



CVE-2020-15191

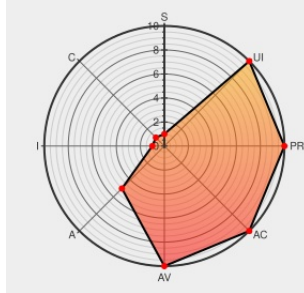
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CVE-2020-15191 - advisory for GHSA-q8qj-fc9q-cphr

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

CVSS:31/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:L



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

In Tensorflow before versions 2.2.1 and 2.3.1, if a user passes an invalid argument to ``dlpack.to_dlpack`` the expected validations will cause variables to bind to ``nullptr`` while setting a ``status`` variable to the error condition. However, this ``status`` argument is not properly checked. Hence, code following these methods will bind references to

null pointers. This is undefined behavior and reported as an error if compiling with ``-fsanitize=null``. The issue is patched in commit

22e07fb204386768e5bcbea563641ea11f96ceb8 and is released in TensorFlow versions 2.2.1, or 2.3.1.

CVE-2020-15191 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **MEDIUM** severity.

Affected Vendor/Software: [tensorflow](#) - tensorflow version = 2.2.0

Affected Vendor/Software: [tensorflow](#) - tensorflow version = 2.3.0

CVSS3 Score: **5.3 - MEDIUM**

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

CVSS2 Score: **5 - MEDIUM**

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality	Integrity	Availability

cpe:2.3:a:tensorflow:tensorflow:2.3.0:***:-:***:

cpe:2.3:a:tensorflow:tensorflow:2.2.0:***:-:***:

cpe:2.3:a:tensorflow:tensorflow:2.3.0:***:-:***:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @LinInfoSec	Tensorflow - CVE-2020-15191: github.com/tensorflow/ten...	2021-08-17 14:46:21

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