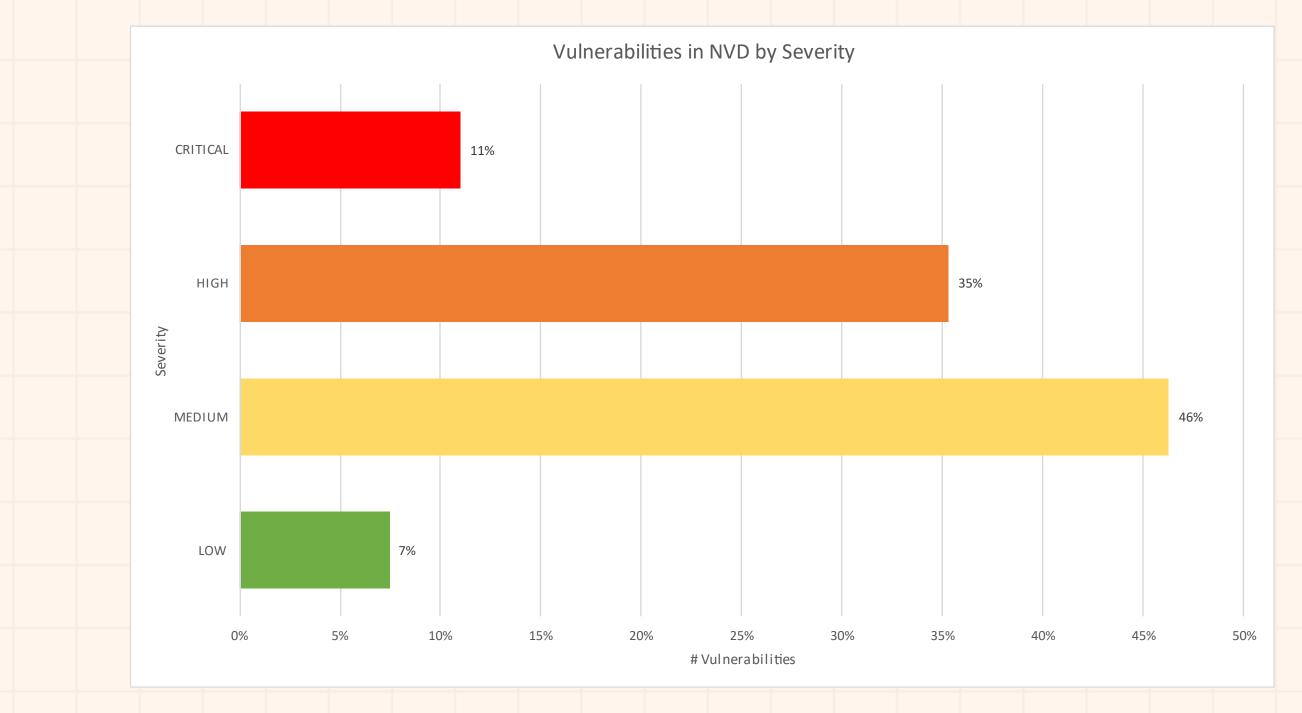


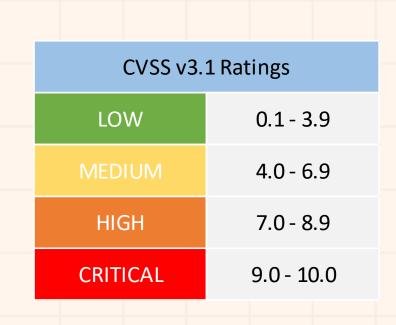
Total known vulnerabilities

263.548



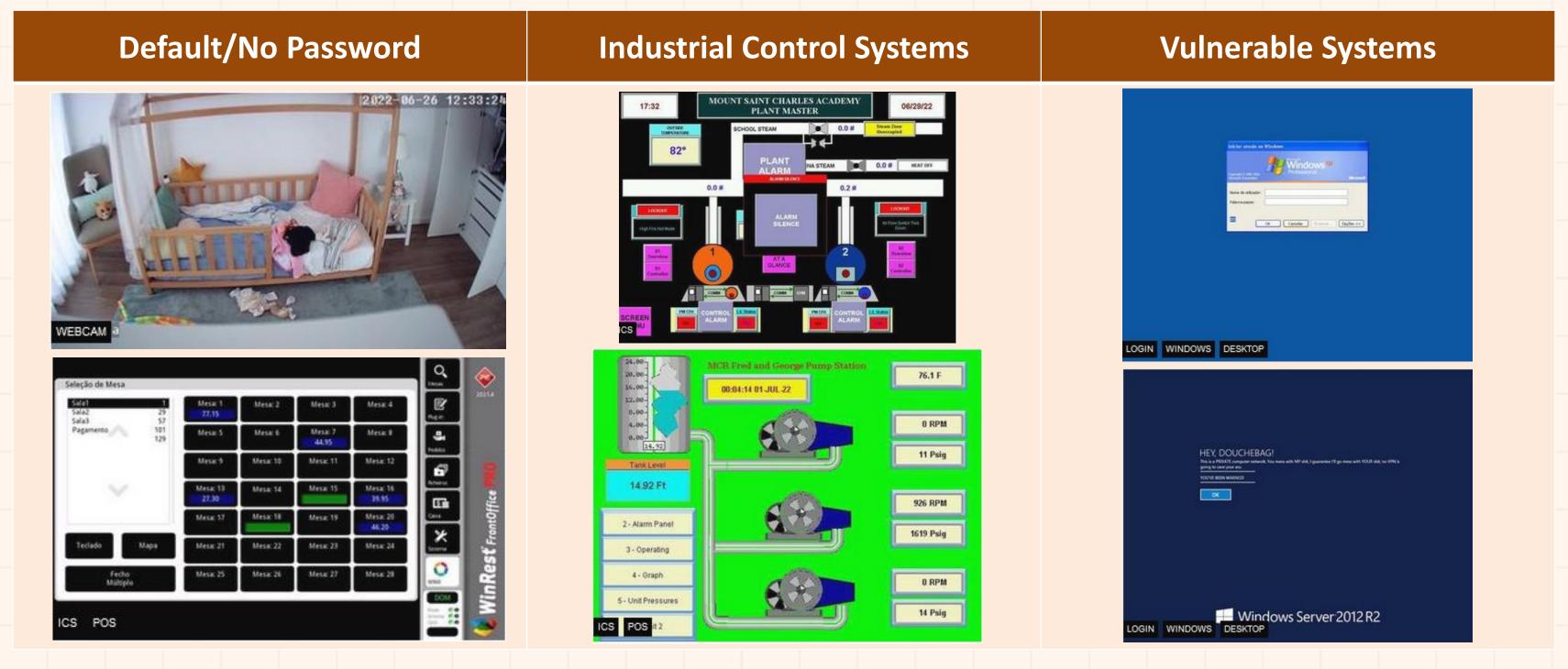
Vulnerability - Statistics by Severity







Vulnerability - Examples from Shodan.io



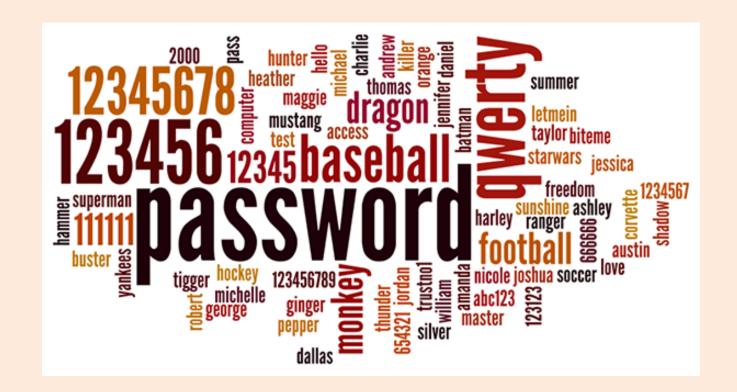
Common Attack Vectors

Easy-Peasy

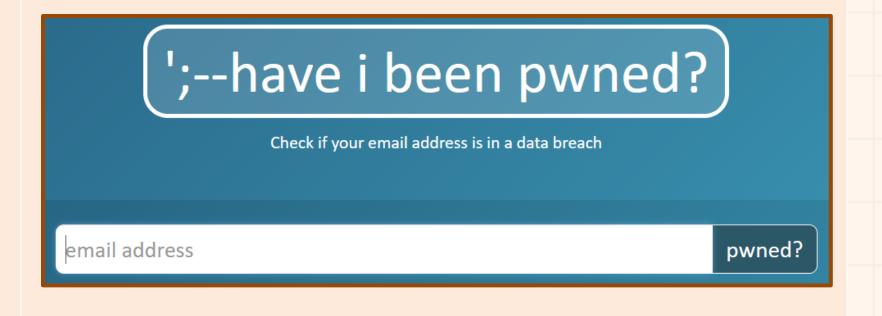
Common Attack Vectors - Credentials

Insecure

- No password
- Default credentials (admin/admin)
- Weak passwords
- Reused passwords



- **Compromised/Leaked**
- Hacked legitime sites leaked user information and credentials
