



CVE-2022-29202

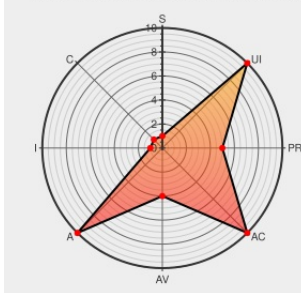
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CVE-2022-29202 - advisory for GHSA-cwpm-f78v-7m5c

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

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



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

TensorFlow is an open source platform for machine learning. Prior to versions 2.9.0, 2.8.1, 2.7.2, and 2.6.4, the implementation of ``tf.ragged.constant`` does not fully validate the input arguments. This results in a denial of service by consuming all available memory. Versions 2.9.0, 2.8.1, 2.7.2, and 2.6.4 contain a patch for this issue.

CVE-2022-29202 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as **MEDIUM** severity.

Affected Vendor/Software: tensorflow - tensorflow version < 2.6.4

Affected Vendor/Software: tensorflow - tensorflow version >= 2.7.0rc0, < 2.7.2

Affected Vendor/Software: tensorflow - tensorflow version >= 2.8.0rc0, < 2.8.1

Affected Vendor/Software: tensorflow - tensorflow version >= 2.9.0rc0, < 2.9.0

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	NONE	NONE	HIGH

CVSS2 Score: **2.1 - LOW**

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

NONE

NONE

PARTIAL

CVE References

Description	Tags	Link
Release TensorFlow 2.8.1 · tensorflow/tensorflow · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/releases/tag/v2.8.1
Denial of service in `tf.ragged.constant` due to lack of validation · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	 CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-cw
Missing input validation on `tf.ragged.constant` · Issue #55199 · tensorflow/tensorflow · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/issues/55199
Prevent denial of service in `tf.ragged.constant` · tensorflow/tensorflow@bd4d558 · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/commit/bd4d558ff9c8df26d47a2f
Release TensorFlow 2.9.0 · tensorflow/tensorflow · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/releases/tag/v2.9.0
Release TensorFlow 2.7.2 · tensorflow/tensorflow · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/releases/tag/v2.7.2
Release TensorFlow 2.6.4 · tensorflow/tensorflow · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/releases/tag/v2.6.4
tensorflow/ragged_factory_ops.py at f3b9bf4c3c0597563b289c0512e98d4ce81f886e · tensorflow/tensorflow · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/blob/f3b9bf4c3c0597563b289c0512e98d4ce81f886e/ragged_factory_ops.py#L239

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Google	Tensorflow	All	All	All	All
Application	Google	Tensorflow	2.7.0	rc0	All	All
Application	Google	Tensorflow	2.7.0	rc1	All	All
Application	Google	Tensorflow	2.8.0	-	All	All
Application	Google	Tensorflow	2.8.0	rc0	All	All
Application	Google	Tensorflow	2.8.0	rc1	All	All
Application	Google	Tensorflow	2.9.0	rc0	All	All
Application	Google	Tensorflow	2.9.0	rc1	All	All

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

cpe:2.3:a:google:tensorflow:2.7.0:rc0:*:*:*:*:*:

cpe:2.3:a:google:tensorflow:2.7.0:rc1:~::~::~:
cpe:2.3:a:google:tensorflow:2.8.0:-:~::~::~:
cpe:2.3:a:google:tensorflow:2.8.0:rc0:~::~::~:
cpe:2.3:a:google:tensorflow:2.8.0:rc1:~::~::~:
cpe:2.3:a:google:tensorflow:2.9.0:rc0:~::~::~:
cpe:2.3:a:google:tensorflow:2.9.0:rc1:~::~::~:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVereport	CVE-2022-29202 : TensorFlow is an open source platform for machine learning. Prior to versions 2.9.0, 2.8.1, 2.7.2,... twitter.com/i/web/status/1...	2022-05-20 22:58:42
 @LinInfoSec	Tensorflow - CVE-2022-29202: github.com/tensorflow/ten...	2022-05-21 01:01:27
 /r/netcve	CVE-2022-29202	2022-05-21 00:38:07

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