

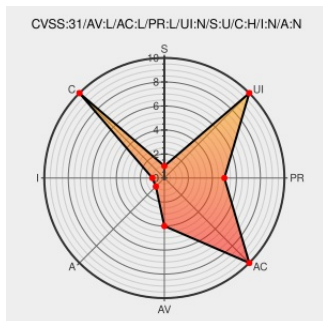


CVE-2021-37672

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CVE-2021-37672 - advisory for GHSA-5hj3-vjjf-f5m7

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

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

TensorFlow is an end-to-end open source platform for machine learning. In affected versions an attacker can read from outside of bounds of heap allocated data by sending specially crafted illegal arguments to ``tf.raw_ops.SdcaOptimizerV2``. The [implementation]

(<https://github.com/tensorflow/tensorflow/blob/460e000de3a83278fb00b61a16d161b1964f15f4/L353>) does not check that the length of ``example_labels`` is the same as the number of examples. We have patched the issue in GitHub commit `a4e138660270e7599793fa438cd7b2fc2ce215a6`. The fix will be included in TensorFlow 2.6.0. We will also cherrypick this commit on TensorFlow 2.5.1, TensorFlow 2.4.3, and TensorFlow 2.3.4, as these are also affected and still in supported range.

CVE-2021-37672 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **MEDIUM** severity.

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version `>= 2.5.0, < 2.5.1`

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version `>= 2.4.0, < 2.4.3`

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version `< 2.3.4`

CVSS3 Score: **5.5 - MEDIUM**

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

CVSS2 Score: **2.1 - LOW**

Access

Access

Authentication

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

CVE References

Description	Tags	Link
Heap OOB in `SdcaOptimizerV2` · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	 CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-5hj3-vjjf-f5m7
Add remaining validation to `sdca_internal.cc` tensorflow/tensorflow@a4e1386 · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/commit/a4e138660270e7599793fa438cd7b2fc2ce215a6
By selecting these links, you may be leaving CVEreport webspace. We have provided these links to other websites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other websites that are more appropriate for your purpose. CVEreport does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, CVEreport does not endorse any commercial products that may be mentioned on these sites. Please address comments about any linked pages to comment@cve.report .		

Related QID Numbers

981541 Python (pip) Security Update for tensorflow-gpu (GHSA-5hj3-vjjf-f5m7)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Google	Tensorflow	All	All	All	All
Application	Google	Tensorflow	2.5.0	All	All	All
Application	Google	Tensorflow	2.6.0	rc0	All	All
Application	Google	Tensorflow	2.6.0	rc1	All	All
Application	Google	Tensorflow	2.6.0	rc2	All	All
cpe:2.3:a:google:tensorflow:*. *. *. *. *. *. *. *						
cpe:2.3:a:google:tensorflow:2.5.0: *. *. *. *. *. *. *. *						
cpe:2.3:a:google:tensorflow:2.6.0:rc0: *. *. *. *. *. *. *. *						
cpe:2.3:a:google:tensorflow:2.6.0:rc1: *. *. *. *. *. *. *. *						
cpe:2.3:a:google:tensorflow:2.6.0:rc2: *. *. *. *. *. *. *. *						

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @LinInfoSec	Tensorflow - CVE-2021-37672: github.com/tensorflow/ten...	2021-08-13 00:52:09

[< Previous ID](#)[Next ID >](#)

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