

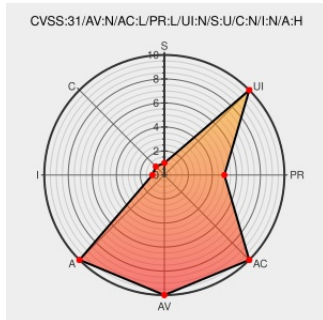


CVE-2023-25661

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CVE-2023-25661 - advisory for GHSA-fxgc-95xx-grvq

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

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

TensorFlow is an Open Source Machine Learning Framework. In versions prior to 2.11.1 a malicious invalid input crashes a tensorflow model (Check Failed) and can be used to trigger a denial of service attack. A proof of concept can be constructed with the

`Convolution3DTranspose` function. This Convolution3DTranspose layer is a very common API in modern neural networks. The ML models containing such vulnerable components could be deployed in ML applications or as cloud services. This failure could be potentially used to trigger a denial of service attack on ML cloud services. An attacker must have privilege to provide input to a `Convolution3DTranspose` call. This issue has been patched and users are advised to upgrade to version 2.11.1. There are no known workarounds for this vulnerability.

CVE-2023-25661 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **MEDIUM** severity.

Affected Vendor/Software: [tensorflow](#) - tensorflow version = < 2.11.1

CVSS3 Score: **6.5 - MEDIUM**

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

CVE References

Description	Tags	Link
Fix nn.conv3d_transpose security vulnerability with illegal input	github.com text/html	MISC github.com/tensorflow/tensorflow/commit/948fe6369a5711d4b4568ea9bbf6015c6dfb77e2

snape ·
tensorflow/tensorflow@948fe63 ·
GitHub

Denial of Service in TensorFlow · [github.com](#)  MISC github.com/tensorflow/tensorflow/security/advisories/GHSA-fxgc-95xx-grvq
Advisory · tensorflow/tensorflow · [text/html](#)
GitHub

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Related QID Numbers

[907394](#) Common Base Linux Mariner (CBL-Mariner) Security Update for tensorflow (31197)

[907487](#) Common Base Linux Mariner (CBL-Mariner) Security Update for tensorflow (31197-1)

Known Affected Configurations (CPE V2.3)

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

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2023-25661 : TensorFlow is an Open Source Machine Learning Framework. In versions prior to 2.11.1 a malicious i... twitter.com/i/web/status/1...	2023-03-27 20:06:33
 /r/netcve	CVE-2023-25661	2023-03-27 21:38:25

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