



MONTHLY VULNERABILITY INSIGHTS

Based on Data from Secunia Research

FEBRUARY 2024

flexeraTM

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Contents

Introduction.....	3
Secunia Research software vulnerability tracking process	3
The anatomy of a Security Advisory	3
Summary	4
Year-to-date overview	5
Monthly data	6
Vulnerability information.....	6
Advisories by attack vector	6
Advisories by criticality.....	6
Advisories per day	7
Rejected advisories.	8
.....	8
Addressing awareness with vulnerability insights	9
Vendor view	10
Top vendors with the most advisories	10
Top vendors with zero-day.....	11
Top Vendors with highest average threat score	11
Browser-related advisories	12
Advisories per browser	12
Browser zero-day vulnerabilities.....	12
Average CVSS (criticality) score per browser	12
Average threat score per browser	12
What’s the Attack Vector?	12
Networking related advisories	13
Threat intelligence	14
Count of malware-exploited CVEs.....	14
Count of advisories by CVE threat score	14
Threat intelligence advisory statistics:.....	14
Patching	15
Vulnerabilities that are vendor patched	15
Flexera’s Vendor Patch Module (VPM) statistics	15
This month’s top vendor patches	15
Other sources	16
CISA	16
This months’ the additions to the KEV catalog	16
Due Date this month	17
More information	18

Introduction

Welcome to our Monthly Vulnerability Insights by Flexera. This comprehensive, monthly review is based upon data from the Secunia Research team at Flexera who produces valuable advisories leveraged by users of Flexera’s [Software Vulnerability Research](#) and [Software Vulnerability Manager](#) solutions.

The Secunia Research team is comprised of several security specialists who methodically test, verify and validate disclosed vulnerabilities from hundreds of sources. Since the founding of the Secunia Research team in 2002, it has been our goal to provide the most accurate and reliable source of vulnerability intelligence.

Secunia Research software vulnerability tracking process

A vulnerability is an error in software which can be exploited with a security impact and gain. Secunia Research validates, verifies and tests vulnerability information to author security advisories which provide valuable details by following consistent and standard processes which have been refined over the years.

Whenever a new vulnerability is reported, it’s verified and a Secunia Advisory is published. A Secunia Advisory provides details, including description of the vulnerability, risk rating, impact, attack vector, recommended mitigation, credits, references and more, including additional details discovered during verification and testing, thus providing the information required to make appropriate decisions about how to protect systems. Click here to learn more about [Secunia Advisories and their contents](#).

The anatomy of a Security Advisory

A security advisory is a summary of the work that Secunia Research performs to communicate standardized, validated and enriched vulnerability research on a specific software product version.

We issue Secunia Research criticality ratings and common vulnerability scoring system (CVSS) metrics after a distinct analysis in the advisories. This dual rating method allows for a much-improved means of prioritizing by criticality—delivering a review that includes product context and related security best practices.

A *rejection advisory* issued by the research team issues means we’ve determined it’s not worthy of your attention. This advisory comes if a vendor issues an advisory acknowledging vulnerability that we don’t believe to be valid—and would have a product solution we aren’t recommending or exceeding already. We send that out to save you considerable time.

If someone other than the vendor issues an advisory and we don’t believe to be valid, we discard it. We take that action so you don’t waste your time processing inconsequential vulnerability information.

[check out this infographic.](#)



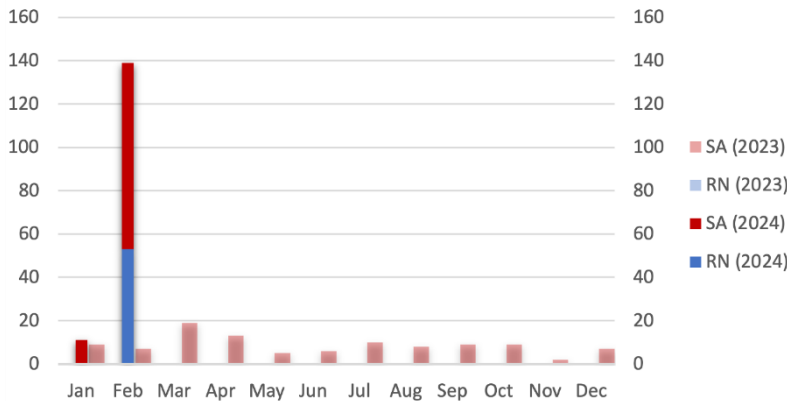
Summary

Total advisories: **992** ↑ (last month: **899**)

This year started with a relative high number (third highest in past 12 months) of advisories.

A notable trend that our Research Team has detected is that there is a high increase of **Linux Kernel** vulnerabilities.

Linux Kernel SA / RN Content 2023 / 2024



There are some concerns about this increase:

- Many of these “vulnerabilities” are not really vulnerabilities and descriptions are “fuzzy” at best. (see rejections)
- It seems like “spring cleaning” where they issue CVE’s for ager-old GIT commit fixes.
- Or worst, users are “forced” to adapt to Kernel version updates instead of picking GIT Commits.

The result is a high workload on not only vulnerability researchers around the world, but also organizations having Linux assets.