- Mother of all breaches reveals 26 billion records





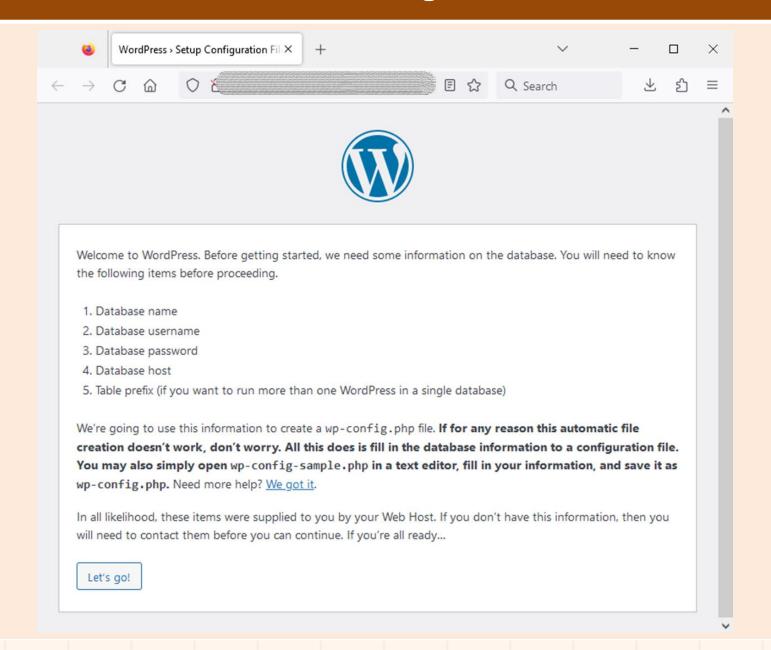
Common Attack Vectors - Misconfiguration

Shared Folder – Authentication disabled

Authentication: disabled SMB Version: 2 Capabilities: raw-mode Shares Name Type Comments Multimedia Disk System default share Download Disk System default share Recordings Disk System default share Web Disk System default share Public Disk System default share homes Disk System default share immogeko Disk gerlinde Disk SCAN Disk Disk HOB Disk Buchhaltung Disk Backup Disk Server, 3CX Disk home Haus&Co Disk Haus & Co Immobilientreuhand GmbH IPC\$ IPC IPC Service (NAS Server)

Accounting

WordPress site – Configuration available



Common Attack Vectors - Software Vulnerabilities

Shared Folder - Remote Code Execution

CVE-2020-0796

A remote code execution vulnerability exists in the way that the Microsoft Server Message Block 3.1.1 (SMBv3) protocol handles certain requests. An attacker who successfully exploited the vulnerability could gain the ability to execute code on the target server or client.

SMB Status:

