



CVE-2022-41907

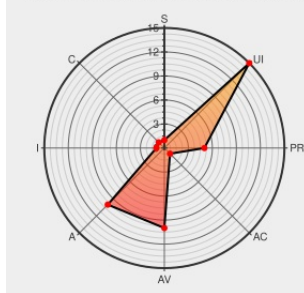
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CVE-2022-41907 - advisory for GHSA-368v-7v32-52fx

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

CVSS:31/AV:N/AC:H/PR:L/UI:R/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. When `tf.raw_ops.ResizeNearestNeighborGrad` is given a large `size` input, it overflows. We have patched the issue in GitHub commit [00c821af032ba9e5f5fa3fe14690c8d28a657624](#). The fix will be included in TensorFlow 2.11. We will also cherry-pick this commit on TensorFlow 2.10.1, 2.9.3, and TensorFlow 2.8.4, as these are also affected and still in supported range.

CVE-2022-41907 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version `>= 2.10.0, < 2.10.1`

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version `>= 2.9.0, < 2.9.3`

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version `< 2.8.4`

CVSS3 Score: **7.5 - HIGH**

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

CVE References

Description	Tags	Link
Fix <code>tf.raw_ops.ResizeNearestNeighborGrad</code> vulnerability with large dim... · tensorflow/tensorflow@00c821a · GitHub	github.com text/html	MISC github.com/tensorflow/tensorflow/commit/00c821af032ba9e5f5fa3fe14690c8d28a657624

Overflow in `ResizeNearestNeighborGrad`
· Advisory · tensorflow/tensorflow · GitHub

github.com
text/html



CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-368v-7v

tensorflow/resize_nearest_neighbor_op.cc
at master · tensorflow/tensorflow · GitHub

github.com
text/html



MISC
github.com/tensorflow/tensorflow/blob/master/tensorflow/core/kernels/image/resize

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Related QID Numbers

[904606](#) Common Base Linux Mariner (CBL-Mariner) Security Update for tensorflow (11541)

[904657](#) Common Base Linux Mariner (CBL-Mariner) Security Update for tensorflow (11541-1)

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)
/r/netcve	CVE-2022-41907	2022-11-18 23:38:29

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