

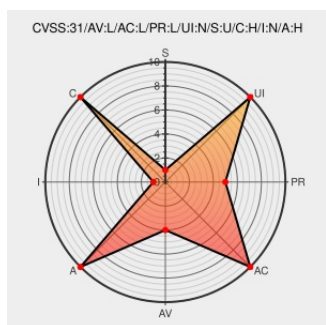


CVE-2021-41223

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CVE-2021-41223 - advisory for GHSA-f54p-f6jp-4rhr

[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 implementation of `FusedBatchNorm` kernels is vulnerable to a heap OOB access. 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-2021-41223 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
Heap OOB in `FusedBatchNorm` kernels · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	 CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-f54p-f6jp-4rhr
Add shape checks to FusedBatchNorm kernels. · tensorflow/tensorflow@aab9998 · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/commit/aab999816c2ffbd8f0592059fad352622f89cda

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Related QID Numbers

980188 Python (pip) Security Update for tensorflow-gpu (GHSA-f54p-f6jp-4rhr)

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-2021-41223 : TensorFlow is an open source platform for machine learning. In affected versions the implementatio... twitter.com/i/web/status/1...	2021-11-05 20:27:23
 @LinInfoSec	Tensorflow - CVE-2021-41223: github.com/tensorflow/ten...	2021-11-05 23:07:34

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