

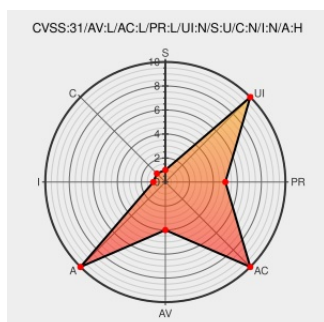


CVE-2021-37680

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CVE-2021-37680 - advisory for GHSA-cfpj-3q4c-jhvr

[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. In affected versions the implementation of fully connected layers in TFLite is [vulnerable to a division by zero error]

(<https://github.com/tensorflow/tensorflow/blob/460e000de3a83278fb00b61a16d161b1964f15f4718721986aa137691ee23f03638867151f74935f>). We have patched the issue in GitHub commit 718721986aa137691ee23f03638867151f74935f. The fix will be included in TensorFlow 2.6.0. We will also cherry-pick this commit on TensorFlow 2.5.1, TensorFlow 2.4.3, and TensorFlow 2.3.4, as these are also affected and still in supported range.

CVE-2021-37680 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as **MEDIUM** severity.

Affected Vendor/Software: tensorflow - tensorflow version $\geq 2.5.0$, $< 2.5.1$

Affected Vendor/Software: tensorflow - tensorflow version $\geq 2.4.0$, $< 2.4.3$

Affected Vendor/Software: tensorflow - tensorflow version $< 2.3.4$

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
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LOCAL	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
NONE	NONE	PARTIAL

CVE References

Description	Tags	Link
Prevent division by 0 in `fully_connected.cc` · tensorflow/tensorflow@7187219 · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/commit/718721986aa137691ee23f03638867151f74935f
Division by zero in TFLite · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	 CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-cfpj-3q4c-jhvr

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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	2.5.0	All	All	All
Application	Google	Tensorflow	2.6.0	rc0	All	All
Application	Google	Tensorflow	2.6.0	rc1	All	All
Application	Google	Tensorflow	2.6.0	rc2	All	All

```
cpe:2.3:a:google:tensorflow:*.:*:*:*:*:*:*:
```

```
cpe:2.3:a:google:tensorflow:2.5.0:*:*:*:*:*:*:
```

```
cpe:2.3:a:google:tensorflow:2.6.0:rc0:*:*:*:*:*:
```

```
cpe:2.3:a:google:tensorflow:2.6.0:rc1:*:*:*:*:*:
```

```
cpe:2.3:a:google:tensorflow:2.6.0:rc2:*:*:*:*:*:
```

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
🔗@CVEreport	CVE-2021-37680 : TensorFlow is an end-to-end open source platform for machine learning. In	2021-08-12

	affected versions the im... twitter.com/i/web/status/1...	21:52:19
 @LinInfoSec	Tensorflow - CVE-2021-37680: github.com/tensorflow/ten...	2021-08-13 00:52:16
← Previous ID		Next ID →

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