

SEC4U



...more than software,
your IT partner

13/03/2024

Sicurezza ICT

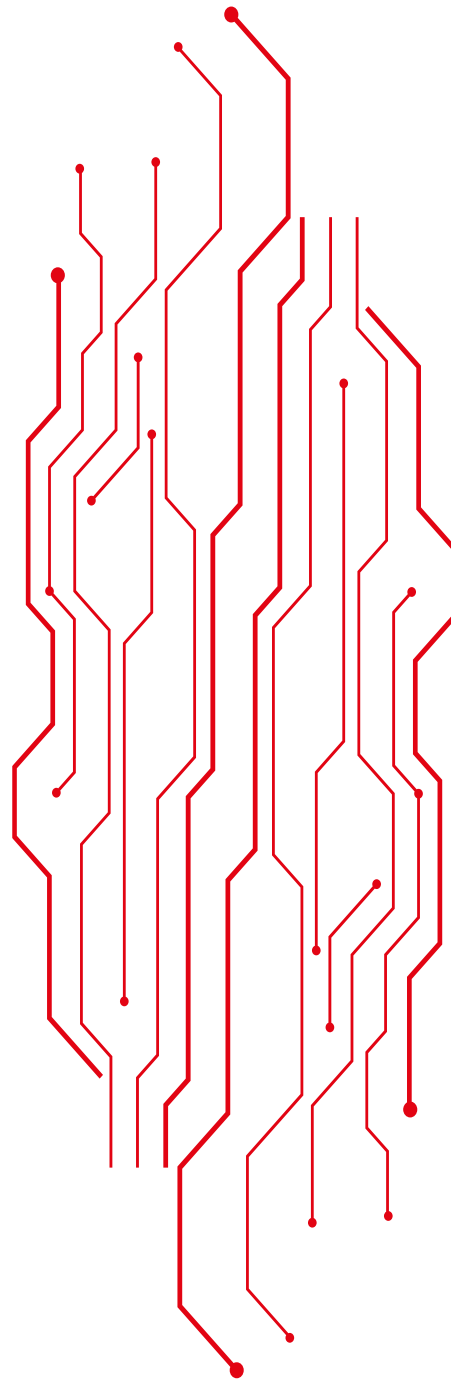
MILANO 28 Febbraio 2024


WÜRTHPHOENIX



**Are we really sure that
a vulnerability with a CVSS
10 rating will cause the end
of the world?**

CVSS



EPSS

What is CVSS?

The **Common Vulnerability Scoring System** is a standard metric in cybersecurity that quantifies the severity of vulnerabilities with a numerical score. CVSS helps prioritize responses to security threats efficiently.

Standard

IT provides a standardized method for assessing and scoring the severity of vulnerabilities from 0 to 10 across different systems and organizations

Metrics-based

It considers various factors such as exploitability, impact, and complexity to assign a numerical score to vulnerabilities.

Consistent

It allows organizations to compare and prioritize vulnerabilities to meet needs and risk management strategies

published by



...and what about EPSS?

The **Exploit Prediction Scoring System** offers a probabilistic approach to vulnerability management. It is a data-driven model that estimates the likelihood of a software vulnerability being actively exploited in the next 30 days.

● Data-driven

It relies on historical data and daily exploitations activities to generate its predictions

● Probabilistic

It assigns scores between 0 and 1, representing the likelihood of a vulnerability being exploited