Important **conclusions** from this month report are:

- Less than half (**49.29%**) of all vulnerabilities reported in this month have a “[Remote Attack Vector](#)” (last month **58%**)

The Secunia Research Team reported **1 Extremely** (related to CVE-2024-21762) critical advisory this month. (Last month: **9**)

- **5 Zero-Day** Advisories reported. (last month :10) for mostly **Fortinet and Microsoft**.
- Threat Intelligence indicates again that **Moderately Critical Vulnerabilities** are targeted by hackers.
- This month **218** advisories contain at least one vulnerability linked to a **Recent Cyber Exploit**
- More than **half** of all advisories are disclosed by these 4 usual (Linux) suspect vendors (**SUSE, Linux, Red Hat, Amazon**)
- Interestingly among these vendors are also the ones with the most **rejected advisories**:
 - **Linux Foundation**: 37 out of 141 advisories were rejected by the Secunia Research Team.
 - **Amazon**: 14 out of 141
 - **SUSE**: 9 out of 141
 - **Red Hat**: 7 out of 141
- **F5 and QNAP Systems** contributed to more than half of all Networking related Advisories this month.

Last month we reported that 74.86% of all Secunia Advisories had a **Threat** (exploits, malware, ransomware, etc.) associated with them, **this month** the number has been a **little lower** to **66.53%**

Using Threat Intelligence is going to help you with prioritizing what needs to be **patched** immediately.

Software Vulnerability – and Patch Management is becoming more and more important.

Due to the ongoing global threats, attacks on critical infrastructures in many countries are increasing.

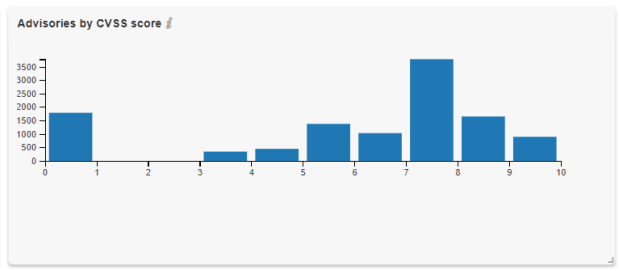
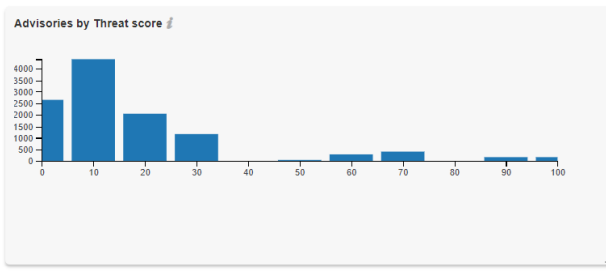
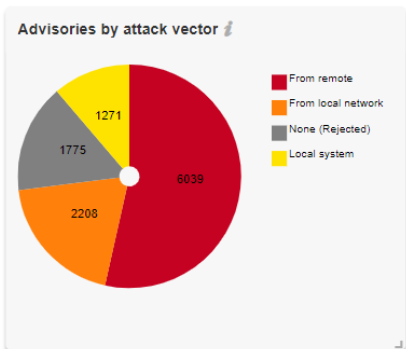
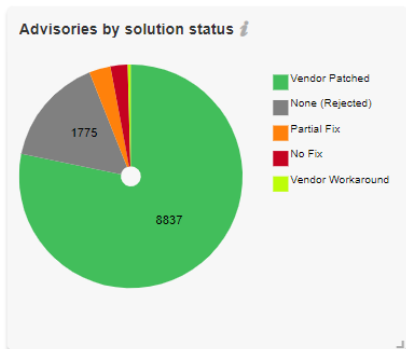
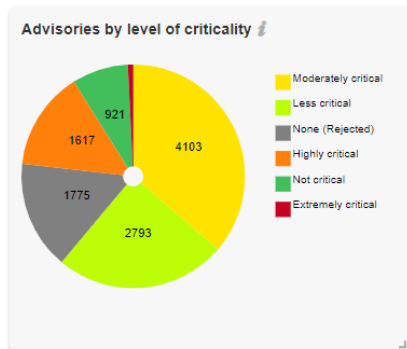
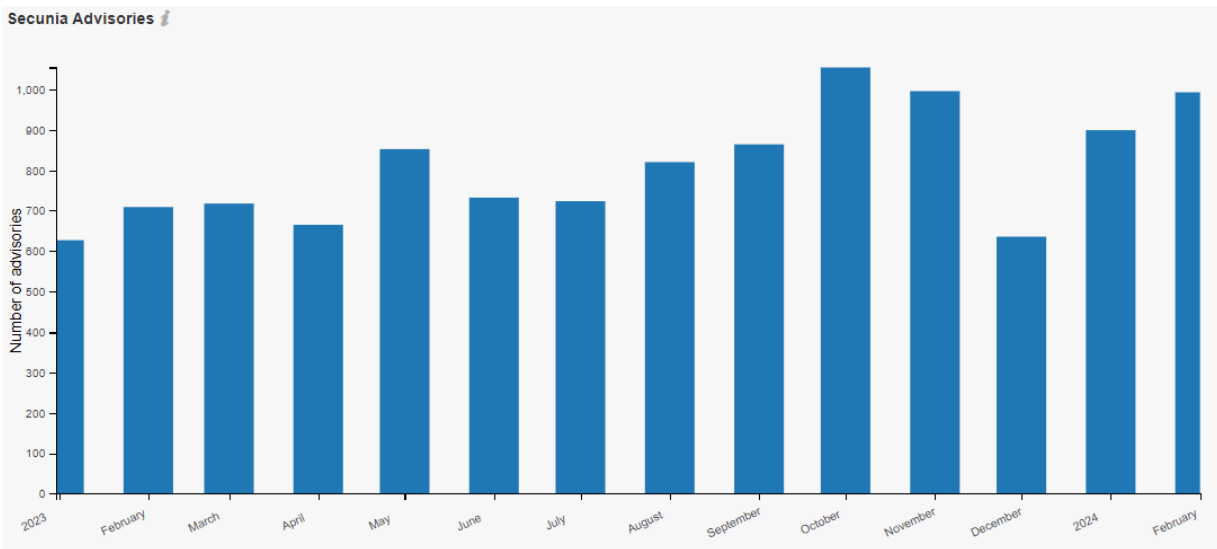
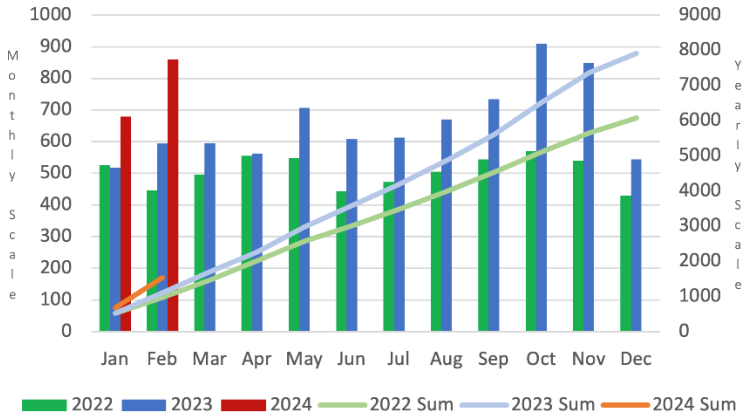
Back in 2019 (just before Covid) patching was recommended within 30 days (or 14 days for CVSS score 7 or higher)

