MONTHLY VULNERABILITY INSIGHTS

Based on Data from Secunia Research

OCTOBER 2021

Flexera

Inform IT. Transform IT.™

Contents

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 be 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 a consistent and standard processes, which have been refined over the years.

Whenever a new vulnerability is reported, it is verified and a Secunia Advisory is published. A Secunia Advisory provides details including description, risk rating, impact, attack vector, recommended mitigation, credits, references and more for the vulnerability – 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.

Summary

We've seen an increase again in vulnerabilities and threats for **October 2021**.
This is something we also see in the total advisories : 526 ↑ (was: 461) .

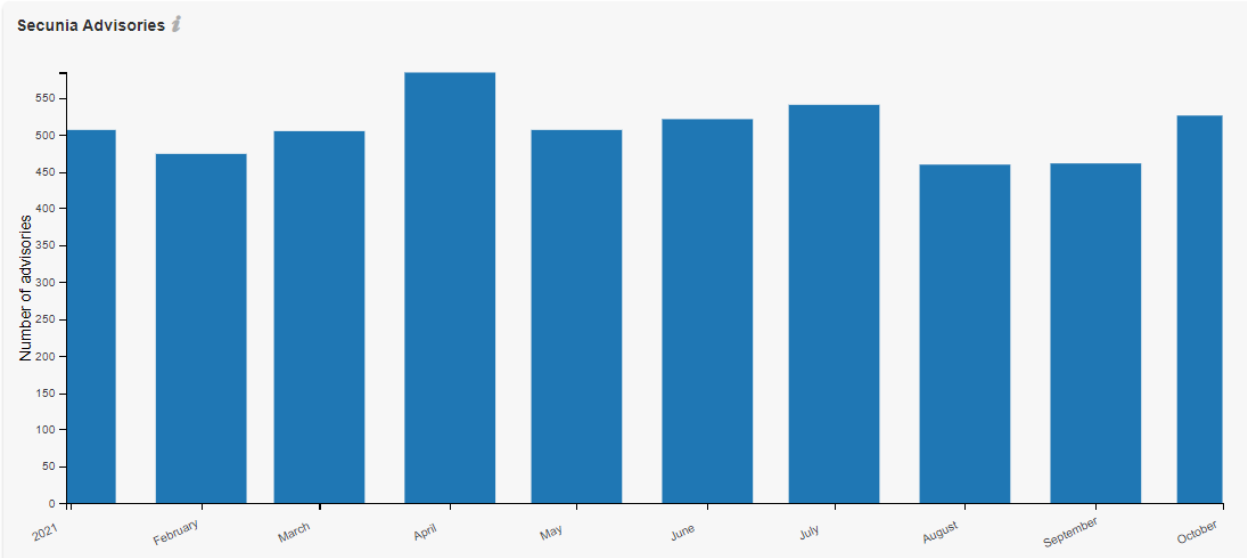
Less **Extreme Critical Vulnerabilities** : **2** ↓ after 14 were reported last month.

SAID	Release date	Modified date	Title	Criticality	Zero Day	Solution status	Where	CVSS Score	Threat Score	Type
SA104906	2021-10-29	2021-10-29	Google Chrome Multiple Vulnerabilities		Yes	Vendor Patched	From remote	8.8 v3	20	Secunia Advisory
SA104286	2021-10-01	2021-10-01	Microsoft Edge (Chromium-Based) Multiple Vulnerabilities		Yes	Vendor Patched	From remote	8.8 v3	93	Secunia Advisory

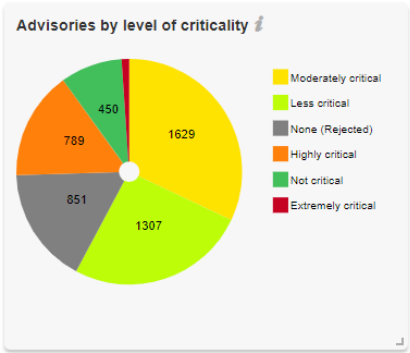
More news:
Google fixes their 15th and 16th Chrome zero-day this year (**CVE-2021-38000 and CVE-2021-38003**) , the most zero-day vulnerabilities since the release of Chrome (2008) and the year is not over yet.
Microsoft's earlier security update for **CVE-2021-**034484 is not sufficient and became a zero-day (again)
Apache
Oracle released the most advisories this month (**67**)
and second place **SUSE** with **59** advisories (including **20 rejected** advisories!)

