



CVE-2022-35996

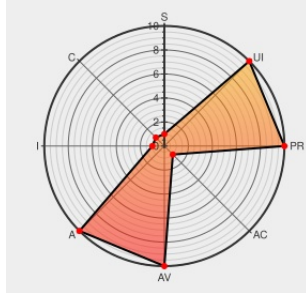
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CVE-2022-35996 - advisory for GHSA-q5jv-m6qw-5g37

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:31/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H



Certain versions of [Tensorflow](#) from [Google](#) contain the following vulnerability:

TensorFlow is an open source platform for machine learning. If `Conv2D` is given empty `input` and the `filter` and `padding` sizes are valid, the output is all-zeros. This causes division-by-zero floating point exceptions that can be used to trigger a denial of service attack. We have patched the issue in GitHub commit

611d80db29dd7b0cfb755772c69d60ae5bca05f9. The fix will be included in TensorFlow 2.10.0. We will also cherry-pick this commit on TensorFlow 2.9.1, TensorFlow 2.8.1, and TensorFlow 2.7.2, as these are also affected and still in supported range. There are no known workarounds for this issue.

CVE-2022-35996 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version < 2.7.2

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version >= 2.8.0, < 2.8.1

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version >= 2.9.0, < 2.9.1

CVSS3 Score: **7.5 - HIGH**

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

CVE References

Description	Tags	Link
Floating point exception in `Conv2D` · Advisory ·	github.com text/html	CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-q5jv-m6qw-5g37

Fix conv2d crash when input size
is empty. ·
tensorflow/tensorflow@611d80d
· GitHub

[github.com](#)
[text/html](#)

 **MISC**

github.com/tensorflow/tensorflow/commit/611d80db29dd7b0cfb755772c69d60ae5bca05f9

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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	2.10	rc0	All	All
Application	Google	Tensorflow	2.10	rc1	All	All
Application	Google	Tensorflow	2.10	rc2	All	All
Application	Google	Tensorflow	2.10	rc3	All	All

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

cpe:2.3:a:google:tensorflow:2.10:rc0:*.:*:*:*:*.*:

cpe:2.3:a:google:tensorflow:2.10:rc1:*.:*:*:*:*.*:

cpe:2.3:a:google:tensorflow:2.10:rc2:*.:*:*:*:*.*:

cpe:2.3:a:google:tensorflow:2.10:rc3:*.:*:*:*:*.*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2022-35996 : TensorFlow is an open source platform for machine learning. If `Conv2D` is given empty `input` and... twitter.com/i/web/status/1...	2022-09-16 23:05:38
 /r/netcve	CVE-2022-35996	2022-09-16 23:39:06

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