

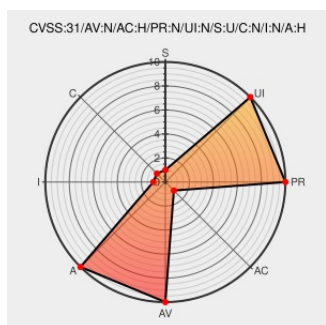


CVE-2022-35998

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CVE-2022-35998 - advisory for GHSA-qhw4-wwr7-gjc5

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

Certain versions of [Tensorflow](#) from [Google](#) contain the following vulnerability:

TensorFlow is an open source platform for machine learning. If `EmptyTensorList` receives an input `element\_shape` with more than one dimension, it gives a `CHECK` fail that can be used to trigger a denial of service attack. We have patched the issue in GitHub commit [c8ba76d48567aed347508e0552a257641931024d](#). The fix will be included in TensorFlow 2.10.0. We will also cherry-pick this commit on TensorFlow 2.9.1, TensorFlow 2.8.1, and TensorFlow 2.7.2, as these are also affected and still in supported range. There are no known workarounds for this issue.

CVE-2022-35998 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version < 2.7.2

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version >= 2.8.0, < 2.8.1

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version >= 2.9.0, < 2.9.1

CVSS3 Score: **7.5 - HIGH**

Attack Vector

Attack Complexity

Privileges Required

User Interaction

NETWORK

LOW

NONE

NONE

Scope

Confidentiality Impact

Integrity Impact

Availability Impact

UNCHANGED

NONE

NONE

HIGH

CVE References

Description

Tags

Link

`CHECK` fail in
`EmptyTensorList` · Advisory ·
tensorflow/tensorflow · GitHub

[github.com](#)
[text/html](#)

[CONFIRM](#) [github.com/tensorflow/tensorflow/security/advisories/GHSA-qhw4-wwr7-gjc5](#)

Fix tf.raw_ops.EmptyTensorList
vulnerability with invalid
`element\_sh...`
tensorflow/tensorflow@c8ba76d
· GitHub

[github.com](#)
[text/html](#)



github.com/tensorflow/tensorflow/commit/c8ba76d48567aed347508e0552a257641931024d

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Google	Tensorflow	All	All	All	All
Application	Google	Tensorflow	2.10	rc0	All	All
Application	Google	Tensorflow	2.10	rc1	All	All
Application	Google	Tensorflow	2.10	rc2	All	All
Application	Google	Tensorflow	2.10	rc3	All	All
cpe:2.3:a:google:tensorflow:*****:						
cpe:2.3:a:google:tensorflow:2.10:rc0:*****:						
cpe:2.3:a:google:tensorflow:2.10:rc1:*****:						
cpe:2.3:a:google:tensorflow:2.10:rc2:*****:						
cpe:2.3:a:google:tensorflow:2.10:rc3:*****:						

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2022-35998 : TensorFlow is an open source platform for machine learning. If `EmptyTensorList` receives an input... twitter.com/i/web/status/1...	2022-09-16 22:20:08
/r/netcve	CVE-2022-35998	2022-09-16 23:38:55

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