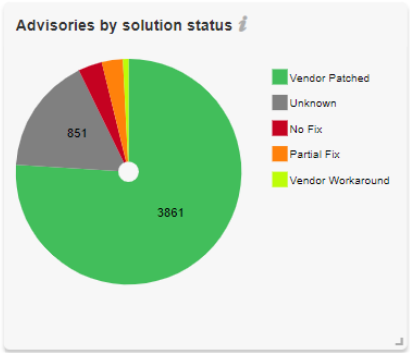
Year to Date Overview

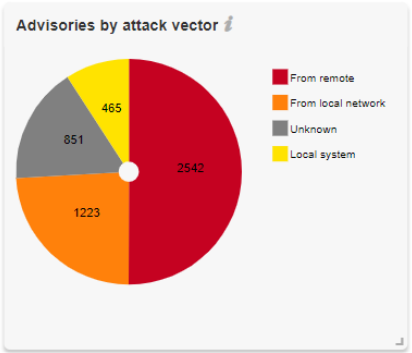
As of **October**, the year-to-date total is at **5081** Advisories ↓ which is lower than 2020 : **5926** YTD Advisories)



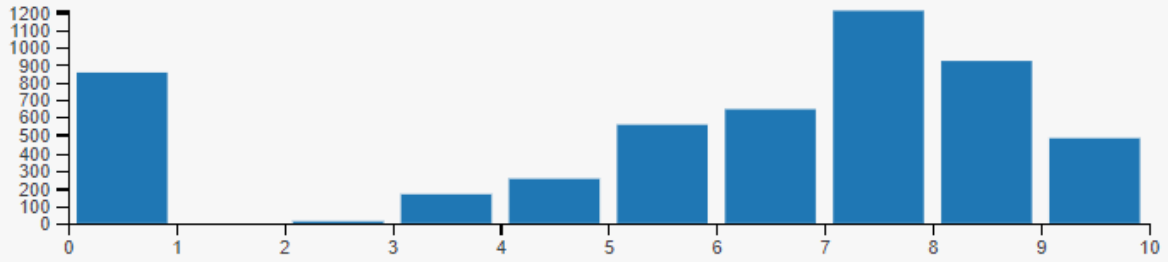
A relatively stable year compared with last year where we've seen spikes in April'20 and July'20.



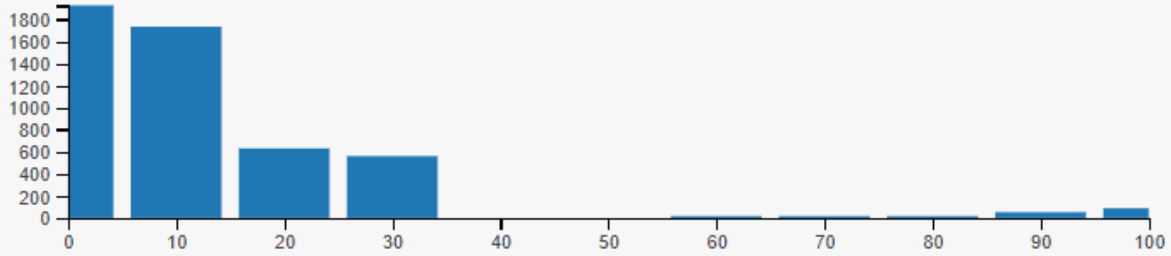




Advisories by CVSS score



Advisories by Threat score



Monthly Data

This month, a total of **461** ↑ advisories were reported by the Secunia Research Team.

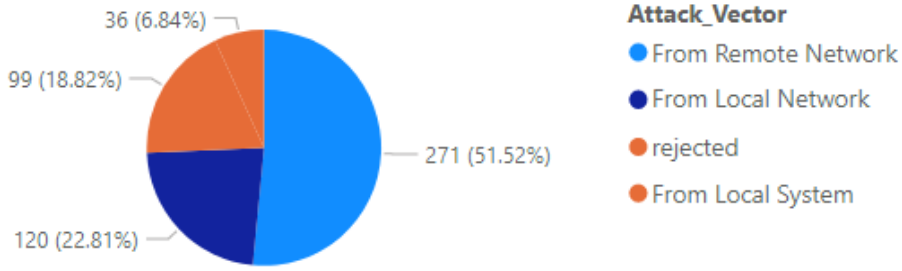
This Month:	#	Change *(last month):*
Total # of advisories	**526**	↑ *(461)*
Unique Vendors	**80**	↑ *(72)*
Unique Products	**328**	↑ *(307)*
Unique Versions	**410**	↓ *(414)*
Rejected Advisories *	**99**	↑ *(83)*

