

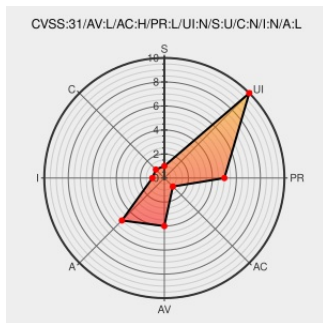


CVE-2021-29599

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CVE-2021-29599 - advisory for GHSA-97wf-p777-86jq

[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 `Split` TFLite operator is vulnerable to a division by zero

error(<https://github.com/tensorflow/tensorflow/blob/e2752089ef7ce9bcf3db0ec618ebd23ea1190L65>). An attacker can craft a model such that `num\_splits` would be 0. The fix will be included in TensorFlow 2.5.0. We will also cherry-pick 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-2021-29599 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	
CONFIRM		NONE	
Confidentiality Impact	Integrity Impact	Availability Impact	
PARTIAL	PARTIAL	PARTIAL	

CVE References

Description	Tags	Link
Division by zero in TFLite's implementation of `Split` · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-97wf-p777-86jq
Prevent division by 0 · tensorflow/tensorflow@b22786e · GitHub	github.com text/html	MISC github.com/tensorflow/tensorflow/commit/b22786e7e9b7bdb6a56936ff29cc7e9968d7bc1d

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Related QID Numbers

982454 Python (pip) Security Update for tensorflow (GHSA-97wf-p777-86jq)

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)
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