

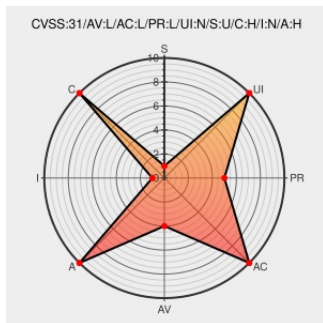


CVE-2021-41205

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CVE-2021-41205 - advisory for GHSA-49rx-x2rw-pc6f

[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 functions for the ``QuantizeAndDequantizeV*`` operations can trigger a read outside of bounds of heap allocated array. The fix will be included in TensorFlow 2.7.0. We will also cherrypick 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-2021-41205 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

CVE References

Description	Tags	Link
Heap OOB read in all `tf.raw_ops.QuantizeAndDequantizeV*` ops · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-49rx-x2rw-pc6f
Address QuantizeAndDequantizeV* heap oob. Added additional checks fo... · tensorflow/tensorflow@7cf73a2 · GitHub	github.com text/html	MISC github.com/tensorflow/tensorflow/commit/7cf73a2274732c9d82af51c2bc2cf90d13cd7

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Related QID Numbers

980171 Python (pip) Security Update for tensorflow-gpu (GHSA-49rx-x2rw-pc6f)

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-2021-41205 : TensorFlow is an open source platform for machine learning. In affected versions the shape inferen... twitter.com/i/web/status/1...	2021-11-05 20:22:12

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