↑ increased ↓ lower ↔ same

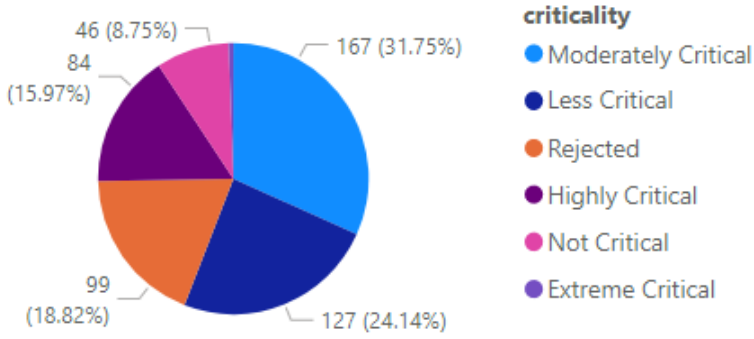
** **99** advisories have received the "rejected" status which means in general that leveraging it would require one or more violations of security best practices (e.g. product not securely configured or not used securely) or that it was "too weak of a gain" (e.g. administrative, local users already 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



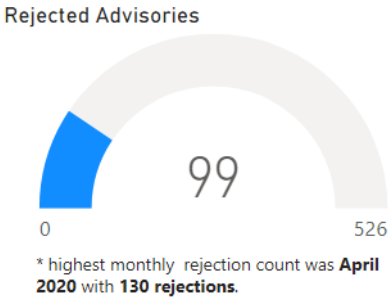
Advisories per Day

Below an overview of the daily advisory count.

Year	Month	Day	# of Advisories
2021	October	1	20
2021	October	4	10
2021	October	5	21
2021	October	6	27
2021	October	7	29
2021	October	8	8
2021	October	9	4
2021	October	11	20
2021	October	12	43
2021	October	13	37
2021	October	14	23
2021	October	15	21
2021	October	18	20
2021	October	19	9
2021	October	20	86
2021	October	21	26
2021	October	22	12
2021	October	23	2
2021	October	25	14
2021	October	26	20
2021	October	27	52
2021	October	28	9
2021	October	29	12
2021	November	1	1
Total			**526**

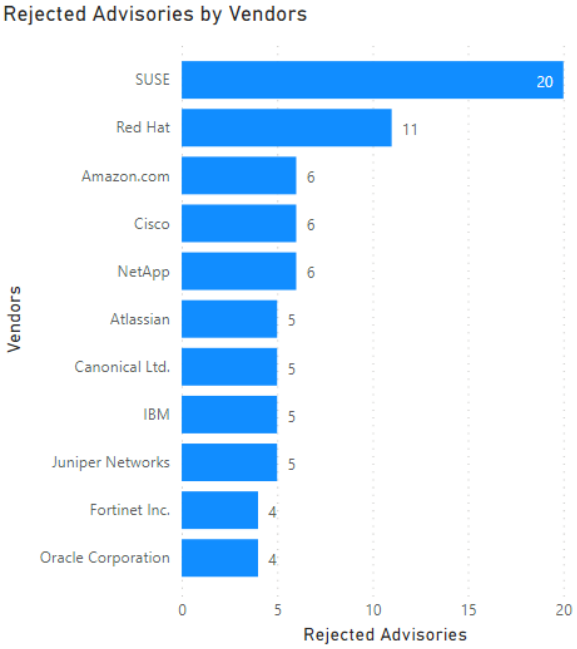
Rejected Advisories

There are a lot of vulnerabilities posted to the National Vulnerability Database (NVD), by a lot of people and companies. They are not always valid, they are not always 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, rescores 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 is depending 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:

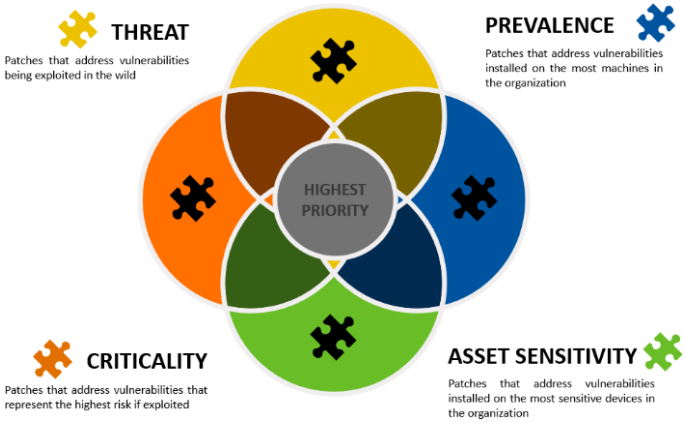
- What systems would result in the most risk if compromised?
- Is it a high-risk device? Patch!

