

Headline Sponsors:



Clive Star

EWIRED

12-13 MARCH 2024

Cyber security director, KPMG

Oh no the (cyber) sky is falling ... for the 5th time this month

Cyber fatigue and what we can do to fix cyber with little time or money



Stage Sponsor:





Agend a

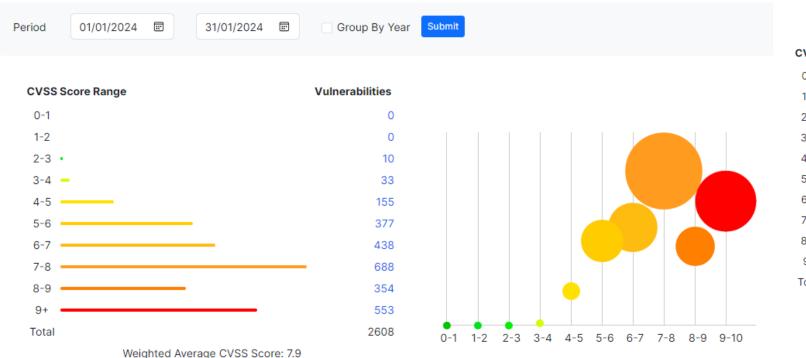
01 The sky is falling: The threat landscape

02 Some things we can do to stop the sky falling



Global Vulnerabilities

CVSS Scores Between 2024-01-01 and 2024-01-31



2023-01-01 and 2023-12-31

CVSS Score Range	Vulnerabilities
0-1 -	210
1-2	1
2-3	64
3-4 -	248
4-5	1901
5-6	5173
6-7	4639
7-8	- 7439
8-9	4224
9+	5166
Total	29065
Weighted Average CVSS Score: 7.	7

CVSS v3.0 Ratings

Severity Severity Score Range

None*	0.0
Low	0.1-3.9
Medium	4.0-6.9
High	7.0-8.9
Critical	9.0-10.0

Windows 10

Vulnerabilities by impact types

Year	Code Execution	Bypass	Privilege Escalation	Denial of Service	Information Leak
2015	19	1	25	4	5
2016	47	19	102	6	32
2017	50	2	65	32	106
2018	44	1	87	22	73
2019	143	1	153	34	102
2020	122	0	505	31	133
2021	114	0	205	38	83
2022	144	1	246	41	59
2023	18	0	18	14	14
Total	701	25	1406	222	607

Version	Released	Ceased
21H1	18/05/21	13/12/22
21H2	16/11/21	11/06/24
22H2	18/10/22	14/10/25

Last security update...it depends



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Windows Server 2012

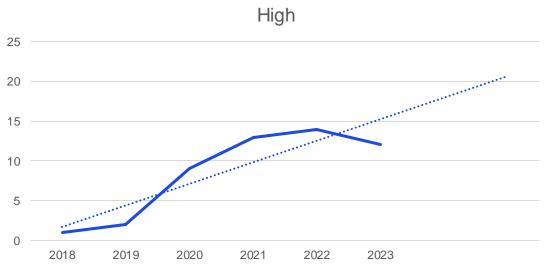
Vulnerabilities by impact types

Year	Code Execution	Bypass	Privilege Escalation	Denial of Service	Information Leak
2018	12	0	17	2	15
2019	138	1	144	35	99
2020	114	0	464	30	117
2021	122	0	180	37	77
2022	161	1	255	42	68
2023	179	0	167	83	80
2024	28	0	12	7	13
Total	754	2	1239	236	469

Last security update 10th October 2023 unless you purchased extended support



NHS England Cyber Alerts



https://digital.nhs.uk/cyber-alerts

CVE-2024-	* Public exploit exists	A Known Exploited Vulnerability	Max CVSS	9.1
			Published	2024-01-12
			Updated	2024-01-22
			EPSS	97.30%
			KEV Added	2024-01-10
CVE-2023			Max CVSS	10.0
			Published	2024-01-02
			Updated	2024-01-09
			EPSS	0.08%



6

What can we do with little time or money

Not run into Foxy Loxy's house....or send your cyber team there



Have a High Level Cyber Strategy

01

Our organisation is better able to manage our cyber risk



Our organisation can more quickly respond to and recover from a cyber attack





03

Our organisation is better able to protect patient, service user and staff data

04

People's trust in our digital systems is increased, so technological innovations can be applied with confidence



https://www.gov.uk/government/publications/cyber-security-strategy-for-health-and-social-care-2023-to-2030



Five Pillars



1. Focus on the greatest risks and barms

barns Getting maximum estate visibility and then identifying the areas where disruption would cause the greatest harm to patients, such as through sensitive information being leaked or critical services being unable to function.