Right now, hackers can deploy exploits **within 1 week** and even within **24 hours**. This means that organizations need to prioritize even better to quickly patch vulnerabilities (especially the ones with threats associated with them)

Year-to-date overview

As of **February 29, 2024**, the year-to-date total is at **1,891** Advisories **↑** which is higher than 2023: **1,335** YTD Advisories)

Secunia Advisories 2024 versus Record Years 2023 and 2022



Monthly data

This month, a total of **992** ↓ (last month: **899**) advisories were reported by the Secunia Research Team.

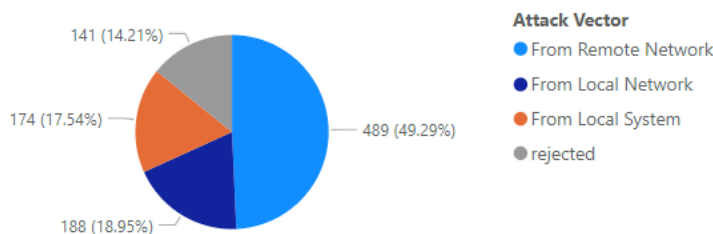
This month:	#	Change (last month):
Total # of advisories	992	↑ (899)
Unique Vendors	93	↑ (85)
Unique Products	438	↑ (318)
Unique Versions	508	↑ (413)
Rejected Advisories *	141	↑ (134)
Total Unique CVE ID's reported	2,024	↑ (1,766)

↑ increased ↓ lower ↔ same

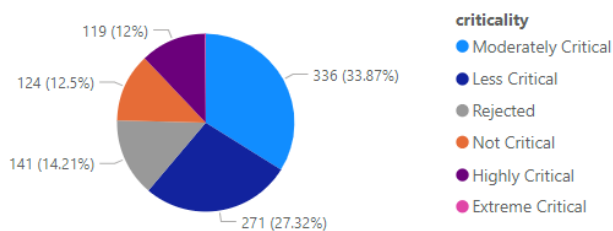
* **141** advisories have received the "rejected" status which means in general that leveraging it would require one or more violations of security best practices (e.g., product not securely configured or not used securely) or that it was "too weak of a gain" (e.g., administrative, local users already being too privileged so that additional gain becomes neglectable). More information about rejections can be found in the rejection section.

