

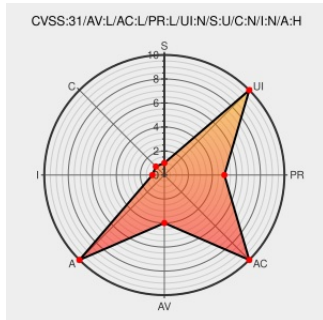


# CVE-2022-29201

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## CVE-2022-29201 - advisory for GHSA-pqhm-4wvf-2jg8

[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. Prior to versions 2.9.0, 2.8.1, 2.7.2, and 2.6.4, the implementation of ``tf.raw_ops.QuantizedConv2D`` does not fully validate the input arguments. In this case, references get bound to ``nullptr`` for each argument that is empty. Versions 2.9.0, 2.8.1, 2.7.2, and 2.6.4 contain

a patch for this issue.

CVE-2022-29201 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 | Integrity         | Availability   |

[illegible]

|                                                  |
|--------------------------------------------------|
| 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-2022-29201 : TensorFlow is an open source platform for machine learning. Prior to versions 2.9.0, 2.8.1, 2.7.2,... <a href="https://twitter.com/i/web/status/1...">twitter.com/i/web/status/1...</a> | 2022-05-20 23:02:11 |
|  @LinInfoSec | Tensorflow - CVE-2022-29201: <a href="https://github.com/tensorflow/ten...">github.com/tensorflow/ten...</a>                                                                                             | 2022-05-21 01:01:27 |
|  /r/netcve   | <a href="#">CVE-2022-29201</a>                                                                                                                                                                           | 2022-05-21 00:38:08 |

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