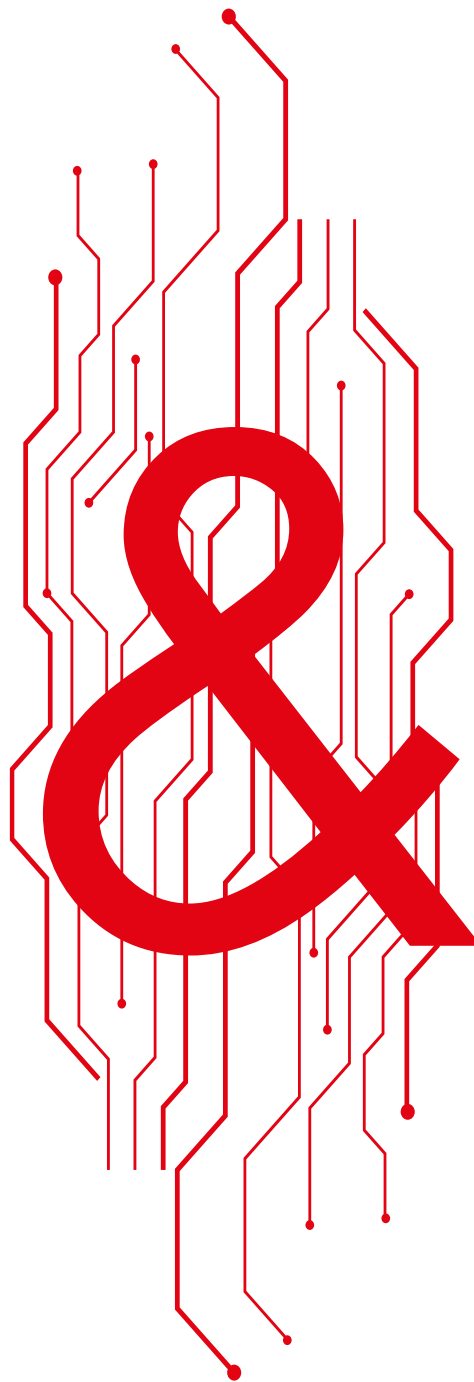
● Actionable

It helps prioritize patching efforts by highlighting vulnerabilities with a higher chance of real-world exploitation

published by



CVSS



EPSS

Cisco EOL Software vulnerability

CVE-2021-1459

published in April 2021

Cisco affected products:

- Firewall VPN Wireless-N RV110W
- Router VPN RV130
- Router VPN Wireless-N RV130W
- Router VPN Wireless-N RV215W

Software support ended December 2020

CVSS

9.8

EPSS

0.24%

SPOILER

It's not the end of the world!

<https://www.cisco.com/c/en/us/products/collateral/routers/small-business-rv-series-routers/eos-eol-notice-c51-742771.pdf>

A new Cisco vulnerability

CVE-2023-20198

published in October 2023

CVSS

10.0

EPSS

91.92%

OMG!