Vulnerability information

Advisories by attack vector



Advisories by criticality

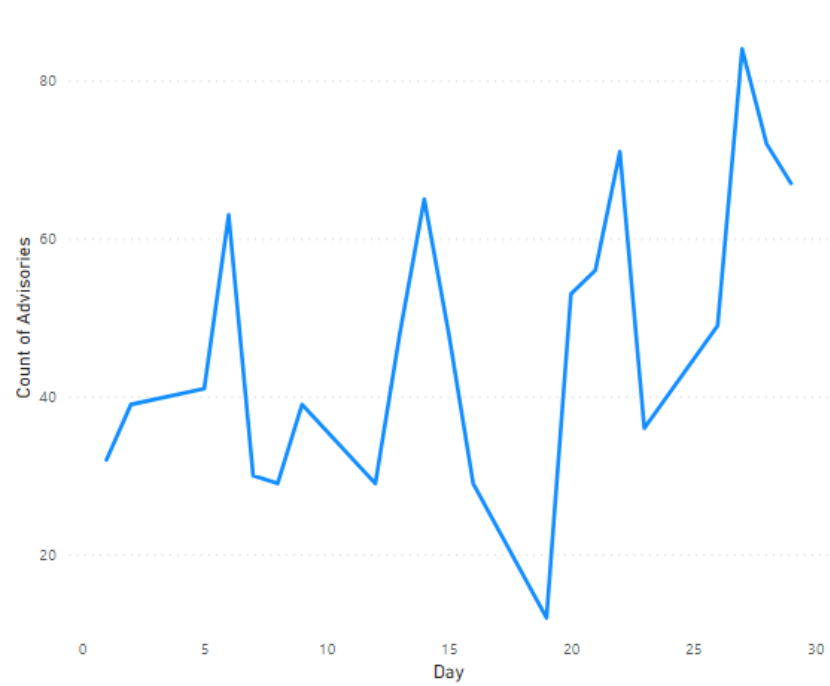


Advisories per day

Below an overview of the daily advisory count.

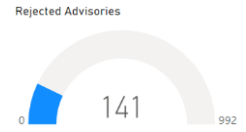
Year	Month	Day	# of Advisories
2024	February	1	32
2024	February	2	39
2024	February	5	41
2024	February	6	63
2024	February	7	30
2024	February	8	29
2024	February	9	39
2024	February	12	29
2024	February	13	48
2024	February	14	65
2024	February	15	48
2024	February	16	29
2024	February	19	12
2024	February	20	53
2024	February	21	56
2024	February	22	71
2024	February	23	36
2024	February	26	49
2024	February	27	84
2024	February	28	72
2024	February	29	67
Total			992

Count of Advisories by Day



Rejected advisories.

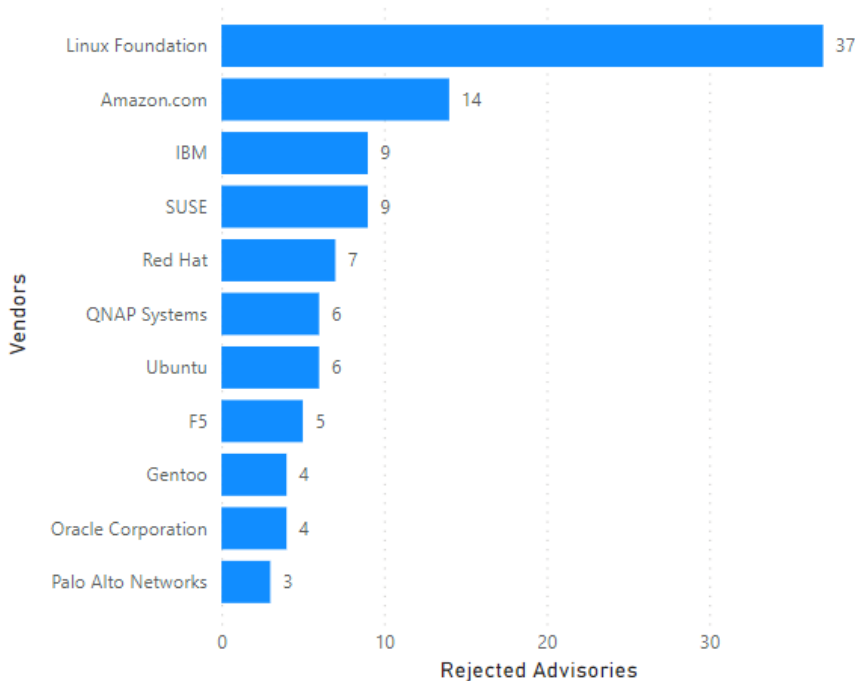
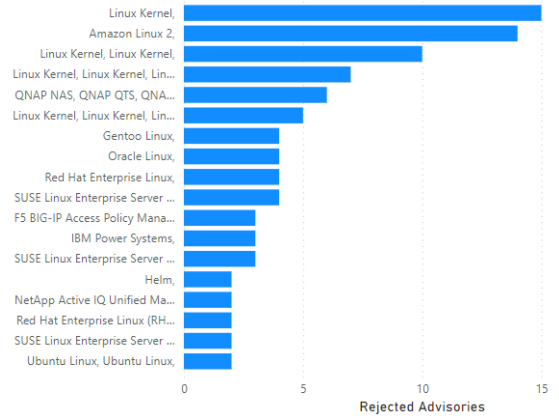
There are many vulnerabilities posted to the National Vulnerability Database (NVD) by a lot of people and companies. They are not always valid, assigned a proper criticality, and in some cases, a vulnerability may be legitimate but not afford the attacker any benefit.



The Secunia Research team at Flexera evaluates vulnerabilities from hundreds of sources, rescors them when necessary and even rejects vulnerabilities not worth your attention. Rejection Advisories help you to reduce the volume of vulnerabilities to be mitigated by helping you focus only on those that present a reasonable risk to your environment.

