

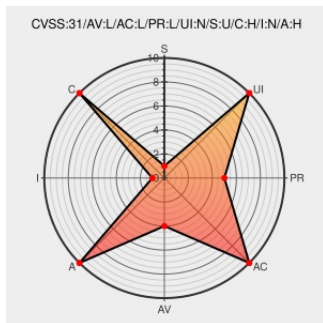


CVE-2021-41212

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CVE-2021-41212 - advisory for GHSA-fr77-rrx3-cp7g

[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. In affected versions the shape inference code for `tf.ragged.cross` can trigger a read outside of bounds of heap allocated array. The fix will be included in TensorFlow 2.7.0. We will also cherry-pick this commit on TensorFlow 2.6.1, TensorFlow 2.5.2, and TensorFlow 2.4.4, as these are also affected and still in supported range.

CVE-2021-41212 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: tensorflow - tensorflow version $\geq 2.6.0$, $< 2.6.1$

Affected Vendor/Software: tensorflow - tensorflow version $\geq 2.5.0$, $< 2.5.2$

Affected Vendor/Software: tensorflow - tensorflow version $< 2.4.4$

CVSS3 Score: **7.1 - HIGH**

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

CVSS2 Score: **3.6 - LOW**

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
PARTIAL	NONE	PARTIAL

CVE References

Description	Tags	Link
Fix null pointer exception in shape inference function when tf.ragged... · tensorflow/tensorflow@fa6b778 · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/commit/fa6b7782fbb14aa08d767bc799c531f5e1fb3bb8
Heap OOB read in `tf.ragged.cross` · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	 CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-fr77-rrx3-cp7g

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Related QID Numbers

980177 Python (pip) Security Update for tensorflow-gpu (GHSA-fr77-rrx3-cp7g)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Google	Tensorflow	All	All	All	All
Application	Google	Tensorflow	2.6.0	All	All	All

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

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

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2021-41212 : TensorFlow is an open source platform for machine learning. In affected versions the shape inferen... twitter.com/i/web/status/1...	2021-11-05 20:27:04

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