



CVE-2021-29618

Published on: 05/14/2021 12:00:00 AM UTC

Last Modified on: 07/27/2021 05:12:00 PM UTC

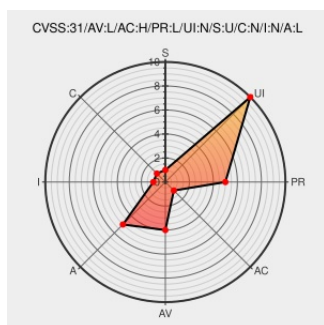
CVE-2021-29618 - advisory for GHSA-xqfj-cr6q-pc8w

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. Passing a complex argument to `tf.transpose` at the same time as passing `conjugate=True` argument results in a crash. 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-2021-29618 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as **MEDIUM** 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: **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	Integrity	Availability

Impact	Impact	Impact
NONE	NONE	PARTIAL

CVE References

Description	Tags	Link
	github.com text/plain Inactive Link Not Archived	 MISC github.com/tensorflow/issues/42105
Merge pull request #46973 from yongtang:46891- tf.transpose-conjugate · tensorflow/tensorflow@1dc6a7c · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/commit/1dc6a7ce6e0b3e27a7ae650bfc05b19
Crash in `tf.transpose` with complex inputs · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	 CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-xqfj
	github.com text/plain Inactive Link Not Archived	 MISC github.com/tensorflow/issues/46973

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Related QID Numbers

982438 Python (pip) Security Update for tensorflow-gpu (GHSA-xqfj-cr6q-pc8w)

Known Affected Configurations (CPE V2.3)

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

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No vendor comments have been submitted for this CVE

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