An advisory may be rejected many reasons. The most common are:

- No reachability**
 The vulnerability cannot be exploited because the affected systems cannot be reached by an attacker.
- No gain**
 The vulnerability may be reached, but without any gain for the attacker.
- No exploitability**
 The vulnerability cannot be exploited because, for example, policy forbids installation of the affected software.
- Dependent on other**
 The vulnerability cannot be exploited by itself but depends on another vulnerability being present.



Addressing awareness with vulnerability insights

Prevalence:

- How many systems would benefit from any given security update?
- Does it pose a risk? It's on all systems? **Patch.**

Asset Sensitivity:

- What systems would result in the most risk if compromised?
- Is it a high-risk device? **Patch.**

Criticality:

- The most popular method of thoughtful prioritization.
- If exploited, how bad could it affect your security? Is it designated to be of a high criticality? **Patch.**

Threat Intelligence:

- The newest and most impactful method focuses on the likelihood of exploitation.
- Is it likely to be exploited? **Patch.**



How do we know that more insights/data is needed?

Focusing on vulnerabilities with CVSS 7 or higher would address about 50 percent of exploits. Most exploits are CVSS scored between 4 and 7. Focusing on vulnerabilities for the top 20 vendors would address only about 20 percent.

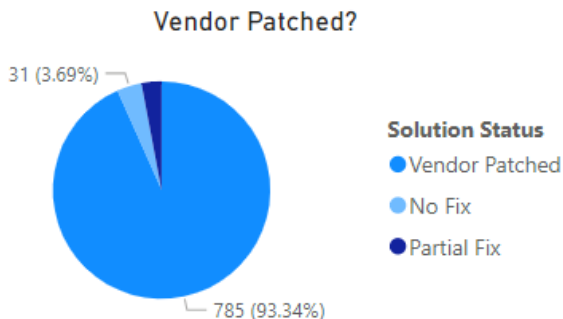
criticality	avg threat score x # of advisories
Moderately Critical	6,022.00
Less Critical	3,437.00
Highly Critical	3,047.00
Not Critical	780.00
Extreme Critical	82.00
Total	13,368.00

Take away 1:

Critical vulnerabilities do not necessarily present the most risk. Leverage threat intelligence to better prioritize what demands your most urgent attention. Organizations who do not have Threat Intelligence data should consider implementing this to ensure they have the complete picture.

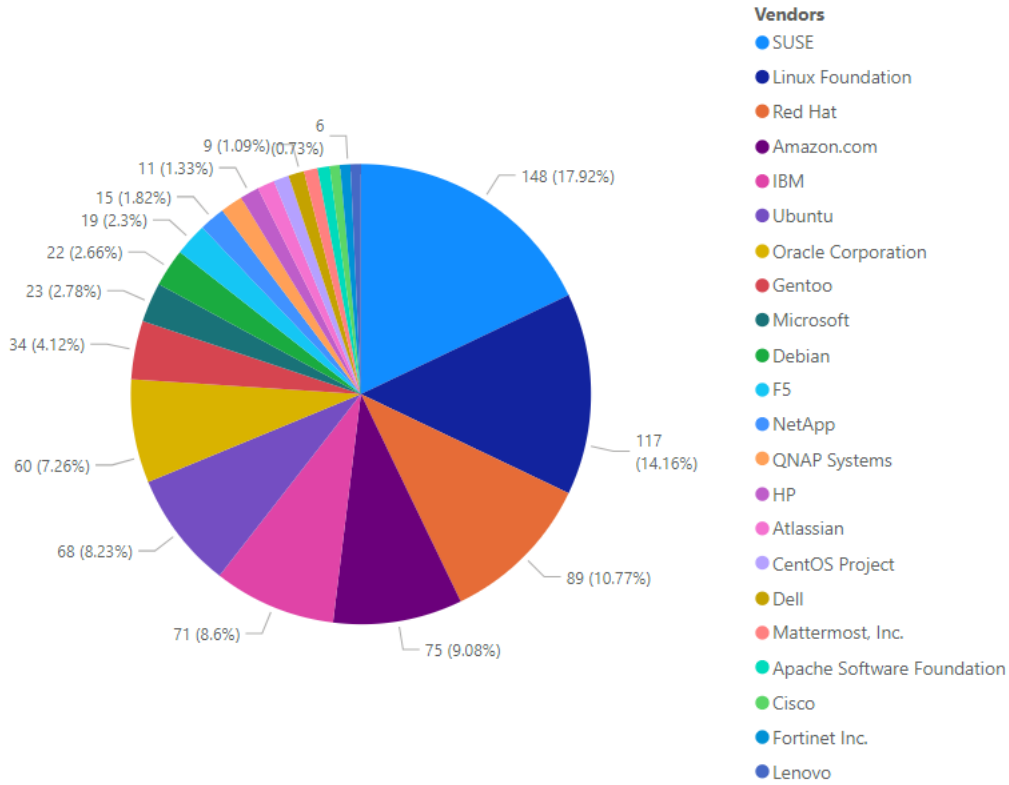
Take away 2:

Most vulnerabilities have a patch available (typically within 24 hours after disclosure).
(No fix : no patch available for this insecure version, therefore need to upgrade)

