



#### **THREAT ADVISORY**



Mozilla addresses security vulnerabilities in Firefox, Firefox ESR, and Thunderbird

Date of Publication Admiralty code TA Number

# Summary

Mozilla has released updates that address up to eight high severity vulnerabilities (as per Mozilla) in Firefox, Firefox ESR, and Thunderbird. These vulnerabilities could allow an attacker to exploit the system and take control, allowing an attacker to install applications, edit or damage data as well as create new accounts with full user rights. These vulnerabilities can allow remote code execution on successful exploitation if countermeasures are not taken.

#### **♦ CVEs**

CVE	NAME	PATCH
CVE-2022-31736	Cross-Origin resource's length leaked	<b>&gt;</b>
CVE-2022-31737	Heap buffer overflow in WebGL	<b>©</b>
CVE-2022-31738	Browser window spoof using fullscreen mode	<b>(</b>
CVE-2022-31739	Attacker-influenced path traversal when saving downloaded files	<b>⊗</b>
CVE-2022-31740	Register allocation problem in WASM on arm64	<b>⊘</b>
CVE-2022-31741	Uninitialized variable leads to invalid memory read	<b>&gt;</b>

CVE	NAME	PATCH
CVE-2022-31747	Memory safety bugs in Firefox	<b>&gt;</b>
CVE-2022-31748	Memory safety bugs fixed in Firefox	<b>©</b>
CVE-2022-1834	Braille space character caused incorrect sender email to be shown for a digitally signed email	<b>\oint{\oint}</b>

## **Technical Details**

#1

There are several security vulnerabilities that have been fixed across FireFox, Firefox ESR and Thunderbird. CVE-2022-31737 allows a malicious webpage to cause an out-of-bounds write in WebGL, which can lead to memory corruption and exploitable crash across all these versions. CVE-2022-31741, CVE-2022-31747 and CVE-2022-31748 have shown evidence of memory corruption and we can presume that some of these could be exploited to run arbitrary code.

#2

Another vulnerability CVE-2022-1834 was addressed in Thunderbird 91.0, where the attacker could exploit the Braille Pattern Blank space character by sending an email message with an attacker's digital signature being invisible due to the following Braille spaces, thus leading to Thunderbird approving of invalid digital signatures, and causing potentially exploitable crashes.

Other vulnerabilities such as CVE-2022-31738 where the iframe could disrupt the browser and result in potential user confusion or spoofing attacks if the necessary updates are not made to the three versions.

### **We Vulnerability Details**

	CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID
	CVE-2022-31736	Mozilla Thunderbird: 91.0 - 91.9.1 Mozilla Firefox: 90.0 - 100.0.2 Firefox ESR: 91.0 - 91.9.1	•cpe:2.3:a:mozilla:m ozilla_thunderbird:9 1.9.1:*:*:*:*:*:* •cpe:2.3:a:mozilla:m ozilla_firefox:100.0.2 :*:*:*:*:*:*	CWE- 200
	CVE-2022-31737			CWE-787
	CVE-2022-31738			CWE-451
	CVE-2022-31739			CWE-22
	CVE-2022-31740			CWE-119
	CVE-2022-31741			CWE-457
	CVE-2022-31747			CWE-119
	CVE-2022-1834			CWE-451
in the land	CVE-2022-31748	Mozilla Firefox: 90.0 - 100.0.2 Firefox ESR: 91.0 - 91.9.1	•cpe:2.3:a:mozilla:m ozilla firefox:100.0.2 :*:*:*:*	CWE-200

#### **S** Patch Links

https://www.mozilla.org/en-US/firefox/all/#product-desktop-release

#### **References**

https://www.mozilla.org/en-US/security/advisories/mfsa2022-20/#CVE-2022-31736

https://www.mozilla.org/en-US/security/advisories/mfsa2022-21/

https://www.mozilla.org/en-US/security/advisories/mfsa2022-22/

# What Next?

Book a free demo with <u>HivePro Uni5</u> to check your exposure to this advisory. HivePro Uni5 is a Threat Exposure Management Solution that proactively reduces an organization's attack surface before it gets exploited.



At Hive Pro we take a long hard look at your vulnerabilities so you can bolster your defenses and fine-tune your offensive cybersecurity tactics.

REPORT GENERATED ON

2 June 2022 3:00 PM