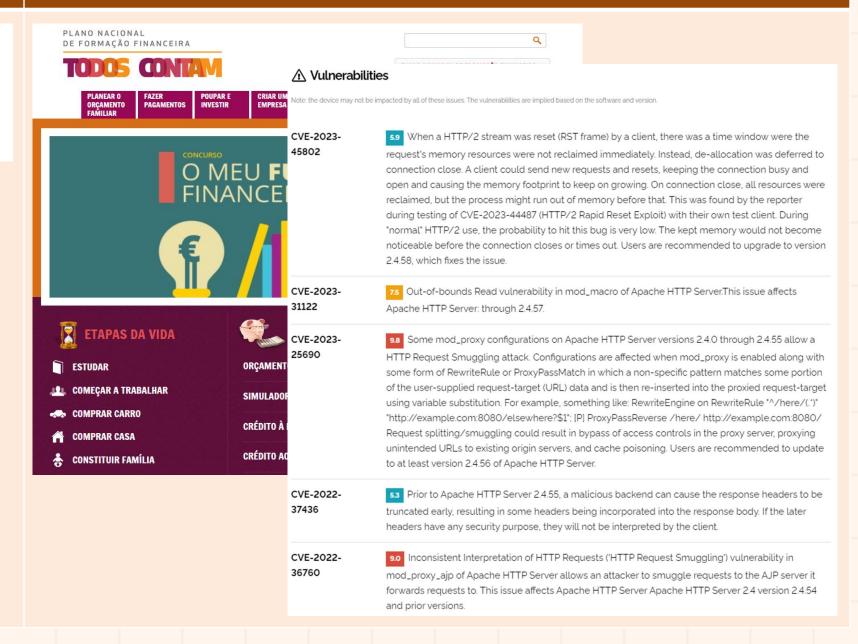
Authentication: disabled

SMB Version: 2

Capabilities: raw-mode

Shares		
Name	Туре	Comments
ADMIN\$	Disk	Admin remoto
C\$	Disk	Partilha predefinida
credTec	Disk	
D\$	Disk	Partilha predefinida
Executavel	Disk	
IPC\$	IPC	IPC remoto
passagem	Disk	
PHCSistema	Disk	
Users	Disk	
validacc	Disk	

Website – Several vulnerabilities



Common Attack Vectors - Malware - Ransomware

Redeemer Ransomware Ransomwatch Redeemer Ransomware - Your Data Is Encrypted 888 Y88b summary 888 888 888 888 d88b. d88b. .d88b. .d88b. .d88b. .d88b. .d88b. .d88b. .d88b. .d88b. 8888888P" d8P Y8b d88" 888 d8P Y8b d8P Y8b 888 "888 "88b d8P Y8b 888P" may 29th, 2025 888 T88b Y8b. Y88b 888 Y8b. Y8b. 888 888 888 Y8b. 888 ransomwatch is currently crawling 492 sites belonging to 216 unique groups Made by Cerebrate Visit the official Redeemer Ransomware Tor website there have been 6 posts within the last 24 hours redeemergd6gjtzgiuf5jgpkk6i3xybkhsldzjoyjaxivyzlnhvmzcad.onion [Question 1] What happened to my computer?

[Answer 1] Your files have been encrypted by Redeemer, a Darknet ransomware operation.

I cannot access my files and they have changed their extension?

[Question 2] Is there any way to recover my files?

[Answer 2] Yes, you can recover your files. This will however cost you money in Monero (XMR).

[Question 3] Is there any way to recover my files without paying?

[Answer 3] Without paying for the proper decryption key, you will NEVER regain access to your files.

Redeemer uses the most secure algorithms and a sophisticated encryption scheme which guarantees security.

Ever since Redeemer was first released publicly (~May 2021) no one managed to crack the decryption or

recover their files without paying.

