New issue

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error: Incorrect handling of function 'zzip\_fread' return value #68

```
Oclosed N3vv opened this issue on Mar 5, 2019 · 7 comments
```

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N3vv commented on Mar 5, 2019
Hello, I found a bug of zziplib on the lastest commit b7747bc. It's in the function unzzip_cat_file (unzzipcat-zip.c:37), and it is caused by incorrect handling of the return value of the function
'zzip fread'
Relevant code in function unzzip_cat_file in unzzipcat-zip.c:
   static void unzzip_cat_file(ZZIP_DIR* disk, char* name, FILE* out)
       ZZIP_FILE* file = zzip_file_open (disk, name, 0);
       if (file)
           char buffer[1024]; int len;
          while ((len = zzip_file_read (file, buffer, 1024)))
// Incorrect handling of the return value (-1) of the function zzip_file_read causes an infinite loop.
               fwrite (buffer, 1, len, out);
           zzip_file_close (file);
POC.zip
Using the POC file, I find that the function zzip_file_read returns -1. And it is handled incorrectly in the caller (unzzip_cat_file), which leads to an infinite loop.
   zzip_file_read(ZZIP_FILE * fp, void *buf, zzip_size_t len)
                startlen = fp->d_stream.total_out;
                err = inflate(&fp->d_stream, Z_NO_FLUSH);
               if (err == Z STREAM END)
                { fp->restlen = 0; }
else if (err == Z_OK)
                { fp->restlen -= (fp->d_stream.total_out - startlen); } else
                    { dir->errcode = err; return -1; } // Return -1 when there is an error.
  }
```

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gdraheim added a commit that referenced this issue on Jan 4, 2021
    #68 ssize_t return value of zzip_file_read is a signed value being po... ...
                                                                                                                                                                             ac9ae39
Ç gdraheim added a commit that referenced this issue on Jan 4, 2021
    #68 return value of zzip_mem_disk_fread is signed
                                                                                                                                                                             7e78654
gdraheim added a commit that referenced this issue on Jan 4, 2021
    #68 return value of zzip_entry_fread is signed
                                                                                                                                                                             d453977
Ç gdraheim added a commit that referenced this issue on Jan 4, 2021
    #68 return value of zzip_mem_disk_fread is signed
                                                                                                                                                                             0a9db9d
carried added a commit that referenced this issue on Jan 4, 2021
    #68 return value of zzip_fread is signed
                                                                                                                                                                             a34a96f
Ç gdraheim added a commit that referenced this issue on Jan 4, 2021
    #68 return value of zzip_entry_fread is signed
                                                                                                                                                                             fa1f78a
carried added a commit that referenced this issue on Jan 4, 2021
    #68 return value of posix read(2) is signed
                                                                                                                                                                             f7a6fa9
StavPirate commented on Jun 21, 2021
 @gdraheim can we consider this issue fixed?
```

N3vv commented on Jun 21, 2021

Yes, I think it's been fixed.

StayPirate commented on Jun 21, 2021

If your PoC doesn't hang in a infinite loop anymore I think you're ok to close this issue

kirotawa commented on Jun 21, 2021

CVE-2020-18442 is assigned for this issue

tongxiaoge1001 commented on Jun 24, 2021

Has CVE-2020-18442 been fixed? I find that the patch has not been incorporated into the mainline branch.

StayPirate commented on Jun 24, 2021

All the above commits are both part of master and tag vo.13.72 . Could you share the link to the patch you can't find in the master branch?

tongxiaoge1001 commented on Jun 24, 2021

All the above commits are both part of master and tag vo.13.72 . Could you share the link to the patch you can't find in the master branch?

Sorry, it was an oversight on my part. So has CVE-2020-18442 been fixed? I find that the issue is still open.

N3vv closed this as completed on Jul 3, 2021

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone No milestone

Development

No branches or pull requests

4 participants