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!



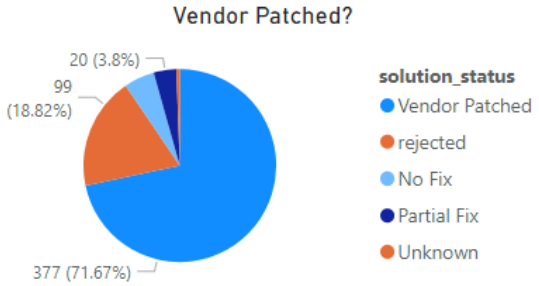
How do we know that more insights / data is needed?

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

criticality	avg threat score x # of advisories
Moderately Critical	2,095.00
Highly Critical	2,075.00
Less Critical	965.00
Not Critical	248.00
Extreme Critical	133.00
Total	**5,516.00**

Take away 1:

Critical vulnerabilities do not necessarily those present the most risk.
Leverage Threat Intelligence to better prioritize what demands your most urgent attention.

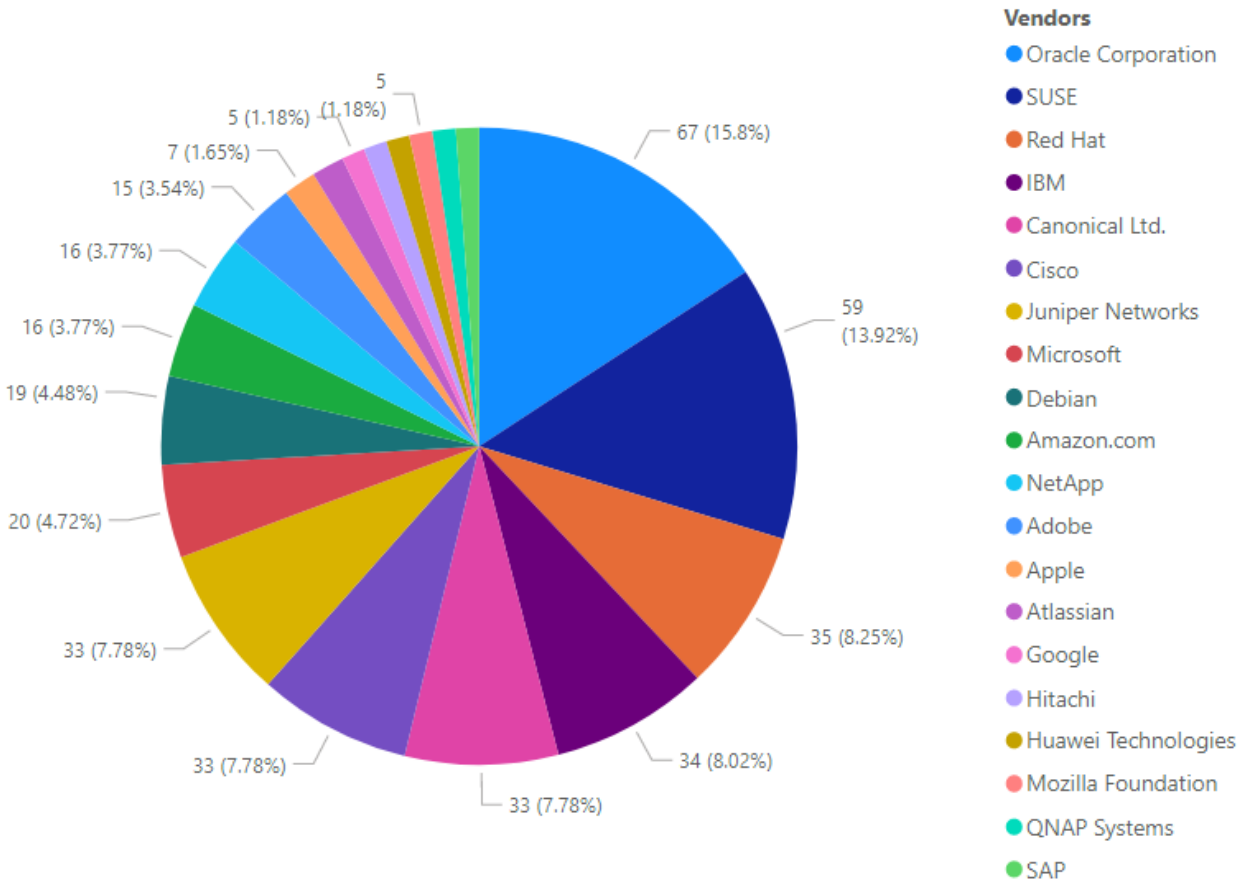


Take away 2:

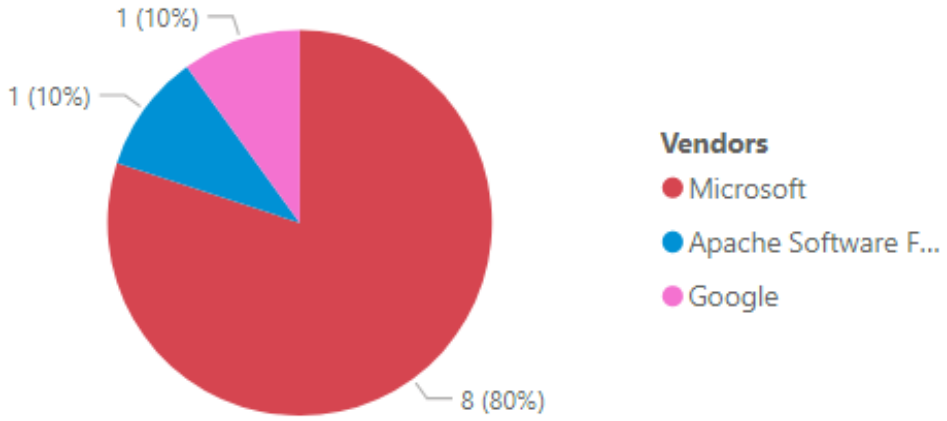
Most vulnerabilities have a Patch available (typically within 24h after disclosure).