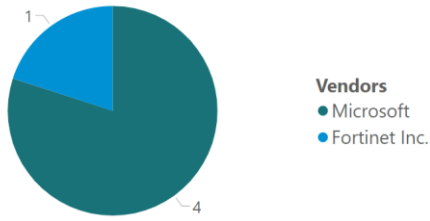


Vendor view

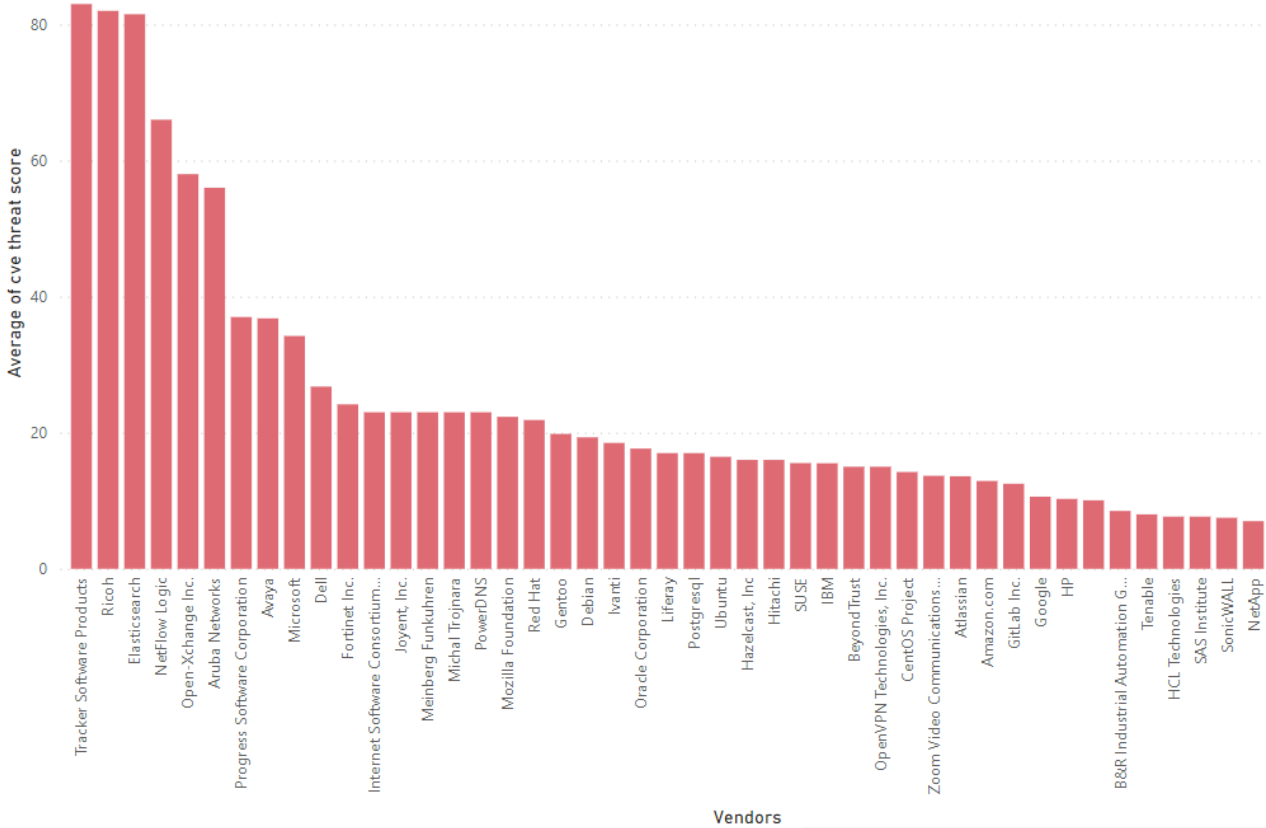
Top vendors with the most advisories



Top vendors with zero-day

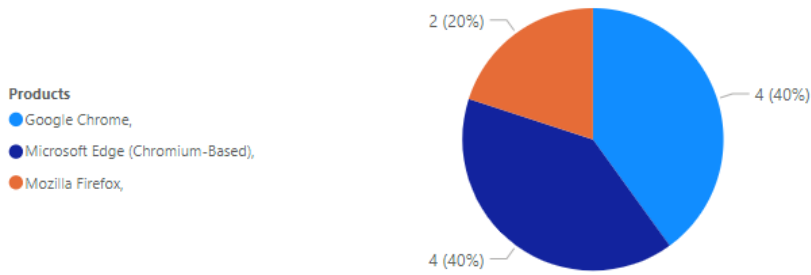


Top Vendors with highest average threat score



Browser-related advisories

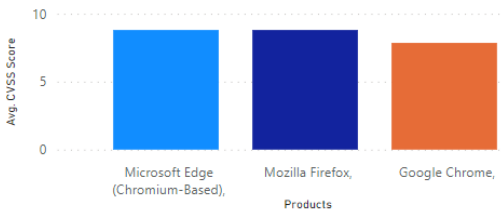
Advisories per browser



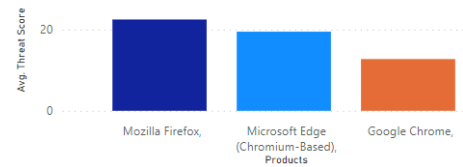
Browser zero-day vulnerabilities

No Browser Zero-days this month

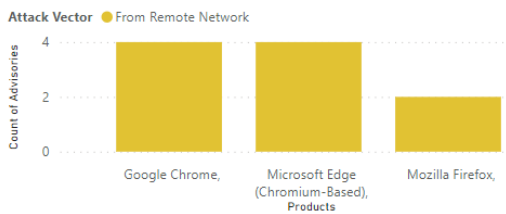
Average CVSS (criticality) score per browser