OK



Common Attack Vectors - Malware - Ransomware

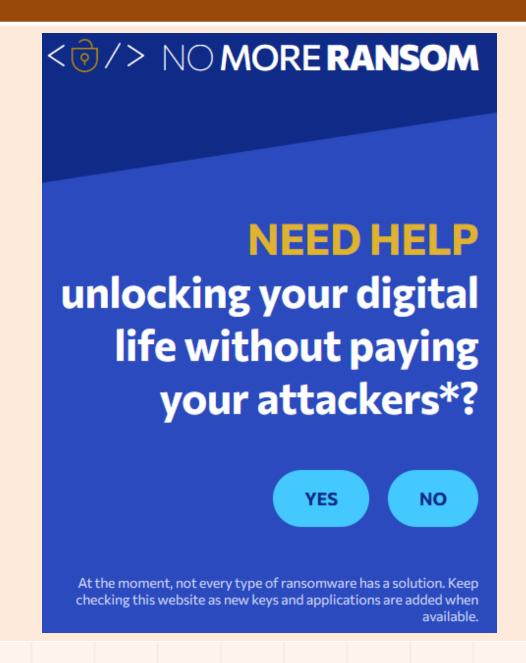
Ransomwatch

recent posts

last 200 posts

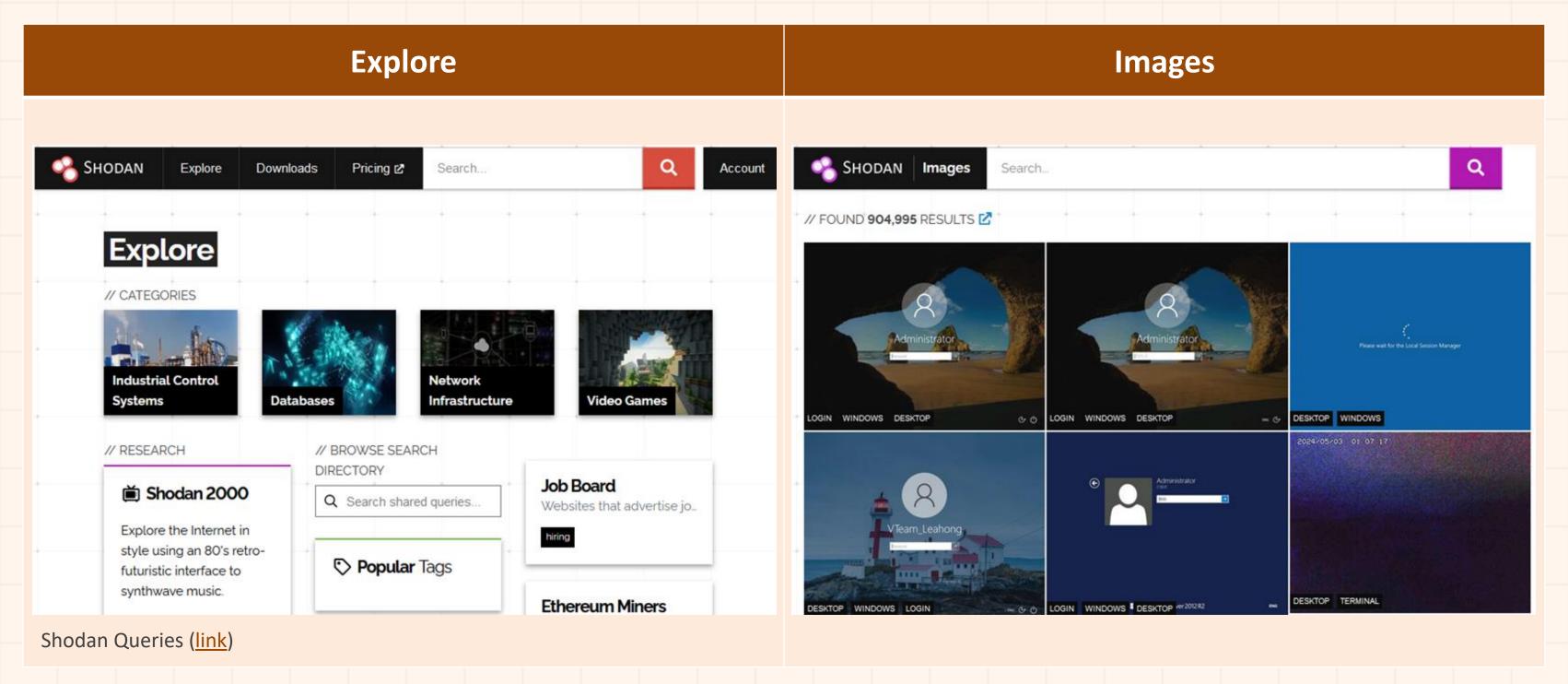
date	title	group
2025-05-29	http://metromont.com	blacksuit
2025-05-29	Mulia Raya	ransomblog noname
2025-05-28	KDV Label	<u>play</u>
2025-05-28	Eliel Cycling	<u>play</u>
2025-05-28	<u>Cator Ruma & Associates</u>	<u>rhysida</u>
2025-05-28	1*s.com.vn	flocker
2025-05-28	<u>Fujipoly Ltd</u>	<u>spacebears</u>
2025-05-27	Wrap & Send Services	hunters
2025-05-27	<u>Eight8Ate Holdings, Inc</u>	<u>hunters</u>
2025-05-27	http://www.iptelecom.at	<u>ciphbit</u>
2025-05-27	Corantioquia	hunters
2025-05-27	WAT Supplies	<u>play</u>
2025-05-26	Media Links	<u>play</u>

