

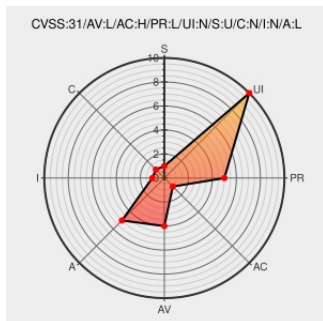


CVE-2021-29598

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CVE-2021-29598 - advisory for GHSA-pmpr-55fj-r229

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

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

TensorFlow is an end-to-end open source platform for machine learning. The implementation of the `SVDF` TFLite operator is vulnerable to a division by zero

error(<https://github.com/tensorflow/tensorflow/blob/7f283ff806b2031f407db64c4d3edcda8fb9f9L102>). An attacker can craft a model such that `params->rank` would be 0. The fix will be included in TensorFlow 2.5.0. We will also cherrypick this commit on TensorFlow 2.4.2, TensorFlow 2.3.3, TensorFlow 2.2.3 and TensorFlow 2.1.4, as these are also affected and still in supported range.

CVE-2021-29598 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: [tensorflow](#) - tensorflow version < 2.1.4

Affected Vendor/Software: [tensorflow](#) - tensorflow version >= 2.2.0, < 2.2.3

Affected Vendor/Software: [tensorflow](#) - tensorflow version >= 2.3.0, < 2.3.3

Affected Vendor/Software: [tensorflow](#) - tensorflow version >= 2.4.0, < 2.4.2

CVSS3 Score: **7.8 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	LOW	LOW	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	HIGH

CVSS2 Score: **4.6 - MEDIUM**

Access

Access

Authentication

Vector

Complexity

LOCAL

LOW

NONE

Confidentiality Impact

Integrity Impact

Availability Impact

PARTIAL

PARTIAL

PARTIAL

CVE References

Description

Tags

Link

Division by zero in TFLite's implementation of `SVDF` · Advisory · tensorflow/tensorflow · GitHub

github.com

text/html

CONFIRM

github.com/tensorflow/tensorflow/security/advisories/GHSA-pmpr-55fj-r229

Prevent division by 0 · tensorflow/tensorflow@6841e52 · GitHub

github.com

text/html

MISC

github.com/tensorflow/tensorflow/commit/6841e522a3e7d48706a02e8819836e809f738682

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Related QID Numbers

982455 Python (pip) Security Update for tensorflow (GHSA-pmpr-55fj-r229)

Known Affected Configurations (CPE V2.3)

Type

Vendor

Product

Version

Update

Edition

Language

Application

Google

Tensorflow

All

All

All

All

cpe:2.3:a:google:tensorflow:*****:

No vendor comments have been submitted for this CVE

Social Mentions

Source

Title

Posted (UTC)

← Previous ID

Next ID →

