

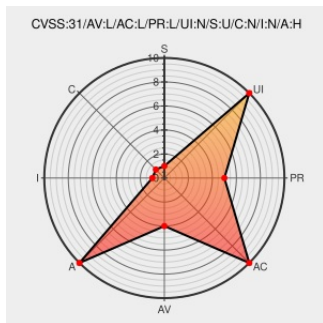


CVE-2021-41209

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CVE-2021-41209 - advisory for GHSA-6hvp-v2rx-c5g6

[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. In affected versions the implementations for convolution operators trigger a division by 0 if passed empty filter tensor arguments. The fix will be included in TensorFlow 2.7.0. We will also cherry-pick this commit on TensorFlow 2.6.1, TensorFlow 2.5.2, and TensorFlow 2.4.4, as these are also affected and still in supported range.

CVE-2021-41209 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **MEDIUM** severity.

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version $\geq 2.6.0$, $< 2.6.1$

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version $\geq 2.5.0$, $< 2.5.2$

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version $< 2.4.4$

CVSS3 Score: **5.5 - MEDIUM**

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

CVSS2 Score: **2.1 - LOW**

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
NONE	NONE	PARTIAL

CVE References

Description	Tags	Link
FPE in convolutions with zero size filters · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	 CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-6hvp-v2rx-c5g6
Adding more validation checks to _ParallelConcatUpdate to avoid NPE. · tensorflow/tensorflow@f2c3931 · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/commit/f2c3931113eaafe9ef558faadd48e00a6606235

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Related QID Numbers

980174 Python (pip) Security Update for tensorflow-gpu (GHSA-6hvp-v2rx-c5g6)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Google	Tensorflow	All	All	All	All
Application	Google	Tensorflow	2.7.0	rc0	All	All
Application	Google	Tensorflow	2.7.0	rc1	All	All
cpe:2.3:a:google:tensorflow:*:*:*:*:*:						
cpe:2.3:a:google:tensorflow:2.7.0:rc0:*:*:*:*:						
cpe:2.3:a:google:tensorflow:2.7.0:rc1:*:*:*:*:						

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2021-41209 : TensorFlow is an open source platform for machine learning. In affected versions the implementatio... twitter.com/i/web/status/1...	2021-11-05 21:48:28

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