



## PoDoFo Tickets

A PDF parsing, modification and creation library. Brought to you by: domseichter

#49 memory leakage at src/base/PdfTokenizer.cpp:334 in IsNextToken(const char\*)

Milestone: SVN Status: closed Owner: Matthew Brincke Labels: None Private: No

Hi, there is a memory leakage bug at src/base/PdfTokenizer.cpp:334 IsNextToken

```
bool PdfTokenizer::IsNextToken( const char* pszToken )
   if( !pszToken )
       PODOFO_RAISE_ERROR( ePdfError_InvalidHandle );
   const char* pszRead;
   bool gotToken = this->GetNextToken( pszRead, NULL );
   if (!gotToken)
       PODOFO_RAISE_ERROR( ePdfError_UnexpectedEOF );
   return (strcmp( pszToken, pszRead ) == 0);
```

The backtrace is shown as following. But before the process exited, it didn't free memory new 'd at PoDoFo::PdfMemDocument::Load

```
void PdfMemDocument::Load( const char* pszFilename, bool bForUpdate )
   if( !pszFilename || !pszFilename[0] )
        PODOFO_RAISE_ERROR( ePdfError_InvalidHandle );
   this->Clear();
   if( bForUpdate )
        int lLen = strlen( pszFilename );
        m_pszUpdatingFilename = static_cast<char *>( podofo_malloc( sizeof( char ) * ( lLen
        \label{lem:memcpy} \verb| memcpy| ( m_pszUpdatingFilename, pszFilename, lLen ); \\
        m_pszUpdatingFilename[lLen] = '\0';
   // Call parse file instead of using the constructor
   // \  \, \mbox{so that ${\tt m\_pParser}$ is initialized for encrypted documents}
   **m pParser = new PdfParser( PdfDocument::GetObjects() ); **
    m_pParser->ParseFile( pszFilename, true );
   InitFromParser( m_pParser );
```

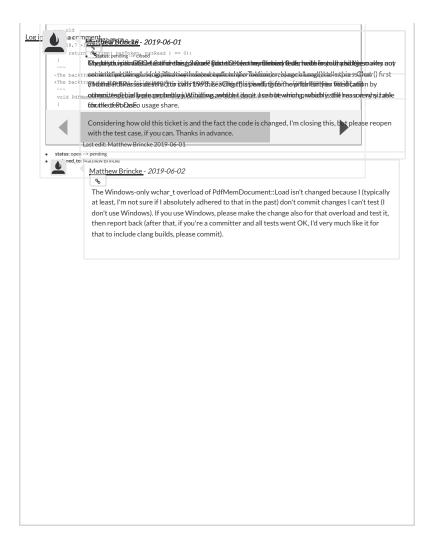
```
`cmd : podofopdfinfo poc
#0 PoDoFo::PdfTokenizer::IsNextToken (this=0x617000000080, pszToken=0x8ad0c0 <.str.23> "t:
#1 0x00000000075d53a in PoDoFo::PdfParser::ReadNextTrailer (this=0x617000000080) at /home
#2 0x00000000075cfb4 in PoDoFo::PdfParser::ReadXRefContents (this=0x617000000080, lOffset
#3 0x000000000758dd7 in PoDoFo::PdfParser::ReadDocumentStructure (this=0x617000000080) at
#4 0x00000000075772e in PoDoFo::PdfParser::ParseFile (this=0x617000000080, rDevice=..., b
#5 0x000000000756734 in PoDoFo::PdfParser::ParseFile (this=0x617000000080, pszFilename=0x
#6 0x0000000006bc080 in PoDoFo::PdfMemDocument::Load (this=0x614000000040, pszFilename=0x
#7 0x0000000006bbb90 in PoDoFo::PdfMemDocument::PdfMemDocument (this=0x614000000040, pszF
Python Exception <class 'gdb.error'> There is no member named \underline{\ M}_{a}dataplus.:
#8 0x0000000005c1972 in PdfInfo::PdfInfo (this=0x7fffffffe150, inPathname=) at /home/lt/v
#9 0x0000000005cc279 in main (argc=0x2, argv=0x7fffffffe528) at /home/lt/vuln-fuzz/progr.
```