Vendor View

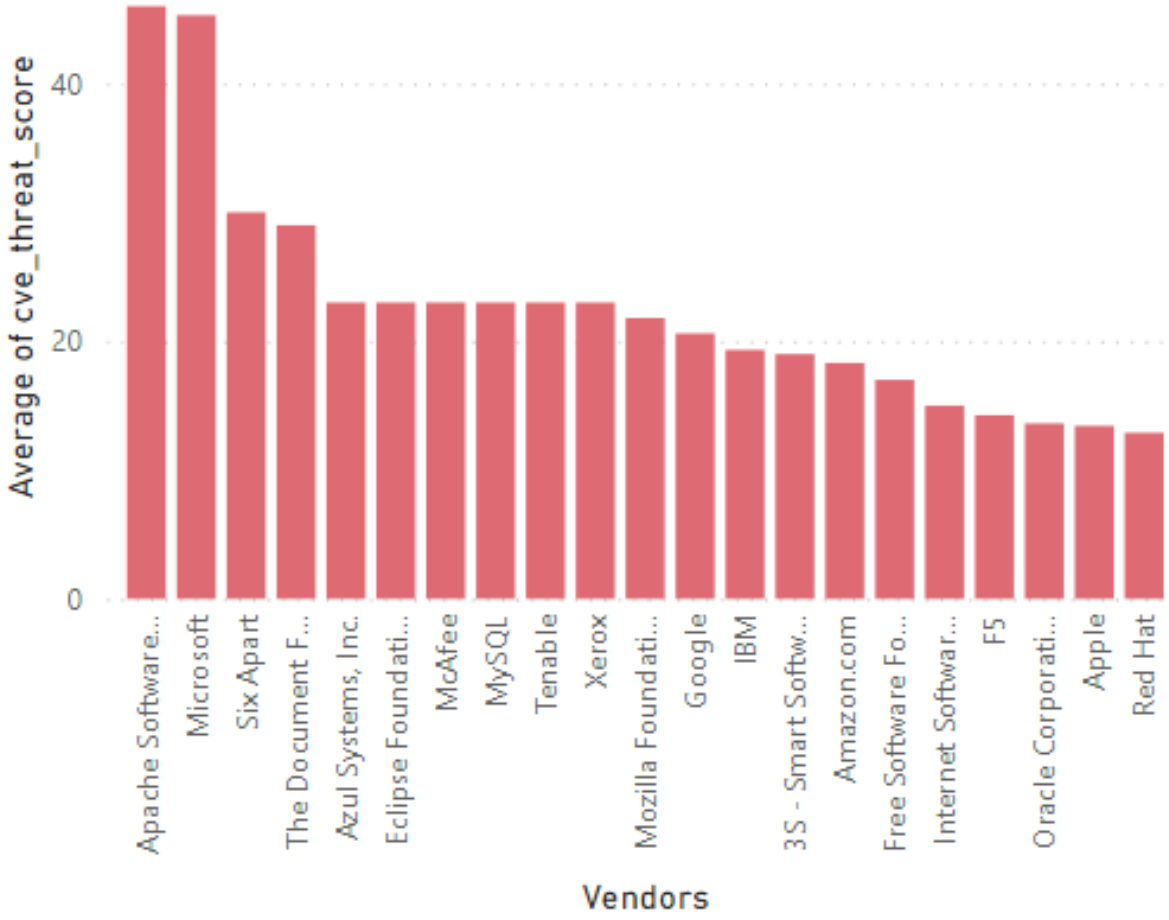
Top Vendors with most Advisories



Top Vendors with Zero-Day

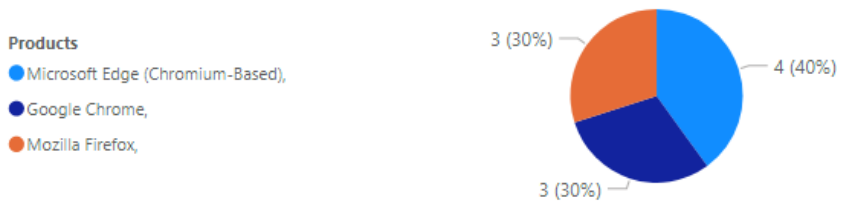


Top Vendors with highest average threat score



Browser Related Advisories

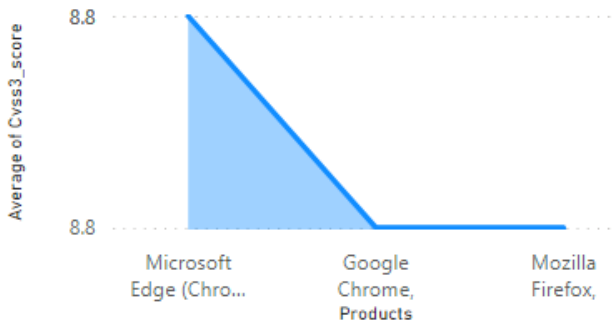
Advisories per browser