Example 2

A new Cisco vulnerability

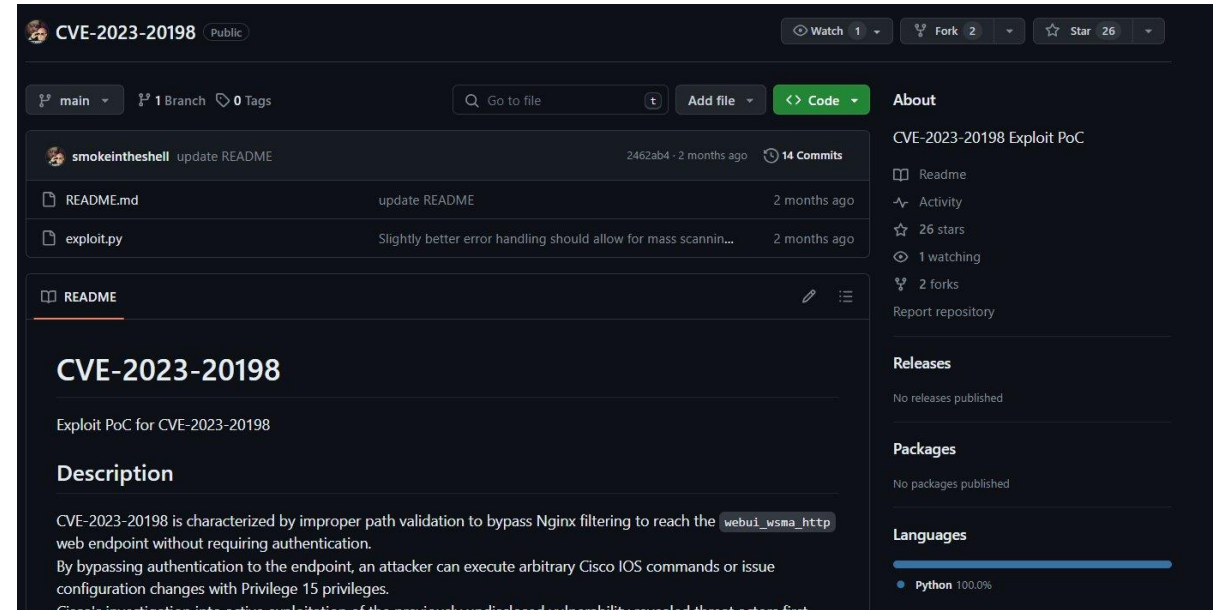
CVE-2023-20198

published in October 2023

CVSS
10.0

EPSS
91.92%

OMG!



<https://github.com/smokeintheshell/CVE-2023-20198>



What to do about the future?

CVSS	EPSS
6.5 MEDIUM V31	0.19% LOW
5.5 MEDIUM V31	0.04% LOW
5.9 MEDIUM V31	65.66% MEDIUM
7.5 HIGH V31	64.48% MEDIUM
7.5 HIGH V31	64.48% MEDIUM
7.5 HIGH V31	64.48% MEDIUM
9.8 CRITICAL V31	1.01% LOW
7.1 HIGH V31	0.06% LOW

Use EPSS together with CVSS in your Threat Intelligence activities to give better insights on the detected vulnerability

Opening ticket criteria:

- CVSS > 9.0
- CVSS > 7.0 and EPSS > 80%

Integrate EPSS in your SOC to improve your vulnerability management monthly process

Opening ticket criteria:

- CVSS > 5.0
- CVSS > 5.0 and EPSS > 60%

Summary

The remote SSL/TLS service is prone to a denial of service (DoS) vulnerability.

CVSS	5.0
Severity	Medium
CVE	CVE-2011-1473,CVE-2011-5094
EPSS	73,73%

- Microsoft Windows SMB Server Multiple Vulnerabilities-Remote (4013389)

Priority: ALTA

Severity: ALTO

Descrizione:

Questo host non dispone di un aggiornamento di sicurezza secondo il bollettino Microsoft MS17-010.

Impatto:

CVSS Score: 7.5
CVSS Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:H/A:H/MAV:A

EPSS (%):

97.45

Vulnerability ID:

CVE-2017-0143, CVE-2017-0144, CVE-2017-0145, CVE-2017-0146, CVE-2017-0147, CVE-2017-0148

Proof of Concept:

[Redacted]

Mitigazione:

Aggiornare all'ultima versione rilasciata dal vendor.

Target vulnerabili:

[Redacted]



Analyze EPSS in your vulnerability assessment activities



Not sure where to start?

Check FIRST's list of vendors using EPSS

Vendor	Product	Link
Würth Phoenix	SATAYO CTI Platform	https://www.neteye-blog.com/2023/12/epss-implementation-in-satayo/
AppSoc	Risk-Based Application Security Posture Management	https://www.appsoc.com/
Aqua Security	Aqua Workload Protection	https://support.aquasec.com/support/solutions/articles/16000166626-2023-september-saas-upd
Armis	Armis Asset Vulnerability Management module	https://www.armis.com/integrations/exploit-prediction-scoring-system-epss/
Armorcode	Risk-Based Vulnerability Management	https://www.armorcode.com/blog/epss-and-risk-based-vulnerability-prioritization
Avalor	Avalor Security Data Fabric	https://www.avalor.io/integrations
AWS	Inspector	https://aws.amazon.com/about-aws/whats-new/2023/07/amazon-inspector-vulnerability-intellige
Axonius	Vulnerability Management Module	https://docs.axonius.com/docs/vulnerabilities
Backlash	Reachability SAST/SCA	www.backslash.security

https://www.first.org/epss/who_is_using/

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