NoMoreRansom

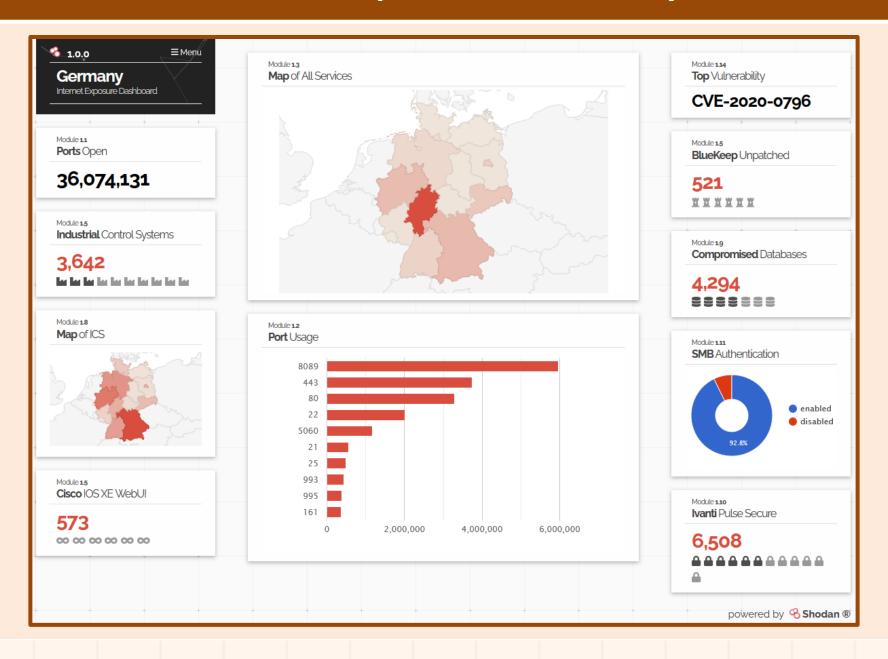


German landscape

Definition and Statistics



Internet Exposure Observatory



Top in Germany - SMBGhost - CVE-2020-0796

EternalBlue - MS17-010 - CVE-2017-0144

CVE-2020-0796

10.0 A remote code execution vulnerability exists in the way that the Microsoft Server Message Block 3.1.1 (SMBv3) protocol handles certain requests. An attacker who successfully exploited the vulnerability could gain the ability to execute code on the target server or client.

27,260

TOTAL RESULTS

TOP CITIES				
Berlin	8,991			
Frankfurt am Main	6,750			
Falkenstein	4,562			
Düsseldorf	2,746			
Nürnberg	1,558			
More				

MS17-010

18.1 This security update resolves vulnerabilities in Microsoft Windows. The most severe of the vulnerabilities could allow remote code execution if an attacker sends specially crafted messages to a Microsoft Server Message Block 1.0 (SMBv1) server. This security update is rated Critical for all supported releases of Microsoft Windows.

211

TOTAL RESULTS

TOP CITIES	
Nürnberg	89
Frankfurt am Main	52
Falkenstein	33
Berlin	6
Düsseldorf	4

More...

More...

Germany - Shodan.io - Search Engine for Internet Of Things

Heartbleed - CVE-2014-0160 Logjam - CVE-2022-32548 CVE-2014-0160 5.0 The (1) TLS and (2) DTLS implementations in OpenSSL 1.0.1 before 1.0.1g do not properly handle 10.0 Unauthenticated Remote Code Execution in a Wide Range of DrayTek Vigor Routers CVE-2022-32548 Heartbeat Extension packets, which allows remote attackers to obtain sensitive information from process memory via crafted packets that trigger a buffer over-read, as demonstrated by reading private keys, related to d1_both.c and t1_lib.c, aka the Heartbleed bug. TOTAL RESULTS TOTAL RESULTS 2,143 3,346 TOP CITIES TOP CITIES 156 Berlin 699 Frankfurt am Main Hamburg 105 Falkenstein 633 Frankfurt am Main 68 462 Berlin 55 Munich 292 Stuttgart Köln Dresden 165

More...