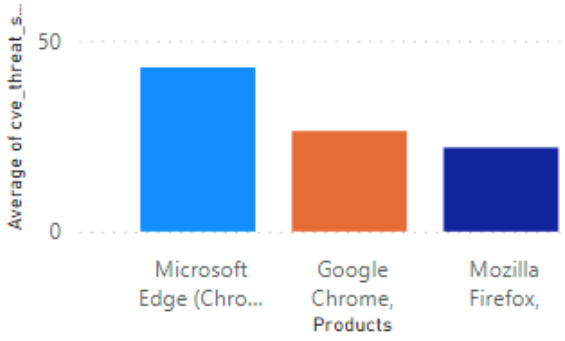
Browser Zero-Day vulnerabilities

Count of Advisories	Products	Advisories
1	Google Chrome,	SA104906
1	Microsoft Edge (Chromium-Based),	SA104286
1	Microsoft Edge (Chromium-Based),	SA104814
3		

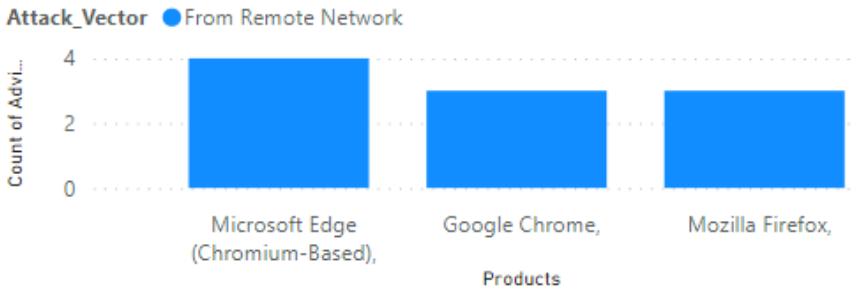
Average CVSS (Criticality) Score per Browser