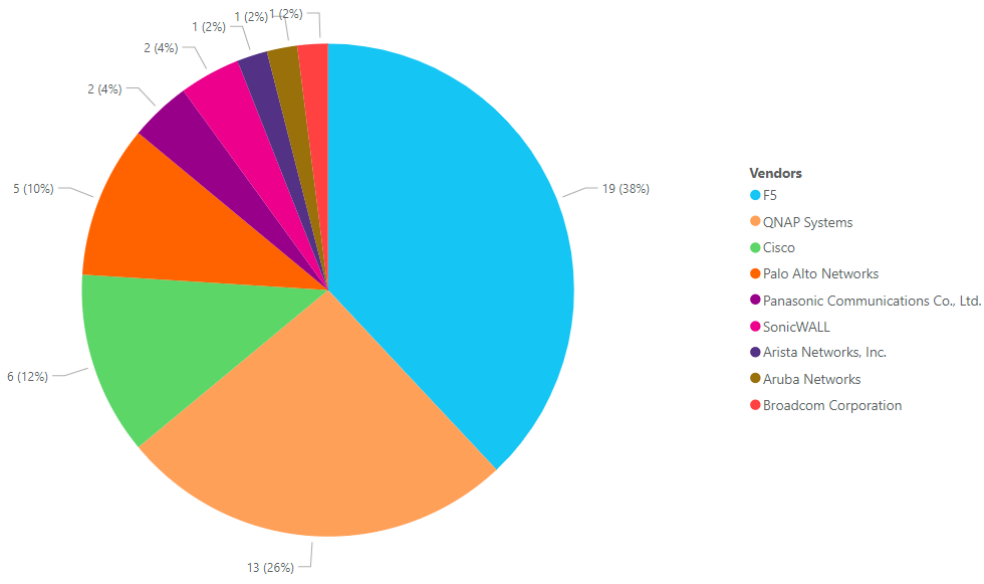
Average threat score per browser



What's the Attack Vector?



Networking related advisories

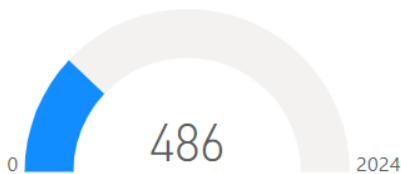


Threat intelligence

In a world where there are more than 18,000 new vulnerabilities every year, being smart about prioritizing remediation efforts is essential. Leveraging Threat Intelligence, another valuable layer of insight is provided to help you understand which of the vulnerabilities affecting your environment are actually being exploited in the wild.

Leveraging machine learning, artificial intelligence, and human curation from thousands of sources in the open, deep and dark web, Threat Intelligence augments Software Vulnerability Research’s vulnerability intelligence with a Threat Score that provides the ultimate prioritization tool for your busy desktop operations teams.

Count of malware-exploited CVEs



Count of advisories by CVE threat score



Threat intelligence advisory statistics:

SAIDs with a threat score (1+)	660 ↓ (673)	66.53%
SAIDs with no threat score (=0)	332 ↑ (226)	33.47%

SAID: Secunia Advisory Identifier

Range	# SAIDS	Last month
Medium-range threat score SAIDs (13-23)	432 ↓	(444)
Low-range threat score SAIDs (1-12)	169 ↑	(157)
Critical-range threat score SAIDs (45-70)	34 ↓	(45)
Very critical threat score SAIDs (71-99)	21 ↓	(22)
High-range threat score SAIDs (24-44)	4 ↓	(5)

More information about how the Secunia team calculates the threat score:

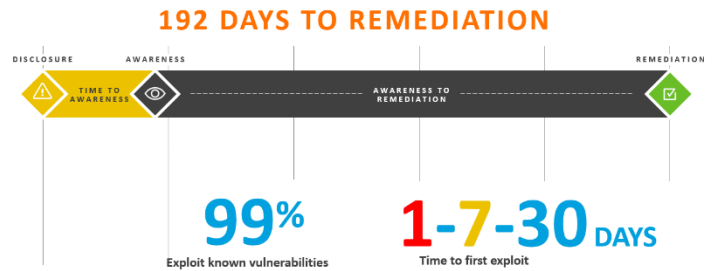
- [Evidence of exploitation](#)
- [Criteria for the threat Score Calculation](#)
- [Threat Score Calculation - Examples](#)

Patching

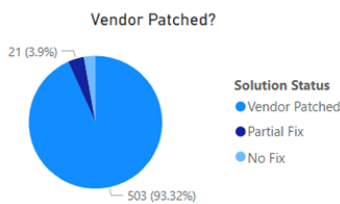
Most of this month's vulnerabilities are vendor patched. In fact, most vulnerabilities are patched within 24 hours after disclosure.

The challenge remains that organizations do not have full visibility or awareness when a vulnerability is disclosed (time to awareness). Another big challenge is the time to remediation (the time from having this information, correlating that with your environment and initiating the process to get the software updated to a secure version).