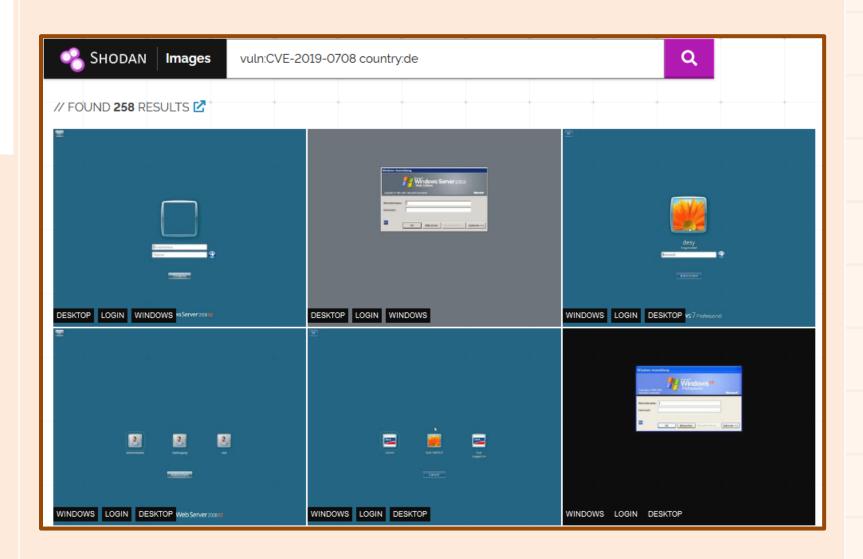


BlueKeep - CVE-2019-0708

CVE-2019-0708

A remote code execution vulnerability exists in Remote Desktop Services formerly known as Terminal Services when an unauthenticated attacker connects to the target system using RDP and sends specially crafted requests, aka 'Remote Desktop Services Remote Code Execution Vulnerability'.

TOTAL RESULTS 552 TOP CITIES Frankfurt am Main 147 Berlin 88 Falkenstein 40 Düsseldorf 33 Dresden 26 More...