2. Defend as

Obseces onboarded to the CSOC. Partner collaboration arrangements in place. Benefitting from national resources and expertise, enabling faster responses and minimising disruption.

3. People and culture Building on the current culture to

Building on the current culture to ensure leaders are engaged, the cyber workforce is grown and recognised, and relevant cyber basics training is offered to the general workforce.

5. Exemplary response and recovery Build and rehearse plans for

when you are attacked to minimise the impact and recovery time of a cyber incident. A focus on business continuity throughout.

4. Build secure for the future

buy or build then maintain to better protect it against cyber threat.



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Microsoft Defender for Endpoint

iii Microsoft 365 Defender			۶ کر	earch		¢ ?	MA	
≡ ⋒ Home	Weaknesses				TVM-2020-0002	$\uparrow \downarrow$	×	
 ⑦ Incidents ⑦ Incidents & alerts ∨ ② Actions & submissions ∨ 	Vulnerabilities in my organization	Exploitable vulnera		Critical vulnerabilities Ze	 Open vulnerability page R Report inaccuracy Vulnerability details Exposed devices Related software 			
 Threat analytics Secure score 	⊥ Export Name	Severity	CVSS	Related Software	Legal Notice The vulnerability data provided and shown as part of your Microsoft Defender for E			
유 Learning hub 꺔 Trials	 TVM-2020-0002 TVM-0001-00000000 	Critical	9.4 9.0	Solarwinds Orion Improvement	"AS IS", and may not be up to date. You bear the risk in using this data. Microsoft a consequential and other indirect damages and implied warranties, including implie a particular purpose. Vulnerability data may not be used separate from MDE.			
	CVE-2018-4069	Medium	5.9	Sierrawireless Airlink Es450 Firr Oracle Mysql (+ 18 more)	Vulnerability description Compromised legitimate SolarWinds Orion Platform binaries have been used chain attacks. Attackers can deploy malicious code and control the system wil are deployed and installed in target environments.			
Endpoints	CVE-2020-14650	Medium	5.3	Oracle Vm Virtualbox (+ 9 mor Sierrawireless Airlink Es450 Firr	Vulnerability details Vulnerability name Severit TVM-2020-0002 Immediate	·	Weaknesses	
Device inventory Vulnerability management Dashboard	CVE-2020-14649	High	7.5	Oracle Vm Virtualbox (+ 9 mor	CVSS CVSS V 9.4 3	/ersion	verity	CVSS
Recommendations Remediation	CVE-2022-35906	Low	3.3	Bentley Microstation (+ 1 more Bentley Microstation (+ 1 more	Published on Update 12/15/2020 12/15/20	ed on	,	
Inventories Weaknesses Event timeline	CVE-2022-35904	Low	3.3	Bentley Microstation (+ 1 more	5	d software nds Orion Improvement Program (+ 6 more)	Critical	9.4
고 Tutorials Gal Configuration management ^	CVE-2022-35903	Low Low	3.3	Bentley Microstation (+ 1 more Bentley Microstation (+ 1 more	Public Verifier No No			2
Device configuration	CVE-2022-35901	Low	3.3	Bentley Microstation (+ 1 more Rentley Microstation (+ 1 more	Exploit kits Type		·	



People and Culture

01 Board buy in

• When was the last time your board had a cyber briefing?

02 Shift left

• Cyber is thought about by people buying new things, people maintaining things, people using things.

Leverage free training

 ISC2 entry level cybersecurity training

03



Build Secure for the Future





Exemplary response and recovery





Thank You!

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