

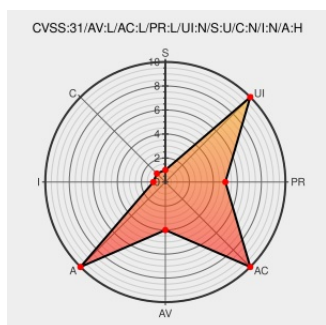


CVE-2022-29199

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CVE-2022-29199 - advisory for GHSA-p9rc-rmr5-529j

[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. Prior to versions 2.9.0, 2.8.1, 2.7.2, and 2.6.4, the implementation of ``tf.raw_ops.LoadAndRemapMatrix`` does not fully validate the input arguments. This results in a 'CHECK'-failure which can be used to trigger a denial of service attack. The code assumes

``initializing_values`` is a vector but there is no validation for this before accessing its value. Versions 2.9.0, 2.8.1, 2.7.2, and 2.6.4 contain a patch for this issue.

CVE-2022-29199 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as **MEDIUM** severity.

Affected Vendor/Software: **tensorflow** - **tensorflow** version < 2.6.4

Affected Vendor/Software: **tensorflow** - **tensorflow** version >= 2.7.0rc0, < 2.7.2

Affected Vendor/Software: **tensorflow** - **tensorflow** version >= 2.8.0rc0, < 2.8.1

Affected Vendor/Software: **tensorflow** - **tensorflow** version >= 2.9.0rc0, < 2.9.0

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

NONE

Integrity Impact

NONE

Availability Impact

PARTIAL

CVE References

Description	Tags	Link
Release TensorFlow 2.8.1 · tensorflow/tensorflow · GitHub	github.com text/html	MISC github.com/tensorflow/tensorflow/releases/tag/v2.8.1
Fix tf.raw_ops.LoadAndRemapMatrix vulnerability with invalid `row_rem...` · tensorflow/tensorflow@3150642 · GitHub	github.com text/html	MISC github.com/tensorflow/tensorflow/commit/3150642acbbe254e3c3c5
Release TensorFlow 2.9.0 · tensorflow/tensorflow · GitHub	github.com text/html	MISC github.com/tensorflow/tensorflow/releases/tag/v2.9.0
Release TensorFlow 2.7.2 · tensorflow/tensorflow · GitHub	github.com text/html	MISC github.com/tensorflow/tensorflow/releases/tag/v2.7.2
Release TensorFlow 2.6.4 · tensorflow/tensorflow · GitHub	github.com text/html	MISC github.com/tensorflow/tensorflow/releases/tag/v2.6.4
Missing validation causes denial of service via `LoadAndRemapMatrix` · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-p9
tensorflow/load_and_remap_matrix_op.cc at f3b9bf4c3c0597563b289c0512e98d4ce81f886e · tensorflow/tensorflow · GitHub	github.com text/html	MISC github.com/tensorflow/tensorflow/blob/f3b9bf4c3c0597563b289c0512e98d4ce81f886e L98

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There are currently no QIDs associated with this CVE

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
Application	Google	Tensorflow	2.8.0	-	All	All
Application	Google	Tensorflow	2.8.0	rc0	All	All
Application	Google	Tensorflow	2.8.0	rc1	All	All
Application	Google	Tensorflow	2.9.0	rc0	All	All
Application	Google	Tensorflow	2.9.0	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:*****:
cpe:2.3:a:google:tensorflow:2.8.0:-:*****:
cpe:2.3:a:google:tensorflow:2.8.0:rc0:*****:
cpe:2.3:a:google:tensorflow:2.8.0:rc1:*****:
cpe:2.3:a:google:tensorflow:2.9.0:rc0:*****:
cpe:2.3:a:google:tensorflow:2.9.0:rc1:*****:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2022-29199 : TensorFlow is an open source platform for machine learning. Prior to versions 2.9.0, 2.8.1, 2.7.2,... twitter.com/i/web/status/1...	2022-05-20 21:44:29
 @LinInfoSec	Tensorflow - CVE-2022-29199: github.com/tensorflow/ten...	2022-05-21 01:01:30
 /r/netcve	CVE-2022-29199	2022-05-20 22:38:56

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