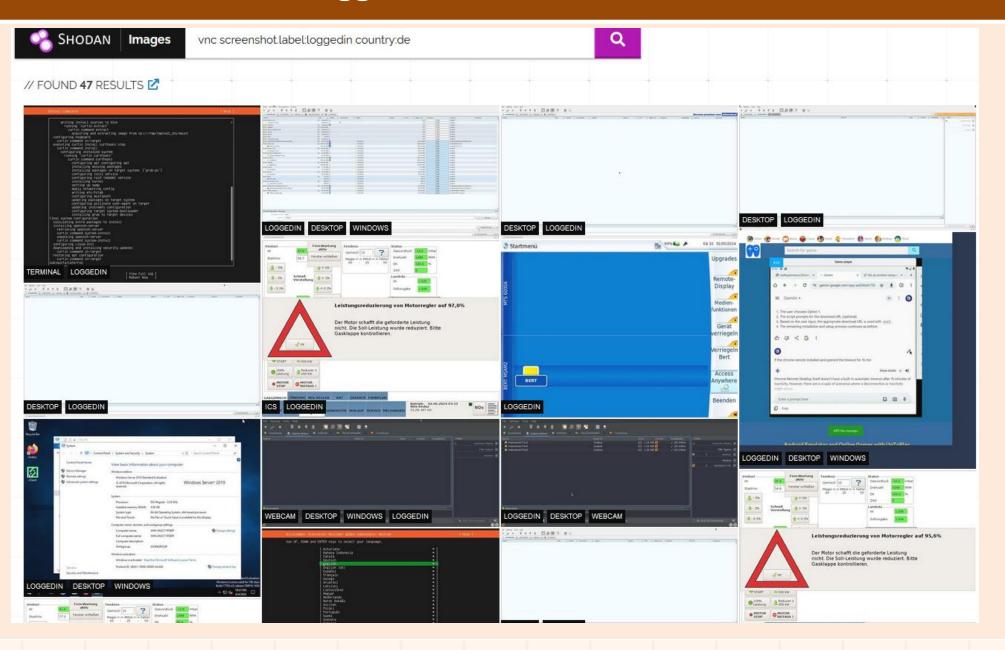


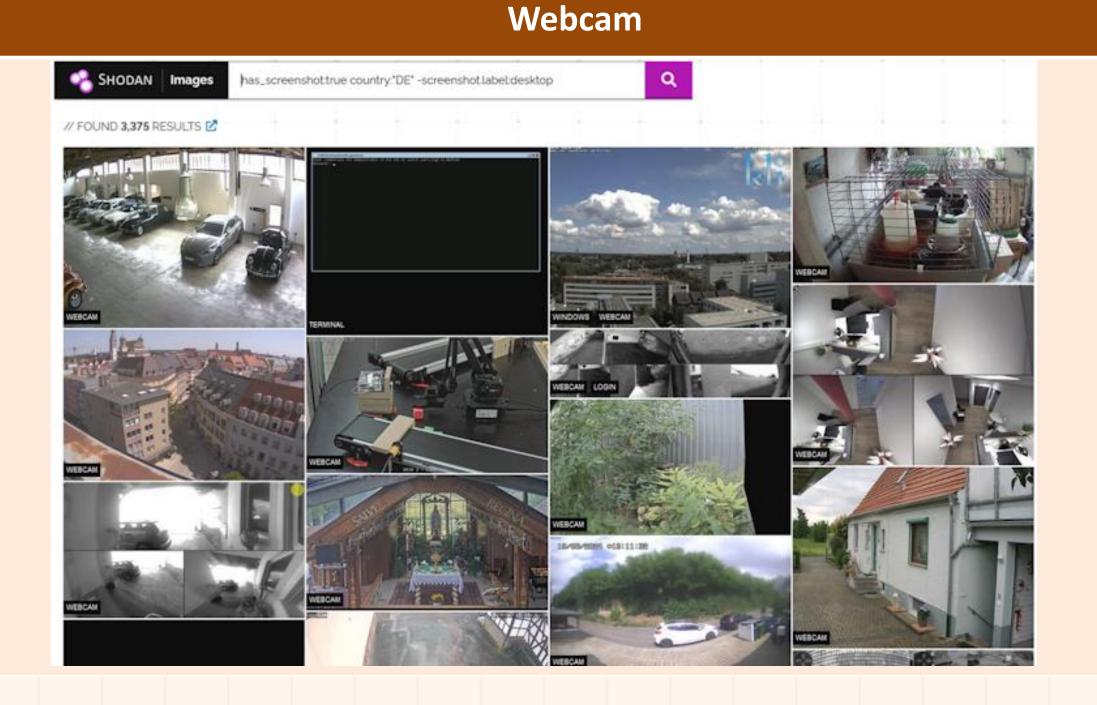
Shared Folders

TOTAL RESULTS	
4,522	
TOP CITIES	
Frankfurt am Main	1,566
Falkenstein	743
Nürnberg	473
Düsseldorf	406
Berlin	375
More	

SMB Status: Authentication: disabled SMB Version: 2 Capabilities: raw-mode		Shares Name	Туре		Comments	
			backup	Disk		Intra2net Business Server backup
Shares			restore IPC\$	Disk IPC		<pre>Intra2net Business Server backup restore IPC Service (Intra2net - i2n)</pre>
Name	Туре	Comments				21 C Sel Vice (includence includence
profiles users	Disk Disk	Network Prof All users	Shares Name	Тур	<u>.</u>	Comments
groups	Disk	All groups	ADMIN\$	Disl	c	Remote Admin
print\$ service-update prog	Disk Disk Disk	Printer Driv Temp Diehl Progra	C\$ TPC\$	Dis IPC	-	Default share Remote IPC
GDL4-DATEN GDL4-CRM DEMO-DV-IMPORT	Disk Disk Disk	Shares Name	Туре	Comments		
DEMO-DV-EXPORT	Disk	logs	Disk The recieved log files from customers.			
RDL3-CRM RDL3-DATEN	Disk Disk	IPC\$	IPC	IPC Service (U	ountu-	1804-bionic-64-minimal server (Samba, Ubuntu))
IPC\$ nobody		IPC Service Home Directo	•	1.3-git.385.dab50		

Logged In Remote Access





THANKYOU

Q & A

