

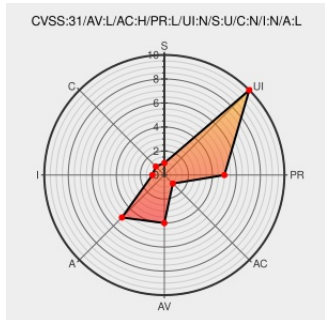


CVE-2021-29594

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CVE-2021-29594 - advisory for GHSA-3qgw-p4fm-x7gf

[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. TFLite's convolution

code(<https://github.com/tensorflow/tensorflow/blob/09c73bca7d648e961dd05898292d91a8322>) has multiple division where the divisor is controlled by the user and not checked to be non-zero. 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-2021-29594 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 convolution code · Advisory · tensorflow/tensorflow · GitHub		github.com text/html	CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-3qgw-p4fm-x7gf			
Prevent division by 0. · tensorflow/tensorflow@ff489d9 · GitHub		github.com text/html	MISC github.com/tensorflow/tensorflow/commit/ff489d95a9006be080ad14feb378f2b4dac35552			
By selecting these links, you may be leaving CVEreport webspace. We have provided these links to other websites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other websites that are more appropriate for your purpose. CVEreport does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, CVEreport does not endorse any commercial products that may be mentioned on these sites. Please address comments about any linked pages to comment@cve.report.						
Related QID Numbers						
982459 Python (pip) Security Update for tensorflow (GHSA-3qgw-p4fm-x7gf)						
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 →			