



CVE-2022-36018

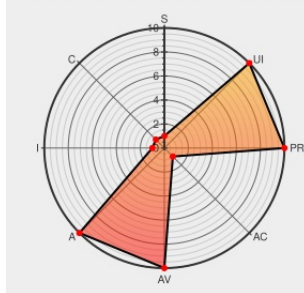
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CVE-2022-36018 - advisory for GHSA-m6cv-4fmf-66xf

[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 ``RaggedTensorToVariant`` is given a ``rt_nested_splits`` list that contains tensors of ranks other than one, it results in a ``CHECK`` fail that can be used to trigger a denial of service attack. We have patched the issue in GitHub commit [88f93dfe691563baa4ae1e80ccde2d5c7a143821](#). 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-2022-36018 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
<code>`CHECK`</code> fail in <code>`RaggedTensorToVariant`</code> · Advisory · tensorflow/tensorflow · CONFIRM	github.com text/html	CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-m6cv-4fmf-66xf

GitHub

[security] Fix failed shape check in RaggedTensorToVariant. · tensorflow/tensorflow@88f93df · GitHub

github.com

text/html

MISC

github.com/tensorflow/tensorflow/commit/88f93dfe691563baa4ae1e80ccde2d5c7a143821

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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

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