





Moderate mihaimaruseac published GHSA-p5f8-gfw5-33w4 on Sep 24, 2020

Package

tensorflow, tensorflow-cpu, tensorflow-gpu (tensorflow)

Patched versions 2.3.0 2.3.1

Description

## Impact

The RaggedCountSparseOutput implementation does not validate that the input arguments form a valid ragged tensor. In particular, there is no validation that the values in the splits tensor 

```
tensorflow/tensorflow/core/kernels/count_ops.cc
Lines 248 to 251 in 0e68f4d
       for (int idx = 0; idx < num_values; ++idx) {</pre>
           while (idx >= splits_values(batch_idx)) {
             batch_idx++;
251
```

If split\_values does not end with a value at least num\_values then the while loop condition will trigger a read outside of the bounds of split\_values once batch\_idx grows too large.

We have patched the issue in 3cbb917 and will release a patch release.

We recommend users to upgrade to TensorFlow 2.3.1.

## For more information

Please consult our security guide for more information regarding the security model and how to contact us with issues and questions.

This vulnerability has been reported by members of the Aivul Team from Qihoo 360.

Moderate

CVE ID

CVE-2020-15201

Weaknesses