



CVE-2022-35963

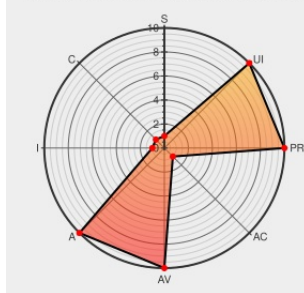
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CVE-2022-35963 - advisory for GHSA-84jm-4cf3-9jfm

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

CVSS:31/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H



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

TensorFlow is an open source platform for machine learning. The implementation of `FractionalAvgPoolGrad` does not fully validate the input `orig\_input\_tensor\_shape`. This results in an overflow that results in a `CHECK` failure which can be used to trigger a denial of service attack. We have patched the issue in GitHub commit

03a659d7be9a1154fdf5eeac221e5950fec07dad. 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-2022-35963 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` failures in `FractionalAvgPoolGrad`	github.com text/html	CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-84jm-4cf3-9jfm

Advisory · tensorflow/tensorflow ·
GitHub

Fix security vulnerability with
FractionalAvgPoolGrad ·
tensorflow/tensorflow@03a659d ·
GitHub

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



MISC

github.com/tensorflow/tensorflow/commit/03a659d7be9a1154fdf5eeac221e5950fec07dad

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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
Application	Google	Tensorflow	2.8.0	All	All	All
Application	Google	Tensorflow	2.9.0	All	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:~::~

cpe:2.3:a:google:tensorflow:2.8.0:~::~

cpe:2.3:a:google:tensorflow:2.9.0:~::~

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2022-35963 : TensorFlow is an open source platform for machine learning. The implementation of `FractionalAvgPo... twitter.com/i/web/status/1...	2022-09-16 20:14:48
/r/netcve	CVE-2022-35963	2022-09-16 21:38:37

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