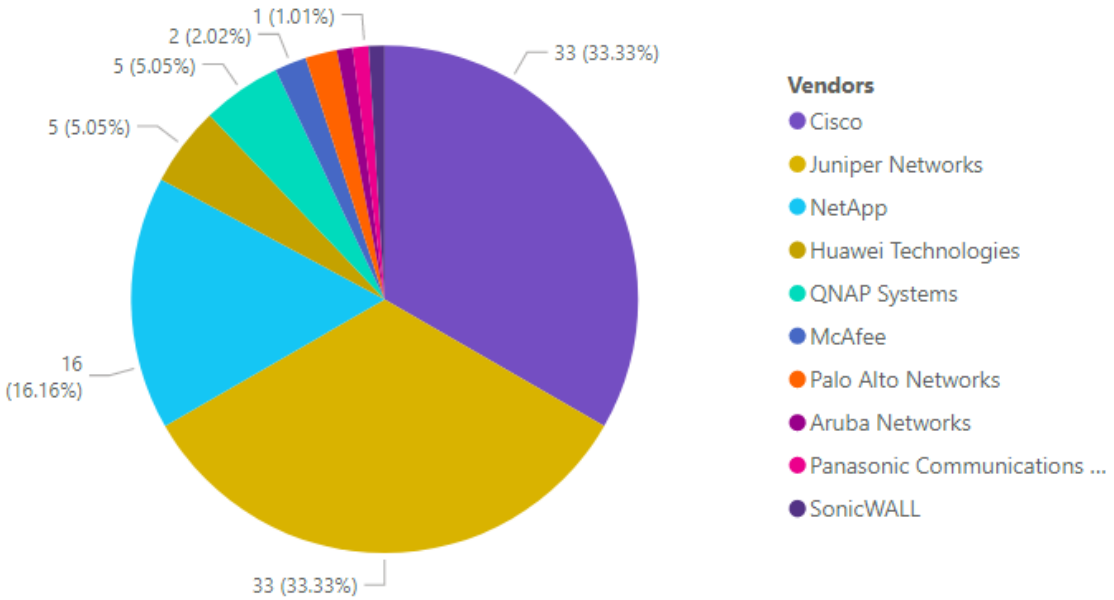
Average Threat Score per Browser



What's the Attack Vector ?



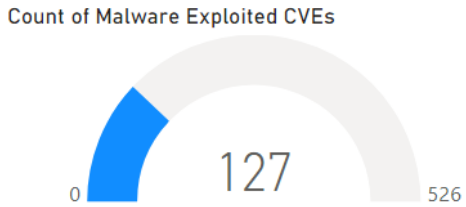
Networking Related Advisories



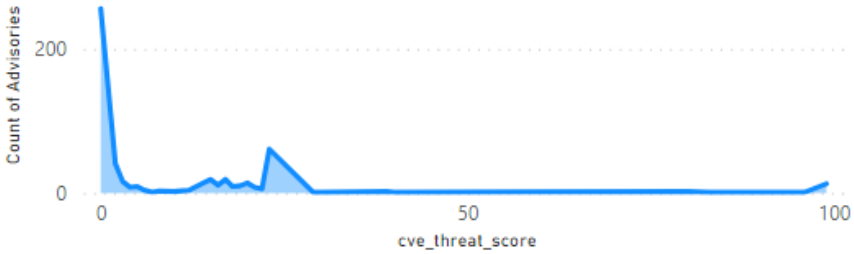
Threat Intelligence

A look at threat intelligence related data for the month.