The Risk Window



Vulnerabilities that are vendor patched



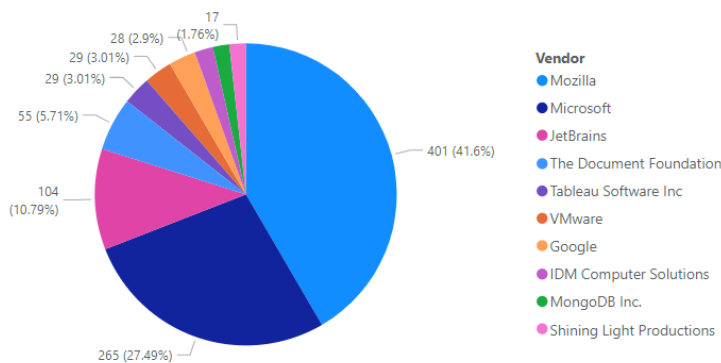
Flexera's Vendor Patch Module (VPM) statistics

Flexera has the largest third-party patch catalog (**More than 6,400**) in the world. This helps customers act quicker and save time by offering an integrated approach to effectively locate, prioritize threats and remediate them quickly to lower the risk to your organization.

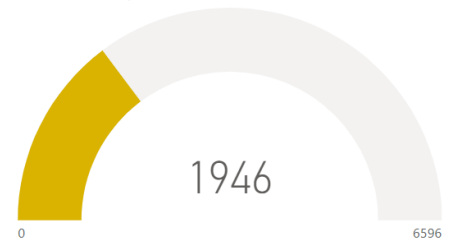
This month's top vendor patches

(Updated Patches per vendor, NOT including MS Patch Tuesday patches)

UPDATED Patches per vendor



Updated Vendor Patches this Month



Other sources

CISA



For the benefit of the cybersecurity community and network defenders—and to help every organization better manage vulnerabilities and keep pace with threat activity—CISA maintains the authoritative source of vulnerabilities that have been exploited in the wild: the Known Exploited Vulnerability (KEV) catalog. CISA strongly recommends all organizations review and monitor the KEV catalog and prioritize remediation of the listed vulnerabilities to reduce the likelihood of compromise by known threat actors.

This month's additions to the KEV catalog

First column "Day" is the date added to KEV Catalog.

Day	CVE	Vendor	Product	Month	Day
6	CVE-2023-4762	Google	Chromium V8	February	27
9	CVE-2024-21762	Fortinet	FortiOS	February	16
12	CVE-2023-43770	Roundcube	Webmail	March	4
13	CVE-2024-21351	Microsoft	Windows	March	5
13	CVE-2024-21412	Microsoft	Windows	March	5
15	CVE-2020-3259	Cisco	Adaptive Security Appliance (ASA) and Firepower Threat Defense (FTD)	March	7
15	CVE-2024-21410	Microsoft	Exchange Server	March	7
22	CVE-2024-1709	ConnectWise	ScreenConnect	February	29
29	CVE-2023-29360	Microsoft	Streaming Service	March	21

Due Date this month

CISA adds known exploited vulnerabilities to the catalog when there is a clear action for the affected organization to take. The remediation action referenced in [BOD 22-01](#) requires federal civilian executive branch (FCEB) agencies to take the following actions for all vulnerabilities in the KEV, and

CISA strongly encourages all organizations to do the same:

Month	Day	CVE	Vendor	Product
February	2	CVE-2024-21893	Ivanti	Connect Secure, Policy Secure, and Neurons
February	6	CVE-2018-15133	Laravel	Laravel Framework
February	7	CVE-2023-6549	Citrix	NetScaler ADC and NetScaler Gateway
February	7	CVE-2024-0519	Google	Chromium V8
February	8	CVE-2023-35082	Ivanti	Endpoint Manager Mobile (EPMM) and MobileIron Core
February	12	CVE-2023-34048	VMware	vCenter Server
February	13	CVE-2024-23222	Apple	Multiple Products
February	14	CVE-2023-22527	Atlassian	Confluence Data Center and Server
February	16	CVE-2024-21762	Fortinet	FortiOS
February	21	CVE-2022-48618	Apple	Multiple Products
February	27	CVE-2023-4762	Google	Chromium V8
February	29	CVE-2024-1709	ConnectWise	ScreenConnect

More information

Below are a few links with information about how Flexera can help you with creating an effective software vulnerability and patch management process to reduce security risk.

- [Flexera's Software Vulnerability Manager landing page](#)
- [Request a trial / demo](#)
- [Flexera's Community Pages](#) with lots of great resources of information including:
 - Software Vulnerability Management Blog
 - Software Vulnerability Management Knowledge Base
 - Product Documentation
 - Forum
 - Learning Center

About Flexera

Flexera delivers SaaS-based IT management solutions that enable enterprises to accelerate digital transformation and multiply the value of their technology investments. We help organizations inform their IT with unparalleled visibility into complex hybrid ecosystems. And we help them transform their IT with tools that deliver the actionable intelligence to effectively manage, govern and optimize their hybrid IT estate.

More than 50,000 customers subscribe to our technology value optimization solutions, delivered by 1,300+ passionate team members worldwide. To learn more, visit flexera.com