The result shown by valgrind is as following:

```
==114144==
  ==114144== HEAP SUMMARY:
  ==114144== in use at exit: 78,160 bytes in 6 blocks
  ==114144== total heap usage: 124 allocs, 118 frees, 96,166 bytes allocated
 ==114144==
  ==114144== 5,456 (744 direct, 4,712 indirect) bytes in 1 blocks are definitely lost in loss
 ==114144== \qquad \text{at } 0x4C2E0EF: \ \text{operator new(unsigned long)} \ \ (\text{in /usr/lib/valgrind/vgpreload\_merror})
  ==114144==
                                 by 0x5B9295: Load (PdfMemDocument.cpp:255)
 by 0x5B9295: PoDoFo::PdfMemDocument::PdfMemDocument(char const*, bool) (PdfMemDocument)
==114144== by 0x5B9295: PoDoFo::PdfMemDocument::PdfMemDocument(char const*, bool) (PdfMemDocument)
==114144== by 0x43E8A2: PdfInfo::PdfMemDocument::pdfMemDocument(char const*, bool) (PdfMemDocument)
==114144== by 0x5B9295: PoDoFo::PdfMemDocument::PdfMemDocument(char const*, bool) (PdfMemDocument)
==114144== by 0x5B9295: PdfInfo::PdfMemDocument::PdfMemDocument(char const*, bool) (PdfMemDocument)
==114144== by 0x5B9295: PdfInfo::PdfMemDocument::PdfMemDocument(char const*, bool) (PdfMemDocument)
==114144== by 0x43E8A2: PdfInfo::PdfMemDocument::PdfMemDocument)
==114144== by 0x43E8A2: PdfInfo::PdfInfo(std::_cxx11::basic_string<hr/>char, std::char_train_string<hr/>char. std::char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char_train_string<hr/>char
  ==114144==
  ==114144== LEAK SUMMARY:
  ==114144== definitely lost: 744 bytes in 1 blocks
 ==114144== indirectly lost: 4,712 bytes in 4 blocks
==114144= possibly lost: 0 bytes in 0 blocks
==114144= still reachable: 72,704 bytes in 1 blocks
  ==114144==
                                              suppressed: 0 bytes in 0 blocks
  ==114144== Reachable blocks (those to which a pointer was found) are not shown.
  ==114144== To see them, rerun with: --leak-check=full --show-leak-kinds=all
  ==114144==
  ==114144== For counts of detected and suppressed errors, rerun with: -v
  ==114144== ERROR SUMMARY: 1 errors from 1 contexts (suppressed: 0 from 0)
1 Attachments
 mem-leak
Discussion
               Matthew Brincke - 2019-05-08
                                        summary: memory leakage at ---> memory leakage at src/base/PdfTokenizer.cpp:334 in IsNextToken(const char*)
Description has changed:
                                      Diff:
                                         --- old
+++ new 88 -1,4 +1,4 88 ---
-Hi, there is a memory leakage bug at 'arc/base/PdfToenizer.cpp:334 IsNextToken'
+Hi, there is a memory leakage bug at 'arc/base/PdfTokenizer.cpp:334 IsNextToken'
                                          bool PdfTokenizer::IsNextToken( const char* pszToken )
                                         00 -18,7 +18,7 00
                                               return (strcmp( pszToken, pszRead ) == 0);
                                         -The backtrace is shown following. But why the process exit, it didn't 'free' memory 'new' at 'PoDoFo: +The backtrace is shown as following. But why the process exited, it didn't 'free' memory 'new''d at '
                                          void PdfMemDocument::Load( const char* pszFilename, bool bForUpdate )
                                    Matthew Brincke - 2019-05-31
                                      My proposed fix is attached here, I fully intend to test it today (UTC), haven'T yet done so.
                                    fix-issue49.diff
                                       *
                                      Matthew Brincke - 2019-05-31
                                        That patch doesn't work, I've got a better one tested OK (with ASan, not valgrind) on a newer
                                       system with GCC 7.4 and with clang 7.0, attached here (yet to test with GCC 4.8 & clang 3.8).
                                      fix-issue49-
                                       try2.patch
                                         ±
                                    Matthew Brincke - 2019-06-01

    Description has changed:
    Diff:
```



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