Count of Malware Exploited CVEs



Count of Advisories by CVE Threat Score



Threat Intelligence Advisory Statistics:

SAIDs with a Threat Score	270↑*(250)*	51.33%
SAIDs with no Threat Score	256↑*(211)*	48.67%

SAID: Secunia Advisory Identifier

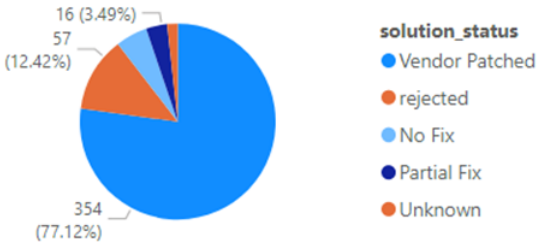
Range	Score	*change*	%
Medium-Range Threat Score SAIDs (13-23)	157 ↑	*(127)*	(29.85%)
Low-Range Threat Score SAIDs (1-12)	88 ↓	*(90)*	(16.73%)
Very Critical Threat Score SAIDs (71-99)	20 ↓	*(24)*	(3.8%)
High-Range Threat Score SAIDs (24-44)	5 ↓	*(8)*	(0.95%)
Critical-Range Threat Score SAIDs (45-70)	0 ↓	*(1)*	(0.22%)

Patching

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

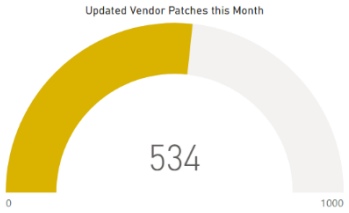
The challenge remains that organizations do not have full visibility or awareness when a vulnerability is disclosed (Time to Awareness) . Another big challenge is the time to Remediation (the time from having this information, correlating that with your environment and initiating the process to get the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

Vulnerabilities that are Vendor Patched



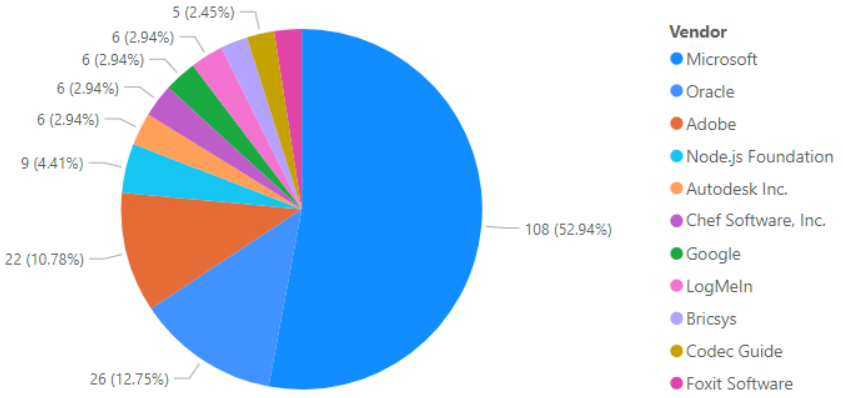
Flexera's Vendor Patch Module (VPM) statistics

Flexera has the largest third-party Patch Catalog **(~2500)** in the world. This helps customers to 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

(Patches per vendor)



Top Advisory of the month

Advisory with highest CVSS Score and highest criticality rating by the Secunia research team

Red Hat update for httpd:2.4

Secunia Advisory ID	SA104492
Creation Date	2021-10-13
Criticality	Highly critical
Zero Day	No
Impact	DoS, Security Bypass
Where	From remote
Solution Status	Vendor Patched
Secunia CVSS Scores	CVSS3 Base: 10, Overall: 8.7 CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:H/I:H/A:H/E:U/RL:O/RC:C
CVE references	CVE-2021-26691 CVE-2021-40438
Threat Score	20 (Last Updated 2021-10-28)

Affected operating system and software

Operating systems

Red Hat Enterprise Linux 8

Advisory Details:

Description:

Red Hat has issued an update for httpd:2.4. This fixes multiple vulnerabilities, which can be exploited by malicious people to bypass certain security restrictions and cause a DoS (Denial of Service). For more information: SA102606 (#4) SA104259 (#4)

Solution:

Updated packages are available via the Red Hat Network. **http://rhn.redhat.com**

Original advisory:

RHSA-2021:3816:
https://access.redhat.com/errata/RHSA-2021:3816

References:

SA102606:
SA102606
SA104259:
SA104259

About Flexera

Flexera delivers IT management solutions that enable Enterprises to accelerate and multiply the return on their technology investments. We help organizations ***inform their IT*** with total visibility into their complex hybrid ecosystems, providing the IT insights that fuel better-informed decisions. And we help them ***transform their IT*** with tools that allow IT leaders to rightsize across all platforms, reallocate spend, reduce risk and chart the most effective path to the cloud.

Our category-leading technology value optimization solutions are delivered by more than 1,300 passionate team members helping more than 50,000 customers achieve their business outcomes. To learn more, visit **flexera.com**